Product data sheet
Characteristics

LV454440
External power supply module, input voltage 24VDC to 30VDC, output voltage 24VDC, output current 1A



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	24...30 V DC tolerance: +/- 20 %
Input voltage limits	19.2...36 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	40 A 2 ms
Efficiency	80 %
Power dissipation in W	4.5 W
Holding time	>= 20 ms 24...30 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 mm² 24 AWG...16 AWG Screw type terminals, connection capacity: 1 x 0.2...1 x 4 mm² 24 AWG...12 AWG
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 UL CE
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 Cm
Package 1 Length	12.5 Cm
Package 1 Weight	414 G
Unit Type of Package 2	S03
Number of Units in Package 2	23
Package 2 Height	30 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	9.8 Kg

Offer Sustainability

Recyclability potential, in %	2
Total lifecycle Carbon footprint	67 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	10.8969275675675
Carbon footprint of the manufacturing phase [A1 to A3]	11 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0662232162162162
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.164928648648648
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	54.9332142857142
REACh free of SVHC	Yes

Carbon footprint of the use phase [B2, B3, B4, B6]	55 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.677113783783783
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	67
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the S
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised