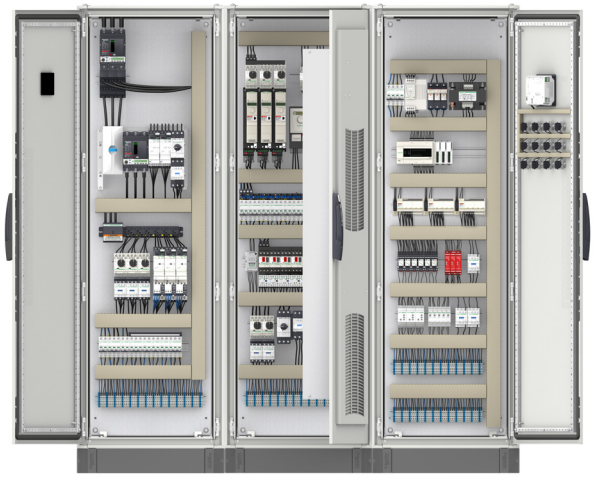
Schneider Electric

Energy and power meters catalog for Panel Builders



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Life Is On Schneider Electric

Schneider Electric

Energy and power meters catalog for panel builders

Contents

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Clicking on a
Commercial Reference Number
or scanning the product's
QR Code
links you to further product information on
www.schneider-electric.com

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PLSED310126EN_01a

Why Panel Builders Choose Schneider Electric?

Schneider Electric is the global specialist in energy management and as such it has the most complete power motoring product line, going from simple indicators (analog meters) and CTs, to world class accurate energy meters and powerful compact power meters. These proven products come with multiple options to satisfy any requirement.

Schneider Electric products are safe and reliable. We comply with the most stringent standards, including IEC, MID, UL, etc., and we thoroughly test all products with third-party laboratories. This gives our partners the peace of mind and the confidence that they are maintaining a good reputation while delivering the best value in equipment and service to their customers.

Our products are simple to install, configure, and use. This saves our partners time and money and lets them deliver the best solutions in a timely and cost-effective manner.

Whatever the size or type of application, the PowerLogic™ product line is an integral part of smart panels.

Panorama of the PowerLogic range

Use this panorama to select the most efficient products for your application needs

Current transformers

Panel instruments

CTs Ip / 5 A	Name	iAMP	iVLT	AMP/VLT	iFRE	iCH/iCI
current transformer	**Function**	ammeter, voltmeter	ammeter, voltmeter	ammeter, voltmeter	frequency meter	hour counter pulse counter
Installation i. Solid Core CTs ■ Insulated Cable, diameter 21 to 35 mm ■ busbar through transformer ■ cable connections ii. Split Core CTs ■ CT installation without the need to uninstall and reinstall power conductors ■ Cable and Busbar connections	**Applications**					
	Panel instrumentation					
	Panel instrumentation	**I / U**	**I / U**	**I / U**	**F**	**hours/pulses**
	Energy efficiency & cost					
	Sub-billing & cost allocation					
	Demand & load management					
	Billing analysis					
	Power availability & reliability					
	Compliance monitoring					
	Sag/swell, transient					
	Harmonics					
	Revenue metering					
	Revenue meter					
Characteristics i. Solid Core CTs ■ transformation ratio : 40/5 A to 6000/5 A ■ accuracy : class 0.5 to 3 ■ maximum rated operational voltage : 720 V AC ■ tropicalised range 25 °C to +60 °C (1) relative humidity > 95 % (1) Warning: some products are limited to +50 °C. ii. Split Core CTs ■ transformation ratio : 100/5A to 4000/5A ■ accuracy : class 0.5 to 3 ■ maximum rated operational voltage : 720 V AC ■ Cable connection : -5°C to +50°C relative humidity 5–85 % ■ Busbar connection : 5°C to +40°C relative humidity 5–85 %	**Characteristics**					
	Measurement accuracy	Class 1.5	± 0.5 % ± 1 digit	Class 1.5	± 0.5 % ± 1 digit	
	Installation	DIN rail 4 x 18 mm modules	DIN rail 2 x 18 mm modules	flush mounted 72 x 72 mm 96 x 96 mm	DIN rail 2 x 18 mm modules	iCI, iCH: DIN rail 2 x 18 mm modules CH: flush mount
	Measurement	iAMP: 30 A direct or external CT	iVLT: 600 V AC direct or external VT	VLT: 500 V AC direct or external VT AMP: external CT	400 V AC direct	
	Communication ports					
	Inputs / Outputs					
	Memory capacity					
page 7		page 25	page 26	page 27	page 26	page 31

Panorama of the PowerLogic range (cont'd)

Basic energy metering




Name	iEM2000/iEM2010/ iEM2000T/iEM2100	iEM3000 Series	PM3000 Series	PowerTag Energy Series
Function	kilowatt-hour meter	kilowatt-hour meters	metering & sub-metering Class 0.5S IEC 62053-22 Class 1 IEC 62053-21 Class 2 IEC 62053-23	wireless power & energy meter
Applications				
Panel instrumentation				
Panel instrumentation	E	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Power demand and current demand)	I, U, F, P, Q, S, PF, E (Depending on reference; Power demand depending on gateway)
Energy efficiency and cost				
Sub-billing & cost allocation				cost allocation
Demand & load management				
Billing analysis				
Power availability & reliability				
Compliance monitoring				
Dip/swell, transient				
Harmonics				
Revenue metering				
Revenue meter				
Characteristics				
Measurement accuracy	Class 0.5S / Class 1	Class 0.5S / Class 1	Class 0.5	IEC 61557-12 PMD/DD Class 1 (active energy)
Installation	DIN rail 1, 2, 5, or 7 x 18 mm modules	DIN rail	DIN rail	on product or on cables depending on the reference
Voltage measurement	400 V AC direct	50 V to 330 V (Ph-N) 80 V to 570 V (Ph-Ph) up to 1MV AC (ext VT)	50 V to 330 V AC (Ph-N) 80 V to 570 V AC (Ph-Ph) up to 1M V AC (ext VT)	up to 277 V AC (Ph-N) / 480 V AC (Ph-Ph) depending on the reference
Current measurement	40 to 125 A direct or external CT	external CT	external CT	63 to 2000 A
Communication ports Inputs / Outputs Memory capacity		1 2 I/O	1 2 I/O	Wireless
	page 36	page 43	page 50	page 56

Panorama of the PowerLogic range (cont'd)

Wireless products

Basic multi-function metering

Name	PowerTag Control	HeatTag Smart Sensor	PM5000 Series	PM5350 Series
Function	Circuit monitoring & control IEC 60364-8-1 EN 17267 ISO 50010	Early detection of overheating wire connections or overheating cables	metering & sub-metering Class 0.5S IEC 62053-22 Class 1 IEC 62053-21 Class 2 IEC 62053-23	Class 0.5S IEC 62053-22 Class 2 IEC 62053-23 Class 1 IEC 61557-12

Applications

Panel instrumentation				
Panel instrumentation		**Analysis of gas and micro-particles, Temperature, Humidity**	**I, U, F, P, Q, S, PF, E (Power demand and current demand)**	**I, U, F, P, Q, S, PF, E (Power demand and current demand)**
Energy efficiency and cost				
Sub-billing & cost allocation			■	■
Demand & load management				
Billing analysis				
Power availability & reliability				
Compliance monitoring			■	
Dip/swell, transient				
Harmonics			■	■
Revenue metering				
Revenue meter				

Characteristics

Measurement accuracy		Temperature ±-1.1 °C Humidity ± 9 RH%	Class 0.5S	Class 0.5
Installation	DIN rail	DIN rail 6 x 18 mm modules	Flush mount or DIN rail	Flush mount 96 mm x 96 mm
Voltage measurement			60 V to 400 V AC L-N 103.5 to 690 V AC L-L	PM53xx 20-400 V L-N 20-690 V L-L
Current measurement			external CT	external CT
Communication ports	Wireless		1	1
Inputs / Outputs	2 I/O		2 I/O	2 I/O
Memory capacity				
	page 96	**page 100**	**page 104**	**page 117**

Current transformers

Schneider Electric is the global specialist in energy management with the most complete power monitoring product line. Current Transformers are essential components designed to be used with Schneider Electric's extensive power monitoring product portfolio. From simple energy meters to world class power quality meters, these proven products satisfy any requirement.

PB119870 PB119864 PB100316-35 056852NMD-2 056854NMD-2

METSECT5CC04

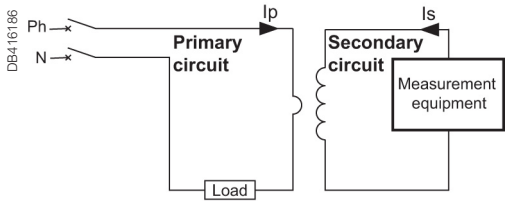
METSECT5MB025

METSECT5CYL1

METSECT5GD025

METSECT5HA025

Ip/5 A ratio



Application diagram of a CT.

The Ip/5 A ratio current transformer delivers at the secondary a current (Is) of 0 to 5 A that is proportional to the current measured at the primary (Ip). This allows them to be used in combination with measurement equipment:

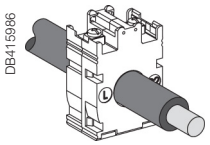
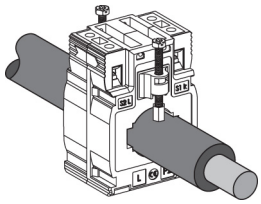
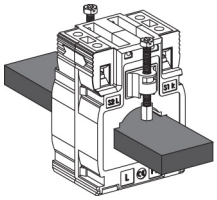
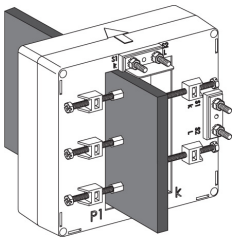
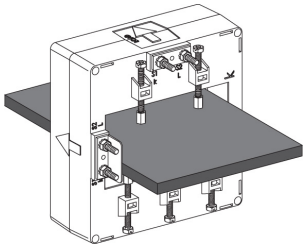
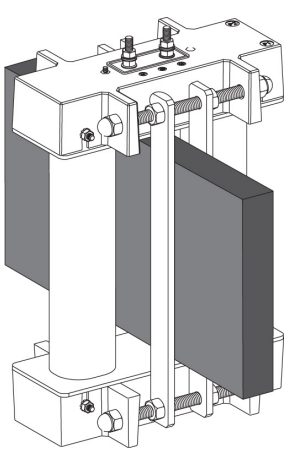
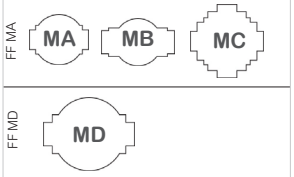
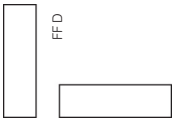
- Ammeters.
- Kilowatt-hour meters.
- Measurement units.
- Control relays.
- etc.

When the primary is energized, the measurement equipment nearly acts as a short circuit which keeps the secondary voltage very low. This voltage will increases significantly if the short circuit is removed.

CT selection - conductor rating aspects

The choice depends on the conductor profile and the maximum intensity of the primary circuit.

CT with let-through primary

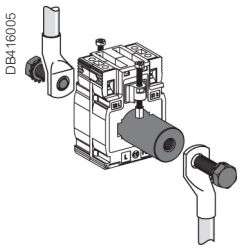
Conductor type	Cable	Mixed, bars or cables	Vertical or horizontal bars	Vertical bars
Suggested Current Transformer and mounting		 	 	
Ratings (A)	40 to 250	150 to 800	200 to 4000	5000 to 6000
CT internal	**Type C**	**Type M**	**Type D (1)**	**Type V**
				

***(1)** Two secondary connectors (parallel internal wiring - only one secondary winding) for easier cable access. 1 lateral + 1 on one extremity. Warning: only one must be used at a time.*

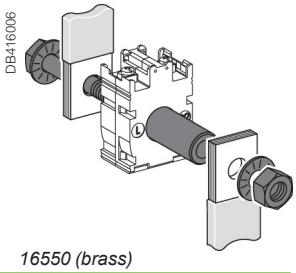
Specific mounting: use of cylinder

A cylindrical metallic spacer ensures a proper CT positioning when the conductor or the CT cannot be positioned perpendicular. Secured by bolt + nut.

CT with primary connection by screw and nut
(example: use of cylinder with bar or cable)



METSECT5CYL1 (aluminium)



16550 (brass)

NOTE: This document is not intended to be used as an installation guide.

CT selection - Electrical aspect Ip/5 A

- We recommend that you choose the ratio immediately higher than the maximum measured current (In).
  Example: In = 1103 A; ratio chosen = 1250/5.
- For small ratings: From 40/5 to 75/5 and for an application with digital devices, we recommend that you choose a higher rating, for example 100/5. This is because small ratings are less accurate and the 40 A measurement, for example, will be more accurate with a 100/5 CT than with a 40/5 CT.
- Specific case of the motor starter: to measure motor starter current, you must choose a CT with primary current Ip = Id/2 (Id = motor starting current).

Validation of measurement solution according to accuracy class

It consists in controlling the right adaptation of the CT on the accuracy class aspect. The accuracy class is specified in the project. The total dissipated power of the measurement circuit (meter + cables) should not be superior to the specified limit of the CT. This limit is for different standard classes. If necessary, the choice of the cable section, the CT or meter should be modified to fit the requirement.

Copper cable cross-section (mm²)	Power per doubled meter at 20 °C (VA)
1	**1**
1.5	**0.685**
2.5	**0.41**
4	**0.254**
6	**0.169**
10	**0.0975**
16	**0.062**

Schneider Electric device	Consumption of the current input (VA)
Ammeter 72 x 72 / 96 x 96	**1.1**
Analog ammeter	**1.1**
Digital ammeter	**0.3**
PM8000	**0.15**
PM3000	**0.3**
PM5000	
iEM3000	

For each temperature variation per 10 °C bracket, the power drawn up by the cables increases by 4 %.

Application example

Project specification: **200 A**, in **Ø27** mm cable, accuracy class 1.
Our choice is **METSECT5MA020**.

For this CT selected on the chart (next page), the max acceptable power is **7 VA** (for "Accuracy class 1" which is specified in the project).

Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial reference number	Accuracy class 0.5	1	3
					Max. power (VA)		
MA							
FF ME	**Ø27**	10 x 32	150	METSECT5MA015	3	4	-
		15 x 25	200	**METSECT5MA020**	4	7	-
			250	METSECT5MA025	6	8	-
			300	METSECT5MA030	8	10	-
			400	METSECT5MA040	10	12	-

Control of the conformity of the measurement chain:
- PM3000 multi-meter: 0.3 VA.
- 4 meters of 2.5 mm², doubled wires: 0.41 x 4 = 1.64 VA.

***Total:** 0.3 + 1.64 = 1.94 VA (< 7 VA)*

***Conclusion:** this CT is well adapted as the accuracy class will be even better than 1.*

Hazard Label

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe elecrical work practices. See NFPA 70E in the USA, CSA Z462 or applicable local standards.
- Turn off all power supplying this device and the quipment in which it is installed before working on the device or equipment.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Treat I/O wiring connected to multiple devices as hazardous live until determined otherwise.
- Do not exceed the device's ratings for maximum limits.
- Do not use this device for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Disconnect all the device's input and output wires before performing dielectric (hi-pot) or Megger testing.

CT DAMAGE

- Never open circuit a current transformer (CT)
- Do not open the CT case.
- Do not attempt to repair any components of the CT.

Failure to follow these instructions will result in death or serious injury.

PB118085

Presentation of commercial reference numbers

MET SE CT **X** **XX** **XXX**

- X: 1 = 1 Amp; 5 = 5 Amp; R = Rogowski
- XX: 2 letters = Form Factor
- XXX: Last 3 digits = primary rating/10

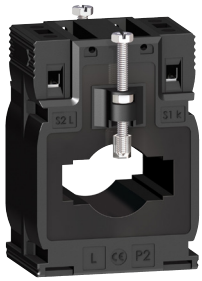
Examples:

METSECT5CC008 = 5 A secondary, Cables only, 75 A primary
METSECT5MC080 = 5 A secondary, mixed for cables and bars, 800 A primary
METSECTR30500 = Rogowski CT, 300 mm length, 96 mm diameter 50 A to 5000 A

PB112446

METSECT5CC●●●

PB112461



METSECT5MB●●●

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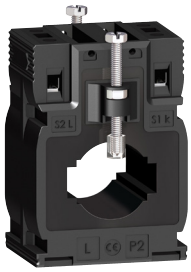

METSECT5MA●●●

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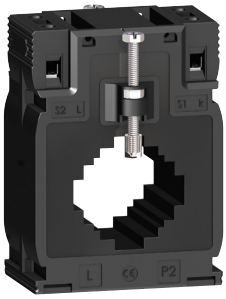

METSECT5MC●●●

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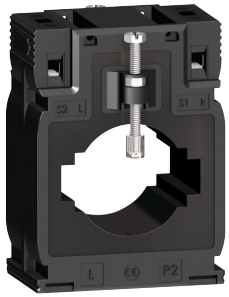
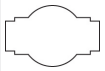
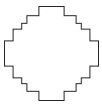
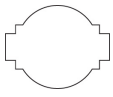


METSECT5MD●●●

Type C - solid core current transformer (cable profile)

Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial ref number
CC				
FF CC 	**Ø21**	-	40	**METSECT5CC004**
			50	**METSECT5CC005**
			60	**METSECT5CC006**
			75	**METSECT5CC008**
			100	**METSECT5CC010**
			125	**METSECT5CC013**
			150	**METSECT5CC015**
			200	**METSECT5CC020**
			250	**METSECT5CC025**

Type M - current transformers (mixed: cable/bar profile)

Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial ref number
MB				
FF MB 	**Ø26**	**12 x 40** **15 x 32**	250	**METSECT5MB025**
			300	**METSECT5MB030**
			400	**METSECT5MB040**
MA				
FF MA 	**Ø27**	**10 x 32** **15 x 25**	150	**METSECT5MA015**
			200	**METSECT5MA020**
			250	**METSECT5MA025**
			300	**METSECT5MA030**
			400	**METSECT5MA040**
MC				
FF MC 	**Ø32**	**10 x 40** **20 x 32** **25 x 25**	250	**METSECT5MC025**
			300	**METSECT5MC030**
			400	**METSECT5MC040**
			500	**METSECT5MC050**
			600	**METSECT5MC060**
			800	**METSECT5MC080**
MD				
FF MD 	**Ø40**	**12 x 50** **20 x 40**	500	**METSECT5MD050**
			600	**METSECT5MD060**
			800	**METSECT5MD080**

See your Schneider Electric representative for complete ordering information.

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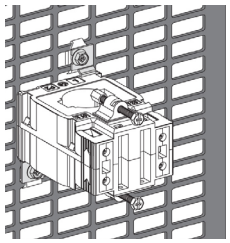

Mounting plate installation.

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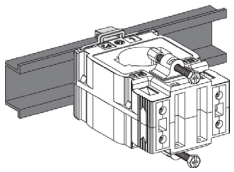


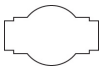
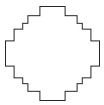
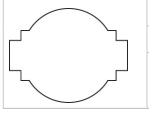
DIN rail mounting.

Common characteristics

Secondary current Is (A)	5 A
Maximum voltage rating Ue (V)	720 V
Frequency (Hz)	50/60 Hz
Safety factor (sf)	40 to 4000 A: sf ⩽ 5 5000 to 6000 A: sf ⩽ 10
Degree of protection	IP20
Operating temperature	tropicalised range -25°C to +60°C (1) relative humidity > 95 %
Storage temperature	-40°C to +85°C
Compliance with standards	IEC 61869-2 VDE 0414
Secondary connection (as per model)	by terminals for lug by tunnel terminals by screws

***(1) Warning:** some products are limited to +50°C.*

Type C - solid core current transformer (cable profile)

Internal profile type	Accuracy class 0.5	1	3	Max. power (VA)	Overall dimensions (refer to drawing pages for details) W x H x D (mm)	Fastening mode	Accessories Cylinder 	
CC					**Dimension (mm)**		**Commercial ref no.**	
FF CC 	-	-	1		**44 x 66 x 37**	■ Adapter for DIN rails. ■ Mounting plate.	**16550** **METSECT5CYL1**	**Included**
	-	1.25	1.5					
	-	1.25	2					
	-	1.5	2.5					
	2	2.5	3.5					
	2.5	3.5	4					
	3	4	5					
	4	5.5	6					
	5	6	7					
MB								
FF MB 	3	5	-		**60 x 85 x 63**	■ Adapter for DIN rails. ■ Mounting plate.	-	**METSECT5COVER**
	4	6	-					
	6	8	-					
MA								
FF MA 	3	4	-		**56 x 80 x 63**	■ Adapter for DIN rails. ■ Mounting plate.	**METSECT5CYL2**	**METSECT5COVER**
	4	7	-					
	6	8	-					
	8	10	-					
	10	12	-					
MC								
FF MC 	3	5	-		**70 x 95 x 65**	■ Adapter for DIN rails. ■ Mounting plate.	-	**METSECT5COVER**
	5	8	-					
	8	10	-					
	10	12	-					
	12	15	-					
	10	12	-					
MD								
FF MD 	4	6	-		**70 x 95 x 65**	■ Adapter for DIN rails. ■ Mounting plate.	-	**METSECT5COVER**
	6	8	-					
	8	12	-					

See your Schneider Electric representative for complete ordering information.

NOTE: This document is not intended to be used as an installation guide.

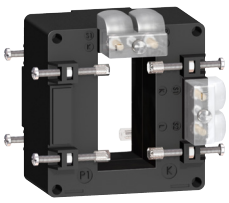
PB112467

METSECT5VV●●●

Type V - current transformers (vertical bar profile)

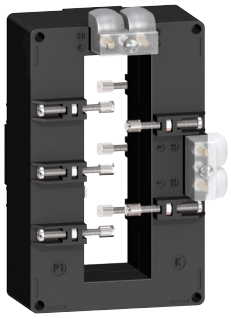
Internal profile type	Cables (mm)	Bars (mm)	Rating Ip/5 A (A)	Commercial reference number
VV				
FF V2 	-	**55 x 165**	5000	**METSECT5VV500 ★**
			6000	**METSECT5VV600 ★**

PB112454



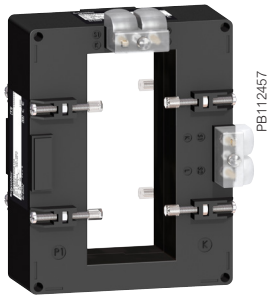
METSECT5DA●●●

PB112455



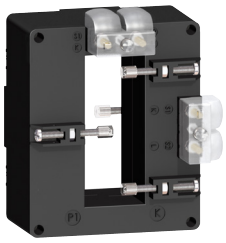
METSECT5DB●●●

PB112456



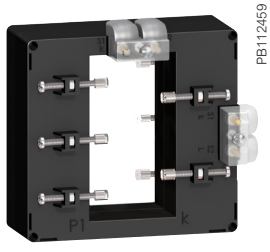
METSECT5DC●●●

PB112457



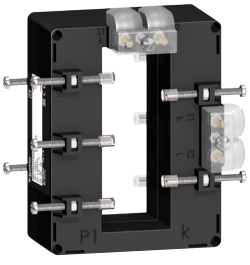
METSECT5DD●●●

PB112458



METSECT5DE●●●

PB112459



METSECT5DH●●●

Type D - current transformers (vertical or horizontal bar - dual secondary terminals)

DA				
		32 x 65	400	**METSECT5DA040**
			500	**METSECT5DA050**
			600	**METSECT5DA060**
			800	**METSECT5DA080**
			1000	**METSECT5DA100**
			1250	**METSECT5DA125 ★**
			1500	**METSECT5DA150 ★**
DB				
	-	**38 x 127**	1000	**METSECT5DB100**
			1250	**METSECT5DB125 ★**
			1500	**METSECT5DB150 ★**
			2000	**METSECT5DB200 ★**
			2500	**METSECT5DB250 ★**
			3000	**METSECT5DB300 ★**
DC				
	-	**52 x 127**	2000	**METSECT5DC200 ★**
			2500	**METSECT5DC250 ★**
			3000	**METSECT5DC300 ★**
			4000	**METSECT5DC400 ★**
DD				
	-	**34 x 84**	1000	**METSECT5DD100**
			1250	**METSECT5DD125 ★**
			1500	**METSECT5DD150 ★**
DE				
	-	**54 x 102**	1000	**METSECT5DE100**
			1250	**METSECT5DE125 ★**
			1500	**METSECT5DE150 ★**
			2000	**METSECT5DE200 ★**
DH				
	-	**38 x 102**	1250	**METSECT5DH125 ★**
			1500	**METSECT5DH150 ★**
			2000	**METSECT5DH200 ★**

★ *Operating temperature: -25 °C to 50 °C*

See your Schneider Electric representative for complete ordering information.

Type V - solid core current transformers (vertical bar profile)

Internal profile type	Accuracy class 0.5	1	3	Overall dimensions (refer to drawing pages for details) W x H x D (mm)	Fastening mode	Accessories Cylinder	Sealable cover
	Max. power (VA)						
VV				**Dimension (mm)**			
FF V2	60	-	-	**175 x 273.5 x 110**	■ Insulated locking screw.	-	**Included**
	70	-	-				

Type D - solid core current transformers (vertical or horizontal bar - dual secondary terminals)

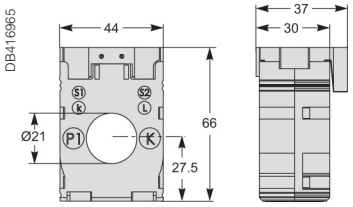
DA				**Dimension (mm)**			
	4	8	-	**90 x 94 x 90**	■ Insulated locking screw.		**Included**
	8	10	-				
	8	12	-				
	12	15	-				
	15	20	-				
	15	20	-				
	20	25	-				
DB							
	6	10	-	**99 x 160 x 87**	■ Insulated locking screw.	-	**Included**
	8	12	-				
	10	15	-				
	15	20	-				
	20	25	-				
	25	30	-				
DC							
	25	30	-	**125 x 160 x 87**	■ Insulated locking screw.	-	**Included**
	30	50	-				
	30	50	-				
	30	50	-				
DD							
	10	15	-	**96 x 116 x 87**	■ Insulated locking screw.	-	**Included**
	12	15	-				
	15	20	-				
DE							
	12	15	-	**135 x 129 x 85**	■ Insulated locking screw.	-	**Included**
	15	20	-				
	20	25	-				
	20	25	-				
DH							
	12	15	-	**98 x 129 x 75**	■ Insulated locking screw.	-	**Included**
	12	15	-				
	20	25	-				

★ *Operating temperature: -25 °C to 50 °C*

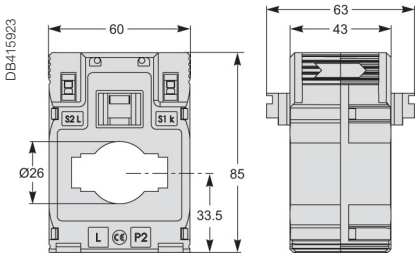
See your Schneider Electric representative for complete ordering information.

Solid core CT dimensions

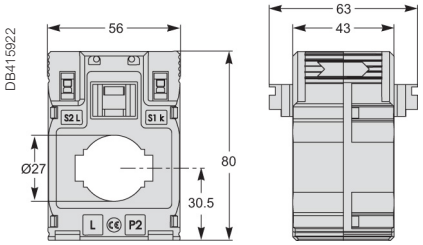
CC internal profile type



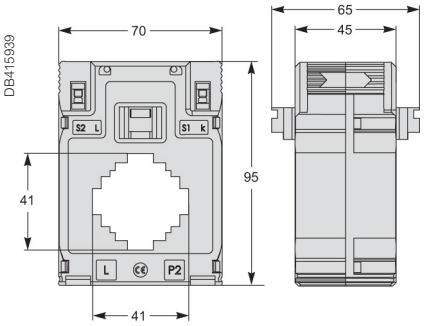
MB internal profile type



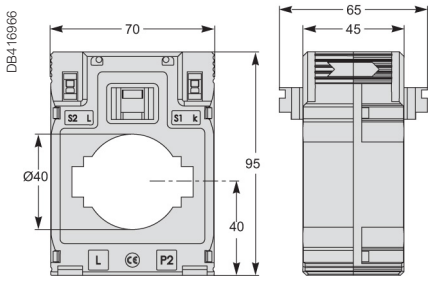
MA internal profile type



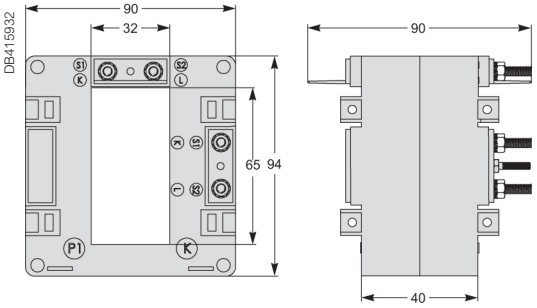
MC internal profile type



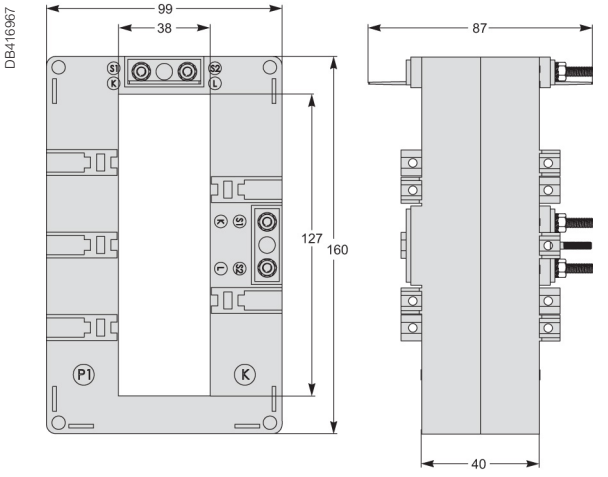
MD internal profile type



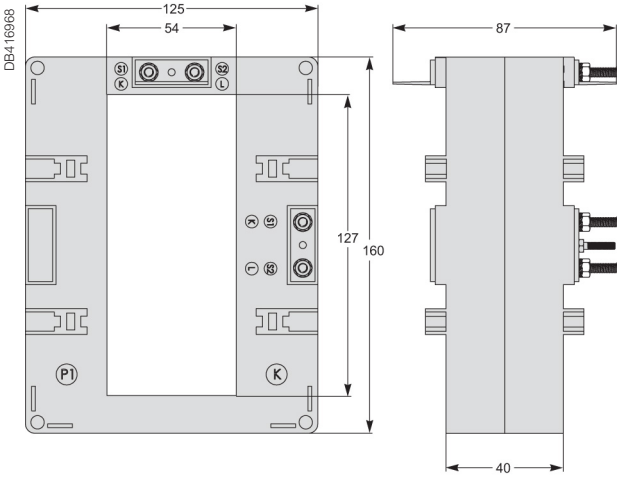
DA internal profile type



DB internal profile type

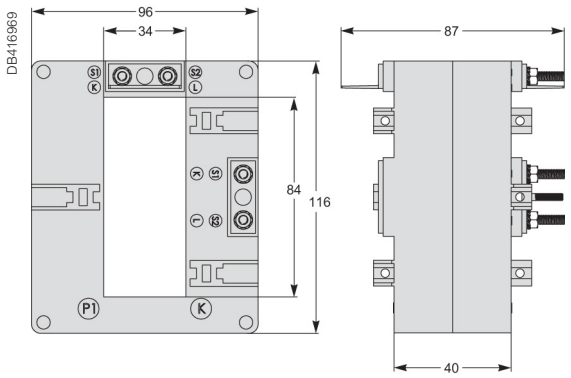


DC internal profile type

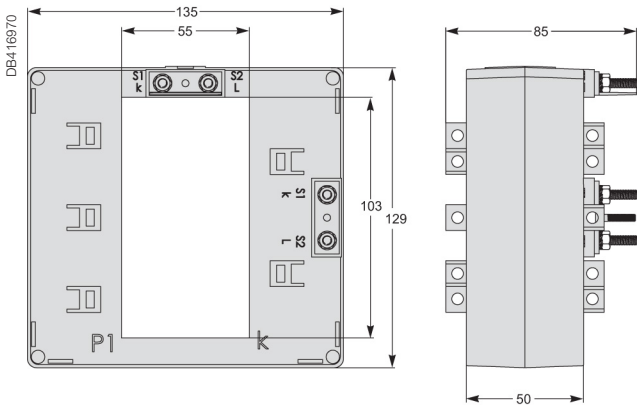


Solid core CT dimensions contd.

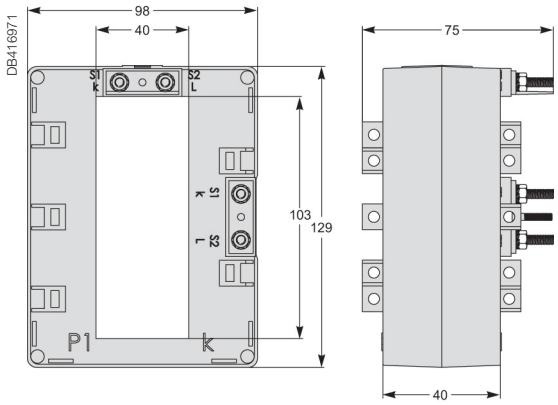
DD internal profile type



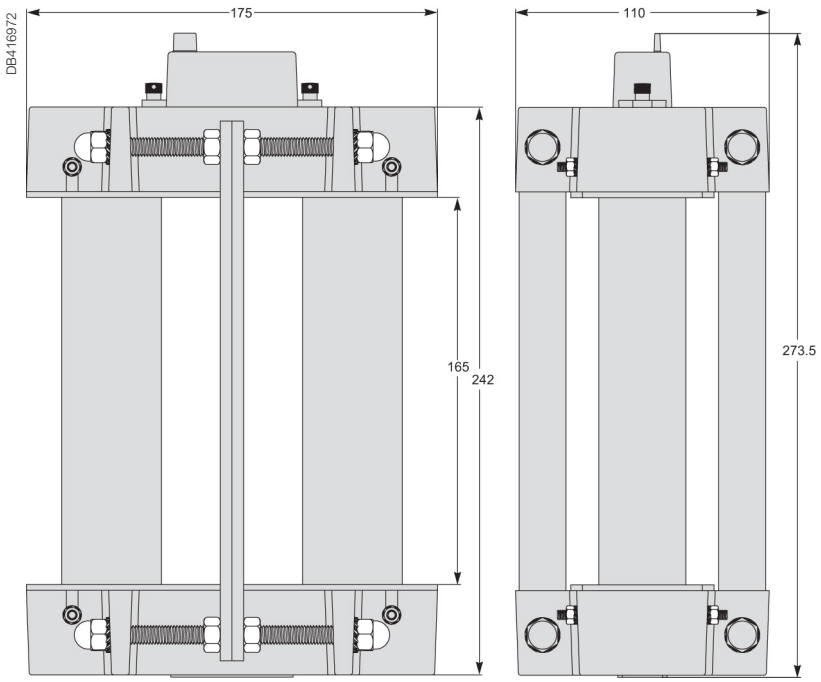
DE internal profile type



DH internal profile type



VV internal profile type

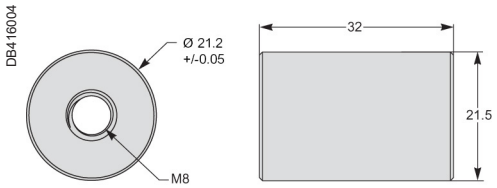


NOTE: This document is not intended to be used as an installation guide.

Solid core cylinders dimensions

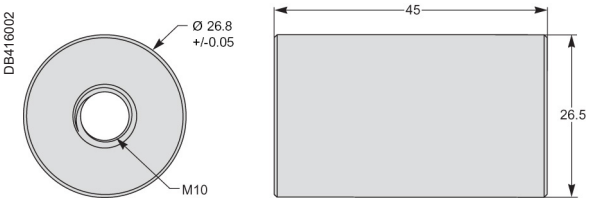
Cylinders

METSECT5CYL1



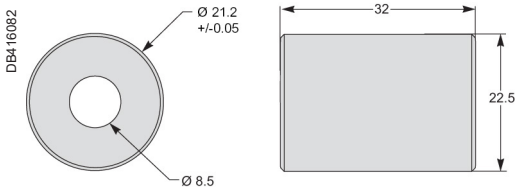
Aluminium

METSECT5CYL2



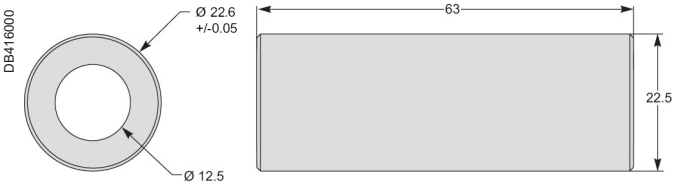
Aluminium

16550



Brass

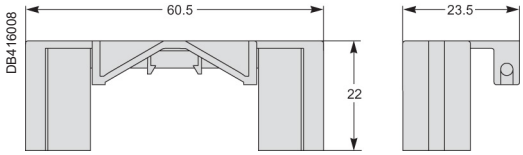
16551



Brass

Covers

METSECT5COVER



Split core CTs

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe elecrical work practices. See NFPA 70E in the USA, CSA Z462 or applicable local standards.
- Turn off all power supplying this device and the quipment in which it is installed before working on the device or equipment.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Treat I/O wiring connected to multiple devices as hazardous live until determined otherwise.
- Do not exceed the device's ratings for maximum limits.
- Do not use this device for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.
- Disconnect all the device's input and output wires before performing dielectric (hi-pot) or Megger testing.

CT DAMAGE

- Never open circuit a current transformer (CT)
- Do not open the CT case.
- Do not attempt to repair any components of the CT.

Failure to follow these instructions will result in death or serious injury.

Hazard Label

Common characteristics	Cable CT	Bus Bar CT
Secondary current Is (A)	5 A	5 A
Maximum voltage rating Ue (V)	720 V	720 V
Frequency (Hz)	50/60 Hz	50/60 Hz
Safety factor (sf)	up to 1000 A: sf ⩽ 5 greater than 1000 A: sf ⩽ 10	up to 1500 A: sf ⩽ 5 greater than 1500 A: sf ⩽ 10
Degree of protection	IP20	IP20
Operating temperature	-5°C to +50°C relative humidity 5-85 %	-5°C to +40°C relative humidity 5-85 %
Storage temperature	-25°C to +70°C	-25°C to +70°C
Compliance with standards	IEC 61869-1 IEC 61869-2	IEC 61869-1 IEC 61869-2
Secondary connection (as per model)	by terminals for lug by tunnel terminals by screws	by terminals for lug by tunnel terminals by screws

Split core CT

CT internal	Type H	Type G
	FF C  **HA HD HG HJ HP**	FF V2  **GA GD GG GJ**
	FF HM  **HM**	

Split core CTs

PB119862

METSECT5GA●●●

PB119864

METSECT5GD●●●

PB119866

METSECT5GG●●●

PB119868

METSECT5GJ●●●

Type G - split core current transformers (bus bar)

	Accuracy class Max power (VA)			CT window dimension (mm)	Rating Ip/5A (A)	Commercial Reference no.
	0.5	1	3			
GA						
	-	-	1.25	23 x 33	100	METSECT5GA010
	-	-	1.5		150	METSECT5GA015
	-	-	2.5		200	METSECT5GA020
	-	1.5	-		250	METSECT5GA025
	-	3.75	-		300	METSECT5GA030
	1	-	-		400	METSECT5GA040
GD						
	-	1.5	-	55 x 85	250	METSECT5GD025
	-	2.5	-		300	METSECT5GD030
	1	-	-		400	METSECT5GD040
	2.5	-	-		500	METSECT5GD050
	2.5	-	-		600	METSECT5GD060
	2.5	-	-		750	METSECT5GD075
	2.5	-	-		800	METSECT5GD080
	5	-	-		1000	METSECT5GD100
GG						
	-	1.5	-	85 x 125	250	METSECT5GG025
	-	2.5	-		300	METSECT5GG030
	-	2.5	-		400	METSECT5GG040
	2.5	-	-		500	METSECT5GG050
	2.5	-	-		600	METSECT5GG060
	2.5	-	-		750	METSECT5GG075
	2.5	-	-		800	METSECT5GG080
	5	-	-		1000	METSECT5GG100
	5	-	-		1200	METSECT5GG120
	7.5	-	-		1250	METSECT5GG125
	7.5	-	-		1500	METSECT5GG150
GJ						
	10	-	-	85 x 165	1000	METSECT5GJ100
	10	-	-		1200	METSECT5GJ120
	10	-	-		1500	METSECT5GJ150
	10	-	-		1600	METSECT5GJ160
	10	-	-		2000	METSECT5GJ200
	10	-	-		2500	METSECT5GJ250
	15	-	-		3000	METSECT5GJ300
	15	-	-		4000	METSECT5GJ400

See your Schneider Electric representative for complete ordering information.

Split core CTs contd.

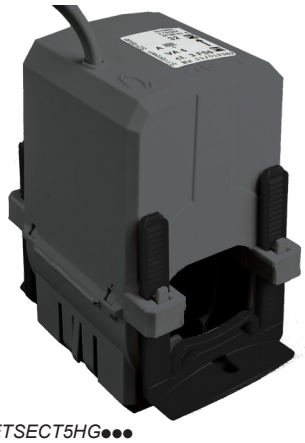
PB119870

METSECT5HA●●●

PB119872

METSECT5HD●●●

PB119874



METSECT5HG●●●

PB119876

METSECT5HJ●●●

Type H - split core current transformers (cable)

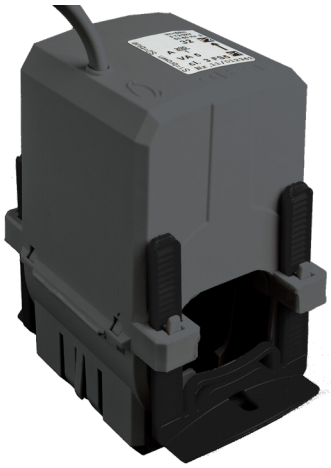
	Accuracy class Max power (VA)			CT window dimension (mm)	Rating Ip/5A (A)	Commercial Reference no.
	0.5	1	3			
HA						
	-	1	-	18.4 x 19	150	METSECT5HA015
	-	1.5	-		150	METSECT5HA020
	1	-	-		250	METSECT5HA025
HD						
	-	1	-	27.9 x 27	250	METSECT5HD025
	-	1.5	-		300	METSECT5HD030
	-	2.5	-		400	METSECT5HD040
	1	-	-		500	METSECT5HD050
HG						
	-	-	1.5	Ø32.5	100	METSECT5HG010
	-	-	2.5		125	METSECT5HG013
	-	-	3		150	METSECT5HG015
	-	-	3		200	METSECT5HG020
	-	-	3		250	METSECT5HG025
	-	2.5	-		300	METSECT5HG030
	-	5	-		400	METSECT5HG040
	-	5	-		500	METSECT5HG050
	-	5	-		600	METSECT5HG060
HJ						
	-	2.5	-	42.4 x 43	300	METSECT5HJ030
	-	5	-		400	METSECT5HJ040
	-	5	-		500	METSECT5HJ050
	2.5	-	-		600	METSECT5HJ060
	2.5	-	-		750	METSECT5HJ075
	2.5	-	-		800	METSECT5HJ080
HM						
	-	2.5	-	42.4 x 85	300	METSECT5HM030
	-	5	-		400	METSECT5HM040
	-	5	-		500	METSECT5HM050
	2.5	-	-		600	METSECT5HM060
	2.5	-	-		750	METSECT5HM075
	2.5	-	-		800	METSECT5HM080
HP						
	-	1.5	-	Ø44	250	METSECT5HP025
	-	2.5	-		300	METSECT5HP030
	-	5	-		400	METSECT5HP040
	-	5	-		500	METSECT5HP050
	-	5	-		600	METSECT5HP060
	-	5	-		750	METSECT5HP075
	-	5	-		800	METSECT5HP080
	-	5	-		1000	METSECT5HP100

See your Schneider Electric representative for complete ordering information.

PB119878

METSECT5HM●●●

PB119880

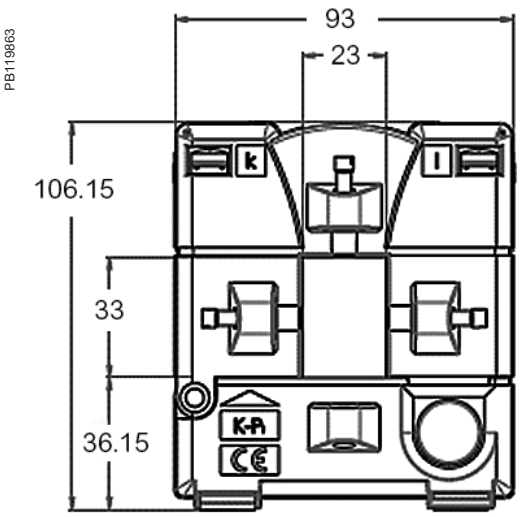


METSECT5HP●●●

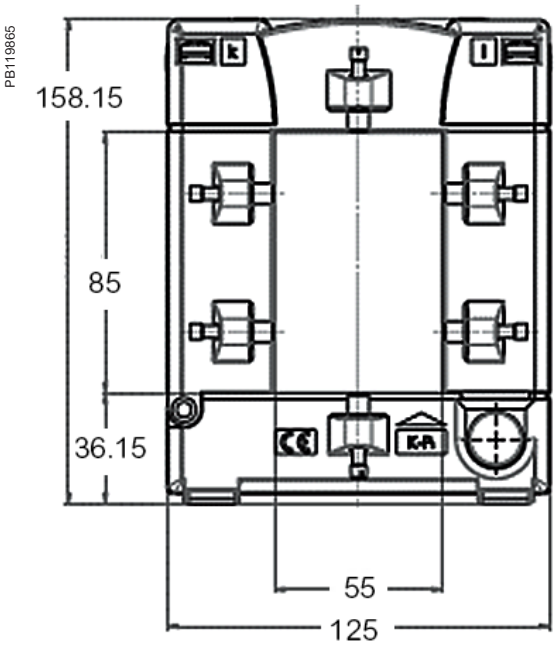
Split core CT dimensions

Gx products

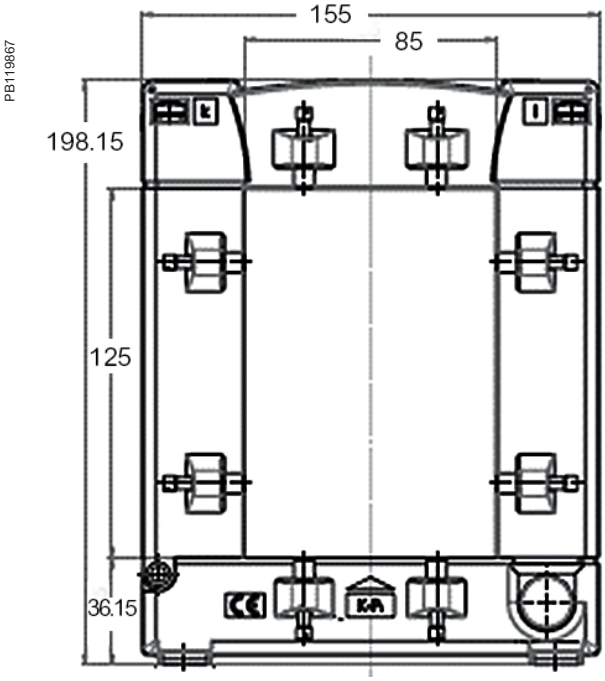
GA Dimensions



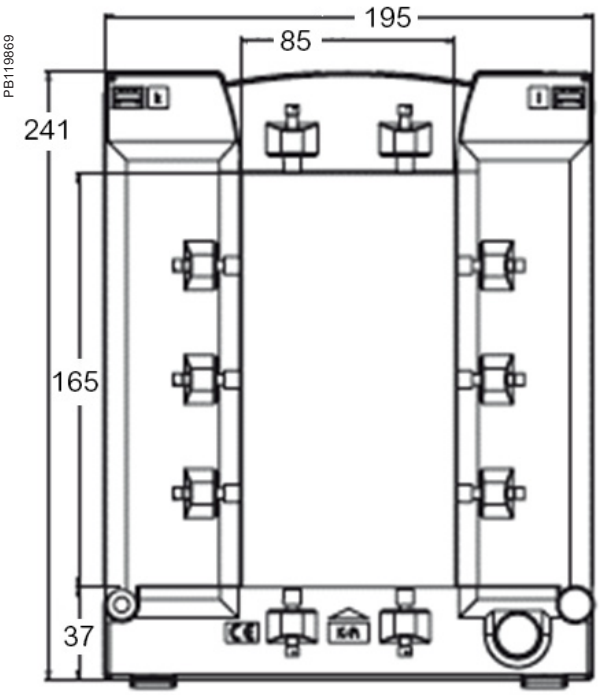
GD Dimensions



GG Dimensions



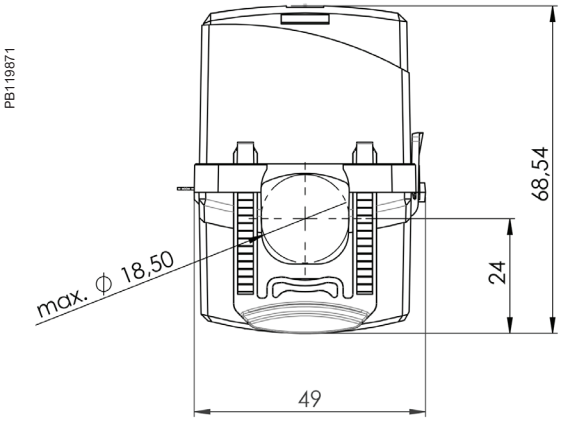
GJ Dimensions



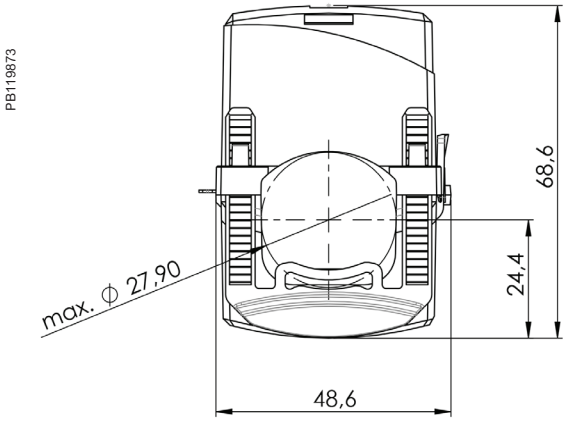
Split core CT dimensions contd.

Hx products

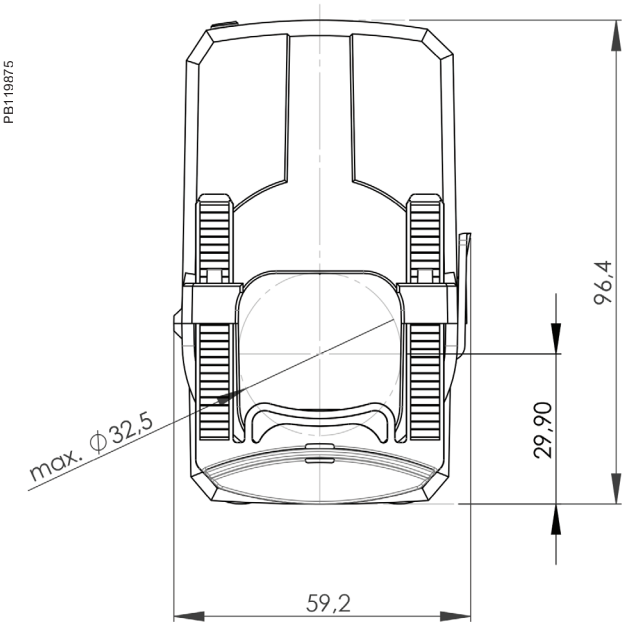
HA Dimensions



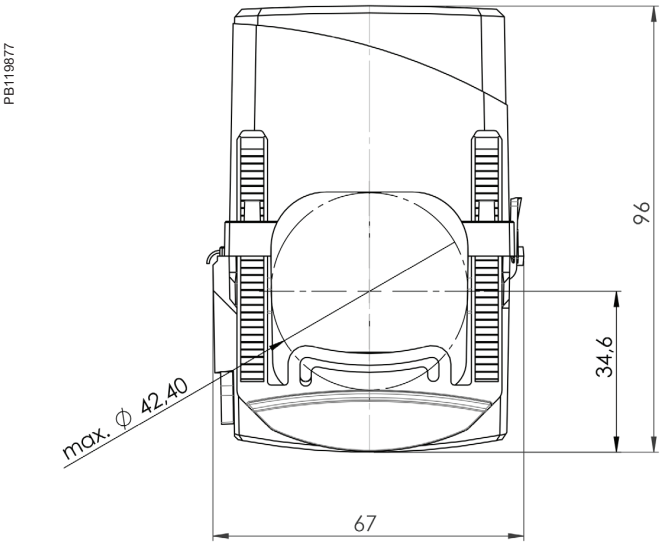
HD Dimensions



HG Dimensions

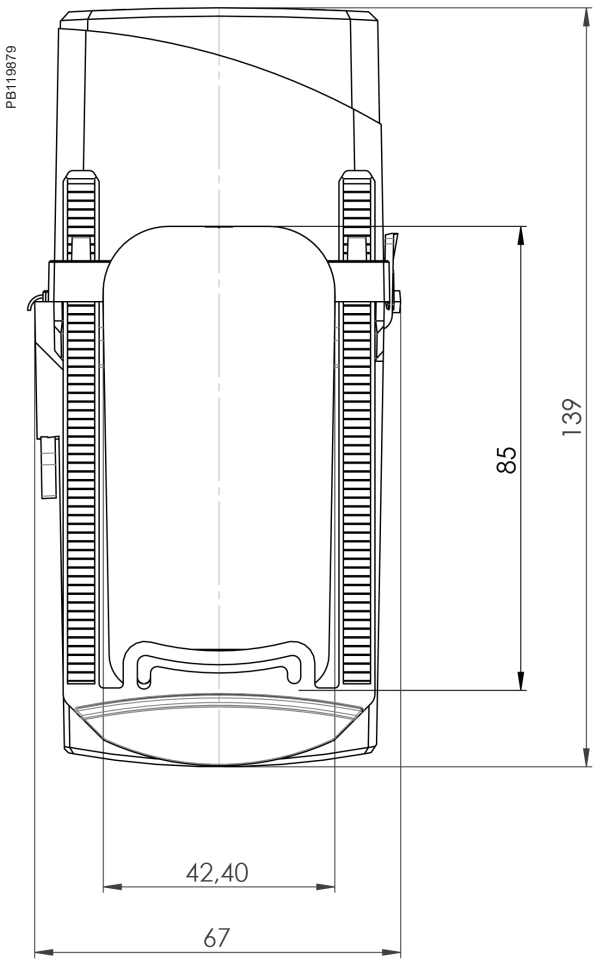


HJ Dimensions

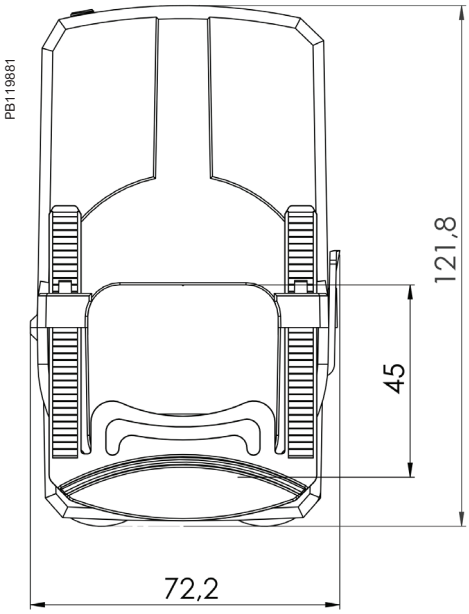


Split core CT dimensions contd.

HM Dimensions



HP Dimensions



Rogowski CTs

METSECTR30500

PowerLogic Rogowski Current Transformer

Main	METSECTR30500	METSECTR46500	METSECTR60500	METSECTR90500
Range	PowerLogic			
Product or component type	Current transducer			
Accessory / part category	Measurement accessory			
Range compatibility	PowerLogic EM3500 - EM3555A EM3502A EM3560 EM3550A EM3560 EM3561A PowerLogic EM4200 - EM4236 EM4235 Acti9 iEM3000 - iEM3555 iEM3565			
Current transformer type	Flexible core			
Complementary				
Electrical connection	Flying lead 2.4 m 600 V AC max, voltage L-N sensed conductor			
Cable	1000 V AC UL style 21223 cable with 22 AWG leads			
Current range	50 A to 5000 A			
Network frequency	50/60 Hz			
Measurement accuracy	±1 % from 50 A to 5000 A			
Installation category	600 V AC Cat IV			
Pollution degree	2			
Dimensions	METSECTR30500	METSECTR46500	METSECTR60500	METSECTR90500
CT core thickness	8 mm diameter	8 mm diameter	8 mm diameter	8 mm diameter
CT core length (open)	300 mm	460 mm	600 mm	900 mm
Diameter (closed)	96 mm	146 mm	191 mm	287 mm
Environment				
Standards	EN 61010-1, UL 61010-1, EN 61010-2-032, UL 61010-2-032			
Product certifications	CURus UL recognized			
Ambient air temperature for operation	-15 °C to 60 °C			
Ambient air temperature for storage	-40 °C to 70 °C			
Humidity range	0 to 95 % non-condensing			
Altitude	2000 m max			
Protection degree	IP67			

Commercial Reference Numbers	
METSECTR25500	Powerlogic - Rogowski current transformer, 250 mm CT core length, 80 mm dia. CT, rope, 600 V AC, 5 kA
METSECTR30500	Powerlogic - Rogowski current transformer, 300 mm CT core length, 96 mm dia. CT, rope, 600 V AC, 5 kA
METSECTR46500	Powerlogic - Rogowski current transformer, 460 mm CT core length, 146 mm dia. CT, rope, 600 V AC, 5 kA
METSECTR60500	Powerlogic - Rogowski current transformer, 600 mm CT core length, 191 mm dia. CT, rope, 600 V AC, 5 kA
METSECTR90500	Powerlogic - Rogowski current transformer, 900 mm CT core length, 287 mm dia. CT, rope, 600 V AC, 5 kA

Panel instruments

Schneider Electric panel instruments reliably comply with the most stringent standards, including IEC, MID, UL, etc., and we thoroughly test all products with recognized, third-party laboratories.

Our products are simple to install, configure, and use. This saves our partners time and money and lets them deliver the best solutions in a timely and cost-effective manner. Whatever the size or type of application, the PowerLogic™ product line is an integral part of smart panels.

DB119006
PB112024
PB101118

16029

15202

16003

16029

iAMP.

16061

iVLT.

Function

iAMP

Ammeters measure the current flowing through an electric circuit in amps.

iVLT

Voltmeters measure the potential (voltage) difference of an electric circuit in volts.

Common technical data

- Accuracy: Class 1.5
- Complies with standards IEC 60051-1, IEC 61010-1 and IEC 61000-4
- Ferromagnetic device
- Pseudo-linear scale over 90°
- Ammeters (except catalog number 16029):
  - connection on CT, ratio In/5, to be ordered separately
  - interchangeable dials
- Temperature:
  - operating temperature: -25 °C to 55 °C
  - reference temperature: 23 °C
- Influence of temperature on accuracy: ±0.03 %/°C
- Utilisation frequency: 50 Hz to 60 Hz
- Consumption:
  - AMP: 1.1 VA
  - VLT catalog number 15060: 2.5 VA
  - VLT catalog number 16061: 3.5 VA
- Permanent overload:
  - AMP: 1.2 In
  - VLT: 1.2 Un
- Maximum overload for 5 s:
  - AMP: 10 In
  - VLT: 2 Un
- Connection: tunnel terminals for 1.5 to 6 mm^2 rigid cables

Commercial reference numbers

Type	Scale	Connection with CT	Width in mod. of 9 mm	Comm. ref. no.
iAMP with direct connection				
	0-30 A	no	8	16029
iAMP with connection on CT				
Basic device (delivered without dial)		X/5	8	16030
Dial	0-5 A			
	0-50 A	50/5		16032
	0-75 A	75/5		16033
	0-100 A	100/5		16034
	0-150 A	150/5		16035
	0-200 A	200/5		16036
	0-250 A	250/5		16037
	0-300 A	300/5		16038
	0-400 A	400/5		16039
	0-500 A	500/5		16040
	0-600 A	600/5		16041
	0-800 A	800/5		16042
	0-1000 A	1000/5		16043
	0-1500 A	1500/5		16044
	0-2000 A	2000/5		16045
iVLT				
	0-300 V		8	16060
	0-500 V		8	16061

See your Schneider Electric representative for complete ordering information.

PB112024

15202

iAMP.

PB112023

15201

iVLT.

PB112025

15208

iFRE.

Function

iAMP

Ammeters measure in amps the current flowing through an electric circuit.

iVLT

Voltmeters measure in volts the potential (voltage) difference of an electric circuit.

iFRE

Frequency meters measure in hertz the frequency of an electric circuit from 20 to 600 V AC.

Common technical data

- Supply voltage: 230 V AC
- Operating frequency: 50 Hz to 60 Hz
- Display by red LED: 3 digits, h = 8 mm (0.31 in)
- Accuracy at full-scale : 0.5 % ±1 digit.
- Consumption: max. 5 VA or rated 2.5 VA
- Degree of protection:
  - IP40 on front face
  - IP20 at terminal level
- Connection: tunnel terminals for 2.5 mm^2 cables

Specific data

10 A direct reading ammeter

- Minimum value measured: 4 % of rating
- Measurement input consumption: 1 VA

Multi-rating ammeter

- Ratings:
  - in direct reading: 5 A
  - by CT (not supplied) configurable on the front face of the ammeter: 10, 15, 20, 25, 40, 50, 60, 100, 150, 200, 250, 400, 500, 600, 800, 1000, 1500, 2000, 2500, 4000, 5000 A
- Minimum value measured: 4 % of rating
- Measurement input consumption: 0.55 VA

Voltmeter

- Direct measurement: 0...600 V AC
- Input impedance: 2 MW
- Minimum value measured: 4 % of rating

Frequency meter

- Minimum value measured: 20 Hz
- Maximum value measured: 100 Hz
- Full-scale display: 99.9 Hz

Compliance with standards

- Safety: IEC/EN 61010-1
- EMC electromagnetic compatibility: IEC/EN 65081-1 and IEC/EN 65082-2

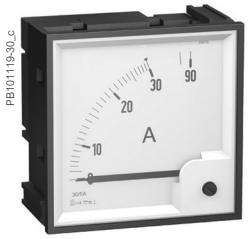
Commercial reference numbers

Type	Scale	Connection with CT	Width in mod. of 9 mm	Comm. ref. no.
Direct reading iAMP				
	0-10 A	No	4	15202
Multi-rating iAMP				
	0-5000 A	As per rating	4	15209
iVLT				
	0-600 V		4	15201
iFRE				
	20-100 Hz		4	15208

See your Schneider Electric representative for complete ordering information.

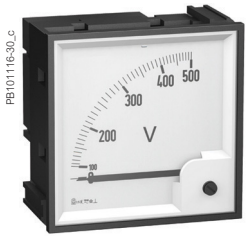
16009

AMP for standard feeder



16006

AMP for motor feeder



16005

VLT

Function

The 72 x 72 measurement devices are designed for flush-mounted installation on doors, wicket doors and front plates of enclosures and cubicles.

AMP

The ammeters measure in amps the current flowing through an electrical circuit.

VLT

The voltmeter measure in volts the potential difference (voltage) of an electrical circuit.

Common technical data

- Accuracy: Class 1.5
- Compliance with standard IEC 60051-1, IEC 61010-1 and IEC 61000-4
- Ferromagnetic device
- Scale length: 62 mm over 90°
- Mounting in enclosure or in cubicle
- Degree of protection: IP52
- Maximum operating position: 30° / vertical
- Temperature:
  - operation: -25 °C to 50 °C
  - reference: 23 °C
- Influence of temperature on accuracy: ±0.003 %/ °C
- Utilisation frequency: 50 Hz to 60 Hz

AMP specific technical data

- Needs a In/5 CT to be ordered separately
- Interchangeable dials to be ordered separately
- Consumption: 1.1 VA
- Permanent overload: 1.2 In
- Maximum overload for 5 s: 10 In

VLT specific technical data

- Consumption: 3 VA
- Permanent overload: 1.2 Un
- Maximum overload for 5 s: 2 Un

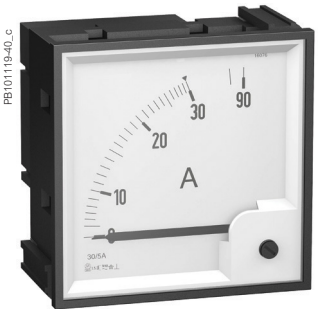
Commercial reference numbers

Type	Scale	Connection on CT	Comm. ref. no.
AMP for standard feeder			
Basic device (delivered without dial)		X/5	16004
1.3 In dial	0-50 A	50/5	16009
	0-100 A	100/5	16010
	0-200 A	200/5	16011
	0-400 A	400/5	16012
	0-600 A	600/5	16013
	0-1000 A	1000/5	16014
	0-1250 A	1250/5	16015
	0-1500 A	1500/5	16016
	0-2000 A	2000/5	16019
AMP for motor feeder			
Basic device (delivered without dial)		X/5	16003
3 In dial	0-30-90 A	30/5	16006
	0-75-225 A	75/5	16007
	0-200-600 A	200/5	16008
VLT			
	0-500 V		16005

See your Schneider Electric representative for complete ordering information.

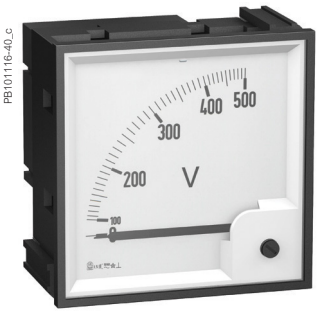
AMP for standard feeder

16079



AMP for motor feeder

16076



VLT

16075

Function

The 96 x 96 measurement devices are designed for flush-mounted installation on doors, wicket doors and front plates of enclosures and cubicles.

AMP

The ammeters measure in amps the current flowing through an electrical circuit.

VLT

The voltmeter measure in volts the potential difference (voltage) of an electrical circuit.

Common technical data

- Accuracy: class 1.5
- Compliance with standard IEC 60051-1, IEC 61010-1 and IEC 61000-4
- Ferromagnetic device
- Scale length: 80 mm over 90°
- Mounting in enclosure or in cubicle
- Degree of protection: IP52
- Maximum operating position: 30° / vertical
- Temperature:
  - operation: -25 °C to 50 °C
  - reference: 23 °C
- Influence of temperature on accuracy: ±0.003 % / °C
- Utilisation frequency: 50 Hz to 60 Hz

AMP specific technical data

- Needs a In/5 CT to be ordered separately
- Interchangeable dials to be ordered separately
- Consumption: 1.1 VA
- Permanent overload: 1.2 In
- Maximum overload for 5S: 10 In

VLT specific technical data

- Consumption: 3 VA
- Permanent overload: 1.2 Un
- Maximum overload for 5S: 2 Un

Commercial reference numbers

Type	Scale	Connection on CT	Comm. ref. no.
AMP for standard feeder			
Basic device (delivered without dial)		X/5	16074
1.3 In dial	0-50 A	50/5	16079
	0-100 A	100/5	16080
	0-200 A	200/5	16081
	0-400 A	400/5	16082
	0-600 A	600/5	16083
	0-1000 A	1000/5	16084
	0-1250 A	1250/5	16085
	0-1500 A	1500/5	16086
	0-2000 A	2000/5	16087
	0-2500 A	2500/5	16088
	0-3000 A	3000/5	16089
	0-4000 A	4000/5	16090
	0-5000 A	5000/5	16091
	0-6000 A	6000/5	16092
AMP for motor feeder			
Basic device (delivered without dial)		X/5	16073
3 In dial	0-30-90 A	30/5	16076
	0-75-225 A	75/5	16077
	0-200-600 A	200/5	16078
VLT			
	0-500 V		16075

See your Schneider Electric representative for complete ordering information.

Function

The 48 x 48 selector switches are designed for flush-mounted installation on doors, wicket doors and front plates of enclosures and cubicles.

CMA

The ammeter selector switch uses a single ammeter (by means of current transformers) for successive measurement of the currents of a three-phase circuit.

CMV

The voltmeter selector switch uses a single voltmeter for successive measurement of the voltages (phase-to-phase and phase-to-neutral) of a three-phase circuit.

Common technical data

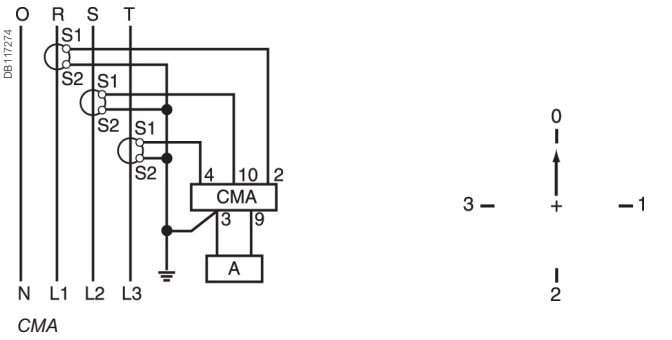
- Durability:
  - electrical: 100,000 operations
  - mechanical: 2,000,000 operations
- AgNi contact
- Operating temperature: -25 °C to 50 °C
- Compliance with standards IEC/EN 60947-3
- Degree of protection:
  - IP65 on front face
  - IP20 at terminal level

Commercial reference numbers

Type	Rating (A)	Voltage (V)	Number of positions	Comm. ref. no.
CMA	20		4	16017
CMV		500	7	16018

See your Schneider Electric representative for complete ordering information.

Connection



CMA

CMV

Reading 3 phase-to-earth voltages + 3 phase-to-phase voltages.

Note: when connecting do not remove the pre-cabling.

See appropriate Installation Guide for this product.

PB107119

15126

iCMA

PB107118

15125

iCMV

Function

iCMA

This 4-position ammeter selector switch uses a single ammeter (using current transformers) for successive measurement of the currents of a three-phase circuit.

iCMV

This 7-position voltmeter selector switch uses a single voltmeter for successive measurement of voltages (phase-to-phase and phase-to-neutral) of a three-phase circuit.

Common technical data

- Rotary handle
- Maximum operating voltage: 440 V, 50/60 Hz
- Nominal thermal current: 10 A
- Operating temperature: -20 °C to 55 °C
- Storage temperature: -25°C to 80°C
- Mechanical durability (AC21A-3 x 440 V): 2,000,000 operations
- Degree of protection:
  - IP66 on front face
  - IP20 at terminal level
- Electrical durability: 1,000,000 operations
- Connection: jumper terminals with captive screws, for cables up to 1.5 mm^2
- Complies with standards: IEC/EN 60947-3

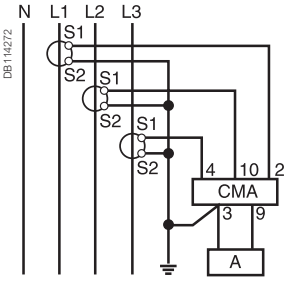
Commercial reference numbers

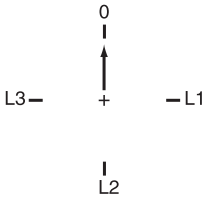
Type	Rating (A)	Voltage (V AC)	Width in mod. of 9 mm	Comm. ref. no.
iCMA	10	415	4	15126
iCMV	10	415	4	15125

See your Schneider Electric representative for complete ordering information.

Connection

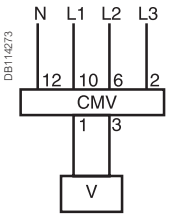
DB114272

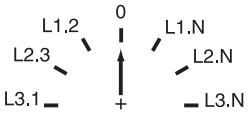




iCMA

DB114273





iCMV

See appropriate Installation Guide for this product.

15440

iCH "DIN"

15607

CH "48 x 48"

Function

Electromechanical counter that counts the operating hours of a machine or piece of electrical equipment. Giving a precise indication of operating time, the counter is used to decide when to carry out preventive maintenance.

Common technical data

- Electromechanical display.
- Maximum display: 99999.99 hours.
- Display accuracy: 0.01 %.
- Without reset.
- Storage temperature: -25 °C to 85 °C.
- Connection: tunnel terminals for 2.5 mm2 cable.

Specific technical data

iCH "DIN"

- Consumption: 0.15 VA.
- Operating temperature: -10 °C to 70 °C.
- Mounting on DIN rail.

CH "48 x 48"

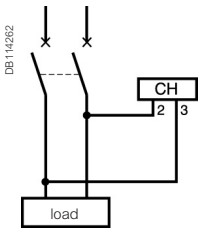
- Consumption:
  - 15607: 0.25 VA
  - 15608: 0.15 VA
  - 15609: 0.02 VA to 12 V and 0.3 VA to 36 V.
- Operating temperature: -20 °C to 70 °C.
- Degree of protection: IP65 on front face.
- Mounting on front face of monitoring switchboards.

Commercial reference numbers

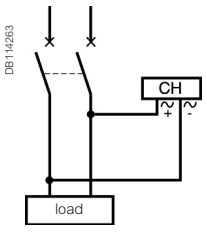
Type	Voltage (V)	Width in mod. of 9 mm	Comm. ref. no.
iCH "DIN"	230 V AC ± 10 %/50 Hz	4	15440
CH "48 x 48"	24 V AC ± 10 %/50 Hz		15607
	230 V AC ± 10 %/50 Hz		15608
	12 to 36 V DC		15609

See your Schneider Electric representative for complete ordering information.

Connection



iCH "DIN".



CH "48 x 48".

See appropriate Installation Guide for this product.

15443

iCI impulse counter

Function

Electromechanical counter designed to count impulses emitted by: kilowatt-hour meters, temperature overrun detectors, people meters, speed meters, etc.

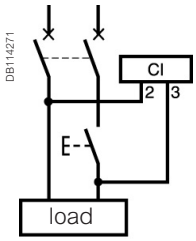
Common technical data

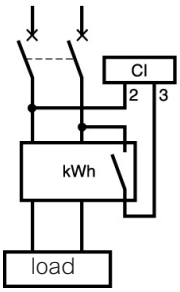
- Supply and metering voltage: 230 V AC ± 10 %, 50/60 Hz
- Consumption: 0.15 VA
- Maximum display: 9 999 999 impulses
- Without reset
- Metering data:
  - minimum impulse time: 50 ms
  - minimum time between 2 impulses: 50 ms
- Storage temperature: -25 °C to 85 °C
- Operating temperature: -10 °C to 70 °C
- Connection: tunnel terminals for 2.5 mm^2 cable

Commecial reference numbers

Type	Width in mod. of 9 mm	Comm. ref. no.
iCI	4	15443

Connection

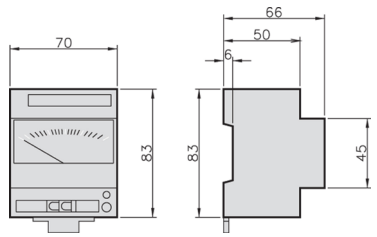




See appropriate Installation Guide for this product.

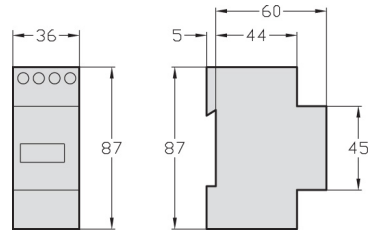
Analog ammeters and voltmeters iAMP, iVLT

DB103473



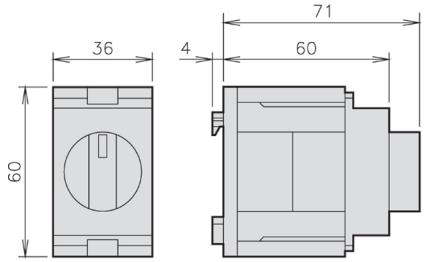
Digital ammeters, voltmeter and frequency meter iAMP, iVLT

DB103474



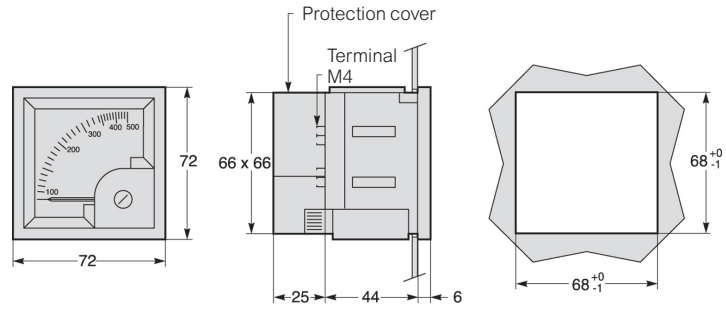
iCMA and iCMV selector switches

DB103475



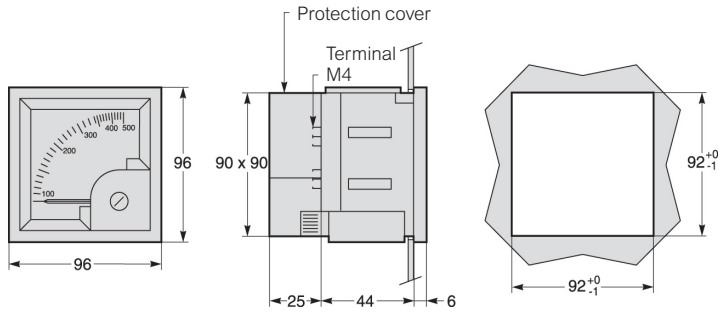
72 x 72 analog ammeters and voltmeter

DB103476



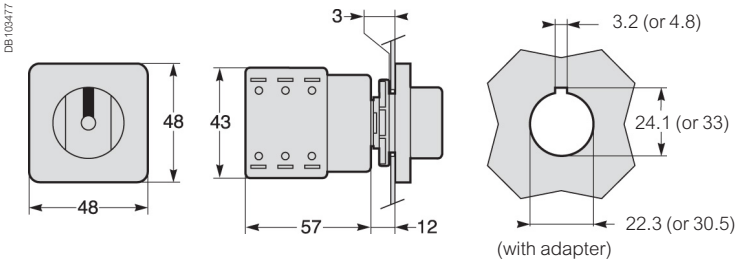
96 x 96 analog ammeters and voltmeter

DB103481

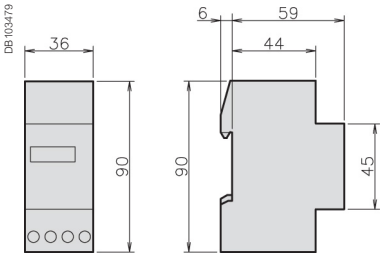


See the appropriate Installation Guide for this product.

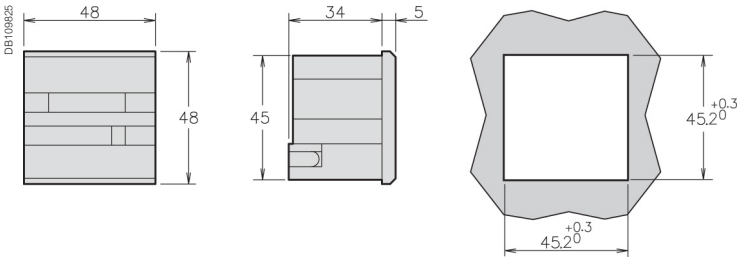
48 x 48 CMA and CMV selector switches



iCI impulse counter and iCH hour counter



48 x 48 CH hour counters



See the appropriate Installation Guide for this product.

Basic energy metering

Basic energy meters comply with a variety of applications: single-phase or three-phase circuits, basic kWh meters for elementary applications, to full-featured, dual tariff energy meters and power metering for network monitoring applications. Data is visible locally or accessible remotely. Wireless communication energy sensors with compact design allow to optimize panel size.

- PowerLogic iEM2000 series
- PowerLogic iEM2100 series
- PowerLogic iEM3000 series
- PowerLogic PM3000 series
- PowerLogic PowerTag Energy series

PB108401 PB115001 PB108410 PB117510 A9MEM1521





A9MEM2000 A9MEM2100 A9MEM3100 A9MEM2000 A9MEM1521

Acti9 iEM2000 Series

The Acti9 iEM2000 series energy meters offer a cost-attractive, competitive range of single-phase DIN rail-mounted energy meters ideal for sub-billing and cost allocation applications.

Applications

- Monitor power consumption for each floor, office sector, or unit
- Allocate energy cost to lower cost of operations, optimise your building's power efficiency
- Connect to power management software to take full advantage of the IoT digital power installation

PB105289

A9MEM2000

The solution for:

All markets that can benefit from a solution that includes PowerLogic iEM2000 series meters:

- Buildings
- Industry
- Data Centre & networks
- Infrastructures (airport, road tunnels, telecom).

Benefits

The Acti9 iEM2000 series meters are economical and easy to install in panelboards and switchboards:

- DIN rail mounted, compact size
- Accurate data measurement with Class 1 accuracy

Advantages

- Active energy Class 1 accuracy, with LCD display
- Modbus RS-485 and pulse output
- Direct connect, self-powered
- MID approved
- Two tariffs

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 62053-21
- EN 50470-3

iEM2000 feature selection

	iEM2000T	iEM2000	iEM2010	iEM2050	iEM2055
Self-powered	■	■	■	■	■
Display		■	■	■ (6 digit LCD)	■ (6 digit LCD)
Width (mm)	18	18	18	17.5	17.5
Current input	40 A	40 A	40 A	45 A	45 A
Multi-tariff				2 tariffs	2 tariffs
Communication				Modbus	Modbus
Active Energy accuracy	Class 1 IEC 62053-21	Class 1 IEC 62053-21 Class B EN 50470-3	Class 1 IEC 62053-21 Class B EN 50470-3	Class 1 IEC 62053-21	Class 1 IEC 62053-21 Class B EN 50470-3
Digital outputs	1 P/O		1 P/O	1 P/O	1 P/O
MID for billing application		■	■		■
Commercial reference number	A9MEM2000T	A9MEM2000	A9MEM2010	A9MEM2050	A9MEM2055

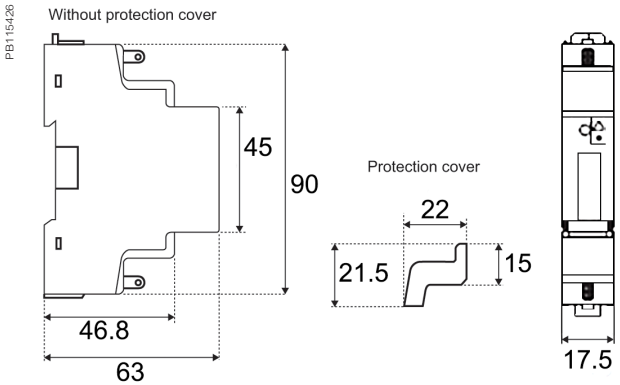
See your Schneider Electric representative for complete ordering information.

iEM2000 series technical specifications

Technical specifications

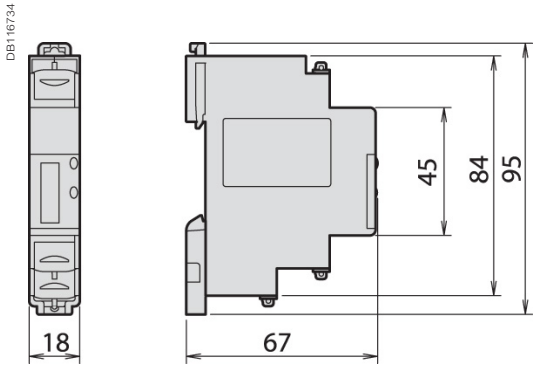
	iEM2000T	iEM2000	iEM2010	iEM2050	iEM2055
COMM reference number	**A9MEM2000T**	**A9MEM2000**	**A9MEM2010**	**A9MEM2050**	**A9MEM2055**
Direct connection	Up to 40 A	Up to 40 A	Up to 40 A	Up to 45 A	Up to 45 A
Pulse output operation	100 pulses/kwh (120ms long)			10000, 2000, 1000, 100, 10, 1, 0.1, 0.01 pulses/kWh	
Display capacity	999999.9 kWh			9999.99 kWh (switching to 99999.9 when over this value)	
Voltage range (L-N)	184 to 276 V AC			195 to 253 V AC	
Operating frequency	50/60 Hz			50 Hz	
Meter constant LED	3200 flashes per KWh			10000 flashes per KWh	
Wiring capacity (Power)	4 mm^2			2.5 mm^2	
Wiring capacity (Communications)	10 mm^2			8-10 mm^2	
Consumption	<10 VA				
IP protection	IP40 front panel and IP20 casing			IP51 front panel	
Temperature	-10°C to 55°C			-25°C to 55°C	
Active energy	■	■	■	■	■
Reactive energy				■	■
Active power				■	■
Reactive power				■	■
Power Factor				■	■
Current and voltage				■	■
Frequency				■	■

iEM2050/iEM2055 dimensions



Maximum diameter power connection clamps 8 mm^2 (solid copper). See the appropriate product Installation Guide for complete instructions.

iEM2000 dimensions



Maximum diameter power connection clamps 8 mm^2 (solid copper). See the appropriate product Installation Guide for complete instructions.

Acti9 iEM2100 Series

The Acti9 iEM2100 series energy meters are ideal for basic kWh metering and billing applications and support two protocols (Modbus and M-bus) that allow them to integrate seamlessly into your customers' existing networks.

Applications

- Monitor the power consumption of each sector, unit, workshop…
- Manage an electrical installation and optimise your building's power efficiency
- Various business, industrial and residential applications

PB118059

A9MEM2100

The solution for

All markets that can benefit from a solution that includes PowerLogic iEM2100 series meters:

- Buildings
- Industry
- Data Centre & networks
- Infrastructures (airport, road tunnels, telecom).

Benefits

The Acti9 iME kilowatt-hour meters are specially economic and easy to install in all switchboards.

Competitive advantages

- Compact size
- MID compliant (selected models) providing certified accuracy and data security
- Four quadrant measurement
- Electrical parameter measurement eg. V, I, P, PF
- Onboard Modbus or M-bus communication
- A complete range of energy meters
- Compatible with Acti9 range

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 62052-11
- IEC 62053-21
- IEC 62053-23
- EN 50470-1
- EN 50470-3

iEM2100 feature selection

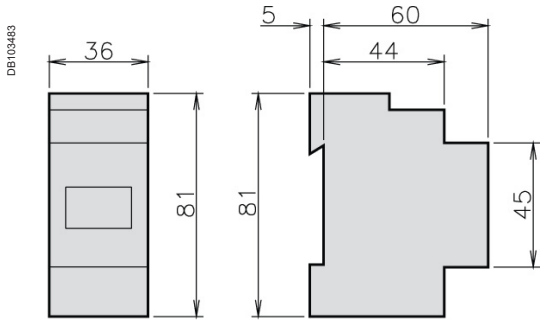
	iEM2100	iEM2105	iEM2110	iEM2135	IEM2150	iEM2155
Self-powered	■	■	■	■	■	■
Display	■	■	■	■	■	■
Width (mm)	36	36	36	36	36	36
Current input	63 A	63 A	63 A	63 A	63 A	63 A
Active Energy accuracy	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy accuracy	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Four quadrant Energy measurement			■	■	■	■
Multi-tariff			2	2		2
Digital inputs			1 (tariff switching)	1 (tariff switching)		1 (tariff switching)
Digital outputs		1 P/O	2 P/O's			
Communication protocol				M-bus	Modbus RS-485	Modbus RS-485
MID for billing application			■	■		■
Commercial reference number	**A9MEM2100**	**A9MEM2105**	**A9MEM2110**	**A9MEM2135**	**A9MEM2150**	**A9MEM2155**

Acti9 iEM2100 series technical specifications

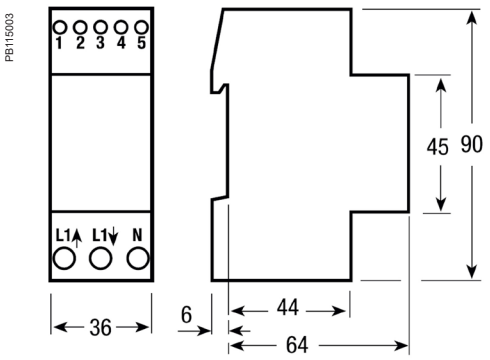
Technical specifications

	iEM2100	iEM2105	iEM2110	iEM2135	IEM2150	iEM2155
Direct connection	63 A	63 A	63 A	63 A	63 A	63 A
Pulse output operation		1 pulse/kwh (200ms long)	1 to 1000 pulses / kwh or kvarh (30 to 100ms long)			
Display capacity	99999 KWh or 999.99 MWh		999999.99KWh			
Voltage range (L-N)	184 to 276 V AC		92 to 276 V AC			
Operating frequency	50/60 Hz					
Meter constant LED	1000 flashes per KWh					
Wiring capacity (Top)	6 mm^2		4 mm^2			
Wiring capacity (Bottom)	32 mm2 (16 mm2 iEM2100/iEM2105)					
Consumption	2.5 VA		3 VA			
IP protection	IP40 front panel and IP20 casing					
Temperature	-25°C to 55°C					
Active energy	■	■	■	■	■	■
Reactive energy			■	■	■	■
Active power			■	■	■	■
Reactive power			■	■	■	■
Power Factor			■	■	■	■
Current and voltage			■	■	■	■
Frequency			■	■	■	■

iEM2100/iEM2105 dimensions



iEM2110/iEM2135/iEM2150/iEM2155 dimensions



See the appropriate product Installation Guide for complete instructions.

iEM2000 and iEM2100 series commercial reference numbers

Comm. reference number	Product
A9MEM2000T	iEM2000T basic energy meter, no display
A9MEM2000	iEM2000 basic energy meter
A9MEM2010	iEM2010 energy meter, kWh pulse output
A9MEM2100	iEM2100 basic energy meter
A9MEM2050	iEM2050 modular single phase power meter 230 V - 45 A with Modbus
A9MEM2055	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID
A9MEM2105	iEM2105 energy meter, kWh pulse output with partial meter
A9MEM2110	iEM2110 energy meter, kWh and kvarh pulse outputs with two tariffs, four quadrant energy measurement, MID certified
A9MEM2135	iEM2135 energy meter, M-Bus communication, four quadrant energy measurement, two tariffs, MID certified
A9MEM2150	iEM2150 energy meter, Modbus communication, four quadrant energy measurement
A9MEM2155	iEM2155 energy meter, Modbus communication, four quadrant energy measurement, two tariffs, MID certified

See your Schneider Electric representative for complete ordering information.

Acti9 iEM3000 Series

The Acti9 iEM3000 series energy meters is a cost-attractive, feature-rich energy metering offer for DIN rail, modular enclosures. With Modbus, BACnet, M-bus and LON protocol support, you can easily integrate these meters into commercial and non-critical buildings to add simple energy management applications to any BMS, AMR or EMS system.

Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use
- Sub-billing individual tenants for their energy consumption, including WAGES
- Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility

Network management applications

- Basic metering of electrical parameters to better understand the behaviour of your electrical distribution system

PB108418

A9MEM3100

More than just kWh meters, the Acti9 iEM3000 series meters provide a full view of both energy consumption and on-site generation with full four-quadrant measurement of active and reactive energy delivered and received. Additionally, extensive real-time measurements (V, I, P, PF) give customers greater detail on their energy usage, and multiple tariffs give customers the flexibility to match the billing structure of their utility.

The solution for

All markets that can benefit from a solution that includes PowerLogic iEM3000 series meters:

- Buildings & industry
- Data centres and networks
- Infrastructure (airports, road tunnels, telecom)

Benefits

Optimise your energy consumption & enable energy efficiency practices

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Use information to implement actions designed to reduce energy consumption

Monitor the energy consumption of your tenants or customers and establish accurate invoices

- Drive energy-efficient behaviour
- Allow building owners to bill tenants for individual measured utility usage
- Give accurate and achievable objectives for energy savings

Competitive advantages

- Compact size
- MID compliant (selected models) providing certified accuracy and data security
- Programmable digital inputs/ouputs
- Multi-tariff capability
- Onboard Modbus, LON, M-bus or BACnet communication
- A complete range of energy meters
- Compatible with Acti9 range

Energy management system:

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated data loggers and gateways for your building energy management.

Conformity of standards

- IEC 61557-12
- IEC 62053-21/22
- IEC 62053-23
- EN 50470-3
- EN 50470-1
- IEC 61036
- IEC 61010

Acti9 iEM3000 Series

iEM3000 feature selection

		iEM3100 iEM3200 iEM3300	iEM3110 iEM3210 iEM3310	iEM3115 iEM3215	iEM3150 iEM3250 iEM3350	iEM3135 iEM3235 iEM3335	iEM3155 iEM3255 iEM3355	iEM3165 iEM3265 iEM3365	iEM3175 iEM3275 iEM3375
Self-powered		■	■	■	■	■	■	■	■
Width (18mm module)		5/5/7	5/5/7	5/5	5/5/7	5/5/7	5/5/7	5/5/7	5/5/7
Direct measurement (up to)		63 A/-/125 A	63 A/-/125 A	63 A/-	63 A/-/125 A	63 A/-/125 A	63 A/-/125 A	63 A/-/125 A	63 A/-/125 A
Measurement input through CTs (1A, 5A)		- / ■ / -	- / ■ / -	- / ■	- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -
Measurement input through VTs					- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -	- / ■ / -
Active Energy measurements class		1/0.5S/1	1/0.5S/1	1/0.5S	1/0.5S/1	1/0.5S/1	1/0.5S/1	1/0.5S/1	1/0.5S/1
Four Quadrant Energy measurement						■	■	■	■
Electrical parameter measurements (I, V, P,...)					■	■	■	■	■
Multi-tariff (internal clock)				4		4	4	4	4
Multi-tariff (external control)				4		2	2	2	2
Measurement display (no. of line)		3	3	3	3	3	3	3	3
Digital inputs	Programmable (Tariff control or WAGES input)					1	1	1	1
	Tariff control only			2					
Digital outputs	Programmable (Kwh pulse or KW overload alarm)					1	1	1	
	Kwh pulse only		1						
Communication protocols	M-bus					■			
	Modbus				■		■		
	BACnet							■	
	Lon								■
MID (legal metrology certification)			■	■		■	■	■	■
Commercial reference numbers		**A9MEM3100**	**A9MEM3110**	**A9MEM3115**	**A9MEM3150**	**A9MEM3135**	**A9MEM3155**	**A9MEM3165**	**A9MEM3175**
		A9MEM3200	**A9MEM3210**	**A9MEM3215**	**A9MEM3250**	**A9MEM3235**	**A9MEM3255**	**A9MEM3265**	**A9MEM3275**
		A9MEM3300	**A9MEM3310**		**A9MEM3350**	**A9MEM3335**	**A9MEM3355**	**A9MEM3365**	**A9MEM3375**

See your Schneider Electric representative for complete ordering information.

How to read table: If a cell contains a single value, that value applies to all meter models identified in the header cell(s). For cells with multiple values, the values correspond from left to right with the meter models listed from top to bottom for each associated header cell. For example, a cell with "A / B / C" means A for iEM31xx models, B for iEM32xx models, and C for iEM33xx models

Acti9 iEM3000 Series

EM3400/iEM3500 technical specifications

	iEM3455	iEM3465	iEM33555	iEM3565
Max current	0.333V-1.0V LVCTs	0.333V-1.0V LVCTs	Rogowski coils	Rogowski coils
Meter constant LED	5000/kWh			
Pulse output frequency	Up to 500p/kWh			
Multi-tariff	4 tariffs			
Communication	Modbus	BACnet	Modbus	BACnet
DI/DO	1/1			
Network	1P+N, 3P, 3P+N support LVCTs, Rogowski coils, and VTs			
Wiring capacity	6 mm² for currents and 4 mm² for voltages			
Display max	LCD 99999999.9kWh or 99999999.9MWh			
Voltage (L-L)	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)			
IP protection	IP40 front panel and IP20 casing			
Temperature	-25°C to 70°C (K55)			
Product size	5 steps of 18 mm			
Overvoltage & measurement	Category III, Degree of pollution 2			
kWh	■			
kVARh	■			
Active power	■			
Reactive power	■			
Currents & voltages	■			
Overload alarm	■			
Hour counter	■			

See your Schneider Electric representative for complete ordering information.

Acti9 iEM3100/iEM3300 series technical specifications

Technical specifications

	iEM3100 iEM3300	iEM3110 iEM3310	iEM3115	iEM3150 iEM3350	iEM3135 iEM3335	iEM3155 iEM3355	iEM3165 iEM3365	iEM3175 iEM3375
Max current (direct connection)	63 A for iEM3100 models, 125 A for iEM3300 models							
Meter constant LED	500/kWh							
Pulse output		Up to 1000 p/kWh			Up to 1000 p/kWh	Up to 1000 p/kWh		
Multi-tariff			4 tariffs		4 tariffs	4 tariffs		
Communication				Modbus	Modbus	Modbus	BACnet	LON
DI/DO		0/1	2/0		1/1	1/1	1/1	1/0
MID (EN50470-3)		■			■	■	■	■
Network	1P+N, 3P, 3P+N							
Accuracy class	Class 1 (IEC 62053-21 and IEC 61557-12) Class B (EN 50470-3)							
Wiring capacity	16 mm² for iEM3100 models, 50 mm² for iEM3300 models							
Display max.	LCD 99999999.9kWh							
Voltage (L-L)	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)							
IP protection	IP40 front panel and IP20 casing							
Temperature	-25°C to 55°C (K55)							
Product size	5 x 18 mm for iEM3100 models, 7 x 18 mm for iEM3300 models							
Overvoltage and measurement	Category III, Degree of pollution 2							
kWh	■	■	■	■	■	■	■	■
kVARh					■	■	■	■
Active power				■	■	■	■	■
Reactive power					■	■	■	■
Currents and voltages				■	■	■	■	■
Overload alarm					■	■	■	■
Hour counter					■	■	■	■

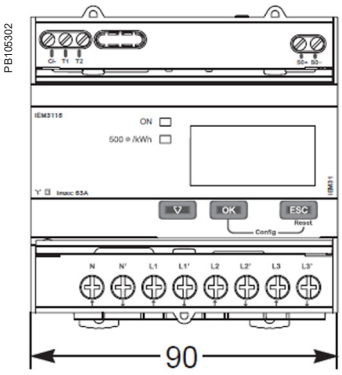
Acti9 IEM3200 series technical specifications

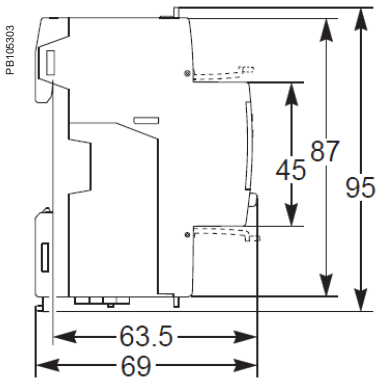
Technical specifications

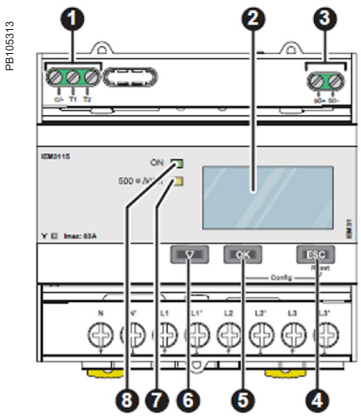
	iEM3200	iEM3210	iEM3215	iEM3250	iEM3235	iEM3255	iEM3265	iEM3275
Max current (1A/5A CT connected)	6 A							
Meter constant LED	5000/kWh							
Pulse output frequency		Up to 500p/kWh			Up to 500p/kWh	Up to 500p/kWh		
Multi-tariff			4 tariff		4 tariffs	4 tariffs		
Communication				Modbus	Modbus	Modbus	BACnet	LON
DI/DO		0/1	2/0		1/1	1/1	1/1	1/0
MID (EN50470-3)(1)		■	■		■	■	■	■
Network	1P+N, 3P, 3P+N support CTs			1P+N, 3P, 3P+N support CTs &VTs				
Accuracy class	Class 0.5S (IEC 62053-22 and IEC61557-12) Class C (EN50470-3)(1)							
Wiring capacity	6 mm² for currents and 4 mm² for voltages							
Display max.	LCD 99999999.9kWh or 99999999.9MWh							
Voltage (L-L)	3 x 100/173 V AC to 3 x 277/480 V AC (50/60 Hz)							
IP protection	IP40 front panel and IP20 casing							
Temperature	-25°C to 55°C (K55)							
Product size	5 steps of 18 mm							
Overvoltage & measurement	Category III, Degree of pollution 2							
kWh	■	■	■	■	■	■	■	■
kVARh					■	■	■	■
Active power				■	■	■	■	■
Reactive power					■	■	■	■
Currents and voltages				■	■	■	■	■
Overload alarm					■	■	■	■
Hour counter					■	■	■	■

(1) If used for MID purposes, iEM32xx must use CT secondary set to 5 A.

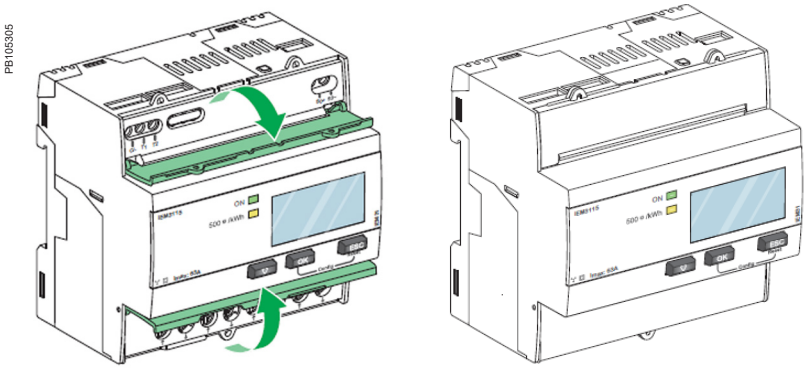
iEM3000/iEM3200 series dimensions





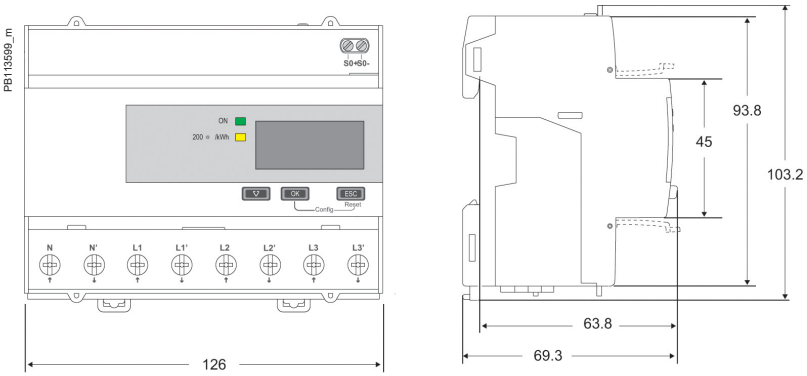


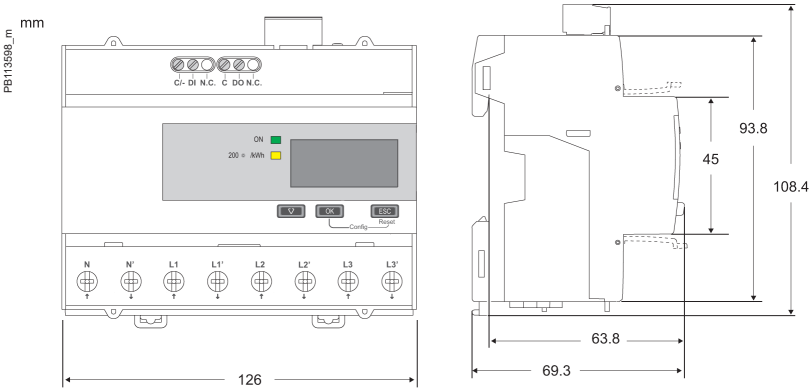
Acti9 iEM3100/iEM3200 Series front flaps open and closed

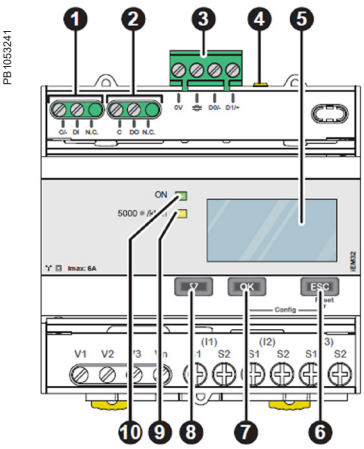


Acti9 iEM3000 Series parts
1. Digital inputs for tariff control (iEM3115 / iEM3215)
2. Display for measurement and configuration
3. Pulse out for remote transfer (iEM3110 / iEM3210)
4. ESC Cancellation
5. OK Confirmation
6. ▽ Selection
7. Flashing yellow meter indicator to check accuracy
8. Green indicator: on/off, error

iEM3300 series dimensions







Acti9 iEM3000 Series parts
1. Digital inputs for tariff control (iEM3115 / iEM3215)
2. Display for measurement and configuration
3. Pulse out for remote transfer (iEM3110 / iEM3210)
4. ESC Cancellation
5. OK Confirmation
6. ▽ Selection
7. Flashing yellow meter indicator to check accuracy
8. Green indicator: on/off, error

*Please see the appropriate **Installation Guide** for accurate and complete information on the installation of this product.*

PM3000 series

The PowerLogic PM3000 series power meters are a cost-attractive, feature-rich range of DIN rail-mounted power meters that offers all the measurement capabilities required to monitor an electrical installation.

Ideal for power metering and network monitoring applications that seek to improve the availability and reliability of your electrical distribution system, the meters are also fully capable of supporting sub-metering and cost allocation applications.

Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use
- Aggregation of energy consumption, including WAGES, and cost allocation per area, per usage, per shift or per time within the same facility
- Energy cost and usage analysis per zone, per usage or per time period to optimise energy usage

Network management applications

- Metering of electrical parameters to better understand the behaviour of your electrical distribution system

PB108447

METSEPM3250

The solution for

All markets that can benefit from a solution that includes PowerLogic PM3000 series meters:

- Buildings
- Industry
- Data centres and networks
- Infrastructure (e.g. airports, road tunnels, telecom)

Benefits

Optimise your energy consumption & enable energy efficiency practices

- Collect and analyse energy consumption data from each area for each type of load or circuit
- Gain an accurate understanding of business expenses by allocating the energy-related costs
- Identify savings opportunities
- Use information to implement actions designed to reduce energy consumption

Competitive advantages

Connectivity advantages

- Programmable digital input
  - External tariff control signal (4 tariff)
  - Remote reset partial counter
  - External status like breaker status
  - Collect WAGES pulses
- Programmable digital output
  - Alarm (PM3255)
  - KWh pulses
- Graphic LCD display
- Modbus RS-485 with screw terminals
  Multi-tariff capability
  The PM3000 series allows users to arrange KWh consumption in four different registers. This can be controlled by:
- Digital inputs. Signal can be provided by PLC or utilities
- Internal clock programmable by HMI
- Through communication

This function allows users to:

- Make tenant metering for dual source applications to differentiate backup source or utility source
- Understand well the consumption during peak time and off-peak time, weekdays and weekends, holiday and working days etc.
- Follow up feeders consumption in line with utility tariff rates

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

- IEC 61557-12
- IEC 61326-1
- IEC 62052-11
- IEC 62053-21
- IEC 62053-22
- IEC 62053-23
- EN 50470-1
- EN 50470-3
- IEC 61010-1
- EN 55022

PM3000 series

PM3000 series feature selection				
	PM3200	PM3210	PM3250	PM3255
Performance standard				
IEC61557-12 PMD/Sx/K55/0.5	■	■	■	■
General				
Use on LV and HV systems	■	■	■	■
Number of samples per cycle	32	32	32	32
CT input 1A/5A	■	■	■	■
VT input	■	■	■	■
Multi-tariff	4	4	4	4
Multi-lingual backlit display	■	■	■	■
Instantaneous rms values				
Current, voltage Per phase and average	■	■	■	■
Active, reactive, apparent power Total and per phase	■	■	■	■
Power factor Total and per phase	■	■	■	■
Energy values				
Active, reactive and apparent energy; import and export	■	■	■	■
Demand value				
Current, power (active, reactive, apparent) demand; present	■	■	■	■
Current, power (active, reactive, apparent) demand; peak		■	■	■
Power quality measurements				
THD Current and voltage		■	■	■
Data recording				
Min/max of the instantaneous values	■	■	■	■
Power demand logs				■
Energy consumption log (day, week, month)				■
Alarms with timestamping		5	5	15
Digital inputs/digital outputs		0/1		2/2
Communication				
RS-485 port			■	■
Modbus protocol			■	■
Commercial reference number	**METSEPM3200**	**METSEPM3210**	**METSEPM3250**	**METSEPM3255**

See your Schneider Electric representative for complete ordering information.

PM3000 series

PM3000 technical specifications	
Type of measurement	True rms up to the 15th harmonic on three-phase (3P,3P+N) and single-phase AC systems. 32 samples per cycle
Measurement accuracy	
Current with x/5A CTs	0.3 % from 0.5 A to 6 A
Current with x/1A CTs	0.5 % from 0.1 A to 1.2 A
Voltage	0.3 % from 50 V to 330 V (Ph-N), from 80 V to 570 V (Ph-Ph)
Power factor	±0.005 from 0.5 A to 6 A with x/5 A CTs; from 0.1A to 1.2 A with x/1 A CTs and from 0.5 L to 0.8 C
Active/Apparent Power with x/5A CTs	Class 0.5
Active/Apparent Power with x/1A CTs	Class 1
Reactive power	Class 2
Frequency	0.05 % from 45 to 65 Hz
Active energy with x/5A CTs	IEC 62053-22 Class 0.5s
Active energy with x/1A CTs	IEC 62053-21 Class 1
Reactive energy	IEC 62053-23 Class 2
Data update rate	
Update rate	1s
Input-voltage characteristics	
Measured voltage	50 V to 330 V AC (direct / VT secondary Ph-N) 80 V to 570 V AC (direct / VT secondary Ph-Ph) up to 1 MV AC (with external VT)
Frequency range	45 Hz to 65 Hz
Input-current characteristics	
CT primary	Adjustable from 1 A to 32767 A
CT secondary	1 A or 5 A
Measurement input range with x/5A CTs	0.05 A to 6 A
Measurement input range with x/1A CTs	0.02 A to 1.2 A
Permissible overload	10 A continuous, 20 A for 10s/hour
Control Power	
AC	100/173 to 277/480 V AC (+/-20%), 3 W/5 VA; 45 Hz to 65 Hz
DC	100 to 300 V DC, 3 W
Input	
Digital inputs (PM3255)	11 to 40 V DC, 24 V DC nominal, <=4mA maximum burden, 3.5kVrms insulation
Output	
Digital output (PM3210)	Optocoupler, polarity sensitive, 5 to 30 V, 15 mA max, 3.5kVrms insulation
Digital outputs (PM3255)	Solid state relay, polarity insensitive, 5 to 40 V, 50 mA max, 50 Ω max, 3.5kVrms insulation

PM3000 series

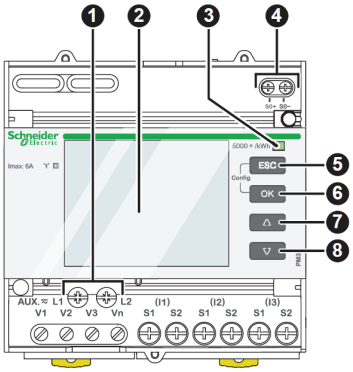
PM3000 technical specifications

Mechanical characteristics	
Weight	0.26 kg
IP degree of protection (IEC 60529)	IP40 front panel, IP20 meter body
Dimension	90 x 95 x 70 mm
Environmental conditions	
Operating temperature	-25 °C to 55 °C
Storage temperature	-40 °C to 85 °C
Humidity rating	5 to 95% RH at 50 °C (non-condensing)
Pollution degree	2
Metering category	III, for distribution systems up to 277/480 V AC
Dielectric withstand	As per IEC61010-1, Doubled insulated front panel display
Altitude	3000 m max
Electromagnetic compatibility	
Electrostatic discharge	Level IV (IEC 61000-4-2)
Immunity to radiated fields	Level III (IEC 61000-4-3)
Immunity to fast transients	Level IV (IEC 61000-4-4)
Immunity to surge	Level IV (IEC 61000-4-5)
Conducted immunity	Level III (IEC 61000-4-6)
Immunity to power frequency magnetic fields	0.5mT (IEC 61000-4-8)
Conducted and radiated emissions	Class B (EN 55022)
Safety	
	CE as per IEC 61010-1★
Communication	
RS-485 port	Half duplex, from 9600 up to 38400 baud, Modbus RTU (double insulation)
Display characteristics	
Dimensions (VA)	43 mm x 34.6 mm
Display resolution	128 x 96 dots
Standard compliance	
	IEC 61557-12, EN 61557-12 IEC 61010-1, UL 61010-1 IEC 62052-11, IEC 62053-21, IEC 62053-22, IEC 62053-23 EN 50470-1, EN 50470-3

★ *Protected throughout by double insulation*

PM3200 series front of meter

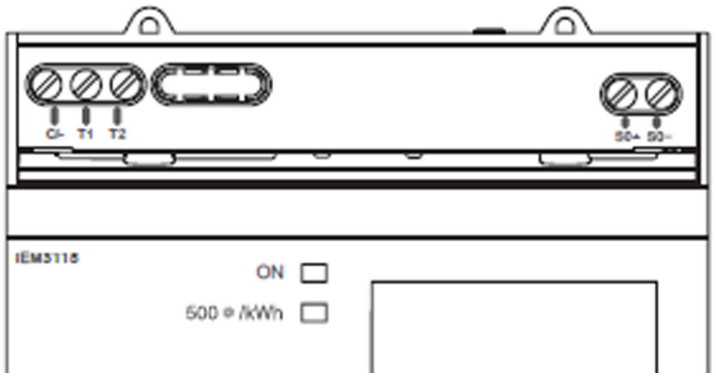
PB105440



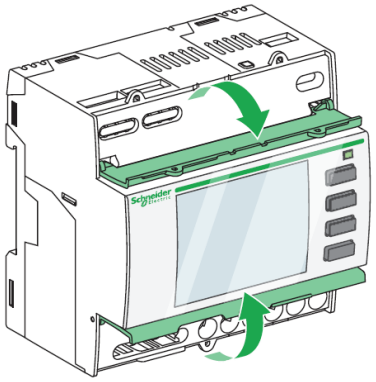
Front of meter parts
1 Control power
2 Display with white backlight
3 Flashing yellow meter indicator (to check accuracy)
4 Pulse output for remote transfer (PM3210)
5 ESC Cancellation
6 OK Confirmation
7 Up
8 Down

PM3200 series dimensions

PB105302



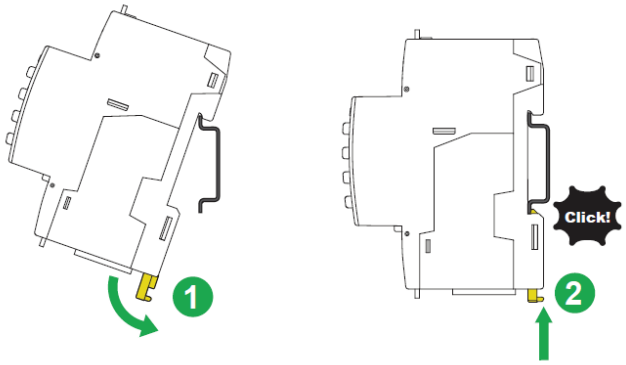
PB105447



PM3200 top and lower flaps

PM3200 series easy installation

PB105446



*Please see the appropriate **Installation Guide** for accurate and complete information on the installation of this product.*

PowerLogic™ PowerTag Energy series

PowerTag Energy is a wireless-communication energy sensor

PowerTag Energy is designed specifically for Energy Management, Load Monitoring and Power Availability applications. Associated to a concentrator or a gateway, PowerTag Energy provides a full wireless class 1 solution to monitor energy at any level of a distribution panel.

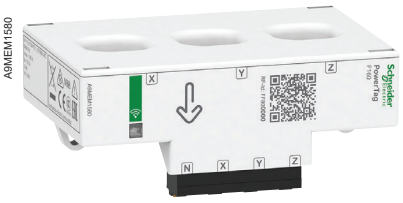
Applications:

- Monitors your electrical installation from main incomer down to load level
- Suitable for various businesses, buildings, industrial and residential applications with easy integration in upper systems
- Supports and enables Energy Efficiency programs and standards such as:
  - European Energy Efficiency Directive (EED)
  - Energy Performance of Buildings Directive (EPBD)
  - IEC 60364-8-1 “Low Voltage Electrical installations - Energy Efficiency”
  - EN 17267 “Energy Measurement and Monitoring plan”
  - ISO 50001 “Energy Management System”

PowerTag Energy Flex 63 A (F63)

PowerTag Energy PhaseNeutral 63 A (P63)

PowerTag Energy Monoconnect 250 A (M250)



PowerTag Energy Flex 160 A (F160)

PowerTag Energy Monoconnect 63 A (M63)

PowerTag Energy Rope 2000 A (R2000)

PowerTag Energy

The solution for

Markets that benefit from a solution that includes PowerLogic PowerTag Energy series:

- Residential
- Small business
- Medium & large buildings
- Industrial sites

Benefits

PowerTag Energy sensor incorporates all features required to perform accurate real-time measurements (U, V, I, P, PF) and energy values up to 2000 A.

Different designs of PowerTag Energy are available to ensure it fits the protective device on which it is mounted.

- PowerTag Energy Monoconnect (M): can be mounted directly on the device, no additional wiring is required
- PowerTag Energy PhaseNeutral (P): for DIN offers with 9 mm pitch between phase and neutral
- PowerTag Energy Flex (F): can be mounted on a wide range of protective devices thanks to its design
- PowerTag Energy Rope (R) thanks to its openable current sensors can be easily installed on busbars or wires in new installations and in retrofit applications

PowerTag Energy sensor is acting as an autonomous meter. Energy counters are stored inside PowerTag Energy sensor.

Energy management system

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated gateways / concentrators depending on your application.

Advantages

- Wireless-communication
- Range up to 2000 A
- Voltage loss alarming
- Class 1 accuracy
- Compact design
- Easy installation and commissioning
- Scalable solution
- Perfect for retrofit or new panels

Conformity of standards

- IEC 61557-12
- IEC 61010-1
- IEC 61010-2-030
- IEC 61326-1
- ETSI EN 300 328

Feature selection

					
	A9MEM15••	A9MEM15••	A9MEM15••	A9MEM1580	LV434020/LV434021
Product name	M63	P63	F63	F160	M250
Max current (I Max) A	63	63	63	160	250
Starting current (Ist)	40 mA	40 mA	40 mA	100 mA	160 mA
Design	Monoconnect	PhaseNeutral	Flex	Flex	Monoconnect
Mounting type	On device	On device	On wires	On wires	On device
Current sensors type	Solid core	Solid core	Solid core	Solid core	Solid core
Poles	1P + W / 1P+N / 3P / 3P+N	1P+N / 3P+N	1P+N / 3P / 3P+N	3P / 3P+N	3P / 3P+N
Self-powered	☑	☑	☑	☑	☑
Voltage (L-N)	Depends on ref	200 - 240 V AC	Depends on ref	100 - 277 V AC	230 V AC
Measurements*					
Nb quadrant	2	2	2	4	4
Active Energy	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy				☑	☑
Apparent Energy				☑	
Active Power	☑	☑	☑	☑	☑
Reactive Power				☑	☑
Apparent Power	☑	☑	☑	☑	☑
Power Factor	☑	☑	☑	☑	☑
Frequency				☑	☑
Current and Voltage	☑	☑	☑	☑	☑

* Data availability depending on the concentrator / gateway

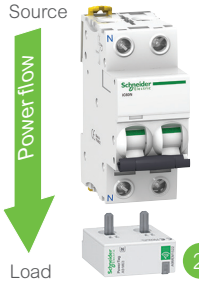
					
	LV434022/LV434023	A9MEM1590	A9MEM1591	A9MEM1592	A9MEM1593
Product name	M630	R200	R600	R1000	R2000
Max current (I Max) A	630	200	600	1000	2000
Starting current (Ist)	400 mA	120 mA	400 mA	600 mA	1.2 A
Design	Monoconnect	Rope	Rope	Rope	Rope
Mounting type	On device	On wires	On wires	On wires	On wires
Current sensors type	Solid core	Split core	Split core	Split core	Split core
Poles	3P / 3P+N	3P / 3P+N	3P / 3P+N	3P / 3P+N	3P / 3P+N
Self-powered	☑	☑	☑	☑	☑
Voltage (L-N)	230 V AC	100 - 277 V AC	100 - 277 V AC	100 - 277 V AC	100 - 277 V AC
Measurements*					
Nb quadrant	4	4	4	4	4
Active Energy	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy	☑	☑	☑	☑	☑
Apparent Energy		☑	☑	☑	☑
Active Power	☑	☑	☑	☑	☑
Reactive Power	☑	☑	☑	☑	☑
Apparent Power	☑	☑	☑	☑	☑
Power Factor	☑	☑	☑	☑	☑
Frequency	☑	☑	☑	☑	☑
Current and Voltage	☑	☑	☑	☑	☑

* Data availability depending on the concentrator / gateway

Connection possibilities

1 PowerTag Energy Connected Upstream (U and I)

- When breaker is OFF, PowerTag Energy remains energized.



- When breaker is OFF, PowerTag Energy is de-energized. PowerTag Energy sends Voltage loss alarm before complete stop.

2 PowerTag Energy Connected Downstream (U and I)

3 PowerTag Energy Connected Downstream (U and I)

- When breaker is OFF, PowerTag Energy is de-energized. PowerTag Energy sends Voltage loss alarm before complete stop.

- When breaker is OFF, PowerTag Energy remains energized.

4 PowerTag Energy Connected Upstream (U and I)

Note:

- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.
- Some PowerTag Energy can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.

Connection (Voltage and Current)		Features
Upstream	1 4	• Energy management: consumption in kWh • Load monitoring: real-time measurements
Downstream Preferred installation to take full benefit of voltage loss alarming in diagnosing the load	2 3	• Energy management: consumption in kWh • Load monitoring: real-time measurements • Power availability: voltage loss alarming

Main associated concentrators / gateways (*)

For Commercial & Building applications		
PowerTag Link	PowerTag Link HD	Smartlink SI B
		
A9XMWD20 (1)	**A9XMWD100**	**A9XMZA08**

(1) Replace Smartlink SI D (A9XMWA20)

For Small Business applications	For Residential applications	For Industrial applications
PowerTag Link C PowerTag Link C+	Wiser IP Module Wiser IP Module+	Harmony Hub
		
A9XELC10	**EER31800**	**ZBRN1, ZBRN2, ZBRN32**

(*) Refer to Selection Guide for complete compatibility pages 95 to 102.
Refer to the concentrator catalogs for more information (CA907030, CA907032, CA907035).

PowerLogic™ PowerTag Energy 63 A

IEC 61557-12 PMD-I/DD/K55/1

As per the above standard:

With its compact design and innovative concept, PowerTag Energy 63 A fits directly on the protective device and as a result has no impact on DIN rail occupancy and switchboard size.
It is therefore well adapted to be mounted from head of group down to final circuits.
Since voltage and current are measured directly at the same point on the circuit to be monitored, it provides accurate measurement and relevant information such as voltage loss.
PowerTag Energy is compatible with SE product ranges as per the selection guide CA908058.

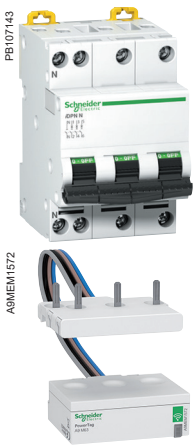
Main characteristics

PowerTag Energy measures the following values in accordance with the IEC 61557-12 standard PMD-I/DD/K55/1:

- Energy:
  - Active energy (kWh): total and partial, delivered and received.
- Real-time measurement values:
  - Voltages (V): phase-to-phase and phase-to-neutral.
  - Currents (A): per phase.
  - Power:
    - Active power (W): total and per phase.
    - Apparent power (VA): total.
  - Power factor.
- Voltage loss alarms:
  - PowerTag Energy sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
  - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.

PowerTag Energy
Monoconnect 63 A (M63)



PowerTag Energy
PhaseNeutral 63 A (P63)

PowerTag Energy
Flex 63 A (F63)

Product selection

Neutral position

Some references of PowerTag Energy 63 A (Monoconnect and PhaseNeutral) exist in Top or Bottom version.
This is linked to the position of the neutral of the PowerTag Energy.

PowerTag Energy "Top"

- Designed to be mounted on the Top of the circuit breaker.

- Designed to be mounted on the Bottom of the circuit breaker.

PowerTag Energy "Bottom"

Note:
- Some PowerTag Energy can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.
- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.

Number of poles

Choose the PowerTag Energy according to the number of poles of the protective device: one PowerTag Energy per protective device.

Ex.: 3 Pole PowerTag Energy 63 A for a 3 pole CB.

PowerLogic™ PowerTag Energy 63 A

Technical specifications

Main characteristics				
Rated voltage	1P+N / 1P+W	Un	Phase-to-neutral	200… 240 V AC ± 20 %
	3P	Un	Phase-to-phase	380… 415 V AC ± 20 %
	3P+N	Un	Phase-to-neutral	220… 240 V AC ± 20 %
			Phase-to-phase	380… 415 V AC ± 20 %
	A9MEM1543	Un	Phase-to-phase	200… 240 V AC ± 20 %
	A9MEM1564	Un	Phase-to-neutral	100… 127 V AC ± 20 %
	A9MEM1574	Un	Phase-to-neutral	120… 137 V AC ± 20 %
			Phase-to-phase	208… 240 V AC ± 20 %
Frequency				50/60 Hz
Maximum current		Imax		63 A
Basic current		Ib		10 A
Saturation current				130 A
Maximum consumption			1P+N	≤ 1 VA
			3P/3P+N	≤ 2 VA
Starting current		Ist		40 mA
Additional characteristics				
Operating temperature				-25°C to +60°C
Storage temperature				-40°C to +85°C
Overvoltage category			As per IEC 61010-1	Cat. III
Measuring category			As per IEC 61010-2-030	Cat. III
Pollution degree				3
Altitude				≤ 2000 m
Degree of protection			Device only	IP20
			IK	05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels			As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power			Equivalent (EIRP)	0 dBm
Maximum transmission time				< 5 ms
Channel occupancy			Messages sent every	5 seconds minimum
Characteristics of measuring functions				
Function		Symbol	Performance category as per IEC 61557-12 (PMD-I/DD/K55/1)	Measuring range
			Class	
Active power		P	1	9 W to 63 kW
Active energy		Ea	1	Total and partial 0 to 99999999.9 kWh
Current		I	1	40 mA to 63 A
Voltage		U	0.5	Un ± 20 %
Power factor		PFA	1	0 to 1

PowerLogic™ PowerTag Energy 63 A


A9MEM1520


A9MEM1521


A9MEM1540


A9MEM1522


A9MEM1543


A9MEM1541


A9MEM1542

PowerTag Energy Monoconnect 63 A Commercial reference numbers

PowerTag Energy for Acti9 and Multi9 **Monoconnect** offers: «Single-terminal» circuit breakers, RCDs and switches with **18 mm pitch between phase and neutral**, rating less than or equal to 63 A.

Commercial reference number	Type	Mounting	Description
A9MEM1520	1P+wire	Top or bottom	PowerTag Energy M63 1PW
A9MEM1521	1P+N	Top	PowerTag Energy M63 1PN T
A9MEM1522		Bottom	PowerTag Energy M63 1PN B
A9MEM1540	3P	Top or bottom	PowerTag Energy M63 3P
A9MEM1543 (1)			PowerTag Energy M63 3P 230V LL
A9MEM1541	3P+N	Top	PowerTag Energy M63 3PN T
A9MEM1542		Bottom	PowerTag Energy M63 3PN B

Designed to fit the following devices: iC60, Reflex iC60, DT60, iID.
For additional information and the list of Schneider Electric compatible devices and Concentrators/Gateways, refer to the Selection Guide pages 95 to 102.

(1) Not compatible with Acti9 Smartlink SI D (A9XMWA20) and Acti9 Smartlink SI B (A9XMZA08)


A9MEM1561


A9MEM1562


A9MEM1563


A9MEM1571


A9MEM1572

PowerTag Energy PhaseNeutral 63 A Commercial reference numbers

PowerTag Energy for Acti9 and Multi9 **PhaseNeutral** offers: «Single-terminal» circuit breakers, RCDs and switches at **pitch of 9 mm between phase and neutral**, rating less than or equal to 63 A.

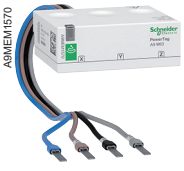
Commercial reference number	Type	Mounting	Description
A9MEM1561	1P+N	Top	PowerTag Energy P63 1PN T
A9MEM1562	1P+N	Bottom	PowerTag Energy P63 1PN B
A9MEM1563	1P+N RCBO	Bottom	PowerTag Energy P63 1PN B RCBO 18mm
A9MEM1571	3P+N	Top	PowerTag Energy P63 3PN T
A9MEM1572	3P+N	Bottom	PowerTag Energy P63 3PN B

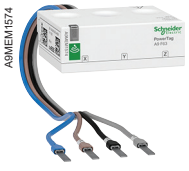
Designed to fit the following devices: DT40, iDPN, C40, i DPN Vigi.
For additional information and the list of Schneider Electric compatible devices and Concentrators/Gateways, refer to the Selection Guide pages 95 to 102.


A9MEM1560


A9MEM1564


A9MEM1573


A9MEM1570


A9MEM1574

PowerTag Energy Flex 63 A Commercial reference numbers

PowerTag Energy **Flex** for other devices and specific installations, rating less than or equal to 63 A.

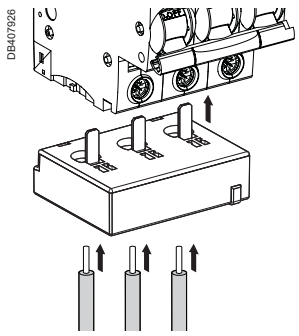
Commercial reference number	Type	Mounting	Description
A9MEM1560	1P+N	Top or bottom	PowerTag Energy F63 1PN
A9MEM1564 (2)	1P+N	Top or bottom	PowerTag Energy F63 1PN 110V
A9MEM1573 (2)	3P	Top or bottom	PowerTag Energy F63 3P
A9MEM1570	3P+N	Top or bottom	PowerTag Energy F63 3PN
A9MEM1574 (2)	3P+N	Top or bottom	PowerTag Energy F63 3PN 127/220V

Designed to fit the following devices: Vigi iDT40, Vigi iC40, Vigi iC60, iC60 double terminal, iID double terminal.
For additional information and the list of Schneider Electric compatible devices and concentrators/gateways, refer to the Selection Guide pages 95 to 102.

(2) Not compatible with Acti9 PowerTag Link C (A9XELC10), Smartlink SI D (A9XMWA20) and Smartlink SI B (A9XMZA08)

Contact your Schneider Electric representative for complete ordering information.

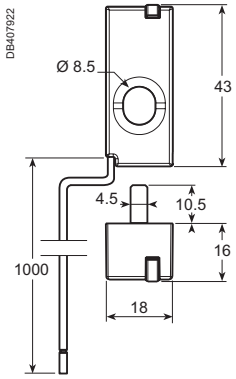
PowerTag Energy Monoconnect 63 A connection



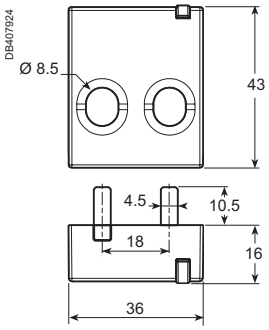
Stripping length	Copper cables					
	Rigid		Flexible		Flexible with ferrule	
						
18 mm	1.5 to 16 mm^2 AWG: 16...6	2 x 1.5 to 2.5 mm^2 AWG: 16...14	1.5 to 16 mm^2 AWG: 16...6	2 x 1.5 to 2.5 mm^2 AWG: 16...14	1.5 to 16 mm^2 AWG: 16...6	2 x 1.5 to 2.5 mm^2 AWG: 16...14

Mounting with 18 mm ferrule recommended.

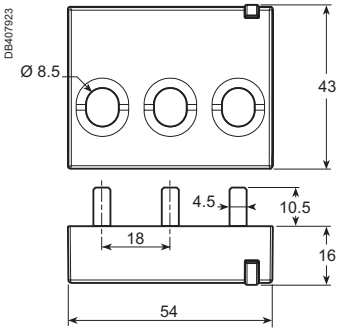
PowerTag Energy Monoconnect 63 A dimensions (mm)



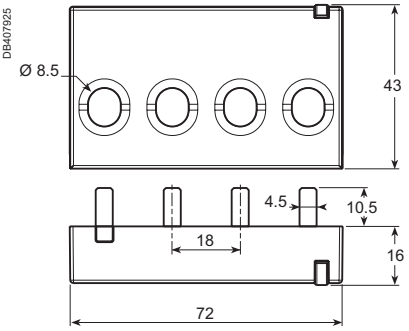
1P+wire



1P+N



3P



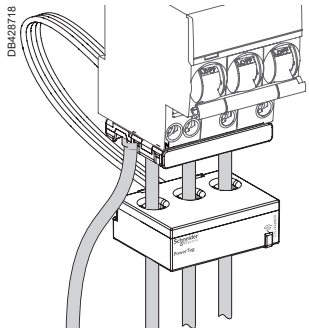
3P+N

PowerTag Energy Monoconnect 63 A weight

Type	Weight (g)
1P+wire	16.4
1P+N	17.5
3P	28
3P+N	35

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.

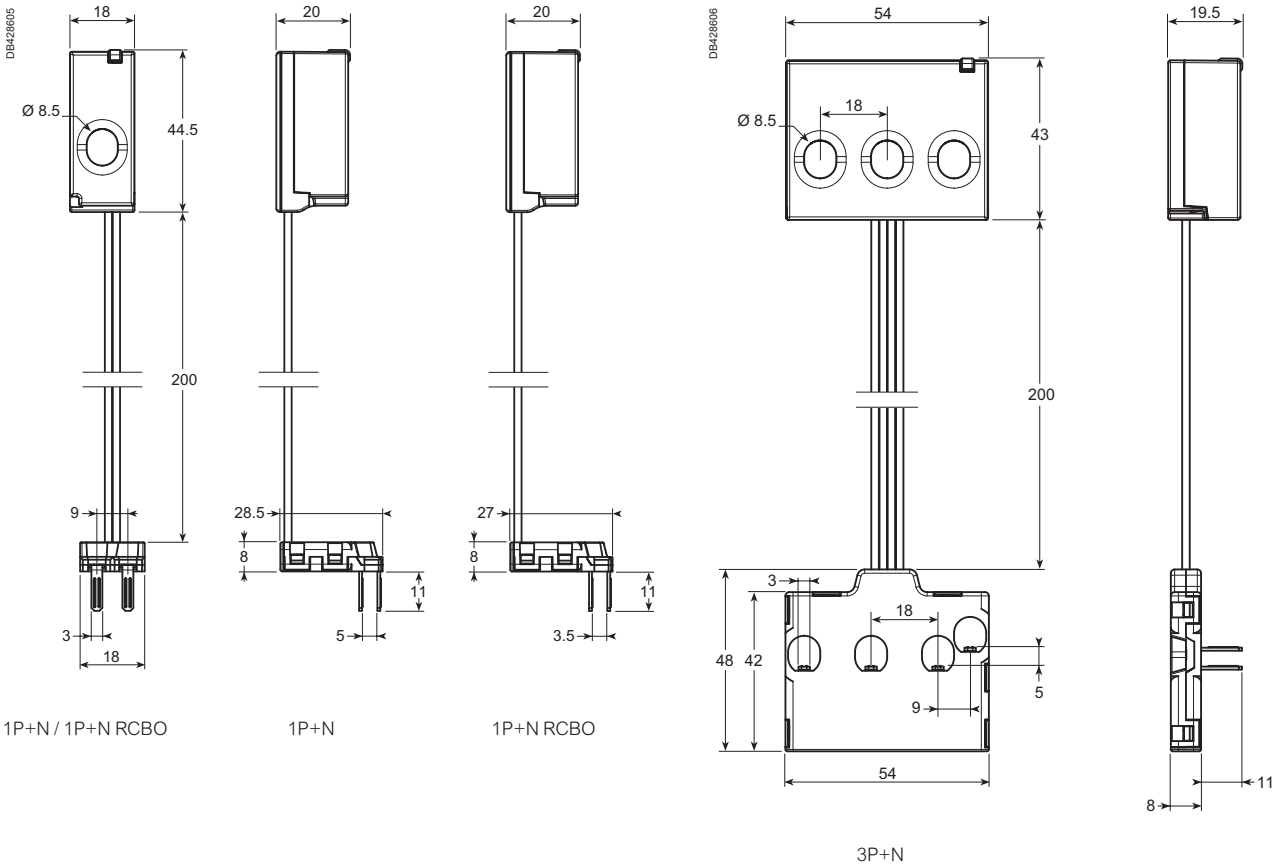
PowerTag Energy PhaseNeutral 63 A connection



Copper cables					
Rigid		Flexible		Flexible with ferrule	
					
1.5 to 16 mm² AWG: 16...6	2 x 1.5 to 2.5 mm² AWG: 16...14	1.5 to 16 mm² AWG: 16...6	2 x 1.5 to 2.5 mm² AWG: 16...14	1.5 to 16 mm² AWG: 16...6	2 x 1.5 to 2.5 mm² AWG: 16...14

Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy PhaseNeutral 63 A dimensions (mm)



1P+N / 1P+N RCBO

1P+N

1P+N RCBO

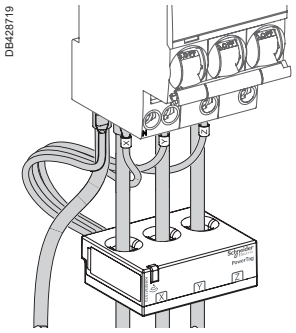
3P+N

PowerTag Energy PhaseNeutral 63 A weight

Type	Weight (g)
1P+N	18
3P+N	48

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.

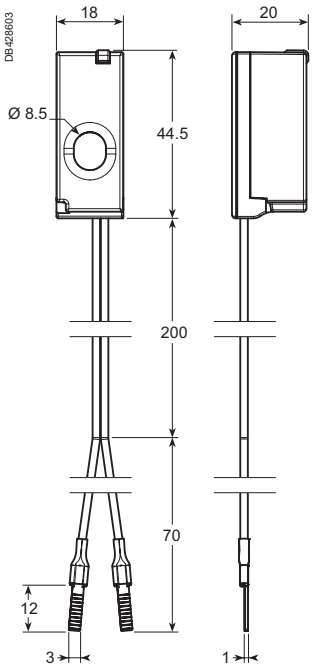
PowerTag Energy Flex 63 A connection



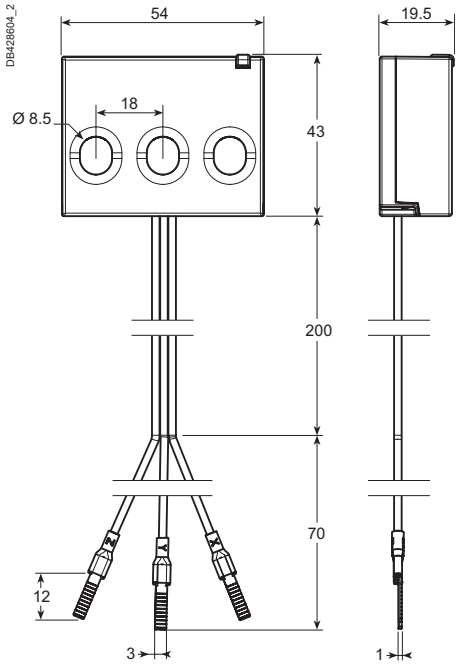
Copper cables					
Rigid		Flexible		Flexible with ferrule	
					
1.5 to 16 mm² AWG: 16...6	2 x 1.5 to 2.5 mm² AWG: 16...14	1.5 to 16 mm² AWG: 16...6	2 x 1.5 to 2.5 mm² AWG: 16...14	1.5 to 16 mm² AWG: 16...6	2 x 1.5 to 2.5 mm² AWG: 16...14

Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

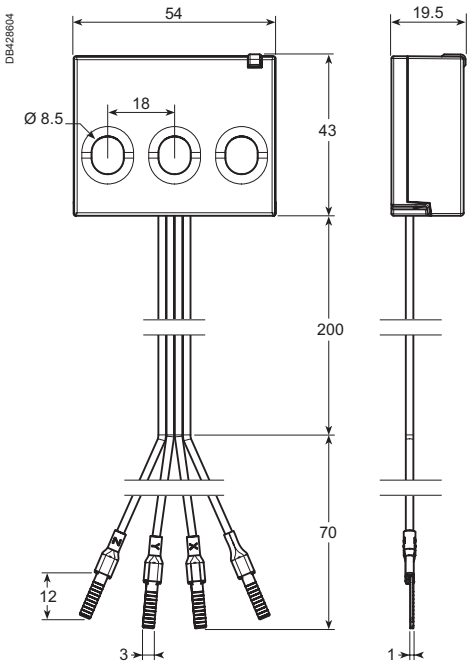
PowerTag Energy Flex 63 A dimensions (mm)



1P+N



3P



3P+N

PowerTag Energy Flex 63 A weight

Type	Weight (g)
1P+N	16
3P	38
3P+N	40

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy 63 A Resi9

IEC 61557-12 PMD-I/DD/K55/1

As per the above standard:

With its compact design and innovative concept, PowerTag Energy 63 A Resi9 fits directly on the Resi9 protective device and as a result has no impact on DIN rail occupancy and switchboard size.
It is therefore well adapted to be mounted from head of group down to final circuits.
Since voltage and current are measured directly at the same point on the circuit to be monitored, it provides accurate measurement and relevant information such as voltage loss.

PowerTag Energy 63 A Resi9 is dedicated to the Resi9 range of devices and compatible with the concentrator/gateway Wiser IP Module.

Main characteristics

PowerTag Energy measures the following values in accordance with the IEC 61557-12 standard PMD-I/DD/K55/1:

- Energy:
  - Active energy (kWh): total and partial, delivered and received.
- Voltage loss alarms:
  - PowerTag Energy sends a “voltage loss” alarm before being de-energized.
  - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

PowerTag Energy
Monoconnect 63 A (M63)

PowerTag Energy
Monoconnect 63 A (M63)

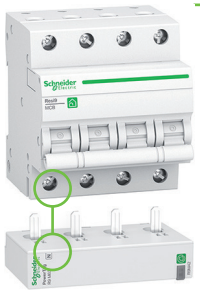
PowerLogic™ PowerTag Energy 63 A Resi9

Installation

Some references of PowerTag Energy 63 A Resi9 (Monoconnect) exist in Top or Bottom version. This is linked to the position of the neutral of the PowerTag Energy.

PowerTag Energy "Top"

- Designed to be mounted on the Top of the circuit breaker.



- Designed to be mounted on the Bottom of the circuit breaker.

PowerTag Energy "Bottom"

Note:

- Some PowerTag Energy 63 A Resi9 can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.
- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.

Number of poles

Choose the PowerTag Energy according to the number of poles of the protective device: one PowerTag Energy per protective device.

Ex.: 3 pole PowerTag Energy 63 A Resi9 for a 3 pole CB.

PowerLogic™ PowerTag Energy 63 A Resi9

Technical specifications

Main characteristics				
Rated voltage	1P+N / 1P+W	Un	Phase-to-neutral	200… 240 V AC ± 20 %
	3P	Un	Phase-to-phase	380… 415 V AC ± 20 %
	3P+N	Un	Phase-to-neutral	220… 240 V AC ± 20 %
			Phase-to-phase	380… 415 V AC ± 20 %
	R9M43	Un	Phase-to-phase	200… 240 V AC ± 20 %
Frequency				50/60 Hz
Maximum current		Imax		63 A
Basic current		Ib		10 A
Saturation current				130 A
Maximum consumption			1P+N	≤ 1 VA
			3P/3P+N	≤ 2 VA
Starting current		Ist		40 mA
Additional characteristics				
Operating temperature				-25°C to +60°C
Storage temperature				-40°C to +85°C
Overvoltage category			As per IEC 61010-1	Cat. III
Measuring category			As per IEC 61010-2-030	Cat. III
Pollution degree				3
Altitude				≤ 2000 m
Degree of protection			Device only	IP20
			IK	05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels			As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power			Equivalent (EIRP)	0 dBm
Maximum transmission time				< 5 ms
Channel occupancy			Messages sent every	5 seconds minimum
Characteristics of measuring functions				
Function		Symbol	Performance category as per IEC 61557-12 (PMD-I/DD/K55/1)	Measuring range
			Class	
Active energy (delivered and received)		Ea	1	Total and partial 0 to 99999999.9 kWh
Current		I	1	40 mA to 63 A
Voltage		U	0.5	Un ± 20 %

PowerLogic™ PowerTag Energy 63 A Resi9


R9M20


R9M21


R9M40


R9M22


R9M43


R9M41


R9M42

PowerTag Energy Monoconnect 63 A Resi9 Commercial reference numbers

PowerTag Energy for Resi9 **Monoconnect** offers: «Single-terminal» circuit breakers, RCDs and switches with **18 mm pitch between phase and neutral**, rating less than or equal to 63 A.

Commercial reference number	Type	Mounting	Description
R9M20	1P+wire	Top or bottom	PowerTag Energy R9 M63 1PW
R9M21	1P+N	Top	PowerTag Energy R9 M63 1PN T
R9M22		Bottom	PowerTag Energy R9 M63 1PN B
R9M40	3P	Top or bottom	PowerTag Energy R9 M63 3P
R9M43			PowerTag Energy R9 M63 3P 230V LL
R9M41	3P+N	Top	PowerTag Energy R9 M63 3PN T
R9M42		Bottom	PowerTag Energy R9 M63 3PN B

Refer to the Resi9 catalog in your country to select the right PowerTag Energy model to fit on the Resi9 protective device you want to equipped.


R9M60


R9M70

PowerTag Energy Flex 63 A Resi9 Commercial reference numbers

PowerTag Energy **Flex** for other Resi9 devices and specific installations, rating less than or equal to 63 A.

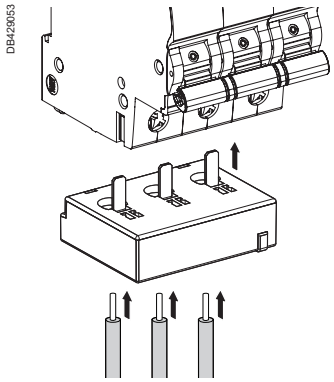
Commercial reference number	Type	Mounting	Description
R9M60	1P+N	Top or bottom	PowerTag Energy R9 F63 1PN
R9M70	3P+N	Top or bottom	PowerTag Energy R9 F63 3PN

Refer to the Resi9 catalog in your country to select the right PowerTag Energy model to fit on the Resi9 protective device you want to equipped.

To allow PowerTag Energy Resi9 F63 to adapt to different types of terminals, the voltage tap lugs can be replaced with other end-pieces or lugs for AWG22/0.33 mm2 wires.

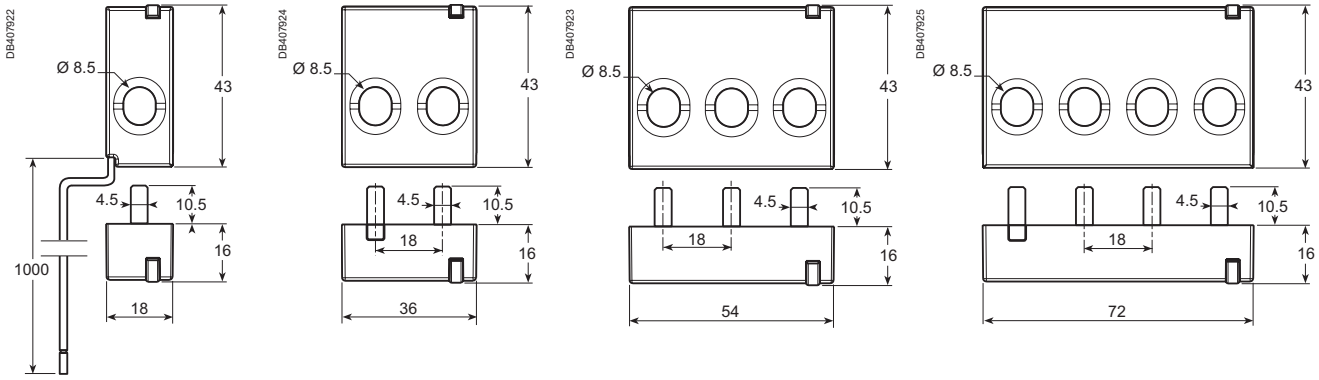
PowerLogic™ PowerTag Energy 63 A Resi9

PowerTag Energy R9 M63 connection



Stripping length : 18 mm

PowerTag Energy R9 M63 dimensions (mm)



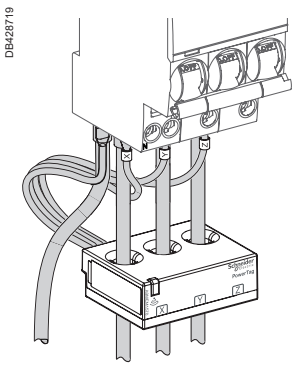
1P+wire 1P+N 3P 3P+N

PowerTag Energy R9 M63 weight

Type	Weight (g)
1P+wire	16.4
1P+N	17.5
3P	28
3P+N	35

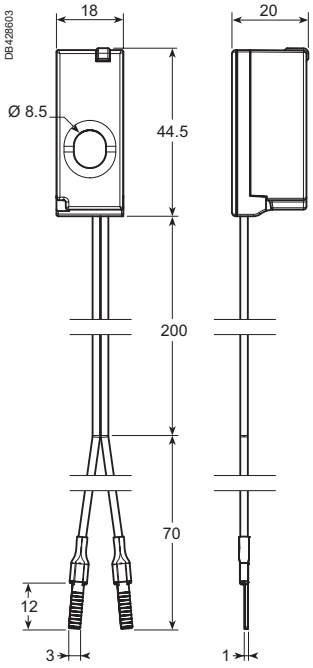
PowerLogic™ PowerTag Energy 63 A Resi9

PowerTag Energy R9 F63 connection

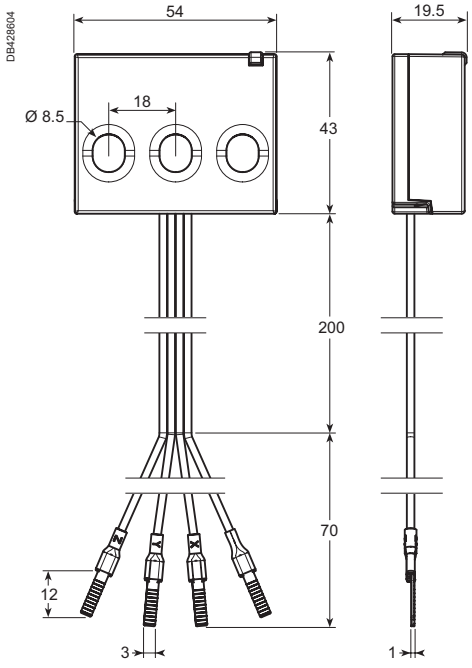


Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy R9 F63 dimensions (mm)



1P+N



3P+N

PowerTag Energy R9 F63 weight

Type	Weight (g)
1P+N	16
3P	40

Please refer to PowerTag Energy 63 A Resi9 Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy Flex 160 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

With its flex design this PowerTag Energy can be used on many products or group of loads up to 160 A on 3P or 3P+N networks. Its removable spring connector for voltage picking facilitates its installation, and shapes for brackets allows to mount and maintain it where needed in a panel.

Main characteristics

PowerTag Energy Flex 160 A measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
  - Active energy (kWh): total and partial, delivered and received.
  - Active energy per phase (kWh): total and partial, delivered and received.
  - Reactive energy (kVARh): total and partial, delivered and received.
  - Reactive energy per phase (kVARh): total and partial, delivered and received.
  - Apparent energy (kVAh): total and partial.
  - Apparent energy per phase (kVAh): total and partial.
- Real-time measurement values:
  - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
  - Currents (A): per phase (I1, I2, I3), calculated neutral current when connected (IN) .
  - Power:
    - Active power (W): total and per phase.
    - Reactive power (VAR): total and per phase.
    - Apparent power (VA): total and per phase.
  - Frequency (Hz).
  - Power factor: total and per phase.
- Voltage loss alarms:
  - PowerTag Energy Flex sensor sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
  - At “voltage loss”, PowerTag Energy Flex adds an overload alarm if the current is higher than the rated current of the associated protective device

Note: Functions listed above depends on Concentrator/Gateway.

PowerTag Energy Flex 160 A

PowerLogic™ PowerTag Energy Flex 160 A

Installation

PowerTag Energy Flex 160 A can be installed in a panel directly on cables or busbars, associated to a product or not. Voltage pickings removable spring terminal has to be wired by 1 copper wire per phase with following characteristics:

Wire range

Solid	Stranded	Stranded with terminal ends
0.2...1.5 mm²	0.2...2.5 mm²	0.25...1.5 mm²
24...16 AWG	24...14 AWG	24...16 AWG

Neutral picking shall be connected to have phase-to-neutral voltages, energy per phase and power per phase provided.

PowerTag Energy Flex 160 A is mainly advised for ComPact NSXm, ComPact INS160, Acti9 NG125, Acti9 C120, PowerPact B, TeSys GV4, and all other devices with a rating between 63 A and 160 A.

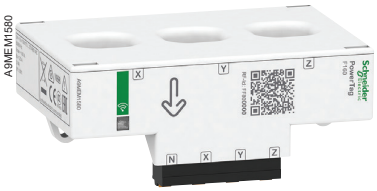
PowerLogic™ PowerTag Energy Flex 160 A

Technical specifications

Main characteristics (as per IEC 61557-12)				
Rated voltage	Un	Phase-to-neutral		100...277 V AC ± 20 %
		Phase-to-phase		173...480 V AC ± 20 %
Frequency				50/60 Hz
Maximum current	Imax			160 A
Maximum operating current				1.2 x Imax
Saturation current				2 x Imax
Maximum consumption				3 VA
Starting current	Ist			100 mA
Basic current	Ib			25 A
Additional characteristic				
Operating temperature				-25 °C to +70 °C
Storage temperature				-40 °C to +85 °C
Overvoltage category		As per IEC 61010-1		Cat. IV
Measuring category		As per IEC 61010-2-030		Cat. IV
Pollution degree				3
Altitude				Up to 2000 m without derating (1)
Degree of protection device				IP20
				IK05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4		11 to 26
Isotropic Radiated Power		Equivalent (EIRP)		0 dBm
Maximum transmission time				< 5 ms
Channel occupancy		For 1 device		messages sent every 5 seconds
Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)		Measuring range
		Class	Measuring range	
Total active power (Active power per phase)	P	1	2.5 to 160 A	24 W (8 W) to 192 kW
Total reactive power (Reactive power per phase)	Q_A	2		30 VAR (10 VAR) to 192 kVAR
Total apparent power (Apparent power per phase)	S_A	2		38 VA (13 VA) to 192 kVA
Active Energy: per phase, total, partial, delivered and received	E_a	1		0 to 281.10^9 kWh
Reactive energy: per phase, total, partial, delivered and received	E_{rA}	2		0 to 281.10^9 kVARh
Apparent energy: per phase, total, partial	E_{apA}	2		0 to 281.10^9 kVAh
Frequency	f	0.5	50 / 60 Hz ± 2 %	45 to 65 Hz
Phase current	I	1	5 to 160 A	100 mA to 320 A
Neutral current	I_{NC}	2		
Voltages (Line to Line)	U	0.5	Un ± 20 %	138 to 576 V AC
Power factor (per phase, total)	PF_A	1	From 0.5 inductive to 0.8 capacitive	-1 to 1

(1) Above 2000 m, please consult Schneider Electric.

PowerLogic™ PowerTag Energy Flex 160 A



A9MEM1580

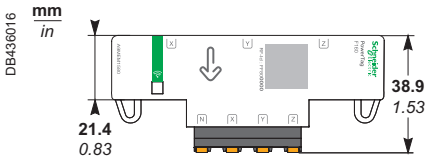
PowerTag Energy Flex 160 A
Commercial reference numbers

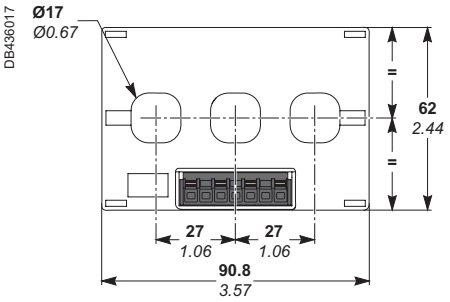
Commercial reference number	Type	Description
A9MEM1580	F160 3P/3P+N	PowerTag Energy Flex 160 A 3P / 3P+N

For the list of Schneider Electric compatible devices and concentrators, refer to the Selection Guide pages 95 to 102.

Contact your Schneider Electric representative for complete ordering information.

PowerTag Energy Flex 160 A dimensions





PowerTag Energy Flex 160 A weight

Type	Weight (g)
F160 3P/3P+N	100

Please refer to PowerTag Energy Flex 160 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

PowerTag Energy M250/M630 is designed for Molded Case Circuit Breakers and Switches (ComPact and TeSys) for 3P and 3P+N electrical networks. This PowerTag Energy is mounted directly on the bottom side of the circuit breaker or the Vigi add-on if any. Thanks to its integrated design, it does not require any specific wiring, and is compatible with the same connection accessories than the device it is mounted on.

Main characteristics

PowerTag Energy M250/M630 measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
  - Active energy (kWh): total and partial, delivered and received.
  - Active energy per phase (kWh): total.
  - Reactive energy (kVARh): partial, delivered and received.
- Real-time measurement values:
  - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
  - Currents (A): per phase (I1, I2, I3).
  - Power:
    - Active power (W): total and per phase.
    - Reactive power (VAR): total.
    - Apparent power (VA): total.
  - Frequency (Hz).
  - Power factor.
- Voltage loss alarms:
  - PowerTag Energy sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
  - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.

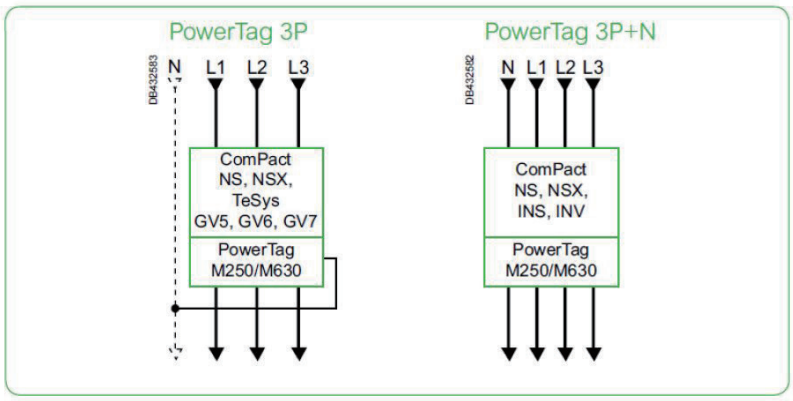
PowerTag Energy Monoconnect 250 A

PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

Installation

The module is self-powered and is installed for fixed devices directly on the bottom side of the circuit breaker or Vigi add-on terminals. For plug-in devices, it has to be installed on the base itself, top or bottom.

PowerTag Energy M250/M630 3P has to be used with 3P devices, and an external neutral voltage tap is provided in case of the installation has a neutral to provide phase-to-neutral voltages, active energy per phase and power per phase.
PowerTag Energy M250/M630 3P+N has to be used with 4P devices and with ComPact INS/INV switches.



PowerTag M250/M630 modules are compatible with ComPact NSX100/160/250, ComPact NSX400/630, ComPact INS250-100A to 250A, ComPact INS320/400/500/630, ComPact INV100/160/200/250, ComPact INV320/400/500/630, ComPact NS100/160/250, ComPact NS400/630, TeSys GV5, TeSys GV6 and TeSys GV7.

In case of retrofit, following points have to been checked:

- Clearance to be able to add PowerTag Energy module and to respect bending radius of cables.
- Condition of power connectors: to be replaced if damaged.
- Tightening torques depending of the connector used.

PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

Technical specifications

Main characteristics				
Rated voltage	Un	Phase-to-neutral		230 VAC ± 20 %
		Phase-to-phase		400 VAC ± 20 %
Frequency				50/60 Hz
Maximum current	Imax			250 A / 630 A
Maximum operating current				1.2 x Imax
Saturation current				2 x Imax
Maximum consumption				3.7 VA
Starting current	Ist			160 mA / 400 mA
Basic current	Ib			40 A / 100 A
Additional characteristic				
Operating temperature				-25 °C to +70 °C
Storage temperature				-50 °C to +85 °C
Overvoltage category		As per IEC 61010-1		Cat. IV
Measuring category		As per IEC 61010-2-030		Cat. III
Pollution degree				3
Altitude				Up to 2000 m without derating (1)
Degree of protection device				IP20
				IK07
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4		11 to 26
Isotropic Radiated Power		Equivalent (EIRP)		0 dBm
Maximum transmission time				< 5 ms
Channel occupancy		For 1 device		messages sent every 5 seconds
Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)		Measuring range (250 A / 630 A)
		Class	Measuring range (250 A / 630 A)	
Total active power (Active power per phase)	P	1	4 to 250 A / 10 to 630 A	88 W (29 W) to 416 kW / 222 W (74 W) to 1048 kW
Total reactive power	Q_A	2		88 VAR to 416 kVAR / 221 VAR to 1048 kVAR
Total apparent power	S_A	2		88 VA to 416 kVA / 221 VA to 1048 kVA
Active Energy: per phase, total, partial	E_a	1		0 to 281.10^9 kWh
Partial Reactive Energy	E_{rA}	2		0 to 281.10^9 kVARh
Frequency	f	1	45 to 55 Hz	45 to 65 Hz
Phase current	I	1	8 to 250 A / 20 to 630 A	160 mA to 500 A / 400 mA to 1260 A
Voltages (Line to Line)	U	0.5	Un ± 20 %	320 to 480 VAC
Power factor	PF_A	1	From 0.5 inductive to 0.8 capacitive	-1 to 1

(1) Above 2000 m, please consult us.

PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

LV434020

LV434021

LV434022

LV434023

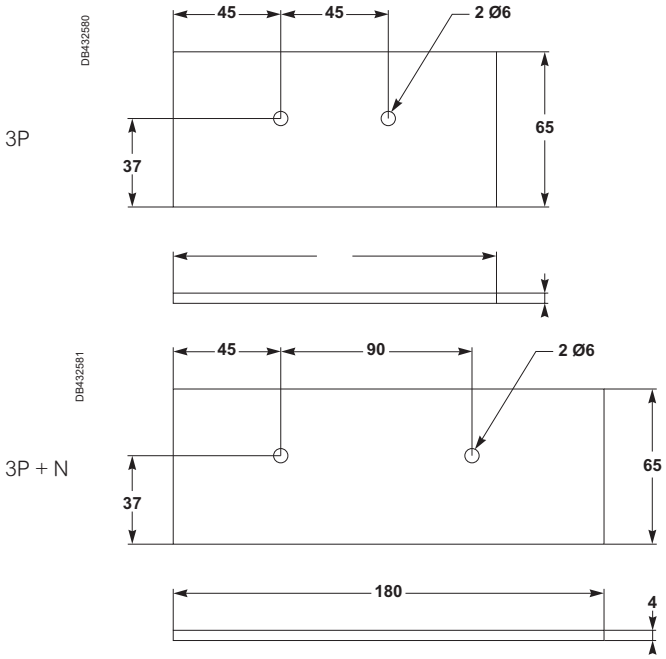
PowerTag Energy Monoconnect 250 A & 630 A Commercial reference numbers

Commercial reference number	Type	Description	Connection adapter for mounting on plug-in base only
LV434020	M250 3P	PowerTag Energy 250 A 3P	**LV429306**
LV434021	M250 3P+N	PowerTag Energy 250 A 3P+N	**LV429307**
LV434022 (1)	M630 3P	PowerTag Energy 630 A 3P	**LV432584**
LV434023 (1)	M630 3P+N	PowerTag Energy 630 A 3P+N	**LV432585**

For the list of Schneider Electric compatible devices and concentrators, refer to the Selection Guide pages 95 to 102.

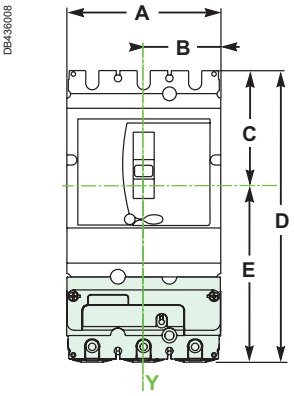
Contact your Schneider Electric representative for complete ordering information.

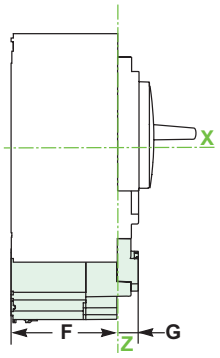
(1) For plug-in devices only: when plate mounted, need to add an intercalary wedging plate under the PowerTag Energy module with following dimensions:

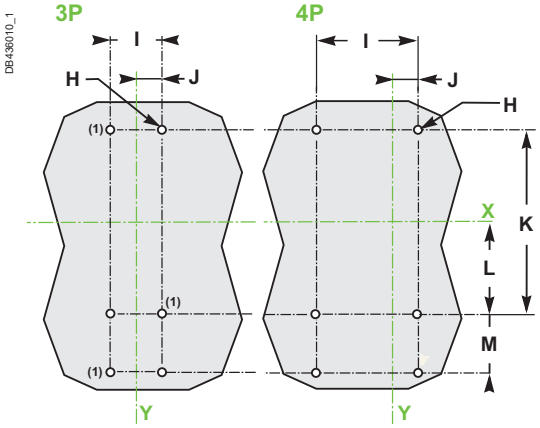


PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

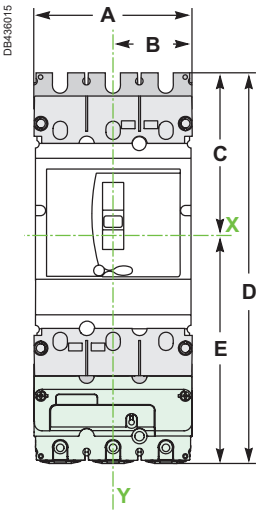
NSX100-250 / NSX400-630

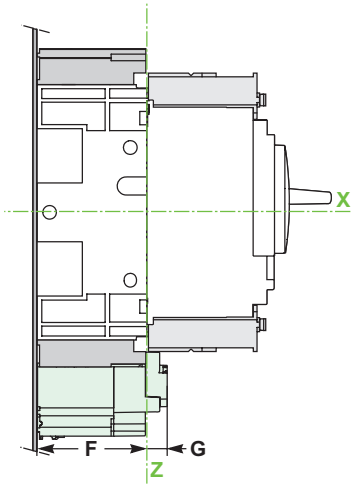


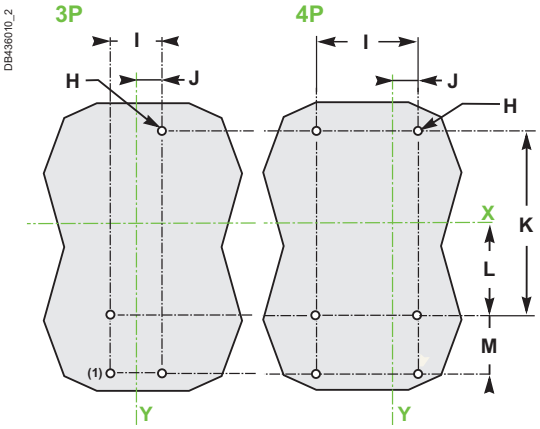




(1) Only for PowerTag M630







(1) Only for PowerTag M630

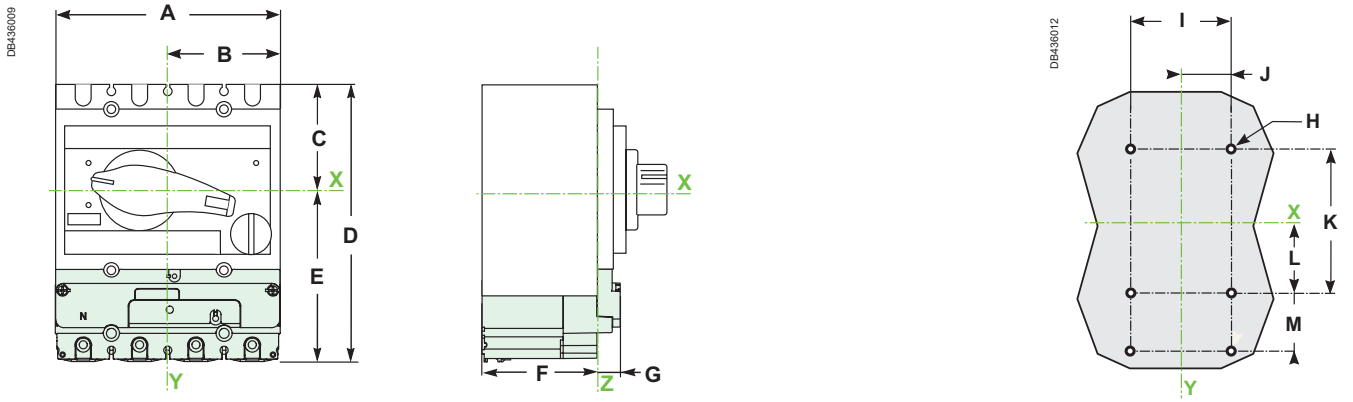
mm in	A		B	C	D	E	F	G	H		I		J		K	L	M
	3P	4P							3P	4P	3P	4P	3P	4P			
NSX100-250	105 4.13	140 5.51	52.5 2.06	80.5 3.17	201 7.91	120.5 4.74	72 2.83	14 0.55	3 Ø6 3 Ø0.23	6 Ø6 6 Ø0.23	35 1.34	70 2.75	17. 5 0.68	17. 5 0.68	125 4.92	62.5 2.46	40 1.57
NSX400-630	140 5.51	185 7.28	70 2.75	127.5 5.02	320 12.59	192.5 7.57	96 3.78	14 0.55	6 Ø6 6 Ø0.23	6 Ø6 6 Ø0.23	45 1.77	90 3.5	22.5 0.88	22.5 0.88	200 7.87	100 3.93	65 2.56
NSX100-250 with plug-in base	105 4.13	140 5.51	52.5 2.06	109 4.29	260 10.23	151 5.94	72 2.83	14 0.55	3 Ø6 3 Ø0.23	6 Ø6 6 Ø0.23	35 1.34	70 2.75	17. 5 0.68	17. 5 0.68	155 6.10	77.5 3.05	55 2.16
NSX400-630 with plug-in base	140 5.51	185 7.28	70 2.75	153 6.02	406 15.98	253 9.96	100 3.93	14 0.55	4 Ø06 4 Ø0.23	6 Ø6 6 Ø0.23	45 1.77	90 3.5	22.5 0.88	22.5 0.88	250 9.84	125 4.92	83 3.26

Please refer to PowerTag Energy 250 A & 630 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

INS250 / INV100-250

INS320-630 / INV320-630



mm in	A	B	C	D	E	F	G	H	I	J	K	L	M
INS250 **INV100-250**	140 5.51	70 2.75	68 2.67	176 6.93	108 4.25	72 2.83	14 0.55	6 Ø6 6 Ø0.23	70 2.75	35 1.37	100 3.93	50 1.96	40 1.57
INS320-630 **INV320-630**	185 7.28	92.5 3.64	102.5 4.03	270 10.62	167.5 6.59	96 3.78	14 0.55	6 Ø6 6 Ø0.23	90 3.5	45 1.77	150 5.9	75 2.95	65 2.56

PowerTag Energy Monoconnect 250 A & 630 A weight

Type	Weight (g)
M250 3P	250
M250 3P+N	300
M630 3P	800
M630 3P+N	1000

Please refer to PowerTag Energy 250 A & 630 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

With its flexible and openable current sensors, this PowerTag Energy Rope can be installed easily on busbars and cables without having to disconnect the conductors, and is suitable for 3P or 3P+N networks. Its removable spring connector for voltage picking facilitates its installation, and the module can be mounted on a DIN rail or maintained with brackets where needed in a panel.

Main characteristics

PowerTag Energy Rope measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
  - Active energy (kWh): total and partial, delivered and received.
  - Active energy per phase (kWh): total and partial, delivered and received.
  - Reactive energy (kVARh): total and partial, delivered and received.
  - Reactive energy per phase (kVARh): total and partial, delivered and received.
  - Apparent energy (kVAh): total and partial.
  - Apparent energy per phase (kVAh): total and partial.
- Real-time measurement values:
  - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
  - Currents (A): per phase (I1, I2, I3), calculated neutral current when connected (IN).
  - Power:
    - Active power (W): total and per phase.
    - Reactive power (VAR): total and per phase.
    - Apparent power (VA): total and per phase.
  - Frequency (Hz).
  - Power factor: total and per phase.
- Voltage loss alarms:
  - PowerTag Energy Rope sensor sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
  - At “voltage loss”, PowerTag Energy Rope adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.

PowerTag Energy Rope

PowerLogic™ PowerTag Energy Rope

Installation

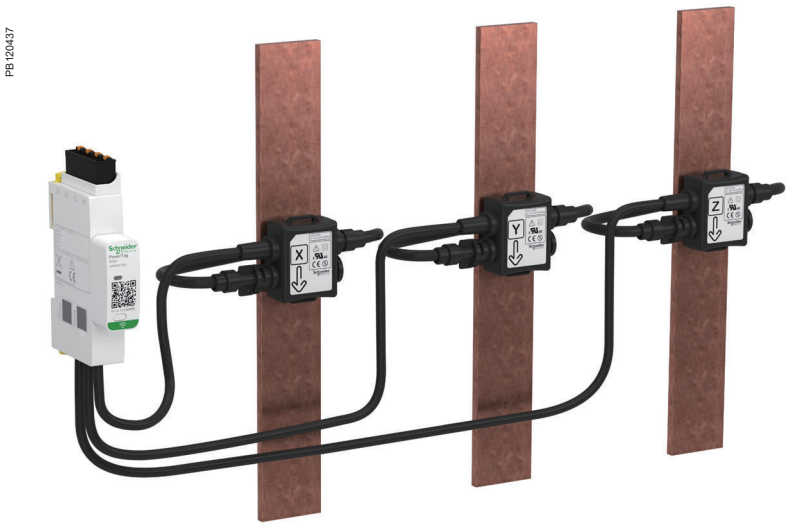
PowerTag Energy Rope 18 mm module can be mounted on DIN rail or fastened with brackets anywhere in a panel. Then its openable current sensors have to be installed around conductors, cables or busbars, whatever they are insulated or not. Voltage pickings removable spring terminal has to be wired by 1 copper wire per phase with following characteristics:

Wire range

Solid	Stranded	Stranded with terminal ends
0.2...1.5 mm²	0.2...2.5 mm²	0.25...1.5 mm²
24...16 AWG	24...14 AWG	24...16 AWG

Neutral picking shall be connected to have phase-to-neutral voltages, energy per phase and power per phase provided.

PowerTag Energy Rope is mainly advised for ComPact NS, MasterPact NT and NW, MasterPact MTZ NA and HA, for retrofit, for group of loads, and for all other devices with a rating up to 2000 A.



PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

Technical specifications

Main characteristics (as per IEC 61557-12)				
Rated voltage	Un	Phase-to-neutral		100...277 VAC ± 20 %
		Phase-to-phase		173...480 VAC ± 20 %
Frequency				50/60 Hz
Maximum current	Imax			200 A / 600 A / 1000 A / 2000 A
Maximum operating current				1.2 x Imax
Saturation current				2 x Imax
Maximum consumption				3 VA
Starting current	Ist			120 mA / 400 mA / 600 mA / 1.2 A
Basic current	Ib			30 A / 100 A / 150 A / 300 A
Additional characteristic				
Operating temperature				-25 °C to +70 °C
Maximum primary conductor temperature				105 °C (2)
Storage temperature				-40 °C to +85 °C
Overvoltage category		As per IEC 61010-1		Cat. IV
Measuring category		As per IEC 61010-2-030		Cat. IV
Pollution degree				3
Altitude				Up to 2000 m without derating (1)
Degree of protection device				IP20 (IP40 front face)
				IK05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4		11 to 26
Isotropic Radiated Power		Equivalent (EIRP)		0 dBm
Maximum transmission time				< 5 ms
Channel occupancy		For 1 device		messages sent every 5 seconds

Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)		Measuring range (200 A / 600 A / 1000 A / 2000 A)
		Class	Measuring range (200 A / 600 A / 1000 A / 2000 A)	
Total active power (Active power per phase)	P	1	3 to 200 A / 10 to 600 A / 15 to 1000 A / 30 to 2000 A	29 W (10 W) to 240 kW / 96 W (32 W) to 720 kW / 144 W (48 W) to 1200 kW / 288 W (96 W) to 2400 kW
Total reactive power (Reactive power per phase)	Q_A	2		36 VAR (12 VAR) to 240 kVAR / 120 VAR (40 VAR) to 720 kVAR / 180 VAR (60 VAR) to 1200 kVAR / 360 VAR (120 VAR) to 2400 kVAR
Total apparent power (Apparent power per phase)	S_A	2		46 VA (15 VA) to 240 kVA / 154 VA (51 VA) to 720 kVA / 231 VA (77 VA) to 1200 kVA / 461 VA (154 VA) to 2400 kVA
Active Energy: per phase, total, partial, delivered and received	E_a	1		0 to 281.10^9 kWh
Reactive energy: per phase, total, partial, delivered and received	E_{rA}	2		0 to 281.10^9 kVARh
Apparent energy: per phase, total, partial	E_{apA}	2		0 to 281.10^9 kVAh
Frequency	f	0.5	50 / 60 Hz ± 2 %	45 to 65 Hz
Phase current	I	1	6 to 200 A / 20 to 600 A / 30 to 1000 A / 60 to 2000 A	120 mA to 400 A / 400 mA to 1200 A / 600 mA to 2000 A / 1.2 A to 4000 A
Neutral current	I_{NC}	2		
Voltages (Line to Line)	U	0.5	Un ± 20 %	138 to 576 VAC
Power factor (per phase, total)	PF_A	1	From 0.5 inductive to 0.8 capacitive	-1 to 1

(1) Above 2000 m, please consult us.
(2) For higher value, please consult us.

PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

A9MEM159●

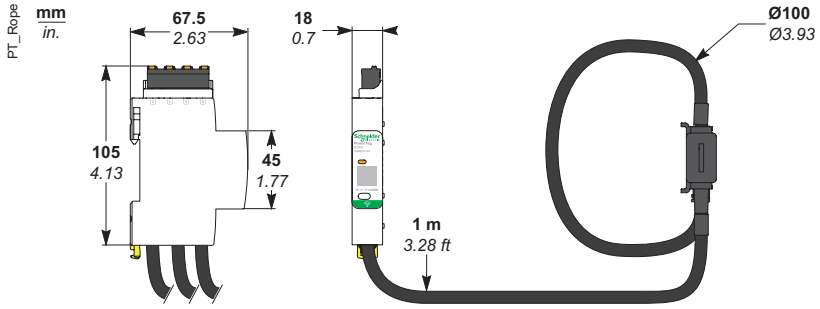
PowerTag Energy Rope 200 A to 2000 A Commercial reference numbers

Commercial reference number	Type	Description
A9MEM1590	R200 3P/3P+N	PowerTag Energy Rope 200 A 3P / 3P+N
A9MEM1591	R600 3P/3P+N	PowerTag Energy Rope 600 A 3P / 3P+N
A9MEM1592	R1000 3P/3P+N	PowerTag Energy Rope 1000 A 3P / 3P+N
A9MEM1593	R2000 3P/3P+N	PowerTag Energy Rope 2000 A 3P / 3P+N

For the list of Schneider Electric compatible devices and concentrators, refer to the Selection Guide pages 95 to 102.

Contact your Schneider Electric representative for complete ordering information.

PowerTag Energy Rope 200 A to 2000 A dimensions



PowerTag Energy Rope 200 A to 2000 A weight

Type	Weight (g)
R200 3P/3P+N	360
R600 3P/3P+N	
R1000 3P/3P+N	
R2000 3P/3P+N	

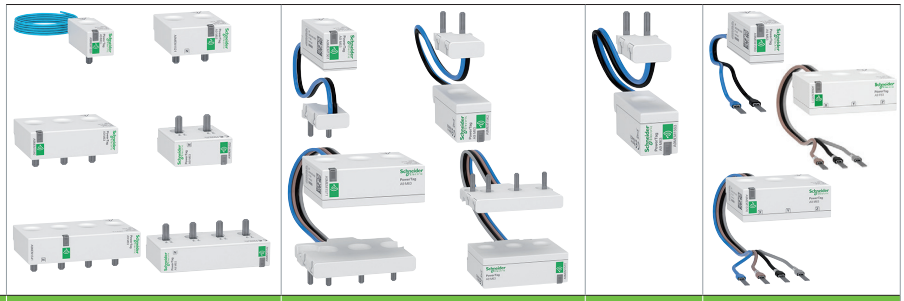
Please refer to PowerTag Energy Rope 200 A to 2000 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Circuit breakers					
iC60/iK60/DT60	Top	☑	-	-	-
	Bottom	☑	-	-	-
iC60 (double terminal)	Top	-	-	-	☑
	Bottom	-	-	-	☑
iC40	Top	-	☑	-	-
	Bottom	-	☑	-	-
DT40/iDPN/C40	Top	-	☑	-	-
	Bottom	-	☑	-	-
C120 ≤ 63 A NG125 ≤ 63 A	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
iC65N-K (China) iC65 (China)	Top	☑	-	-	-
	Bottom	☑	-	-	-
iDPN (China)	Top	-	☑	-	-
	Bottom	-	☑	-	-
iKQ (1P+W PowerTag on each pole)	Top	NA	-	-	-
	Bottom	☑ (1P+W only)	-	-	-
N40	Top	-	☑	-	-
	Bottom	-	☑	-	-
Reflex iC60	Top	☑	-	-	-
	Bottom	☑	-	-	-
Reflex XC40	Top	☑	-	-	-
	Bottom	-	-	-	☑ (1)
C32/C45/C60/C65/K60/T60/ Multi9 OEM (C60N/H/L)	Top	☑	-	-	-
	Bottom	☑	-	-	-
Circuit breakers equipped with Vigi module					
iC60/iC65/iC60/iC65N-K with Vigi module	Top	☑ (CB)	-	-	-
	Bottom	-	-	-	☑ (1) (Vigi)
iC40 with Vigi iCG40	Top CB	-	☑ (CB)	-	-
	Top (Vigi)	-	☑ (2) (Vigi 1P+N)	-	-
	Bottom (Vigi)	-	-	-	☑ (Vigi 3P+N)
iC40 with "outgoer" Vigi module	Top	-	☑ (CB)	-	-
	Bottom	-	-	-	☑ (Vigi)
DT40/DPN/C40 with "group feeder" Vigi module	Top CB	-	☑ (CB)	-	-
	Top Vigi	-	☑ (Vigi 1P+N)	-	☑ (Vigi 3P+N)
DT40/DPN/C40 with "outgoer" Vigi module	Top	-	☑ (CB)	-	-
	Bottom	-	-	-	☑ (Vigi)
DT60 with Vigi TG60	Top CB	☑ (CB) only A9MEM1541	-	-	-
	Top Vigi	-	-	-	☑ (1) (Vigi)

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.
(2) Product usually associated with a comb busbar

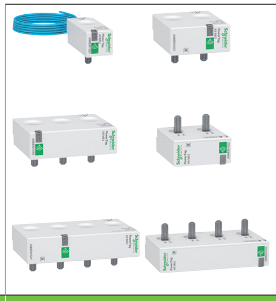
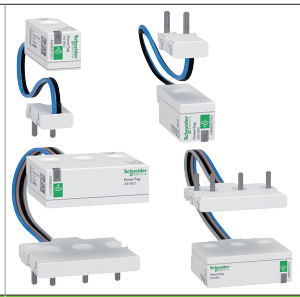
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A

Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Circuit breakers equipped with Vigi module (cont')					
C120 ⩽ 63 A NG125 ⩽ 63 A with Vigi module	Top	-	-	-	☑ (1) (CB)
	Bottom	-	-	-	☑ (1) (Vigi)
Residual current devices					
iID/iID K	Top	☑	-	-	-
	Bottom	☑	-	-	-
iID (double terminal)	Top	-	-	-	☑
	Bottom	-	-	-	☑
iID40	Top	-	☑ (2) (1P+N)	-	☑ (2) (3P+N)
	Bottom	☑	-	-	-
iDPN Vigi "outgoer" 1P+N	Top	-	☑	-	-
	Bottom	-	☑	-	-
iC60H RCBO/iC60H2 RCBO/ IKQE RCBO	Top	NA (fishbone)	-	-	-
	Bottom	-	-	☑	-
iC60 RCBO	Top	☑	-	-	-
	Bottom	☑	-	-	-
iCV40 "outgoer" 1P+N	Top	-	☑	-	-
	Bottom	-	☑	-	-
iCV40 "outgoer" 3P+N	Top	-	☑	-	-
	Bottom	-	-	-	☑
DPN Vigi/DT40 Vigi/C40 Vigi "outgoer" 1P+N	Top	-	☑	-	-
	Bottom	-	☑	-	-
DPN Vigi/DT40 Vigi/C40 Vigi/ iDPN Vigi "outgoer" 3P+N	Top	-	☑	-	-
	Bottom	-	-	-	☑
DPN Vigi K	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
N40 Vigi "outgoer"	Top	-	☑	-	-
	Bottom	-	☑	-	-
iDc/ITG40/C40	Top Left	-	☑	-	-
	Top Right	-	☑	-	-
DCP Vigi	Top	☑	-	-	-
	Bottom	☑	-	-	-
C60H RCBO (Multi9)	Top	NA (fishbone)	-	-	-
	Bottom	-	-	☑	-
ID ⩽ 63 A/ID K biconnect/ ID Type B ⩽ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
RED/REDs/REDTest	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm^2) for a more suitable connection to this product.
(2) Product usually associated with a comb busbar

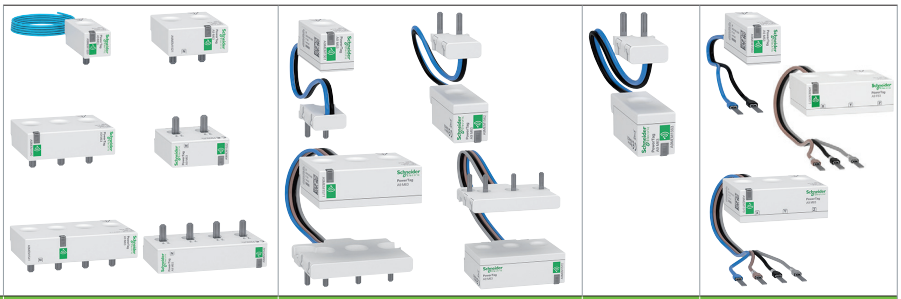
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Switches					
iSW ⩽ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
iSW-NA ⩽ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
iSW 20/32 A	Top	-	-	-	☑
	Bottom	-	-	-	☑
i-NA ⩽ 63 A	Top	☑	-	-	-
	Bottom	☑	-	-	-
NG125 NA ⩽ 63 A	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
Fuse disconnectors					
STI	Top	-	☑	-	-
	Bottom	-	☑	-	-
SBI 14x51/SBI 22x58 ⩽ 63 A	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
D01/D02	Top	-	-	-	☑ (1)
	Bottom	-	-	-	☑ (1)
TeSys					
Motor circuit breakers					
GV2	Top	-	-	-	☑ (1) (2)
	Bottom	-	-	-	☑ (1) (2)
GV3 ⩽ 63 A	Top	-	-	-	☑ (1) (2)
	Bottom	-	-	-	☑ (1) (2)
Contactors					
TeSys D ⩽ 63 A	Top	-	-	-	☑ Upstream only (1)
	Bottom	-	-	-	
TeSys K	Top	-	-	-	☑ Upstream only (1)
	Bottom	-	-	-	
Motor starter					
TeSys U	Top	-	-	-	☑ Upstream only (1)
	Bottom	-	-	-	

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.
(2) PowerTag Energy sensors withstand motor starting in-rush currents. Environmental mission profile : Buildings as per 60721-3-3.

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

			PowerTag Energy 160 A
			
Products (AC network)		**Mounting position**	**F160 3P / 3P+N**
Acti9			
Circuit breakers			
C120 (with or without Vigi module)	3P / 3P+N	Top / Bottom	☑
NG125 (with or without Vigi module)	3P / 3P+N	Top / Bottom	☑
Residual current devices			
iID > 63 A	3P+N	Top / Bottom	☑
RCCB-ID 125 A	3P+N	Top / Bottom	☑
Fuse disconnectors			
SBI > 63 A	3P / 3P+N	Top / Bottom	☑
Switches			
NG125 NA	3P / 3P+N	Top / Bottom	☑
iSW > 63 A	3P / 3P+N	Top / Bottom	☑
iSW NA > 63 A	3P+N	Top / Bottom	☑
ComPact			
Circuit breakers			
NSXm	3P / 3P+N	Top / Bottom	☑ (5)
Switches			
NSXm NA	3P / 3P+N	Top / Bottom	☑ (5)
INS 80/100/125/160	3P / 3P+N	Top / Bottom	☑
PowerPact			
Circuit breakers			
B	3P / 3P+N	Top / Bottom	☑ (6)
TeSys			
Motor circuit breakers			
GV3 > 65 A	3P	Top / Bottom	☑
GV4	3P	Top / Bottom	☑
Contactors			
63 A < TeSys D ⩽ 160 A	3P / 3P+N	Top	☑ Upstream only
TeSys F ⩽ 160 A	3P / 3P+N	Top	☑ Upstream only

(5) It is advised to use EverLink connectors with control wire terminal (LV426970 for 3P / LV426971 for 4P)
(6) It is advised to use EverLink connectors with control wire terminal (LV426974 for 3P / LV426975 for 4P)

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

			PowerTag Energy 250 A		PowerTag Energy 630 A	
						
Products (AC network)		Mounting position	M250 3P	M250 3P+N	M630 3P	M630 3P+N
ComPact						
Circuit breakers						
NSX100/160/250 B/F/N/H/S/L/R/NA Fixed	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
NSX400/630 F/N/H/S/L/R/NA Fixed	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑
NSX100/160/250 B/F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top / Bottom	☑	-	-	-
	4P	Top / Bottom	-	☑ (3)	-	-
NSX400/630 F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top / Bottom	-	-	☑ (4)	-
	4P	Top / Bottom	-	-	-	☑ (3) (4)
NS100/160/250 N/SX/H/L/NA Fixed	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
NS400/630 N/H/L/NA Fixed	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑
NS100/160/250 N/SX/H/L/NA Plug-In (mounted on the base)	3P	Top / Bottom	☑	-	-	-
	4P	Top / Bottom	-	☑ (3)	-	-
NS400/630 N/H/L/NA Plug-In (mounted on the base)	3P	Top / Bottom	-	-	☑ (4)	-
	4P	Top / Bottom	-	-	-	☑ (3) (4)
Circuit breakers equipped with Vigi block						
NSX100/160/250 B/F/N/H/S/L/R/NA Fixed	3P	Bottom	☑	-	-	-
	4P	Bottom	-	☑	-	-
NSX400/630 F/N/H/S/L/R/NA Fixed	3P	Bottom	-	-	☑	-
	4P	Bottom	-	-	-	☑
NSX100/160/250 B/F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top	☑	-	-	-
NSX400/630 F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top	-	-	☑ (4)	-
Switches						
INS250/INV - 100/160/200/250	3P	Bottom	-	☑	-	-
	4P	Top / Bottom	-	☑ (3)	-	-
INS/INV - 320/400/500/630	3P	Bottom	-	-	-	☑
	4P	Top / Bottom	-	-	-	☑ (3)
TeSys						
Motor circuit breakers						
GV5, GV7	3P	Bottom	☑	-	-	-
GV6	3P	Bottom	-	-	☑	-

(3) neutral on the right when mounted on top side
(4) when plate mounted, need to add a 4 mm intercalary under the PowerTag module (see ComPact NSX catalog)

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

			PowerTag Energy Rope			
						
Products (AC network)		Mounting position	R200 3P / 3P+N	R600 3P / 3P+N	R1000 3P / 3P+N	R2000 3P / 3P+N
ComPact						
Circuit breakers						
NS 630b	3P / 3P+N	Top / Bottom	-	☑	-	-
NS 800/1000	3P / 3P+N	Top / Bottom	-	-	☑	-
NS 1250/1600/1600b/2000	3P / 3P+N	Top / Bottom	-	-	-	☑
Switches						
INS/INV 630b	3P / 3P+N	Top / Bottom	-	☑	-	-
INS/INV 800/1000	3P / 3P+N	Top / Bottom	-	-	☑	-
INS/INV 1250/1600/2000	3P / 3P+N	Top / Bottom	-	-	-	☑
NS 630b NA	3P / 3P+N	Top / Bottom	-	☑	-	-
NS 800/1000 NA	3P / 3P+N	Top / Bottom	-	-	☑	-
NS 1250/1600/1600b/2000 NA	3P / 3P+N	Top / Bottom	-	-	-	☑
MasterPact						
Circuit breakers						
NT 06	3P / 3P+N	Top / Bottom	-	☑	-	-
NT 08/10	3P / 3P+N	Top / Bottom	-	-	☑	-
NT 12/16	3P / 3P+N	Top / Bottom	-	-	-	☑
NW 08/10	3P / 3P+N	Top / Bottom			☑	-
NW 12/16/20	3P / 3P+N	Top / Bottom	-	-	-	☑
Switches						
NT 06 HA	3P / 3P+N	Top / Bottom	-	☑	-	-
NT 08/10 HA	3P / 3P+N	Top / Bottom	-	-	☑	-
NT 12/16 HA	3P / 3P+N	Top / Bottom	-	-	-	☑
NW 08/10 NA/HA/HF	3P / 3P+N	Top / Bottom	-	-	☑	-
NW 12/16/20 NA/HA/HF	3P / 3P+N	Top / Bottom	-	-	-	☑
MTZ1 06 HA	3P / 3P+N	Top / Bottom	-	☑	-	-
MTZ1 08/10 HA	3P / 3P+N	Top / Bottom	-	-	☑	-
MTZ1 12/16 HA	3P / 3P+N	Top / Bottom	-	-	-	☑
MTZ2 08/10 NA/HA/HA10	3P / 3P+N	Top / Bottom	-	-	☑	-
MTZ2 12/16/20 NA/HA/HA10	3P / 3P+N	Top / Bottom	-	-	-	☑
TeSys						
Contactors						
TeSys D > 160 A	3P / 3P+N	Top	☑ Upstream only	-	-	-
160 A < TeSys F ≤ 2000 A	3P / 3P+N	Top	☑ Upstream only	☑ Upstream only	☑ Upstream only	☑ Upstream only
Others						
Circuit breakers / Switches / Motor circuit breakers						
All products below 200 A	3P / 3P+N	Top / Bottom	☑	-	-	-
All products between 200 A and 600 A	3P / 3P+N	Top / Bottom	-	☑	-	-
All products between 600 A and 1000 A	3P / 3P+N	Top / Bottom	-	-	☑	-
All products between 1000 A and 2000 A	3P / 3P+N	Top / Bottom	-	-	-	☑

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy
Selection guide for concentrators / gateways compatibility*

Concentrators / gateways






		Wiser IP module Wiser IP module+ EER31800	PowerTag Link C PowerTag Link C+ A9XELC10	Smartlink SI B A9XMZA08 Smartlink SI D A9XMWA20	PowerTag Link A9XMWD20	PowerTag Link HD A9XMWD100	Harmony Hub ZBRN1 ZBRN2 ZBRN32
PowerTag Energy M63							
	A9MEM1520	☑	☑	☑	☑	☑	-
	A9MEM1521	☑	☑	☑	☑	☑	-
	A9MEM1522	☑	☑	☑	☑	☑	-
	A9MEM1540	☑	☑	☑	☑	☑	-
	A9MEM1541	☑	☑	☑	☑	☑	-
	A9MEM1542	☑	☑	☑	☑	☑	-
	A9MEM1543	☑	☑	-	☑	☑	-
PowerTag Energy M63 Resi9							
	R9M20	☑	-	-	-	-	-
	R9M21	☑	-	-	-	-	-
	R9M22	☑	-	-	-	-	-
	R9M40	☑	-	-	-	-	-
	R9M41	☑	-	-	-	-	-
	R9M42	☑	-	-	-	-	-
	R9M43	☑	-	-	-	-	-
PowerTag Energy P63							
	A9MEM1561	☑	☑	☑	☑	☑	-
	A9MEM1562	☑	☑	☑	☑	☑	-
	A9MEM1563	☑	☑	☑	☑	☑	-
	A9MEM1571	☑	☑	☑	☑	☑	-
	A9MEM1572	☑	☑	☑	☑	☑	-
PowerTag Energy F63							
	A9MEM1560	☑	☑	☑	☑	☑	☑
	A9MEM1564	-	-	-	☑	☑	-
	A9MEM1570	☑	☑	☑	☑	☑	☑
	A9MEM1573	-	-	-	☑	☑	☑
	A9MEM1574	-	-	-	☑	☑	-
PowerTag Energy F63 Resi9							
	R9M60	☑	-	-	-	-	-
	R9M70	☑	-	-	-	-	-

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy
Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

							
		Wiser IP module Wiser IP module+ EER31800	PowerTag Link C PowerTag Link C+ A9XELC10	Smartlink SI B A9XMZA08 Smartlink SI D A9XMWA20	PowerTag Link A9XMWD20	PowerTag Link HD A9XMWD100	Harmony Hub ZBRN1 ZBRN2 ZBRN32
PowerTag Energy F160							
	A9MEM1580	-	☑ (PowerTag Link C+ only)	-	☑	☑	☑
PowerTag Energy M250-M630							
	LV434020	☑	☑	☑	☑	☑	☑
	LV434021	☑	☑	☑	☑	☑	☑
	LV434022	☑	☑	☑	☑	☑	☑
	LV434023	☑	☑	☑	☑	☑	☑
PowerTag Energy R200-R600-R1000-R2000							
	A9MEM1590	-	☑ (PowerTag Link C+ only)	-	☑	☑	☑
	A9MEM1591	-	☑ (PowerTag Link C+ only)	-	☑	☑	☑
	A9MEM1592	-	☑ (PowerTag Link C+ only)	-	☑	☑	☑
	A9MEM1593	-	☑ (PowerTag Link C+ only)	-	☑	☑	☑

(*) Refer to the product catalog for technical characteristics

Wireless products

Schneider Electric offers a range of wireless products designed for new builds or retrofit installations. These are reliable, low-cost and easy to use wireless solutions with long battery life that does not compromise performance

- PowerTag Control
- HeatTag

PB120568 A9XMC2D3 Image2

PowerLogic™ PowerTag Control

PowerTag Control monitors circuits wirelessly, collecting status of daisy-chained circuit breakers and notifying the data concentrator of information status, such as OF, SD, Contractor or Impulse Relay position indication. These wireless input/output modules allow circuit control and status monitoring. Designed for use in commercial and building applications, they quickly and easily turn your distribution board into a connected panel.

PowerTag Control also connects to pulse relays or contactors for remote control within a building management system for non-critical loads, such as lighting.

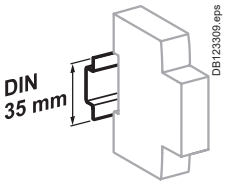
Applications:

- Monitors your electrical installation from main incomer down to load level
- Suitable for various business, buildings, industrial and residential applications with easy integration in upper systems
- Supports and enables Energy efficiency programs and standards such as:

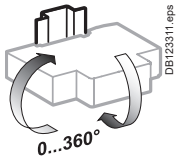
  - European Energy Efficiency Directive (EED)
  - Energy Performance of Buildings Directive (EPBD)
  - IEC 60364-8-1 “Low Voltage Electrical installations - Energy Efficiency”
  - EN 17267 “Energy Measurement and Monitoring plan”
  - ISO 50001 “Energy Management Sytem”

A9XMC2D3 Image2

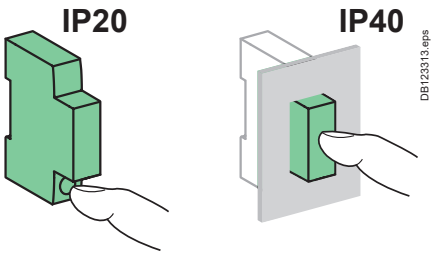
PowerTag Control



Clip on DIN rail 35 mm.



Indifferent position of installation.

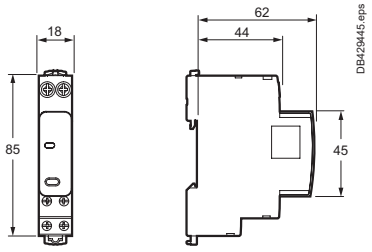


Technical characteristics

Main characteristics		
Power supply		230 V AC ± 20%
Frequency		50/60 Hz
Maximum consumption	IO	≤ 2 VA
	2DI	≤ 3 VA
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +85°C
Relative humidity (60068-2-78)		93 % at 40°C
Overvoltage category	As per IEC 61010-1	Cat. III
Altitude		≤ 2000 m
Pollution degree		3
Degree of protection according to IEC 60529	Front face	IP40
	Casing	IP20
	IK	05
Characteristics of inputs and outputs		
Digital input		
Type		230 V AC, dry contact
Digital output		
Type		230 V AC, dry contact
Relay type		Normally open or normally closed (3)
Applicable voltage on output		230 V AC ± 20%
Minimum/maximum current on output		10 mA / 2 A
Type of output order		Pulse or latch (3)
Pulse length in control mode with impulse relay		Nominal: 300 ms
Radio-frequency communication		
ISM band 2.4 GHz		2.4 GHz to 2.4835 GHz
Channels	As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power	Equivalent (EIRP)	0 dBm
Channel occupancy	Messages sent	■ On event ■ Periodically (5s nominal)

(3) Setting adjustable

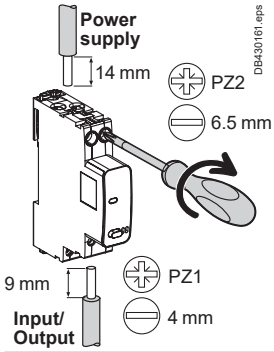
Dimensions (mm)



Weight (g)

PowerTag C	
PowerTag C IO 230 V	80
PowerTag C 2DI 230 V	75

Connection

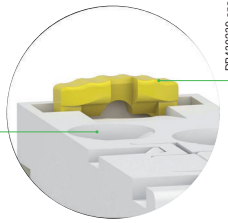


Terminals	Tightening torque	Copper cables		
		Rigid	Flexible	Flexible with ferrule
				
Power supply (Top)	2 N.m	1 to 16 mm² (AWG: 18...6)	0.5 to 10 mm² (AWG: 21...8)	-
Input/Output (Bottom)	1 N.m	1x: 1 to 6 mm² (AWG: 18...10) 2x: 1.5 to 2.5 mm² (AWG: 16...14)	1x: 0.5 to 4 mm² (AWG: 21...12) 2x: 1.5 to 2.5 mm² (AWG: 16...14)	1x: 0.5 to 4 mm² (AWG: 21...12) 2x: -

PowerTag Control

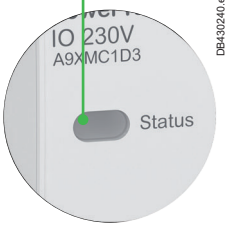
PowerTag C IO module

- Compatible with horizontal comb busbars 9 mm modules
- Automatic cable guiding in the correct position: terminals with guard



- Assembly and disassembly by operating toggle latches at the top and bottom of the products

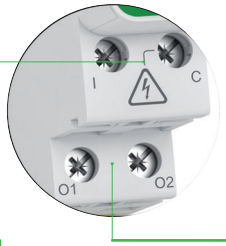
Status LED
- Provide information about PowerTag C status



- Insulated terminals IP20

Logo
- Wireless communication device

Push button
- Local output control
- Decommissioning



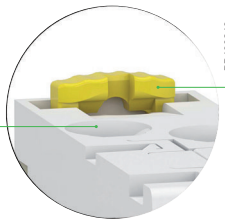
Monitoring / Back loop circuit
- "I" digital input terminal
- "C" common powered terminal 230 V AC

Control circuit
- Logical output relay
- "O" output terminals 230 V AC - 2 A max.

PowerTag Control

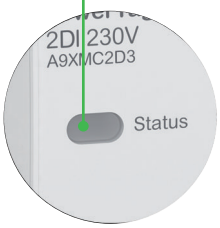
PowerTag C 2DI module

- Compatible with horizontal comb busbars 9 mm modules
- Automatic cable guiding in the correct position: terminals with guard

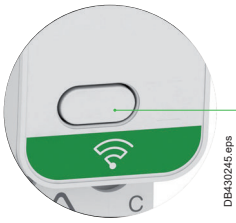


- Assembly and disassembly by operating toggle latches at the top and bottom of the products

Status LED
- Provide information about PowerTag C status

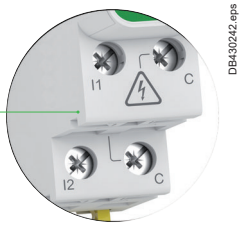


- Insulated terminals IP20



Flush mounted push button
- Decommissioning

Logo
- Wireless communication device



Monitoring circuits
- "I" digital input terminals
- "C" common powered terminals 230 V AC

PowerLogic™ HeatTag

Wireless Sensor for early detection of overheating cables

The PowerLogic HeatTag sensor analyzes gas and airborne particles helping facility manager to anticipate and act before smoke appears or an electrical fire starts.

Electrical fires generate huge losses in commercial and industrial buildings, interrupting production and delaying service delivery. These losses can be prevented if early detection of component overheating is accurately detected and alarmed.

PowerLogic HeatTag helps prevent electrical cabinets from being damaged by analyzing airborne gas and particles and sending alerts before smoke appears or an electrical fire starts. HeatTag is much more than a fire or smoke detector - it scientifically detects overheating in electrical installations before any damage is done.

PB120568

The solution for

Markets that can benefit from a solution that includes PowerLogic HeatTag smart sensors:

- Buildings
- Industry
- Healthcare
- Data Center and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness
- Seamless integration with EcoStruxure™ solutions

Panel builders' benefit

- No settings
- Nominal environment auto-learning to avoid false alerts
- Concentrator auto-discovery
- Alerts generated by a powerful algorithm integrated in HeatTag

End users' benefit

- Ease of use
- Prevents fire damage and associated costs
- Comprehensive, consistent and superior performance
- Maximize uptime, eliminate faults, and enhance safety

Competitive advantages

- Easy to install and operate
- Suitable for non forced ventilated cabinets ≥ IP31
- Immediately detects overheating in cables and connections
- More than a smoke detector or heat sensor
- 3 levels of alert recording
- Monitors air quality index
- Continous improvements of algorithms

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimize electrical asset performance.

Conformity of standards

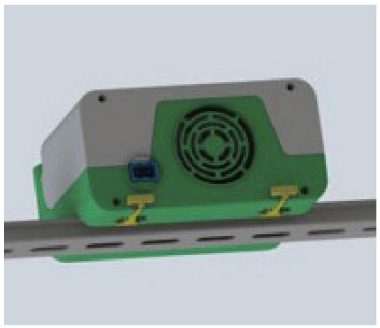
- IEC/UL 61010-1
- IEC 61010-2-201
- IEC 61326-1
- IEC61326-2-3
- ETSI EN 301 489-1
- ETSI EN 301 489-17
- ETSI EN 300 328
- EN 62311
- EN IEC 63000
- IEEE 802.15.4 protocol
- FCC and IC certified

HeatTag sensors

PB120568

PowerLogic™ HeatTag sensor

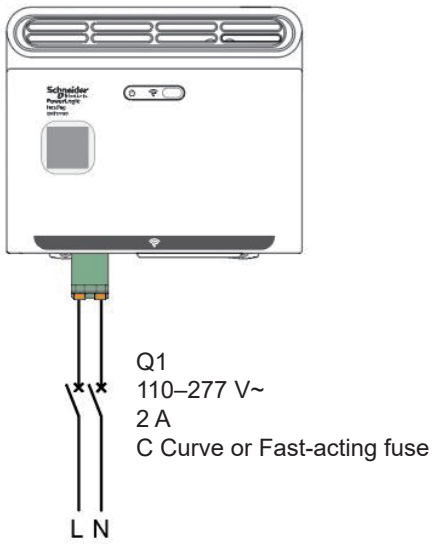
PB120569



HeatTag rear view showing fan

PB120570

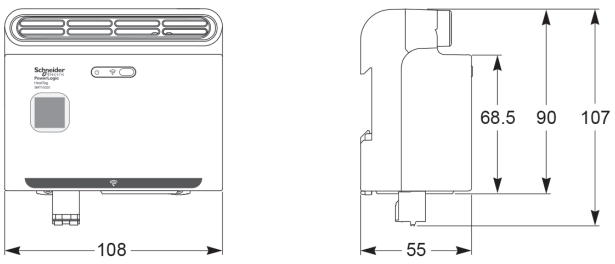
HeatTag sensor DIN mounted



HeatTag features

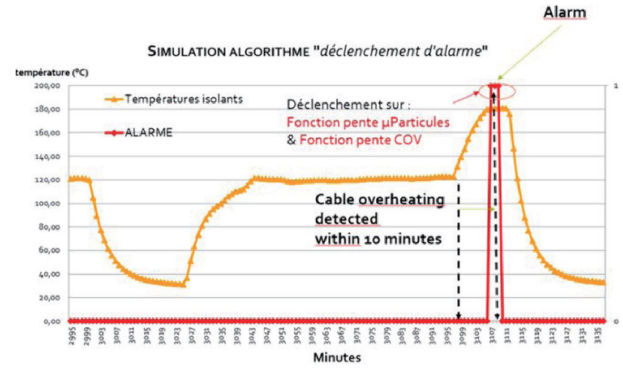
Sensor Characteristics		
Temperature measurement	Measurement range	-15 °C / +70 °C (5 °F to 158 °F)
	Measurement accuracy	-1.1 °C / +1.1 °C
	Default transmission period	60 seconds (higher in case of high wireless data traffic)
Humidity measurement	Measurement range	15–90 %
	Measurement accuracy	±9 RH %
	Default transmission period	60 seconds (higher in case of high wireless data traffic)
Air quality	Index (0 to 10), alert generation when index ≥10	
Test alert after pairing	During first 30 minutes	
Environment auto-learning phase	8 hours after the first 30 minutes	
Mechanical Characteristics		
Dimensions (W x H x D)		108 x 107 x 55 mm
Weight		270 g
Degree of protection (IEC 60529)		IP 20
Electrical Characteristics		
Supply voltage		110–277 V AC, -15 % / +15 %
Frequency		50–60 Hz
Max. consumption		0.1 A
Operating temperature		-15 °C / +70 °C (5 °F to 158 °F)
Storage temperature		-20 °C / +85 °C (-4 °F to 185 °F)
Relative humidity in operation		15–90 %
Altitude of use		0–2000 m (0–6500 ft)
Degree of pollution (IEC 60664-1)		3
Overvoltage category		OVC III
Commercial Reference Number		
PowerLogic HeatTag Sensor		SMT10020

PB120573



HeatTag sensor dimensions. See the appropriate **Installation Guide**.

PB120572



HeatTag simulation algorithm display

NOTE: Do not use HeatTag as a safety device or to replace fire protection devices. Please see the appropriate **User Guide** for this product.

Basic multi-function metering

A range of meters designed for cost management and simple network management. Affordable to buy and easy to choose, the highly-capable PowerLogic PM5000 and PM5350 series meters are designed to provide the best combination of features to match all your energy cost management needs.

As well as pin-point energy savings, optimal equipment efficiency and utilisation, basic multi-function meters perform a high level assessment of the power quality in an electrical network.

- PowerLogic PM5000
- PowerLogic PM5350
- PowerLogic PM5350IB
- PowerLogic PM5350PB
- PowerLogic PM5350P

PB111770 PB108447

METSEPM5110

METSEPM5560

PM5000 series

The PowerLogic PM5000 series power meters are the new benchmark in affordable, precision metering.

The value you want, the precision you need. Compact, affordable power meters with high-end cost capabilities and basic mobile energy management.

Applications

Capable of essential cost management:

- Sub-billing/tenant metering
- Equipment sub-billing
- Energy cost allocation

Also ideal for electrical network management:

- Track real-time power conditions
- Monitor control functions
- Provide basic power quality values
- Detect and capture voltage sag and swell events
- Monitor residual current
- Analyze equipment and network status
- BACnet/IP, EtherNet/IP, and DNP3.0 protocol support

PB118061

METSEPM5760

The solution for

Markets that can benefit from a solution that includes PowerLogic PM5000 series meters:

- Buildings
- Industry
- Healthcare
- Data Center and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering

End users' benefit

- Ease of use
- Precision metering & sub-billing
- Billing flexibility
- Comprehensive, consistent and superior performance
- Maximize uptime, eliminate faults, and enhance safety

Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- Data logging up to 16 parameters
- Power quality analysis
- Load management combined with alarm and timestamping
- High performance and accuracy
- Residual Current Monitoring
- Voltage sag and swell detection with waveform capture
- MID ready compliance for legal billing application
- BACnet/IP, EtherNet/IP, and DNP3.0 protocol support

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximize electrical network reliability and availability, and optimize electrical asset performance.

Conformity of standards

- IEC 61557-12
- IEC 62053-22
- IEC 62053-24
- IEEE 802.3
- EN 50470-1
- EN 50470-3
- IEC/UL/EN 61010-1
- IEC 62052-11
- FCC part 15 Class B
- EN 55022 Class B
- ODVA certification
- ANSI C12.1-2008 (PM55xx)
- ANSI C12.20 Class 0.2 & 0.5
- Align with cyber security guidelines as per IEC 62443

PM5000 series

PB111777

PowerLogic™ PM5563 remote dispaly

PB111784

PowerLogic™ PM5563 remote dispaly

PowerLogic™ PM5100, PM5300 and PM5500 series

The PowerLogic™ PM5000 power meter is the ideal fit for cost management applications. Designed for use in both energy management systems and building management systems, it provides the measurement capabilities needed to allocate energy usage, perform tenant metering and sub-billing, pin-point energy savings, optimize equipment efficiency and utilization, and perform a high level assessment of the power quality of the electrical network.

In a single 96 x 96 mm unit, with a graphical display, (plus optional remote display) all three phases, neutral and ground can be monitored simultaneously.
The bright, anti-glare display features large characters and powerful backlighting for easy reading even in extreme lighting conditions and viewing angles. Easy to understand menus, text in 8 selectable languages, icons and graphics create a friendly environment to learn about your electrical network. Ethernet gateway and enhanced cyber security. These are highly accurate devices with global billing certifications.

Applications

Cost management: Cost saving opportunities become clear once you understand how and when your facility uses electricity. The PowerLogic™ PM5000 series meters are ideal for:
- **Sub-billing / tenant metering:** allows a landlord, property management firm, condominium association, homeowners association, or other multi-tenant property to bill tenants for individual measured utility (electricity) usage. MID approved meters for billing applications across Europe.
- **Cost allocation:** allocate energy costs between different departments (HVAC, indoor and outdoor lighting, refrigeration, etc.), different parts of an industrial process or different cost centres. Cost allocation systems can help you save money by making changes to your operation, better maintaining your equipment, taking advantage of pricing fluctuations, and managing your demand.

Network management: Improving reliability of the electrical network is key for success in any business. Monitoring values such as voltage levels, harmonics distortions, voltage unbalance, residual current, voltage sag and swell will help you to ensure proper operation and maintenance of your electrical network and equipment. PowerLogic™ PM5000 series meters are the perfect tool for:
- **Basic Power Quality monitoring:** power quality phenomena can cause undesirable effects such as heating in transformers, capacitors, motors, generators and misoperation of electronic equipment and protection devices.
- **Min/ Max monitoring (with timestamp):** understanding when electrical parameters, such as voltage, current and power demand, reach maximum and minimum values will give you the insight to correctly maintain your electrical network and assure equipment will not be damaged.
- **Alarming:** alarms help you to be aware of any abnormal behaviour on the electrical network in the moment it happens.
- **WAGES monitoring:** take advantage of the input metering on PM5000 meters to integrate measurements from third party devices such as water, air, gas, electricity or steam, meters.
- **Residual current monitoring:** measures leakage current flowing in TN & TT network system.
- **Voltage sags and swells:** measures and captures wave form in the event of voltage sags and swells in the network.

Main characteristics

Easy to install
Mounts using two clips, in standard cut out for DIN 96 x 96 mm, no tools required. Compact meter with 72 mm (77 mm for PM5500) depth connectable up to 690 V L-L without voltage transformers for installations compliant with category III. Optional remote display (PM5563). Ethernet gateway functionality via RS-485 port.

Easy to operate
Intuitive navigation with self-guided, language selectable menus, six lines, four concurrent values. Two LEDs on the meter face help the user confirm normal operation with a green LED - heartbeat/communications indicator, and the amber LED - customizable either for alarms or energy pulse outputs. Onboard web pages (PM5500) show real-time and logged information, and verify communications.

Easy circuit breaker monitoring and control
The PM5300 provides two relay outputs (high performance Form A type) with capability to command most of the circuit breaker coils directly. For Digital Inputs, monitored switches can be wired directly to the meter without external power supply by using whetting output voltage. PM5500 series have 4 status inputs (digital) and 2 digital output (solid state) to use for WAGES monitoring, control and alarm annunciation.

Accurate energy measurement for precise cost allocation:

	PM5100	PM5300	PM5500	PM5600	PM5700
IEC 62053-22 (Active Energy)	Class 0.5S	Class 0.5S	Class 0.2S	Class 0.2S	Class 0.2S

PM5000 series

PB111777

PowerLogic™ PM5500 meter

PB111772

PowerLogic™ PM5300 meter

PB111768

PowerLogic™ PM5100 meter

MID Certified according to MID Directive, Annex "B" + Annex "D" for legal metrology relevant to active electrical energy meters (see Annex MI-003 of MID). Can be used for fiscal (legal) metrology.

MID ready compliance, EN 50470-1/3 – Class C

Native multi-protocol support

The PM55/PM56/PM5700 is now easier than ever to integrate into new and existing BMS systems. With native BACnet/IP protocol support, meters can simultaneously communicate via BACnet and Modbus in applications where multiple software systems are used (building management and energy management systems).

The PM55/PM56/PM5700 series has been tested and certified in accordance with BACnet Testing Laboratories (BTL) requirements.

PM55/PM56/PM5700 Direct metering of neutral current
The PM55/PM56/PM5700 has a fourth CT for measuring neutral current. In demanding IT applications, where loads are non-linear (i.e. switching power supplies on computers/servers), measuring neutral current is essential to avoid overload and resulting outage.

Power Quality analysis
The PM5000 offers Total Harmonic Distortion (THD/thd), Total Demand Distortion (TDD) measurements and individual harmonics (odd) magnitudes and angles for voltage and current:

	PM5100	PM5300	PM55/56/5700
Individual Harmonics	magnitudes up to 15th	magnitudes up to 31st	magnitudes & angles up to 63rd

These types of power quality parameters help to identify the source of harmonics that can harm transformers, capacitors, generators, motors and electronic equipment.

Load management
Peak demands with time stamping are provided. Predicted demand values can be used in combination with alarms for basic load shedding applications.

Alarming with time stamping
A different combination of set point driven alarms and digital alarms with 1s time stamping are available in the PM5000 family:

	PM5100	PM5300	PM55/56/5700
Set point driven alarms	**29**	**29**	**29 or 33***
Unary	**4**	**4**	**4**
Digital	**–**	**2**	**4 or 2**
Boolean / Logic	**–**	**–**	**10**
Custom defined	**–**	**–**	**5**

*Applicable in specific meter models. 2 alarms for disturbance (Sag/ Swell)

Alarms can be visualized as Active (the ones that have picked up and did not drop out yet) or Historical (the ones that happened in the past). Alarms can be programmed and combined to trigger digital outputs and mechanical relays (PM5300).
The PM5000 series keeps an alarm log with the active and historical alarms with date and time stamping. SMTP protocol for receiving alarm conditions via email and text. SNTP protocol for date/time network synchronization.

Load timer
A load timer can be set to count load running hours based on a minimum current withdraw, adjustable to monitor and advise maintenance requirements on the load.

High Performance and accuracy
IEC 61557-12 Performance measuring and monitoring devices (PMD).
Defines the performance expectation based on classes. It defines the allowable error in the class for real and reactive power and energy, frequency, current, voltage, power factor, voltage unbalance, voltage and current harmonics (odds), voltage THD, current THD, as well as ratings for temperature, relative humidity, altitude, start-up current and safety. It makes compliant meters readings comparable - they will measure the same values when connected to the same load.

Meets IEC 61557-12 PMD/[SD|SS]/K70/0.5 for PM5100 and PM5300
Meets IEC 61557-12 PMD/[SD|SS]/K70/0.2 for PM5500

Legal billing compliance
MID compliance is compulsory for billing applications across Europe.
In addition to billing applications, for facility managers responsible for energy cost MID means same level of quality as a billing meter.

PM5000 series

PM5000 series feature selection

	PM5100		PM5300					
	PM5100	PM5110	PM5310	PM5310R	PM5320	PM5320R	PM5330	PM5340
Installation								
Fast installation, panel mount with integrated display	■	■	■	■	■	■	■	■
Fast installation, DIN rail mountable	–	–	–	–	–	–	–	–
Accuracy	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S	CL 0.5S
Display								
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	■	■	■	■	■	■	■
Power and energy metering								
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■	■
Multi-tariff	–	–	4	4	4	4	4	4
MID ready compliance, EN50470-1/3, Annex B & Annex D Class C	–	PM5111	–	–	–	–	PM5331	PM5341
Power quality analysis								
THD, thd, TDD	■	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	15th	15th	31st	31st	31st	31st	31st	31st
Waveform capture & sag/ swell detection	–	–	–	–	–	–	–	–
I/Os and relays								
I/Os	1DO	1DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO	2DI/2DO
Relays	0	0	0	0	0	0	2	2
Analog inputs	–	–	–	–	–	–	–	–
Residual Current inputs	–	–	–	–	–	–	–	–
Alarms and control								
Alarms	33	33	35	35	35	35	35	35
Set point response time, seconds	1	1	1	1	1	1	1	1
Single and multi-condition alarms	–	–	■	■	■	■	■	■
Boolean alarm logic	–	–	–	–	–	–	–	–
Memory for data logging	–	–	256KB	256KB	256KB	256KB	256KB	256KB
Communications								
Serial ports with modbus protocol	–	1	1	1	–	–	1	–
Ethernet port with Modbus TCP protocol	–	–	–	–	1	1	–	1
BACnet/IP protocol	–	–	–	–	■	■	–	■
EtherNet/IP protocol	–	–	–	–	–	–	–	–
DNP3.0 over Ethernet	–	–	–	–	–	–	–	–
Onboard web server with web pages	–	–	–	–	–	–	–	–
Serial to Ethernet gateway	–	–	–	–	–	–	–	–
Short ref. numbers	PM5100	PM5110	PM5310	PM5310R	PM5320	PM5320R	PM5330	PM5340
(See table below for complete commercial reference numbers)								

NOTE: **PM5310R** and **PM5320R** must be used with Schneider Electric's "Quick Click" 3-in-1 LVCTs

PM5000 series

PM5000 series feature selection

	PM5500					PM5600		PM5700
	PM5560	PM5563	PM5563RD	PM5570	PM5580	PM5650	PM5660	PM5760
Installation								
Fast installation, panel mount with integrated display	■	–	–	■	■	■	■	■
Fast installation, DIN rail mountable	–	■	■	–	–	–	–	–
Accuracy	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S	CL 0.2S
Display								
Backlit LCD, multilingual, bar graphs, 6 lines, 4 concurrent values	■	–	■	■	■	■	■	■
Power and energy metering								
3-ph voltage, current, power, demand, energy, frequency, power factor	■	■	■	■	■	■	■	■
Multi-tariff	8	8	8	8	8	8	8	8
MID ready compliance, EN50470-1/3, Annex B & Annex D Class C	PM5561	–	–	–	–	–	PM5661	PM5761
Power quality analysis								
THD, thd, TDD	■	■	■	■	■	■	■	■
Harmonics, individual (odd) up to	63rd	63rd	63rd	63rd	63rd	63rd	63rd	63rd
Waveform capture & sag/swell detection	–	–	–	–	–	8 cycles @ 128 samples/cycle	–	8 cycles @ 128 samples/cycle
I/Os and relays								
I/Os	4DI/2DO	4DI/2DO	4DI/2DO	2DI/2DO	4DI/2DO	4DI/2DO	2DI/2DO	2DI/2DO
Relays	0	0	0	0	0	0	0	0
Analog inputs	0	0	0	2	0	0	0	0
Residual Current inputs	0	0	0	0	0	0	2	2
Alarms and control								
Alarms	52	52	52	50	52	54	54	56
Set point response time, seconds	1	1	1	1	1	1	1	1
Single and multi-condition alarms	■	■	■	■	■	■	■	■
Boolean alarm logic	■	■	■	■	■	■	■	■
Memory for data logging	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB	1.1 MB
Communications								
Serial ports with modbus protocol	1	1	1	1	1	1	1	1
Ethernet port with Modbus TCP protocol	2★	2★	2★	2★	2★	2★	2★	2★
BACnet/IP protocol	■	■	■	■	■	■	■	■
EtherNet/IP protocol	■	■	■	■	■	■	■	■
DNP3.0 over Ethernet	■	■	■	■	■	■	■	■
Onboard web server with web pages	■	■	■	■	■	■	■	■
Serial to Ethernet gateway	■	■	■	■	■	■	■	■
Short ref. numbers	PM5560	PM5563	PM5563RD	PM5570	PM5580	PM5650	PM5660	PM5760
(See table below for complete commercial reference numbers)								

★ 2 Ethernet ports for daisy chain, one IP address.

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700
Use on LV and MV systems				■		
Basic metering with THD and min/max readings				■		
Instantaneous rms values						
Current	per phase, neutral and ground (PM5500)			■		
Voltage	Total, per phase L-L and L-N			■		
Frequency				■		
Real, reactive, and apparent power	Total and per phase			Signed, Four Quadrant		
True Power Factor	Total and per phase			Signed, Four Quadrant		
Displacement PF	Total and per phase			Signed, Four Quadrant		
% Unbalanced I, V L-N, V L-L				■		
Direct monitoring of neutral current				■		
Energy values						
Accumulated Active, Reactive and Apparent Energy				Received/Delivered; Net and absolute; Time Counters		
Demand value						
Current average				Present, Last, Predicted, Peak, and Peak Date Time		
Active power				Present, Last, Predicted, Peak, and Peak Date Time		
Reactive power				Present, Last, Predicted, Peak, and Peak Date Time		
Apparent power				Present, Last, Predicted, Peak, and Peak Date Time		
Peak demand with timestamping D/T for current and powers				■		
Demand calculation	Sliding, fixed and rolling block, thermal methods			■		
Synchronisation of the measurement window to input, communication command or internal clock				■		
Settable Demand intervals				■		
Demand synchronization with pulse input			■			
Other measurements						
I/O timer				■		
Operating timer				■		
Load timer				■		
Alarm counters and alarm logs				■		
Power quality measurements						
THD, thd (Total Harmonic Distortion) I, VLN, VLL				I,VLN, VLL		
TDD (Total Demand Distortion)				■		
Individual harmonics (odds)		15th (PM5110)	31st	63rd		
Neutral Current metering with ground current calculation				■		
Waveform capture and sag/swell detection				8 cycles @ 128 samples/cycle		
Data recording						
Min/max of instantaneous values, plus phase identification★				■		
Alarms with 1s timestamping★				■		
Data logging			2 fixed parameters kWh and kVAh with configurable interval & duration (e.g. 2 parameters for 60 days at 15-minute intervals)	Up to 14 selectable parameters with configurable interval and duration (e.g. 6 parameters for 90 days at 15-minute intervals)		
Min/max log		■	■	■		
Maintenance, alarm and event logs			■	■		
Customisable data logs				■		

★*Stored in non-volatile memory*

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700
Inputs / Outputs / Mechanical Relays						
Digital inputs			2	4 in PM5560, PM5563, PM5580, PM5650 2 in PM5570, PM5660, PM5760		
Digital outputs		1 (kWh only)	2	2		
Form A Relay outputs			2			
Analog inputs				2 for PM5570		
Residual Current inputs					2 for PM5660	2 for PM5760
Timestamp resolution in seconds		1	1	1	1	1
Whetting source			24 V DC, 8 mA			
Type of measurement: True rms on three-phase (3P, 3P + N)		64 samples per cycle		128 samples per cycle		
Measurement accuracy	IEC 61557-12	PMD/[SD|SS]/K70/0.5		PMD/[SD|SS]/K70/0.2		
	Active Energy	Class 0.5S as per IEC 62053-22		Class 0.2S as per IEC 62053-22		
	Reactive Energy	Class 2 as per IEC 62053-23		Class 2 as per IEC 62053-23		
	Active Power	Class 0.5 as per IEC 61557-12		Class 0.2 as per IEC 61557-12		
	Apparent Power	Class 0.5 as per IEC 61557-12				
	Current, Phase	Class 0.5 as per IEC 61557-12 ±0.15 %				
	Voltage, L-N	Class 0.5 as per IEC 61557-12 ±0.1 %				
	Frequency	±0.005 %				
	Power Factor	±0.005 count				
	MID Directive EN50470-1, EN50470-3	Annex B and Annex D (Optional model references) Class C				
Input-voltage (up to 1.0 MV AC max, with voltage transformer)	Nominal Measured Voltage range	20 V L-N / 35 V L-L to 400 V L-N /690 V L-L absolute range 35 V L-L to 760 V L-L		20 V L-N / 20 V L-L to 400 V L-N /690 V L-L absolute range 20 V L-L to 828 V L-L		
	Impedance	5 MΩ				
	Frequency nom	50 or 60 Hz ±5 %		50 or 60 Hz ±10 %		
Input-current (configurable for 1 or 5 A secondary CTs)	I nom	5 A				
	Measured Amps with over range and Crest Factor	Starting current: 5 mA Operating range: 50 mA to 8.5 A		Starting current: 5 mA Operating range: 50 mA to 10 A		
	Withstand	Continuous 20 A, 10 s/hr 50 A, 1s/hr 500 A				
	Impedance	< 0.3 mΩ				
	Frequency nom	50 or 60 Hz ±5 %		50 or 60 Hz ±10 %		
	Burden	<0.026 VA at 8.5 A				
AC control power	Operating range	100 - 277 V AC L-N / 415 V L-L +/-10 % CAT III 300V class per IEC 61010		100-480 V AC ±10 % CAT III 600V class per IEC 61010		
	Burden	<5 W,11 VA at 415V L-L		<5W/16.0 VA at 480 V AC		
	Frequency	45 to 65 Hz				
	Ride-through time	80 mS typical at 120V AC and maximum burden. 100 mS typical at 230 V AC and maximum burden 100 mS typical at 415 V AC and maximum burden		35 ms typical at 120 V L-N and maximum burden 129 ms typical at 230 V L-N and maximum burden		
DC control power	Operating range	125–250 V DC ±20 % (100 to 300 V DC)				
	Burden	<4 W at 250 V DC		typical 3.1W at 125 V DC, max. 5W		
	Ride-through time	50 mS typical at 125 V DC and maximum burden				
LV DC control power	20-60 V DC ±10 % CAT III Burden 4.1 W max.			■ PM5580		

PM5000 series

PM5000 technical specifications

			PM5100	PM5300	PM5500	PM5600	PM5700
Outputs	Relay	Max output frequency		0.5 Hz maximum (1 second ON / 1 second OFF - min times)			
		Switching current		250 V AC at 8.0 Amps, 25 k cycles, resistive 30 V DC at 2.0 Amps, 75 k cycles, resistive 30 V DC at 5.0 Amps, 12.5 k cycles, resistive			
		Isolation		2.5 kV rms			
		Max load voltage	40 V DC		30 V AC / 40 V DC PM5570, PM5560, PM5561, PM5760, PM5761		
		Max load current	20 mA		125 mA		
		On Resistance	50 Ω max		8 Ω		
		Meter constant	from 1 to 9,999,999 pulses per kWh				
		Pulse width for Digital Output	50 % duty cycle				
		Pulse frequency for Digital Output	25 Hz max.				
		Leakage current	0.03 micro Amps		1 micro Amps		
		Isolation	5 kV rms		2.5 kV rms		
	Optical outputs	Pulse width (LED)	200 ms				
		Pulse frequency	2.5 kHz. max		2.5 kHz. max		
		Meter constant	from 1 to 9,999,999 pulses per k_h				
Status Inputs	ON Voltage			18.5 to 36 V DC	30 V AC / 60 V DC max		
	OFF Voltage		0 to 4 V DC				
	Input Resistance			110 k Ω	100 k Ω		
	Maximum Frequency			2 Hz (T ON min = T OFF min = 250 ms)	25 Hz (T ON min = T OFF min = 20 ms)		
	Response Time			20 ms			
	Opto Isolation			5 kV rms	2.5 kV rms		
	Whetting output			24 V DC/ 8 mA max			
	Input Burden			2mA @24V DC	2 mA @ 24 V AC/DC		
Analog inputs					4 - 20 mA DC (nominal) Accuracy: 1% of full-scale reading < 20 ohm Operating voltage: 24 V DC max		
Residual Current inputs						5 uA to 1,200 uA (nominal), 1,500 uA max (continuous)Input type: AC 45 to 65 Hz Burden: 150 ohms Default toroid: 1000 turns	

Mechanical characteristics						
Product weight	380 g	430 g	450 g	450 g	450 g
IP degree of protection (IEC 60529)	IP54 front display, IP30 rear side, IP65 front side with Optional accessory kit METSEIP65OP96X96FF.				
Dimensions W x H x D [protrusion from cabinet]	96 x 96 x 72 mm (77 mm for PM5500) (depth of meter from housing mounting flange) [13 mm]				
Mounting position	Vertical				
Panel thickness	6 mm maximum				

PM5000 series

PM5000 technical specifications

		PM5100	PM5300	PM5500	PM5600	PM5700
Environmental characteristics						
Operating temperature	Operating temperature	-25 °C to 70 °C				
	Display (Display functions to -25 ° C with reduced performance)	-25 °C to 70 °C				
Storage temp.		-40 °C to 85 °C				
Humidity range		5 to 95 % RH at 50 °C (non-condensing)				
Pollution degree		2				
Altitude		2000 m CAT III / 3000 m CAT II		3000 m max. CAT III		
Electromagnetic compatibility						
Harmonic current emissions		IEC 61000-3-2				
Flicker emissions		IEC 61000-3-3				
Electrostatic discharge		IEC 61000-4-2				
Immunity to radiated fields		IEC 61000-4-3				
Immunity to fast transients		IEC 61000-4-4				
Immunity to surge		IEC 61000-4-5				
Conducted immunity 150 kHz to 80 MHz		IEC 61000-4-6				
Immunity to magnetic fields		IEC 61000-4-8				
Immunity to voltage dips		IEC 61000-4-11				
Radiated emissions		FCC part 15, EN 55022 Class B				
Conducted emissions		FCC part 15, EN 55022 Class B				
Safety						
Europe		CE, as per IEC 61010-1 Ed. 3, IEC 62052-11 & IEC 61557-12				
U.S. and Canada		cULus as per UL 61010-1 (3rd Edition)				
Measurement category (Voltage & Current inputs)		CAT III up to 400 V L-N / 690 V L-L				
Dielectric		As per IEC/UL 61010-1 Ed. 3				
Protective Class		II, Double insulated for user accessible parts				
Communication						
RS-485 port Modbus RTU, Modbus ASCII (7 or 8 bit), JBUS		2-Wire, 9600,19200 or 38400 baud, Parity - Even, Odd, None, 1 stop bit if parity Odd or Even, 2 stop bits if None; (Optional in PM51x and PM53x)				
Ethernet port: 10/100 Mbps; Modbus TCP/IP			1 Optional	2 (daisy chain only, 1 IP address)		
Native Ethernet/IP & DNP3.0 over Ethernet				Yes	Yes	Yes
Firmware and language file update		Meter firmware update via the communication ports				
Isolation		2.5 kVrms, double insulated				
Human machine interface						
Display type		Monochrome Graphics LCD				
Resolution		128 x 128				
Backlight		White LED				
Viewable area (W x H)		67 x 62.5 mm				
Keypad		4-button				
Indicator Heartbeat / Comm activity		Green LED				
Energy pulse output / Active alarm (configurable)		Optical, amber LED				
Wavelength		590 to 635 nm				
Maximum pulse rate		2.5 kHz				

PM5000 series commercial reference numbers

Comm ref numbers	Description
METSEPM5100	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 15th harmonic, no communication, 1DO
METSEPM5110	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 15th harmonic, RS-485 Modbus, 1DO
METSEPM5111	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 15th harmonic, RS-485 Modbus, 1DO, MID certified.
METSEPM5310	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO
METSEPM5310R	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, RS-485 Modbus, 2DI/2DO
METSEPM5320	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO
METSEPM5320R	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, Ethernet, 2DI/2DO
METSEPM5330	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay
METSEPM5331	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay, MID certified.
METSEPM5340	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay
METSEPM5341	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay, MID certified.
METSEPM5560	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 4DI/2DO
METSEPM5561	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, MID certified.
METSEPM5562	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, HW lockable, 4DI/2DO
METSEPM5562MC	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, factory sealed, 4DI/2DO
METSEPM5563	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, DIN mount, no display, 4DI/2DO
METSEPM5563RD	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, DIN mount, remote display, 4DI/2DO
METSEPM5570	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 2DI/2DO/2AI
METSEPM5580	Power Meter range 77 mm depth, control power 24-60 VDC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 4DI/2DO
METSEPM5650	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, waveform capture and sag/swell, 1.1 MB, Modbus and Ethernet, 2DI/2DO
METSEPM5660	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM
METSEPM5661	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM, MID certified.
METSEPM5760	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, waveform capture and sag/swell, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM, MID certified.
METSEPM5761	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, waveform capture and sag/swell, 1.1 MB, Modbus and Ethernet, 2DI/2DO, RCM, MID certified.
Residual Current Monitoring Toroids (Vigirex)	
Closed Toroids, A Type	
50437	TA30 - 30 mm inside diameter, Ie (A) 65, 1000 turns
50438	PA50 - 50 mm inside diameter, Ie (A) 85, 1000 turns
50439	IA80 - 80 mm inside diameter, Ie (A) 160, 1000 turns
50440	MA120 - 120 mm inside diameter, Ie (A) 250, 1000 turns
50441	SA200 - 200 mm inside diameter, Ie (A) 400, 1000 turns
50442	GA300 - 300 mm inside diameter, Ie (A) 630, 1000 turns
Accessories for Closed Toroids	
56055	Magnetic ring for TA30 toroid
56056	Magnetic ring for PA50 toroid
56057	Magnetic ring for IA80 toroid
56058	Magnetic ring for MA120 toroid
Split Toroids, OA Type	
50420	TOA80 - 80 mm inside diameter, Ie (A) 160, 1000 turns
50421	TOA120 - 120 mm inside diameter, Ie (A) 250, 1000 turns
56053	L1 - 280 x 115 mm inside diameter, Ie (A) 1600, 1000 turns
56054	L2 - 470 x 160 mm inside diameter, Ie (A) 3200, 1000 turns

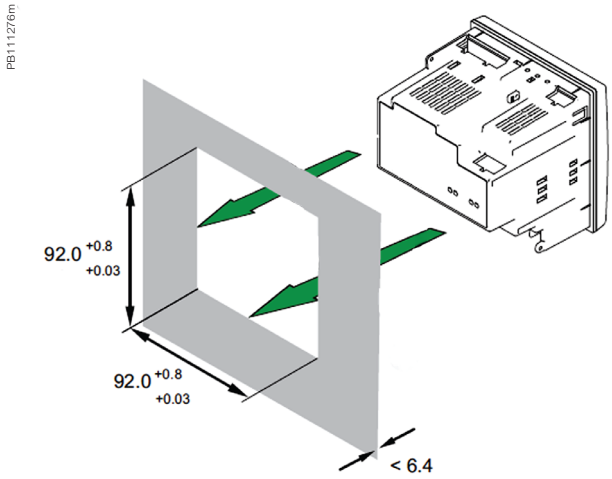
PM5300R series commercial reference numbers

Comm. ref numbers	Description
0.333V 3-in-1 CTs with RJ45 for PM53x0R	
METSECTV25006	LVCT SolidC 3in1 RJ45 25mmCtr 60A:1/3V
METSECTV25010	LVCT SolidC 3in1 RJ45 25mmCtr 100A:1/3V
METSECTV25013	LVCT SolidC 3in1 RJ45 25mmCtr 125A:1/3V
METSECTV25016	LVCT SolidC 3in1 RJ45 25mmCtr 160A:1/3V
METSECTV35006	LVCT SolidC 3in1 RJ45 35mmCtr 60A:1/3V
METSECTV35010	LVCT SolidC 3in1 RJ45 35mmCtr 100A:1/3V
METSECTV35012	LVCT SolidC 3in1 RJ45 35mmCtr 120A:1/3V
METSECTV35013	LVCT SolidC 3in1 RJ45 35mmCtr 125A:1/3V
METSECTV35015	LVCT SolidC 3in1 RJ45 35mmCtr 150A:1/3V
METSECTV35016	LVCT SolidC 3in1 RJ45 35mmCtr 160A:1/3V
METSECTV35020	LVCT SolidC 3in1 RJ45 35mmCtr 200A:1/3V
METSECTV35025	LVCT SolidC 3in1 RJ45 35mmCtr 250A:1/3V
METSECTV45025	LVCT SolidC 3in1 RJ45 45mmCtr 250A:1/3V
METSECTV45030	LVCT SolidC 3in1 RJ45 45mmCtr 300A:1/3V
METSECTV45040	LVCT SolidC 3in1 RJ45 45mmCtr 400A:1/3V
METSECTV45050	LVCT SolidC 3in1 RJ45 45mmCtr 500A:1/3V
METSECTV45060	LVCT SolidC 3in1 RJ45 45mmCtr 600A:1/3V
METSECTV45063	LVCT SolidC 3in1 RJ45 45mmCtr 630A:1/3V
METSECTV29006	LVCT SolidC 3in1 RJ45 29mmCtr 60A:1/3V
METSECTV29010	LVCT SolidC 3in1 RJ45 29mmCtr 100A:1/3V
METSECTV29012	LVCT SolidC 3in1 RJ45 29mmCtr 120A:1/3V
METSECTV29013	LVCT SolidC 3in1 RJ45 29mmCtr 125A:1/3V
METSECTV29015	LVCT SolidC 3in1 RJ45 29mmCtr 150A:1/3V
METSECTV29016	LVCT SolidC 3in1 RJ45 29mmCtr 160A:1/3V
METSECTV29020	LVCT SolidC 3in1 RJ45 29mmCtr 200A:1/3V
METSECTV70080	LVCT SolidC 3in1 RJ45 70mmCtr 800A:1/3V
METSECTV70100	LVCT SolidC 3in1 RJ45 70mmCtr 1000A:1/3V
METSECTV70125	LVCT SolidC 3in1 RJ45 70mmCtr 1250A:1/3V
Cables	
DCEPCURJX5GYM	Category 5e, Patch Cord, UTP, 0.5 M, Grey
DCEPCURJ01GYM	Category 5e, Patch Cord, UTP, 1 M, Grey
DCEPCURJ02GYM	Category 5e, Patch Cord, UTP, 2 M, Grey
DCEPCURJ03GYM	Category 5e, Patch Cord, UTP, 3 M, Grey
DCEPCURJ05GYM	Category 5e, Patch Cord, UTP, 5 M, Grey
DCEPCURJ10GYM	Category 5e, Patch Cord, UTP, 10 M, Grey
Other related products	
METSEPM5RD	Remote display for PM5563
METSEPM51HK	Hardware kit for PM51xx
METSEPM53HK	Hardware kit for PM53xx
METSEPM51_3RSK	Revenue sealing kit for PM51XX & PM53XX
METSEPM55RSK	Revenue sealing kit for PM55XX
METSEPM55HK	Hardware kit for PM55xx
METSEPM5CAB3	Remote Display cable

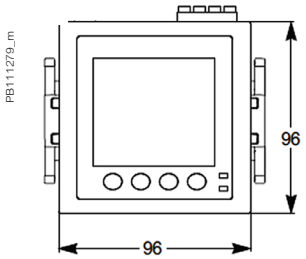
See your Schneider Electric representative for complete ordering information.

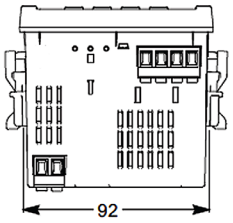
PM5000 series

PM5000 Series meter flush mounting

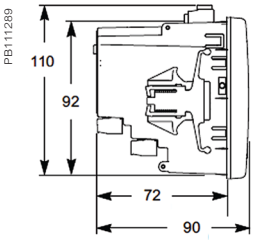


PM5000 series meter dimensions

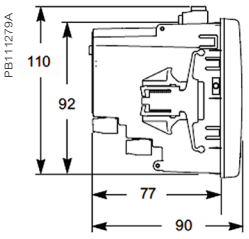




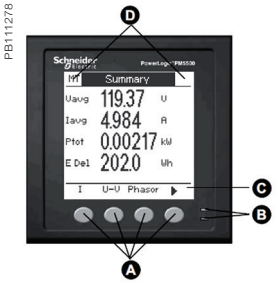
PM5000

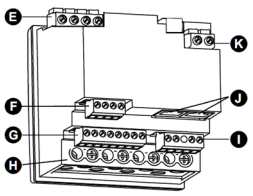


PM5100 / PM5300

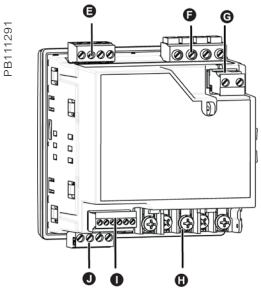


PM5500 / PM5600





PM5500



PM5000 meter parts

A Menu selection buttons
B LED indicators
C Navigation or menu selections
D Maintenance and alarm notification area

PM5500 / PM5600 meter parts

E Voltage inputs
F RS-485 comms
G Digital inputs
H Current inputs
I Digital outputs
J Ethernet ports
K Control power

PM5100 / PM5300 meter parts

E Relay output (PM5300 only)
F Voltage inputs
G Control power
H Current inputs
I Status inputs/digital outputs
J Communications port: Ethernet (PM5300 only) or RS-485)

Please see the appropriate Installation Guide for accurate and complete information on the installation of this product.

PM5350 series

The PowerLogic PM5350 series power meters are the new benchmark in affordable, precision metering.

The PowerLogic PM5350, PM5350IB, PM5350PB, and PM5350P power meters offer all the measurement capabilities required to monitor an electrical installation in a space-efficient, single 96 x 96 mm unit with small depth. DNC certifies for marine applications.

Applications

- Panel instrumentation.
- Cost allocation or energy management
- Electrical installation remote monitoring
- Sophisticated alarming
- Circuit beaker monitoring and control

PB117510

METSEPM5350P

The solution for

Markets that can benefit from a solution that includes PowerLogic PM5350 series meters:

- Buildings
- Industry
- Healthcare
- Data Centre and networks
- Infrastructure

Benefits

System integrators' benefit

- Ease of integration
- Ease of setup
- Cost effectiveness

Panel builders' benefit

- Ease of installation
- Cost effectiveness
- Aesthetically pleasing
- Simplified ordering

End users' benefit

- Ease of use
- Precision metering & sub-billing
- Billing flexibility
- Comprehensive, consistent and superior performance

Competitive advantages

- Easy to install and operate
- Easy for circuit breaker monitoring and control
- Power quality analysis
- Load management combined with alarm and timestamping
- High performance and accuracy
- Multi-tariff capabilities
- Individual harmonics up to 31st

Power management solutions

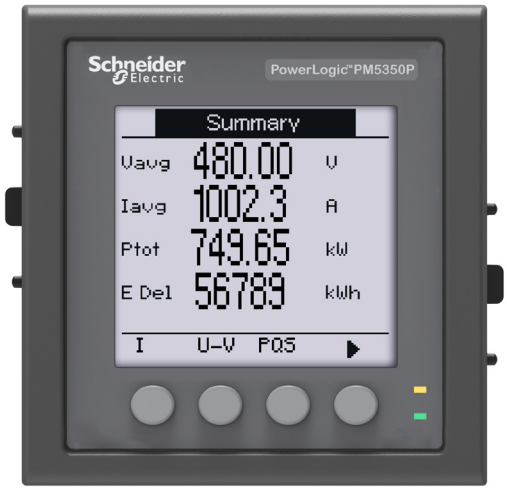
Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

- IEC 62053-22
- IEC 61557-12
- IEC 62053-23
- IEC/UL 61010-1
- IEC 61326-1
- UL 61010-1
- IEC 61000-3-3
- FCC part 15 Class A
- DNV GL certified

PM5350 series

PB117511



Front display of PowerLogic PM5350P front display

PB117512

Rear view of PowerLogic PM5350P

Commercial reference number	Description
METSEPM5350	RS-485 Modbus, THD, 4DI, 2Relay
METSEPM5350IB	RS-485, 4DI/2Relay, Multi-level alarm, UL480V, 4DI/2Relay
METSEPM5350PB	RS-485, 4DI/2Relay, Multi-level alarm, UL300V, 4DI/2Relay
METSEPM5350P	RS-485 Modbus, THD, 31st Individual harmonics, Multi-tariff, 4DI/2Relay

The PowerLogic PM5350 series power meter soffer electrical installation measurement capabilities in a single 96 x 96 mm unit. Three-phases and neutral can be monitored simultaneously using a bright, anti-glare display with large characters and backlighting. Menus are intuitive and the meter supports English, Chinese, Hebrew, and Spanish languages. Its compact size and high performance make the PowerLogic PM5350 sereis is suitable for many applications.

- Applications
  - Panel instrumentation.
  - Cost allocation or energy management.
  - Electrical installation remote monitoring.
  - Alarming with under/over, digital status, control power interruption, meter reset, self diagnostic issue.
  - Circuit Breaker monitoring and control with relay outputs and whetted digital inputs.
- Main characteristics
  - Easy to install
    - Mounts using two clips, no tools required. Ultra compact meter with 44 mm depth connectable up to 480 V L-L without voltage transformers for installations compliant with category III, as per IEC 61010-1. See specification table for UL voltage limits.
  - Easy to operate
    - Intuitive navigation with self-guided, language selectable menus, six lines, four concurrent values. Two LEDs help confirm normal operation.
  - Easy circuit breaker monitoring and control
    - Two relay outputs (high performance) to command most circuit breaker coils directly. Monitored switches can be wired directly without external power supply.
  - System status at a glance
    - Bright, anti-glare, backlit display plus two LEDs; orange for energy pulse or alarm and green for heartbeat/communications indication.
  - IEC 62053-22 class 0.5S accuracy for active energy
    - Accurate energy measurement for cost allocation.
  - Power Quality analysis
    - The PM5350P offers THD and TDD measurements as standard. Total Demand Distortion is based on a point of common coupling (PCC), which is a common point that each user receives power from the power source. The TDD compares the contribution of harmonics versus the maximum demand load. In addition, it has individual harmonics (odd) measurement up to 31st harmonics. These types of power quality parameters help to identify the source of harmonics that can harm transformers, capacitors, generators, motors and electronic equipment.
- Load management
  - Peak demands with Timestamping are provided. Predicted demand values can be used in basic load shedding applications.
    Alarming with timestamping
  - Over 30 alarm conditions, such as under/over conditions, digital input changes, and phase unbalance inform you of events. A time-stamped log maintains a record of the last 40 alarm events.
  - Load timer setpoint adjustable to monitor and advise maintenance requirements.
  - Performance Standard Meets IEC 61557-12 PMD/Sx/K70/0.5.

PM5350 series

Feature guide		PM5350P	PM5350	PM5350IB	PM5350PB
General					
Use on LV and MV systems			■		
Basic metering with THD and min/max readings			■		
Instantaneous rms values					
Current	Total, Phases and neutral		■		
Voltage	Total, Ph-Ph and Ph-N		■		
Frequency			■		
Real, reactive, and apparent power	Total and per phase		Signed		
True Power Factor	Total and per phase		Signed, Four Quadrant		
Displacement PF	Total and per phase		Signed, Four Quadrant		
Unbalanced I, VL-N, VL-L			■		
Accumulated Active, Reactive and Apparent Energy Stored in non-volatile memory		Received/Delivered; Net and absolute;			
Demand values					
Current average	Present, Last, Predicted, Peak, & Peak Date Time		■		
Active power	Present, Last, Predicted, Peak, & Peak Date Time		■		
Reactive power	Present, Last, Predicted, Peak, & Peak Date Time		■		
Apparent power	Present, Last, Predicted, Peak, & Peak Date Time		■		
Multi-tariff		16 tariffs			
Peak demand with timestamping D/T for current & powers			■		
Demand calculation	Sliding, fixed and rolling block, thermal		■		
Synchronization of the measurement window			■		
Other measurements					
I/O timer			■		
Operating timer			■		
Active load timer			■		
Alarm counters			■		
Power quality measurements					
THD, thd (Total Harmonic Distortion)			I, V L-N, V L-L		
TDD, thd (Total Demand Distortion)			■		
Harmonics Individual (Odd)		31st			
Data recording					
Min/max of instantaneous values, plus phase identification			■		
Alarms with 1s timestamping			Standard 29; Unary 4; Digital 4		
Alarms stored in non-volatile memory			40 events		
Inputs/Outputs					
Digital inputs			4 (DI1, DI2, DI3, DI4)		
Digital outputs			2 relay outputs (DO1, DO2)		
Display					
White backlit LCD display, 6 lines, 4 concurrent values			■		
IEC or IEEE visualization mode			■		
Communication					
Modbus RTU, Modbus ASCII, Jbus Protocol			■		
Firmware update via RS-485 serial port (DLF3000 via the Schneider Electric website: www.se.com)			■		

PM5350 series

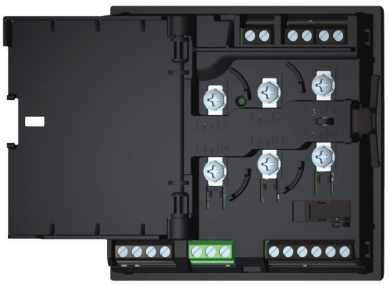
Electrical characteristics			PM5350	PM5350P	PM5350PB/IB
Type of measurement		True rms measurement in 1P, 2P, 3P network, supports 13 wiring schemes. 32 samples per cycle, zero blind	■	31st	■
Measurement accuracy	Current, Phase(1)	±0.30 %	■	0.2% (Avg A)	■
	Voltage, L-N (1)	±0.30 %	■	0.2% (Avg A)	■
	Power Factor (1)	±0.005	■		
	Power, Phase(2)	IEC 61557-12 Class 0.5; For 5 A nominal CT	■		
	Frequency (1)	±0.05 %	■		
	Real Energy(3)	IEC 62053-22 Class 0.5S IEC 61557-12 Class 0.5	■		
	Reactive Energy(4)	IEC 62053-23 Class 2 IEC 61557-12 Class 2	■		
Data update rate		1 second nominal (50/60 cycles)	■		
Input-voltage	VT primary	1.0 MV AC max, starting voltage depends on VT ratio	■		
	U_{nom}	277 V L-N	■		
	Measured voltage with overrange & Crest Factor	IEC: 20 to 480 V AC L-L; 20 to 277 V AC L-N, CAT III IEC: 20 to 690 V AC L-L; 20 to 400 V AC L-N, CAT II UL: 20 to 300 V AC L-L, CAT III	■		■ and UL: 20 to 480 V AC L-L
	Permanent overload	700 V AC L-L, 404 V AC L-N	■		
	Impedance	10 MΩ	■		
	Burden	0.2 VA at 240 V AC L-N	■		
	Frequency range	45 to 70 Hz	■	45 to 65 Hz	■
Input-current	CT ratings Secondary	1 A, 5 A nominal	■		
	Measured voltage with overrange & crest factor	5 mA to 9 A	■		
	Withstand	Continuous 20 A,10 sec/hr 50 A,1 sec/hr 500 A	■		
	Impedance	< 0.3 mΩ	■		
	Frequency range	45 to 70 Hz	■		
	Burden	< 0.024 VA at 9 A	■		
AC control power	Operating range	85 - 265 V AC	■		
	Burden	At 120 V AC, 4.1 VA/ 1.5 W typical At 230 V AC, 6.3 VA/ 2.0 W typical At 265 V AC, 9.6 VA/ 3.5 W typical	6.7 VA / 2.7 W 8.6 VA / 2.9 W 11.9 VA / 3.5 W	7 VA / 4 W 9 VA / 5 W 11.9 VA / 5 W	6.7 VA / 2.7 W 8.6 VA / 2.9 W 11.9 VA / 3.5 W
	Frequency	45 to 65 Hz	■		
	Ride-through time	Typical at 120 V AC and with maximum burden Typical at 230 V AC and with maximum burden	100 mS 400 mS	40 mS 250 mS	100 mS 400 mS
DC control power	Operating range	100 to 300 V DC	■		
	Burden	Typical/ Maximum at 125 V DC Typical/ Maximum at 250 V DC Typical Maximum at 300 V DC	1.4 W / 2.6 W 1.8 W / 2.7 W 3.8 W max	4 W max 5 W max 5 W max	1.4 W / 2.6 W 1.8 W / 2.7 W 3.8 W max
	Ride-through time	Typical at 125 V DC and with maximum burden	50 mS	30 mS	50 mS
Real time clock	Battery backup	30 seconds ride-through	■	3 years backup without control power	■
Digital output	Number/Type	2 - Mechanical Relays	■		
	Output frequency	0.5 Hz maximum (1 second ON / 1 second OFF - minimum times)	■		
	Switching Current	30 V DC, 5 A 250 V AC, 8 A Cos φ = 1 250 V AC, 6 A Cos φ = 0.4	■		
	Isolation	2.5 kVrms	■		
Status Digital Inputs	Voltage ratings	ON 18.5 to 36 V DC, OFF 0 to 4 V DC	■		
	Input Resistance	110 k Ω	■		
	Maximum Frequency	2 Hz (T ON min = T OFF min = 250 ms)	■		
	Response Time	10 ms	■		
	Isolation	2.5 kVrms	■		
Whetting output	Nominal voltage	24 V DC	■		
	Allowable load	4 mA	■		
	Isolation	2.5 kVrms	■		

(1) Measurements taken from 45 Hz to 65 Hz, 0.5 A to 9 A, 57 V to 347 V & 0.5 ind to 0.5 cap power factor with a sinusoidal wave.
(2) Active power: ±0.5 % from 0.25 A to 9.0 A at Cos φ = 1, ±0.6 % from 0.50 A to 9.0 A at Cos φ = 0.5 (ind or cap)
(3) Real/active Energy: ±0.5 % from 0.25 A to 9.0 A at Cos φ = 1, ±0.6 % from 0.50 A to 9.0 A at Cos φ = 0.5 (ind or cap) IEC 61557-12 Class 0.5
(4) Reactive energy: ±2.0 % from 0.25 A to 9.0 A at Sin φ = 1±2.5 % from 0

PM5350 / PM5350P series

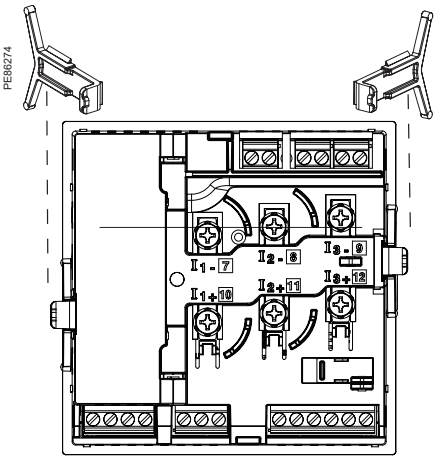
Rear of meter - open

PE86279



Rear view retainers - installation

PE86274



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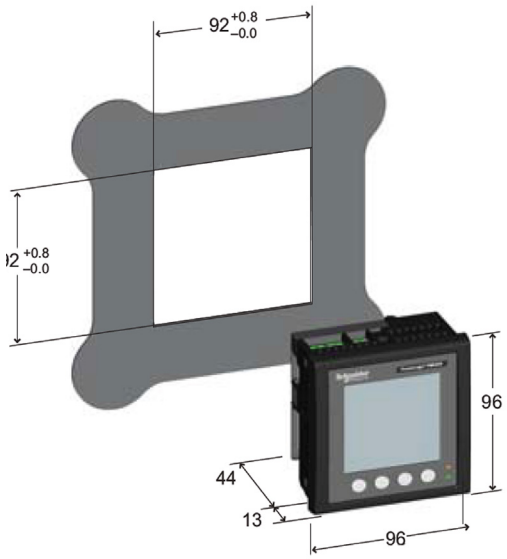
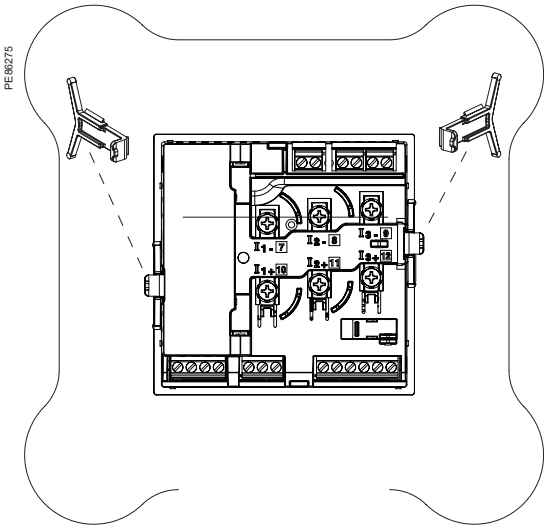


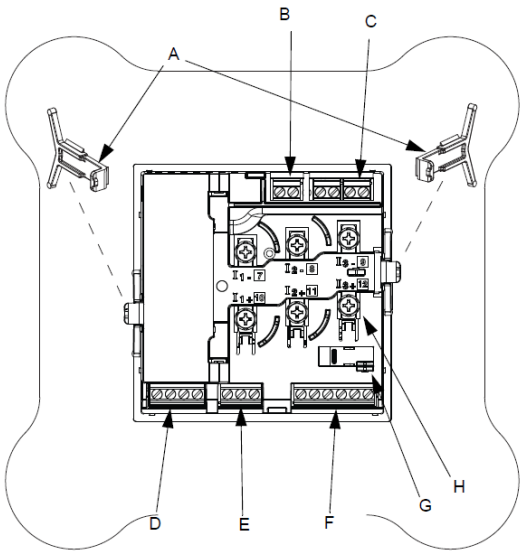
Rear view retainers - users

PE86275



For detailed installation instructions see the product's Installation Guide.

PB113626

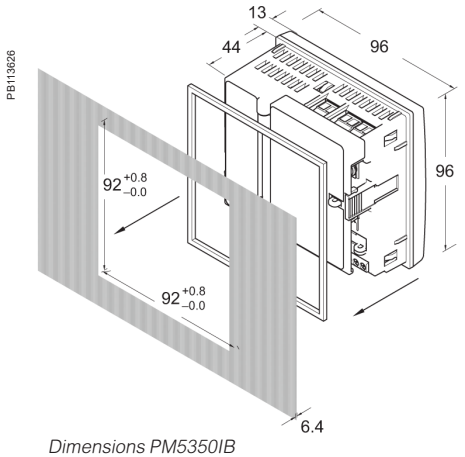


PM5350 / PM5350P meter parts

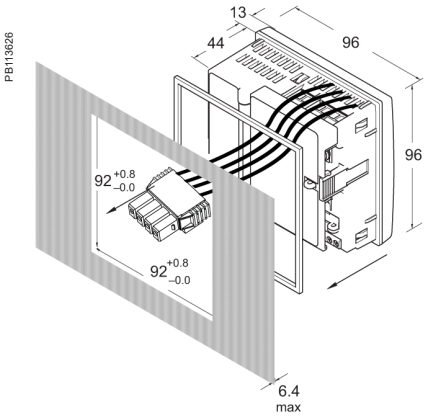
A Retainer clips.
B Control power supply connector.
C Voltage inputs.
D Digital outputs.
E RS-485 port (COM1).
F Digital input.
G Optical revenue switch.
H Current inputs.

For detailed installation instructions see the product's Installation Guide.

PM5350IB/PB series

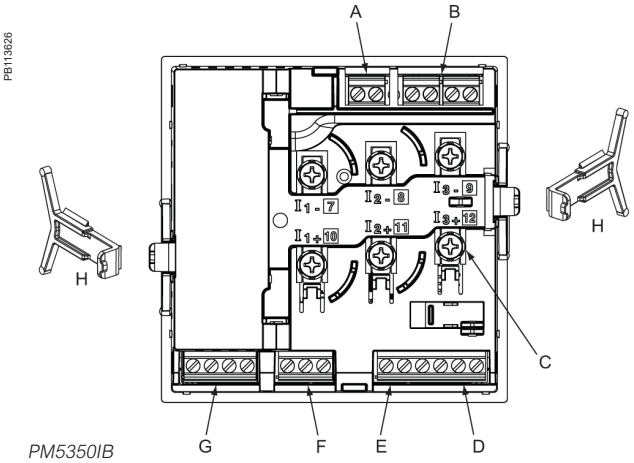


Dimensions PM5350IB

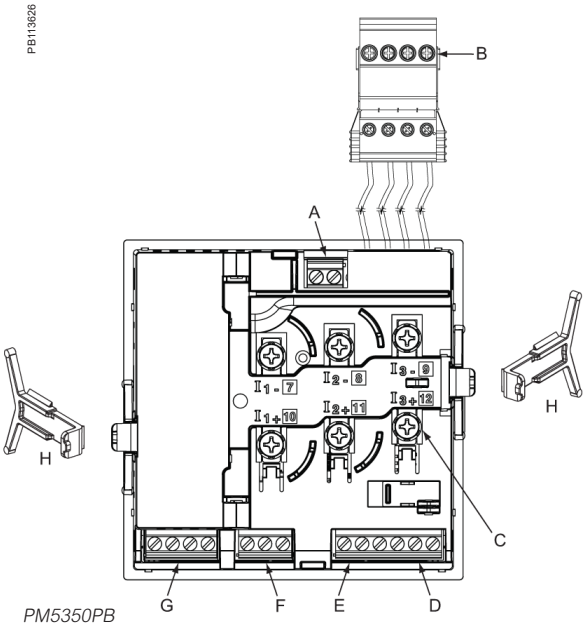


Dimensions PM5350PB

Parts of PM5350IB and PM5350PB (rear panel door removed)

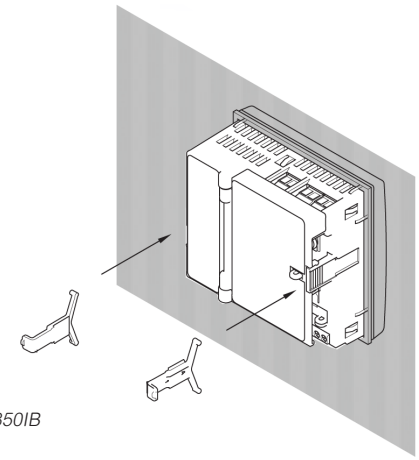


PM5350IB

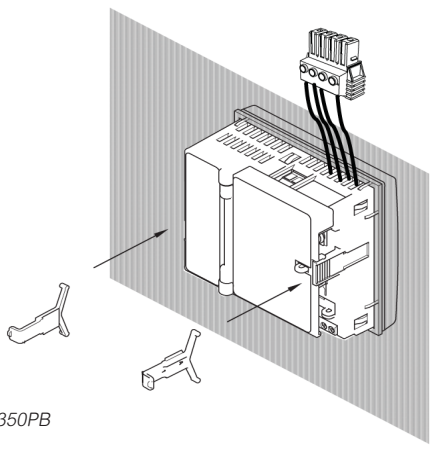


PM5350PB

A Control power
B Voltage inputs
C Current inputs
D Digital inputs
E Whetting voltage source (for digital inputs)
F RS-485 communications
G Digital outputs
H Retainer clips



PM5350IB



PM5350PB

For detailed installation instructions see the product's Installation Guide.

Commercial reference numbers

PowerLogic Commercial Reference Numbers

Commercial ref. no.	Description	Page
	Frame 5	
METSECT5HM030	IEC Split Core CT Cable 300/5 A 2.5 VA cl.1	
METSECT5HM040	IEC Split Core CT Cable 400/5 A 5 VA cl.1	
METSECT5HM050	IEC Split Core CT Cable 500/5 A 5 VA cl.1	
METSECT5HM060	IEC Split Core CT Cable 600/5 A 2.5 VA cl.0.5	
METSECT5HM075	IEC Split Core CT Cable 750/5 A 2.5 VA cl.0.5	
METSECT5HM080	IEC Split Core CT Cable 800/5 A 2.5 VA cl.0.5	
	Frame 6	
METSECT5HP025	IEC Split Core CT Cable 250/5 A 1.5 VA cl.1	
METSECT5HP030	IEC Split Core CT Cable 300/5 A 2.5 VA cl.1	
METSECT5HP040	IEC Split Core CT Cable 400/5 A 5 VA cl.1	
METSECT5HP050	IEC Split Core CT Cable 500/5 A 5 VA cl.1	
METSECT5HP060	IEC Split Core CT Cable 600/5 A 5 VA cl.1	
METSECT5HP075	IEC Split Core CT Cable 750/5 A 5 VA cl.1	
METSECT5HP080	IEC Split Core CT Cable 800/5 A 5 VA cl.1	
METSECT5HP100	IEC Split Core CT Cable 1000/5 A 5 VA cl.1	
	Busbar Type G	
	Frame 7	
METSECT5GA010	IEC CT Split Core Busbar 100/5 A 1.25 VA cl.3	
METSECT5GA015	IEC CT Split Core Busbar 150/5 A 1.5 VA cl.3	
METSECT5GA020	IEC CT Split Core Busbar 200/5 A 2.5 VA cl.3	
METSECT5GA025	IEC CT Split Core Busbar 250/5 A 1.5 VA cl.1	
METSECT5GA030	IEC CT Split Core Busbar 300/5 A 3.75 VA cl.1	
METSECT5GA040	IEC CT Split Core Busbar 400/5 A 1 VA cl.0.5	
	Frame 8	
METSECT5GD025	IEC CT Split Core Busbar 250/5 A 1.5 VA cl.1	
METSECT5GD030	IEC CT Split Core Busbar 300/5 A 2.5 VA cl.1	
METSECT5GD040	IEC CT Split Core Busbar 400/5 A 1 VA cl.0.5	
METSECT5GD050	IEC CT Split Core Busbar500/5 A 2.5 VA cl.0.5	
METSECT5GD060	IEC CT Split Core Busbar 600/5 A 2.5 VA cl.0.5	
METSECT5GD075	IEC CT Split Core Busbar 750/5 A 2.5 VA cl.0.5	
METSECT5GD080	IEC CT Split Core Busbar 800/5 A 2.5 VA cl.0.5	
METSECT5GD100	IEC CT Split Core Busbar 1000/5 A 5 VA cl.0.5	
	Frame 9	
METSECT5GG025	IEC CT Split Core Busbar 250/5 A 1.5 VA cl.1	
METSECT5GG030	IEC CT Split Core Busbar 300/5 A 2.5 VA cl.1	
METSECT5GG040	IEC CT Split Core Busbar 400/5 A 2.5 VA cl.1	
METSECT5GG050	IEC CT Split Core Busbar 500/5 A 2.5 VA cl.0.5	
METSECT5GG060	IEC CT Split Core Busbar 600/5 A 2.5 VA cl.0.5	
METSECT5GG075	IEC CT Split Core Busbar 750/5 A 2.5 VA cl.0.5	
METSECT5GG080	IEC CT Split Core Busbar 800/5 A 2.5 VA cl.0.5	
METSECT5GG100	IEC CT Split Core Busbar 1000/5 A 5 VA cl.0.5	
METSECT5GG120	IEC CT Split Core Busbar 1200/5 A 5 VA cl.0.5	
METSECT5GG125	IEC CT Split Core Busbar 1250/5 A 7.5 VA cl.0.5	
METSECT5GG150	IEC CT Split Core Busbar 1500/5 A 7.5 VA cl.0.5	
	Frame 10	
METSECT5GJ100	IEC CT Split Core Busbar 1000/5 A 10 VA cl.0.5	
METSECT5GJ120	IEC CT Split Core Busbar 1200/5 A 10 VA cl.0.5	
METSECT5GJ150	IEC CT Split Core Busbar 1500/5 A 10 VA cl.0.5	
METSECT5GJ160	IEC CT Split Core Busbar 1600/5 A 10 VA cl.0.5	
METSECT5GJ200	IEC CT Split Core Busbar 2000/5 A 10 VA cl.0.5	
METSECT5GJ250	IEC CT Split Core Busbar 2500/5 A 10 VA cl.0.5	
METSECT5GJ300	IEC CT Split Core Busbar 3000/5 A 15 VA cl.0.5	
METSECT5GJ400	IEC CT Split Core Busbar 4000/5 A 15 VA cl.0.5	

Commercial ref. no.	Description	Page
	Rogowski CTs	23
METSECTR30500	Rogowski CT, 250 mm core length, 96 mm dia.	
METSECTR46500	Rogowski CT, 250 mm core length, 146 mm dia.	
METSECTR60500	Rogowski CT, 250 mm core length, 191 mm dia.	
METSECTR90500	Rogowski CT, 250 mm core length, 287 mm dia.	
	0.333 V 3-in-1 CTs with RJ45 for PM53xR	
METSECTV25006	LVCT SolidC 3in1 RJ45 25mmCtr 60A:1/3V	
METSECTV25010	LVCT SolidC 3in1 RJ45 25mmCtr 100A:1/3V	
METSECTV25013	LVCT SolidC 3in1 RJ45 25mmCtr 125A:1/3V	
METSECTV25016	LVCT SolidC 3in1 RJ45 25mmCtr 160A:1/3V	
METSECTV35006	LVCT SolidC 3in1 RJ45 35mmCtr 60A:1/3V	
METSECTV35010	LVCT SolidC 3in1 RJ45 35mmCtr 100A:1/3V	
METSECTV35012	LVCT SolidC 3in1 RJ45 35mmCtr 120A:1/3V	
METSECTV35013	LVCT SolidC 3in1 RJ45 35mmCtr 125A:1/3V	
METSECTV35015	LVCT SolidC 3in1 RJ45 35mmCtr 150A:1/3V	
METSECTV35016	LVCT SolidC 3in1 RJ45 35mmCtr 160A:1/3V	
METSECTV35020	LVCT SolidC 3in1 RJ45 35mmCtr 200A:1/3V	
METSECTV35025	LVCT SolidC 3in1 RJ45 35mmCtr 250A:1/3V	
METSECTV45025	LVCT SolidC 3in1 RJ45 45mmCtr 250A:1/3V	
METSECTV45030	LVCT SolidC 3in1 RJ45 45mmCtr 300A:1/3V	
METSECTV45040	LVCT SolidC 3in1 RJ45 45mmCtr 400A:1/3V	
METSECTV45050	LVCT SolidC 3in1 RJ45 45mmCtr 500A:1/3V	
METSECTV45060	LVCT SolidC 3in1 RJ45 45mmCtr 600A:1/3V	
METSECTV45063	LVCT SolidC 3in1 RJ45 45mmCtr 630A:1/3V	
METSECTV29006	LVCT SolidC 3in1 RJ45 29mmCtr 60A:1/3V	
METSECTV29010	LVCT SolidC 3in1 RJ45 29mmCtr 100A:1/3V	
METSECTV29012	LVCT SolidC 3in1 RJ45 29mmCtr 120A:1/3V	
METSECTV29013	LVCT SolidC 3in1 RJ45 29mmCtr 125A:1/3V	
METSECTV29015	LVCT SolidC 3in1 RJ45 29mmCtr 150A:1/3V	
METSECTV29016	LVCT SolidC 3in1 RJ45 29mmCtr 160A:1/3V	
METSECTV29020	LVCT SolidC 3in1 RJ45 29mmCtr 200A:1/3V	
METSECTV70080	LVCT SolidC 3in1 RJ45 70mmCtr 800A:1/3V	
METSECTV70100	LVCT SolidC 3in1 RJ45 70mmCtr 1000A:1/3V	
METSECTV70125	LVCT SolidC 3in1 RJ45 70mmCtr 1250A:1/3V	
	Panel Instruments	24
	DIN rail analog ammeters, voltmeters	25
16029	0-30 A no 8	
16030	X/5 8	
16031	0-5 A	
16032	0-50 A 50/5	
16033	0-75 A 75/5	
16034	0-100 A 100/5	
16035	0-150 A 150/5	
16036	0-200 A 200/5	
16037	0-250 A 250/5	
16038	0-300 A 300/5	
16039	0-400 A 400/5	
16040	0-500 A 500/5	
16041	0-600 A 600/5	
16042	0-800 A 800/5	
16043	0-1000 A 1000/5	
16044	0-1500 A 1500/5	
16045	0-2000 A 2000/5	
16060	0-300 V 8	
16061	0-500 V 8	

PowerLogic Commercial Reference Numbers

Commercial ref. no.	Description	Page
	DIN rail digital ammeters, voltmeter, freq meter	26
15202	Direct reading iAMP 0-10 A No 4	
15209	Multi-rating iAMP 0-5000 A As per rating 4	
15201	iVLT 0-600 V 4	
15208	iFRE 20-100 Hz 4	
	72x72 analog ammeter, voltmeter	27
16003	AMP for motor feeder	
16004	AMP for standard feeder X/5	
16009	AMP for standard feeder 0-50 A 50/5	
16010	AMP for standard feeder 0-100 A 100/5	
16011	AMP for standard feeder 0-200 A 200/5	
16012	AMP for standard feeder 0-400 A 400/5	
16013	AMP for standard feeder 0-600 A 600/5	
16014	AMP for standard feeder 0-1000 A 1000/5	
16015	AMP for standard feeder 0-1250 A 1250/5	
16016	AMP for standard feeder 0-1500 A 1500/5	
16019	AMP for standard feeder 0-2000 A 2000/5	
16003	AMP for motor feeder X/5	
16006	AMP for motor feeder 0-30-90 A 30/5	
16007	AMP for motor feeder 0-75-225 A 75/5	
16008	AMP for motor feeder 0-200-600 A 200/5	
16005	VLT 0-500 V	
	96x96 analog ammeter, voltmeter	28
16074	AMP for standard feeder X/5	
16079	AMP for standard feeder 0-50 A 50/5	
16080	AMP for standard feeder 0-100 A 100/5	
16081	AMP for standard feeder 0-200 A 200/5	
16082	AMP for standard feeder 0-400 A 400/5	
16083	AMP for standard feeder 0-600 A 600/5	
16084	AMP for standard feeder 0-1000 A 1000/5	
16085	AMP for standard feeder 0-1250 A 1250/5	
16086	AMP for standard feeder 0-1500 A 1500/5	
16087	AMP for standard feeder 0-2000 A 2000/5	
16088	AMP for standard feeder 0-2500 A 2500/5	
16089	AMP for standard feeder 0-3000 A 3000/5	
16090	AMP for standard feeder 0-4000 A 4000/5	
16091	AMP for standard feeder 0-5000 A 5000/5	
16092	AMP for standard feeder 0-6000 A 6000/5	
16073	AMP for motor feeder X/5	
16076	AMP for motor feeder 0-30-90 A 30/5	
16077	AMP for motor feeder 0-75-225 A 75/5	
16078	AMP for motor feeder 0-200-600 A 200/5	
16075	VLT 0-500 V	
	48x48 CMA, CMV selector switches	29
16017	CMA 20 4	
16018	CMV 500 7	
	DIN rail iCMA, iCMV selector switches	30
15126	iCMA 10 415 4	
15125	iCMV 10 415 4	
	iCH hour counter	31
15440	iCH "DIN" 230 V AC ± 10 %/50 Hz 4mm	
15607	CH "48 x 48" 24 V AC ± 10 %/50 Hz	
15608	CH "48 x 48" 230 V AC ± 10 %/50 Hz	
15609	CH "48 x 48" 12 to 36 V DC	
	iCI impulse counter	32
15443	iCI 4mm impulse counter DIN	
	Basic Energy Metering	35
	iEM2000	36
A9MEM2000T	iEM2000T basic energy meter, no display	
A9MEM2000	iEM2000 basic energy meter	
A9MEM2010	iEM2010 energy meter, kWh pulse output	
A9MEM2100	iEM2100 basic energy meter	

Commercial ref. no.	Description	Page
A9MEM2050	iEM2050 modular single phase power meter 230 V - 45 A with Modbus	
A9MEM2055	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID	
A9MEM2105	iEM2105 energy meter, kWh pulse output with partial meter	
A9MEM2110	iEM2110 energy meter, kWh and kvarh pulse outputs with two tariffs, four quadrant energy measurement, MID certified	
A9MEM2135	iEM2135 energy meter, M-Bus communication, four quadrant energy measurement, two tariffs, MID certified	
A9MEM2150	iEM2150 energy meter, Modbus communication, four quadrant energy measurement	
A9MEM2155	iEM2155 energy meter, Modbus communication, four quadrant energy measurement, two tariffs, MID certified	
	iEM3000	43
A9MEM3100	iEM3100 basic energy meter	
A9MEM3110	iEM3110 energy meter with pulse output	
A9MEM3115	iEM3115 multi-tariff energy meter	
A9MEM3135	iEM3135 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port	
A9MEM3150	iEM3150 energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3155	iEM3155 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3165	iEM3165 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3175	iEM3175 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port	
A9MEM3200	iEM3200 basic energy meter	
A9MEM3210	iEM3210 energy meter with pulse output	
A9MEM3215	iEM3215 multi-tariff energy meter	
A9MEM3235	iEM3235 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port	
A9MEM3250	iEM3250 energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3255	iEM3255 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port	
A9MEM3265	iEM3265 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3275	iEM3275 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port	
A9MEM3300	iEM3300 basic energy meter	
A9MEM3310	iEM3310 energy meter with pulse output	
A9MEM3335	iEM3335 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port	
A9MEM3350	iEM3350 energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3355	iEM3355 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port	
A9MEM3365	iEM3365 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3375	iEM3375 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port	
A9MEM3455	iEM3455 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3465	iEM3465 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
A9MEM3555	iEM3555 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port	
A9MEM3565	iEM3565 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port	
	LVCTs	46
LVCT00050S	CT, split-core, Size 0, 50 A to 0.333 V	
LVCT00101S	CT, split-core, Size 1, 100 A to 0.333 V	
LVCT00201S	CT, split-core, Size 1, 200 A to 0.333 V	
LVCT00102S	CT, split-core, Size 2, 100 A to 0.333 V	
LVCT00202S	CT, split-core, Size 2, 200 A to 0.333 V	
LVCT00302S	CT, split-core, Size 2, 300 A to 0.333 V	
LVCT00403S	CT, split-core, Size 3, 400 A to 0.333 V	

PowerLogic Commercial Reference Numbers

Commercial ref. no.	Description	Page
LVCT00603S	CT, split-core, Size 3, 600 A to 0.333 V	
LVCT00803S	CT, split-core, Size 3, 800 A to 0.333 V	
LVCT00804S	CT, split-core, Size 4, 800 A to 0.333 V	
LVCT01004S	CT, split-core, Size 4, 1000 A to 0.333 V	
LVCT01204S	CT, split-core, Size 4, 1200 A to 0.333 V	
LVCT01604S	CT, split-core, Size 4, 1600 A to 0.333 V	
LVCT02004S	CT, split-core, Size 4, 2000 A to 0.333 V	
LVCT02404S	CT, split-core, Size 4, 2400 A to 0.333 V	
	PM3000	50
METSEPM3200	PM3200 basic power meter	
METSEPM3210	PM3210 power meter with pulse output	
METSEPM3250	PM3250 power meter with RS485 port	
METSEPM3255	PM3255 power meter plus 2 digital inputs, 2 digital outputs with RS-485 port	
	PowerTag Energy	56
A9MEM1520	PowerTag Energy M63 1P+W	
A9MEM1521	PowerTag Energy M63 1P+N Top	
A9MEM1522	PowerTag Energy M63 1P+N Bottom	
A9MEM1540	PowerTag Energy M63 3P	
A9MEM1541	PowerTag Energy M63 3P+N Top	
A9MEM1542	PowerTag Energy M63 3P+N Bottom	
A9MEM1543	PowerTag Energy M63 3P 230 V LL	
A9MEM1560	PowerTag Energy F63 1P+N	
A9MEM1561	PowerTag Energy P63 1P+N Top	
A9MEM1562	PowerTag Energy P63 1P+N Bottom	
A9MEM1563	PowerTag Energy P63 1P+N B RCBO	
A9MEM1564	PowerTag Energy F63 1P+N 110 V	
A9MEM1570	PowerTag Energy F63 3P+N	
A9MEM1571	PowerTag Energy P63 3P+N Top	
A9MEM1572	PowerTag Energy P63 3P+N Bottom	
A9MEM1573	PowerTag Energy F63 3P	
A9MEM1574	PowerTag Energy F63 3P+N 127/220 V	
A9MEM1580	PowerTag Energy F160 3P / 3P+N	
A9MEM1590	PowerTag Energy R200 3P / 3P+N	
A9MEM1591	PowerTag Energy R600 3P / 3P+N	
A9MEM1592	PowerTag Energy R1000 3P / 3P+N	
A9MEM1593	PowerTag Energy R2000 3P / 3P+N	
LV434020	PowerTag Energy M250 3P	
LV434021	PowerTag Energy M250 3P+N	
LV434022	PowerTag Energy M630 3P	
LV434023	PowerTag Energy M630 3P+N	
R9M20	PowerTag Energy R9 M63 1P+W	
R9M21	PowerTag Energy R9 M63 1P+N Top	
R9M22	PowerTag Energy R9 M63 1P+N Bottom	
R9M40	PowerTag Energy R9 M63 3P	
R9M41	PowerTag Energy R9 M63 3P+N Top	
R9M42	PowerTag Energy R9 M63 3P+N Bottom	
R9M43	PowerTag Energy R9 M63 3P 230 V LL	
R9M60	PowerTag Energy R9 F63 1P+N	
R9M70	PowerTag Energy R9 F63 3P+N	
	Wireless Products	**95**
	PowerTag Control	**96**
A9XMC2D3	PowerTag C 2DI 230V digital input module	
	HeatTag	**100**
SMT10020	HeatTag smart sensor cable overheating	
	Basic Multi-Function Metering	**103**
	PM5000	104
METSEPM5100	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 15th harmonic, no communication, 1DO	
METSEPM5110	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 15th harmonic, RS-485 Modbus, 1DO	
METSEPM5111	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 15th harmonic, RS-485 Modbus, 1DO, MID cert	

Commercial ref. no.	Description	Page
METSEPM5310	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO	
METSEPM5310R	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, RS-485 Modbus, 2DI/2DO	
METSEPM5320	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO	
METSEPM5320R	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RJ45 LVCT, Ethernet, 2DI/2DO	
METSEPM5330	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay	
METSEPM5331	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, RS-485 Modbus, 2DI/2DO, 2Relay, MID cert	
METSEPM5340	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay	
METSEPM5341	Power Meter range 72 mm depth, control power to 415 V AC, Cl 0.5S, 31st harmonic, 256 kB, Ethernet, 2DI/2DO, 2Relay, MID cert	
METSEPM5560	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, 4DI/2DO	
METSEPM5561	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, Modbus and Ethernet, MID cert	
METSEPM5562	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, HW lockable, 4DI/2DO	
METSEPM5562MC	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, RMICAN approved, factory sealed, 4DI/2DO	
METSEPM5563*	Power Meter range 77 mm depth, control power to 480 V AC, Cl 0.2S, 63rd harmonic, 1.1 MB, DIN mount, no display, 4DI/2DO	
METSEPM5563RD*	PM5500 power meter, ETH-serial + 4DI-2DO out, remote display	
METSEPM5RD*	Remote display for PM5563 power meter	
***METSEPM5563RD includes both METSEPM5563 and METSEPM5RD**		
METSEPM51HK	Hardware kit for PM51XX (voltage, current, comms & IO connectors + moulding clips)	
METSEPM53HK	Hardware kit for PM53XX (voltage, current, comms & IO connectors + moulding clips)	
METSEPM51_3RSK	Revenue sealing kit for PM51XX & PM53XX (sealing covers for voltage & current connectors)	
METSEPM55HK	Hardware kit for PM55XX (voltage, current, comms & IO connectors & moulding clips)	
METSEPM55RSK	Revenue sealing kit for PM55XX (sealing covers for voltage & current connectors)	
	Cables	115
METSEPM5CAB3	Remote Display cable	
DCEPCURJX5GYM	Category 5e, Patch Cord, UTP, 0.5 M, Grey	
DCEPCURJ01GYM	Category 5e, Patch Cord, UTP, 1 M, Grey	
DCEPCURJ02GYM	Category 5e, Patch Cord, UTP, 2 M, Grey	
DCEPCURJ03GYM	Category 5e, Patch Cord, UTP, 3 M, Grey	
DCEPCURJ05GYM	Category 5e, Patch Cord, UTP, 5 M, Grey	
DCEPCURJ10GYM	Category 5e, Patch Cord, UTP, 10 M, Grey	
	PM5350/PM5350IB/PM5350PB/PM5350P	119
METSEPM5320	PM5320 Power & Energy meter with THD, alarming	
METSEPM5340	PM5320 Power & Energy meter with THD, alarming	
METSEPM5350	PM5350 Power & Energy meter with THD, alarming	
METSEPM5350PB/IB	PM5350PB/IB	
METSEPM5350P	PM5350 Power & Energy meter with THD, alarming, multi-tariff and individual harmonics	

For any enclosure or product configuration not listed, please see your Schneider Electric Representative for complete ordering information.

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