

# Product datasheet

Specifications



## Molded case circuit breaker, PowerPacT 4, 4P, Icu 36kA, MicroLogic 5.2E electronic trip unit, 160A rating

PP41604X36ML5

EAN Code: 5018934030821

### 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 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	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) S : for short time short-circuit protection I : for instantaneous short-circuit protection
Trip unit rating	160 A at 40 °C
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable

<b>[Ir] long-time protection pick-up adjustment range</b>	63...160 A
<b>Long-time protection delay adjustment type tr</b>	Fixed
<b>[tr] long-time protection delay adjustment range</b>	400 s at 1.5 x Ir 16 s at 6 x Ir 11 s at 7.2 x Ir
<b>Neutral protection settings</b>	1 x Ir (4D) 0.5 x Ir (3D + N/2) No protection (3D) 1.6 x Ir (3D + OSN)
<b>thermal memory</b>	20 minutes before and after tripping
<b>Short-time protection pick-up adjustment type Isd</b>	Adjustable
<b>[Isd] Short-time protection pick-up adjustment range</b>	1.5...10 x Ir
<b>Short-time protection delay adjustment type tsd</b>	Adjustable
<b>[tsd] Short-time protection delay adjustment range</b>	0...0.4 s I <sup>2</sup> t=off 0.1...0.4 s I <sup>2</sup> t=on
<b>Instantaneous protection pick-up adjustment type Ii</b>	Adjustable
<b>[Ii] instantaneous protection pick-up adjustment range</b>	1.5...15 x In
<b>Earth-leakage protection</b>	Without
<b>Zone selective interlocking ZSI</b>	With
<b>Contact position indicator</b>	Yes
<b>Local signalling</b>	Flashing LED (green) for ready to operate LED 90 % Ir (orange) for pre-alarm indicator LED 105 % Ir (red) for overload
<b>Display type</b>	LCD display
<b>Type of measurement</b>	Energy meter
<b>Communication of data</b>	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
<b>Width</b>	140 mm
<b>Depth</b>	86 mm
<b>Height</b>	161 mm
<b>Product weight</b>	2.6 kg
<b>Product destination</b>	250 A panelboard 400/630 A panelboard
<b>Colour</b>	Grey

## Environment

<b>Standards</b>	BS EN 60947-2
<b>Electrical shock protection class</b>	Class II
<b>Pollution degree</b>	3 conforming to EN/IEC 60664-1
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>IK degree of protection</b>	IK07 conforming to EN/IEC 62262
<b>Ambient air temperature for operation</b>	-25...70 °C

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Ambient air temperature for storage	-50...85 °C
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Operating altitude	0...2000 m without derating 2000...5000 m with derating
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## Packing Units

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Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	16.000 cm
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Package 1 Width	25.000 cm
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Package 1 Length	37.000 cm
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Package 1 Weight	4.848 kg
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Unit Type of Package 2	P12
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Number of Units in Package 2	48
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Package 2 Height	112.000 cm
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Package 2 Width	80.000 cm
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Package 2 Length	120.000 cm
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Package 2 Weight	252.704 kg
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## Contractual warranty

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Warranty	18 months
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Image of product / Alternate images

Alternative

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