

Product data sheet

Characteristics

LV454441

external power supply module, input voltage 48 V DC to 60 V DC, output voltage 24 V DC, output current 1 A



Main

Product or component type	External power supply module
Device application	Power supply
Range compatibility	Masterpact MasterPact MTZ Masterpact MasterPact NT Masterpact MasterPact NW ComPact ComPact NSX ComPact ComPact NSX DC ComPact ComPact NS630b...1600 ComPact ComPact NS1600b...3200 PowerPact PowerPact H PowerPact PowerPact J PowerPact PowerPact L PowerPact PowerPact P PowerPact PowerPact R
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	48...60 V DC tolerance: +/- 20 %
Input voltage limits	38.4...72 V DC
Output voltage	24 V DC +/- 5 %
Overvoltage category	III 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	80 %
Power dissipation in W	4.5 W
Holding time	>= 20 ms 48...60 V DC
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 61000-4-29 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	EAC CE UL
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	3680 V between input and ground 3680 V between input and output 1840 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	7.5 cm
Package 1 Width	11.0 cm
Package 1 Length	12.5 cm
Package 1 Weight	414.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	23
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.9 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <input checked="" type="checkbox"/> EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
----------	-----------