

CM 50-PS-120-230AC/24DC/2,5/F

This product has been replaced by a newer version.

Order No.: 2939425



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2939425>

Power supply unit, primary switched-mode, input 100 V-240 V AC/ 100 V-370 V DC, output 24 V DC/2.5 A, with filter

Commercial data

EAN	4017918163198
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	0.5719 KG

<http://>

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Technical data

Input data

Nominal input voltage	110 V AC ... 240 V AC
AC input voltage range	90 V AC ... 264 V AC
DC input voltage range	100 V DC ... 350 V DC
AC frequency range	47 Hz ... 63 Hz
Current consumption	0.9 A (at 120 V) 0.5 A (at 230 V)
Inrush surge current	< 15 A (at 25°C)
Power failure bypass	20 ms (for 120 V AC) 80 ms (for 230 V AC)

Input fuse	4 A (slow-blow)
Output data	
Number of outputs	1
Nominal output voltage	24 V DC \pm 1%
Setting range of the output voltage	22.5 V DC ... 28.5 V DC
Output current	2.5 A
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Residual ripple	< 200 mVPP (at no-load, typ. 20 mVpp) < 200 mVPP (at nominal load, typ. 20 mVpp)
Peak switching voltages idling	< 200 mVPP (at nominal load, typ. 20 mVpp)
Peak switching voltages nominal load	< 200 mVPP (at nominal load, typ. 20 mVpp)
Maximum power dissipation idling	4 W
Power loss nominal load max.	10 W
General data	
Width	50 mm
Height	130 mm
Depth	102 mm
Weight	0.5 kg
Operating voltage display	LED
Efficiency	> 85 %
Insulation voltage input/output	3 kV (routine test) 5 kV (type test)
Degree of protection	IP20
Class of protection	I, with PE connection
MTBF	> 500000 h in acc. with SN 29500
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	Up to 100 % (at 25°C, device will still start up with condensation)
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	Can be aligned: Vertical with spacing = 10 cm, horizontal with zero spacing

Standard - Electrical safety	EN 60950/VDE 0805
	DIN EN 50178/VDE 0160:1998-04
	UL 508C
	CSA C22.2-14
	UL 1950
	CSA C22.2-950
	DIN VDE 0100-410
	DIN VDE 0106-101

Connection data, input

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M2,5

Connection data, output

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm

Certificates / Approvals



CUL

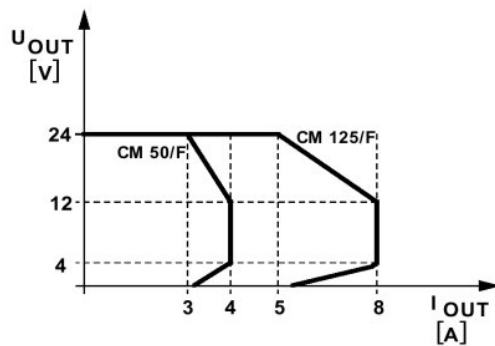
Comments	Output
Nominal voltage U_N	24 V
Nominal current I_N	2.5 A

UL

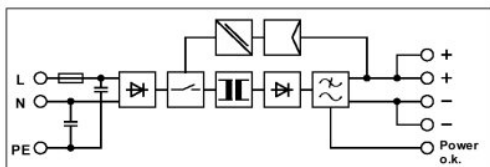
Comments	Output
Nominal voltage U_N	24 V
Nominal current I_N	2.5 A

Drawings

Diagram



Circuit diagram



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