

Product datasheet

Specifications



external power supply module 380 – 415 V AC - 24 V - 1 A

LV454445

⚠ Discontinued on: 31 Mar 2021

⚠ Discontinued

Main

Product or component type	External power supply module
Device application	Power supply
Range compatibility	Masterpact MasterPact NT circuit breaker Masterpact MasterPact NW circuit breaker ComPact ComPact NS circuit breaker ComPact ComPact NSX circuit breaker ComPact ComPact NSX DC circuit breaker PowerPact PowerPact Multistandard circuit breaker Masterpact MasterPact MTZ1 circuit breaker Masterpact MasterPact MTZ2 circuit breaker Masterpact MasterPact MTZ3 circuit breaker PowerPact PowerPact H circuit breaker PowerPact PowerPact J circuit breaker PowerPact PowerPact L circuit breaker PowerPact PowerPact P circuit breaker PowerPact PowerPact R circuit breaker
Accessory / separate part type	Control units accessories Trip unit accessories

Complementary

Trip unit name	MicroLogic
Power supply type	Regulated switch mode
[Us] rated supply voltage	380...415 V AC 50/60 Hz tolerance: +10 % -15 %
Input voltage limits	323...456.5 V AC at 47.5...63 Hz
Output voltage	24 V DC +/- 5 %
Overvoltage category	IV conforming to IEC 62477-1 III conforming to UL 61010-1
Power supply output current	1 A
Rated power in W	24 W
Output protection type	Against overload, protection technology: manual reset Against overvoltage, protection technology: 30...32 V, manual reset Against short-circuits, protection technology: manual reset Thermal, protection technology: automatic reset
Inrush current	20 A 2 ms
Efficiency	85 %
Power dissipation in W	4.2 W
Holding time	>= 20 ms 380...415 V AC
Permissible temporary current boost	1.5 A (200 ms)
Connections - terminals	Screw type terminals, connection capacity: 2 x 0.2...2 x 1.5 mm ² AWG 24...AWG 16 Screw type terminals, connection capacity: 1 x 0.2...1 x 4 mm ² AWG 24...AWG 12

Mounting support	35 x 7.5 mm symmetrical DIN rail
Operating position	Horizontal
Operating altitude	0...2000 m
Name of test	Electrostatic discharges conforming to EN/IEC 61000-4-2 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Magnetic field conforming to EN 61000-4-8 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5 Radiated emissions conforming to EN 61000-6-3 Conducted emissions on the power line conforming to EN 61000-6-3
Status LED	1 LED (green) output voltage
Height	90 mm
Width	108 mm
Depth	67.5 mm

Environment

Standards	UL 61010-1 IEC 62477-1
Marking	UL CE EAC
Environmental characteristic	EMC conforming to EN/IEC 61000-6-2 EMC conforming to EN/IEC 61000-6-3 Safety conforming to IEC 62477-1 Safety conforming to SELV
IP degree of protection	IP4X (front face) conforming to EN/IEC 60529 IP2X (connection terminals) conforming to EN/IEC 60529 IP3x (housing) conforming to EN/IEC 60529
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 % during operation 0...95 % in storage
Dielectric strength	3000 V between input and ground 3000 V between input and output 1500 V between output and ground
Compatibility code	CB_EXTERNAL_POWERSUPPLY

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.9 cm
Package 1 Width	9 cm
Package 1 Length	10.8 cm
Package 1 Weight	0.35 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	61 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	51 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.6 kg CO2 eq.

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins