

Product datasheet

Specifications



Molded case circuit breaker,
PowerPacT 4, 3P, Icu 36kA,
MicroLogic 5.2E electronic trip unit,
100A rating

PP41003X36ML5

EAN Code : 5018934030210

Main

Range of product	PowerPacT 4
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
[In] rated current	100 A at 40 °C
[Ue] rated operational voltage	415 V AC 50/60 Hz
Suitability for isolation	Yes conforming to BS EN 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	36 kA Icu at 415 V AC 50/60 Hz
Performance level	F
Trip unit name	MicroLogic 5.2 E
Trip unit technology	Electronic
Trip unit protection functions	LSI
Control type	Toggle
Circuit breaker mounting mode	Panel-mounted

Complementary

[Ui] rated insulation voltage	800 V
[Uimp] rated impulse withstand voltage	8 kV
[Ics] rated service short-circuit breaking capacity	36 kA at 415 V AC 50/60 Hz
Mechanical durability	50000 cycles
Electrical durability	50000 cycles at 440 V In/2 30000 cycles at 440 V In
Power dissipation per pole	4.7 W
Mounting support	Backplate
Mounting position	Horizontal and vertical
Number of modules	3 module(s)35 mm
Protection type	L : for overload protection (thermal)

	S : for short time short-circuit protection I : for instantaneous short-circuit protection
Trip unit rating	100 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
[Ir] long-time protection pick-up adjustment range	40...100 A
Long-time protection delay adjustment type tr	Fixed
[Tr] long-time protection delay adjustment range	400 s at 1.5 x Ir 16 s at 6 x Ir 11 s at 7.2 x Ir
Thermal memory	20 minutes before and after tripping
Short-time protection pick-up adjustment type Isd	Adjustable
[Isd] Short-time protection pick-up adjustment range	1.5...10 x Ir
Short-time protection delay adjustment type tsd	Adjustable
[Tsd] Short-time protection delay adjustment range	0...0.4 s I²t=off 0.1...0.4 s I²t=on
Instantaneous protection pick-up adjustment type li	Adjustable
[li] instantaneous protection pick-up adjustment range	1.5...15 x In
Earth-leakage protection	Without
Zone selective interlocking ZSI	With
Contact position indicator	Yes
Local signalling	Flashing LED (green) for ready to operate LED 90 % Ir (orange) for pre-alarm indicator LED 105 % Ir (red) for overload
Display type	LCD display
Type of measurement	Energy meter
Communication of data	Energy metering Protection and alarm settings Time-stamped histories and event tables Instantaneous and demand values Demand current and power Power quality Maintenance indicators Maximeters/minimeters
Width	105 mm
Depth	86 mm
Height	161 mm
Net weight	2.05 kg
Product destination	250 A panelboard 400/630 A panelboard
Colour	Grey
Environment	
Standards	BS EN 60947-2
Electrical shock protection class	Class II
Pollution degree	3 conforming to EN/IEC 60664-1
IP degree of protection	IP40 conforming to EN/IEC 60529

IK degree of protection	IK07 conforming to EN/IEC 62262
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Operating altitude	0...2000 m without derating 2000...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12 cm
Package 1 Width	25.5 cm
Package 1 Length	26 cm
Package 1 Weight	3.416 kg
Unit Type of Package 2	PAM
Number of Units in Package 2	96
Package 2 Height	112 cm
Package 2 Width	100 cm
Package 2 Length	120 cm
Package 2 Weight	347.916 kg

Contractual warranty

Warranty	18 months
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Recommended replacement(s)