General data

Power supply unit, primary switched-mode, input 100 V-240 V AC/ 100 V-370 V DC, output 24 V DC/5 A, with filter

Order number	2939522
Type	CM125-PS-120-230AC/24DC/5/F

Barcode number	4017918163204
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
Input voltage range, short-term	85 V AC ... 285 V AC (1 min.)
Input voltage range, short-term	100 V DC ... 400 V DC (1 min.)
Frequency range	47 Hz ... 63 Hz
Current consumption	1.2 A (At 120 V)
Current consumption	0.7 A (At 230 V)
Inrush surge current	< 15 A (At 25°C)
Power failure bypass	> 100 ms (For 110 V AC)
Power failure bypass	> 100 ms (For 230 V AC)
Input fuse	Slow-blow
Name of protection	Transient protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC ±1 %
Setting range of the output voltage	22.5 V ... 28.5 V
Output current	5 A
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Max. capacitive load	unbegrenzt
Control deviation	< 1 %
Control deviation	< 2 %
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	3 W
Power loss nominal load max.	20 W

General data

Width	125 mm
Height	138 mm
Depth	134 mm
Weight	1 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)	100 % (At 25°C, device will still start up with condensation)
Installation position	On horizontal DIN rail NS 35/7.5 in acc. with EN 50 022
Assembly instructions	Can be aligned: -vertical with spacing = 10 cm, -horizontal with zero spacing

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 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Max. conductor cross section, flexible	2.5 mm²

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 mm²
Conductor cross section, rigid max.	4 mm²
Conductor cross section flexible min.	0.2 mm²
Max. conductor cross section, flexible	4 mm²
Number of outputs	1

Certificates

CUL

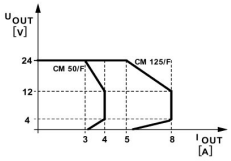
Comments	Output
Nominal voltage U_N	24 V
Nominal current I_N	5 A

UL

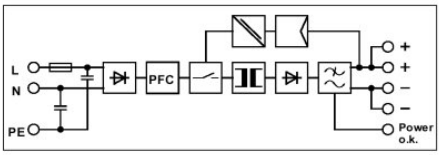
Comments	Output
Nominal voltage U_N	24 V
Nominal current I_N	5 A

Drawings

Diagram



Circuit diagram



Approval logo

Address

Phoenix Contact GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel + 49 - (0) 52 35 - 3-00
Fax + 49 - (0) 52 35 - 3-4 12 00
www.phoenixcontact.com

© Phoenix Contact
Technical modifications reserved