

Product datasheet

Specifications



Molded case circuit breaker,
PowerPacT 4, 4P, Icu 36kA,
MicroLogic 2.2 electronic trip unit,
160A rating

PP41604X36ML2

EAN Code : 5018934030814

Main

Range of product	PowerPacT 4
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
[In] rated current	160 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 2.2
Trip unit technology	Electronic
Trip unit protection functions	LSol
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	40000 cycles
Electrical durability	40000 cycles at 440 V In/2 20000 cycles at 440 V In
Power dissipation per pole	9.2 W
Mounting support	Backplate
Mounting position	Horizontal and vertical
Number of modules	4 module(s)35 mm
Protection type	L : for overload protection (thermal)

	So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection
Trip unit rating	160 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
[Ir] long-time protection pick-up adjustment range	63...160 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
Neutral protection settings	1 x Ir (4D) 0.5 x Ir (3D + N/2) No protection (3D)
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	Fixed
Instantaneous protection pick-up adjustment type li	Fixed
[li] instantaneous protection pick-up adjustment range	2400 A
Earth-leakage protection	Without
Zone selective interlocking ZSI	Without
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
Width	140 mm
Depth	86 mm
Height	161 mm
Net weight	2.6 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	16.5 cm
Package 1 Width	25 cm
Package 1 Length	37 cm
Package 1 Weight	4.8 kg
Unit Type of Package 2	PAM
Number of Units in Package 2	60
Package 2 Height	112 cm
Package 2 Width	100 cm
Package 2 Length	120 cm
Package 2 Weight	308 kg

Contractual warranty

Warranty	18 months
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Recommended replacement(s)