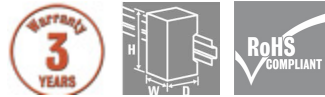


CP M SNT3 500W 24V 20A



PRO-M = Power-Reliable-Optimized

The perfectly reliable power supply for automation technology.

The ten different versions for the 24V-DC power supply all feature a solid but thin metal housing which enables them to be installed without any side gaps. This results in less space required on the mounting rail. Wide range of AC/DC inputs and a wide temperature range enable them to be used anywhere. Because of its high efficiency, resistance to overloads and high power reserves, the PRO-M is a trusted power supply for use in any application. The three-phase PRO-M power supply modules continue to function reliably when one phase fails (i.e., in two-phase mode).

General ordering data

Order No.	8951410000
Type	CP M SNT3 500W 24V 20A
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4032248742622
Qty.	1 pc(s).

CP M SNT3 500W 24V 20A
Technical data
Dimensions and weights

Width	121 mm	Height	130 mm
Depth	150 mm	Weight	2.2 kg
Net weight	2,309 g		

Temperatures

Operating temperature	-25 °C...+70 °C	Storage temperature	-40 °C...+85 °C
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Input

AC current consumption	0.9 A @ 3 x 500 V AC / 0.95 A @ 3 x 400 V AC	DC current consumption	0.7 A @ 800 V DC / 1.2 A @ 450 V DC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Frequency range AC	47...63 Hz
Input fuse	Yes	Input fuse (internal)	Yes
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	Making current	max. 50 A
Recommended back-up fuse	4 A / DI, safety fuse 3...5 A, Char. C, circuit breaker	Wire connection method	Screw connection
rated input voltage	3 x 400...3 x 500 V AC (wide-range input)		

output

Output current	20 A	Output power	480 W
Output voltage type	DC	Output voltage, max.	29.5 V
Output voltage, min.	22.5 V	Output voltage, note	(adjustable via potentiometer on front)
Overload protection	Yes	Parallel connection option	yes, max. 3
Powerboost @ 24 V DC, 60 °C	24 A for 1 min, ED = 5 %	Rated (nominal) output current @ U _{Nom}	20 A @ 60 °C
Wire connection method	Screw connection	continuous output current @ 24 V DC	24 A @ 45 °C, 21.3 A @ 55 °C, 15 A @ 70 °C
rated output voltage	24 V DC ± 1 %	residual ripple, breaking spikes	< 50 mV _{SS} @ 24 V DC, I _N

General data

AC failure bridging time @ I _{Nom}	> 25 ms at 3 x 500 V AC / > 20 ms at 3 x 400 V AC	Current limiting	> 120 % I _N
Degree of efficiency	89 % @ 3 x 500 V AC / 90 % @ 3 x 400 V AC	Housing version	Metal, corrosion resistant
Indication	Operation, green LED	MTBF	> 500,000 h acc. to IEC 1709 (SN29500)
Mounting position, installation notice	Horizontal on TS35 mounting rail, with 50 mm of clearance at top and bottom for air circulation. Can be mounted side by side with no space in between.	Operating temperature	-25 °C...+70 °C
Power factor (approx.)	< 0.69 @ 3 x 500 V AC / > 0.82 @ 3 x 400 V AC	Protection against over-heating	Yes
Protection against reverse voltages from the load	30...35 V DC	Short-circuit protection	Yes
Weight	2.2 kg		

CP M SNT3 500W 24V 20A
Technical data
EMC / shock / vibration

Limiting of mains voltage harmonic currents	in accordance with EN 61000-3-2	Noise emission acc. to EN55022	Class B
Interference immunity test acc. to	EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips)	Shock resistance IEC 60068-2-27	30 g in all directions

Insulation coordination

Class of protection	I, with PE connection	Insulation voltage	3 kV input/output; 2 kV input/earth; 0.5 kV output/earth
Pollution severity	2	electrical isolation, input-earth	2 kV
electrical isolation, input-output	3 kV	electrical isolation, output-earth	0.5 kV

Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protection against dangerous shock currents	Acc. to VDE0106-101	Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204	Safety transformers for switch-mode power supplies	Acc. to EN 61558-2-17

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.5 mm ²	Conductor cross-section, rigid , max.	6 mm ²
Conductor cross-section, rigid , min.	0.5 mm ²	Number of terminals [Input]	4 for L1/L2/L3/PE
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Wire connection cross section, flexible (input), max.	2 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	6 mm ²	Conductor cross-section, rigid , min.	0.5 mm ²
Number of terminals [Output]	5 (++) / (-)	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

CP M SNT3 500W 24V 20A

Technical data

Approvals

Institute (GERMLLOYD)		Certificate No. (GERMLLOYD)	
			94767-10
Institute (cULus)		Certificate no. (cULus)	
			E258476VOL1SEC29
Institute (cURus)		Certificate No. (cURus)	
			E255651VOLX3A17

Classifications

ETIM 3.0	EC001039	eClass 5.1	27-04-90-02
eClass 6.2	27-04-90-04	eClass 7.1	27-04-90-04

Approvals

Approvals			
ROHS	Conform		

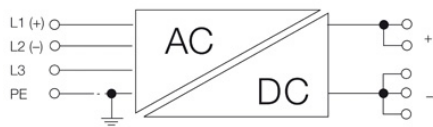
Downloads

Package insert	Operating instructions
Declaration of Conformity	K469_12_11.pdf
PDF	Warranty information
EPLAN	8951410000.ema
3-D model	

CP M SNT3 500W 24V 20A

Drawings

Electric symbol



With DC connection, note polarity
Two-phase operation also possible