

► General data



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

Order number	2939425
Type	CM 50-PS-120-230AC/24DC/2,5/F
Barcode number	4017918163198
Unit pack	1 Pcs.
Customs tariff	85044094000

► Technical data

Input data

Nominal input voltage	110 V AC ... 240 V AC
Nominal input voltage	100 V DC ... 350 V DC
Input voltage range	90 V AC ... 264 V AC
Input voltage range	90 V DC ... 350 V DC
Frequency range	47 Hz ... 63 Hz
Current consumption	0.9 A (At 120 V)
Current consumption	0.5 A (At 230 V)
Inrush surge current	< 15 A (At 25°C)
Power failure bypass	20 ms (For 120 V AC)
Power failure bypass	80 ms (For 230 V AC)
Input fuse	Slow-blow

Output data

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 mVss (At no-load, typ. 20 mVpp)
Residual ripple	< 200 mVss (At nominal load, typ. 20 mVpp)
Peak switching voltages idling	< 200 mVss (At nominal load, typ. 20 mVpp)
Peak switching voltages nominal load	< 200 mVss (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)
Insulation voltage input/output	5 kV (Type test)
Degree of protection	IP 20
Class of protection	I, with PE connection
MTBF	> 500000 h in acc. with SN 29 500
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Perm. relative humidity (operation)	Up to 100 % (At 25°C, device will still start up with condensation)
Installation position	On horizontal DIN rail NS 35 in acc. with EN 50 022
Assembly instructions	Can be aligned: -vertical with spacing = 10 cm, -horizontal with zero spacing
Standard - Electrical safety	EN 60 950/VDE 0805
Standard - Electrical safety	DIN EN 50 178 / VDE 0160
Standard - Electrical safety	UL 508C, CSA C22.2 No. 14-M91, UL 1950, CSA 22.2 No. 950
Standard - Electrical safety	DIN VDE 0100-410, DIN VDE 0106-101

Connection data, input

Screw thread	M 2,5
Stripping length	8 mm
Type of connection	Screw connection
Min. conductor cross section AWG/kcmil	24
Conductor cross section AWG/kcmil max	14
Min. conductor cross section, rigid	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Max. conductor cross section, flexible	2.5 mm ²

Connection data, output

Stripping length	8 mm
Type of connection	Screw connection
Min. conductor cross section AWG/kcmil	24
Conductor cross section AWG/kcmil max	10
Min. conductor cross section, rigid	0.2 mm ²
Conductor cross section, rigid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Max. conductor cross section, flexible	4 mm ²
Number of outputs	1

► Certificates

CUL

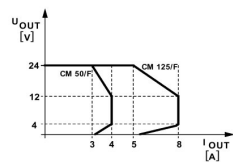
Comments	Output
Nominal voltage U_N	24 V
Nominal current I_N	2.5 A

UL

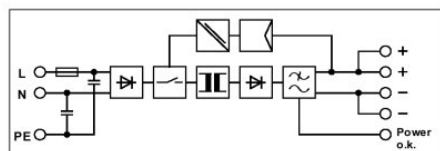
Comments	Output
Nominal voltage U_N	24 V
Nominal current I_N	2.5 A

▸ Drawings

Diagram



Circuit diagram



Approval logo



► Documentation

Data Sheet

5087662.pdf

► Address

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