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Datasheet

CP SNT 160W 24-28V 6.5A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
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One-phase switched-mode power unit in a compact metal housing for rail mounting
 Performance classes 55 W, 160 W, 300 W. These power supplies can be universally deployed because of their wide input range from 85 V AC to 265 V AC. They are available with output voltages of 5 V, 12 V, 24 V and 48 V. The 300 W ConnectPower power pack includes active PFC control and comprehensive monitoring functions. To increase the power output, up to five power units can be connected in parallel without decoupling on the output side.

General ordering data

Order No.	9925340024
Part designation	CP SNT 160W 24-28V 6.5A
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4032248217748
Qty.	1 pc(s).

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Technical data

Dimensions (1)

Weight	880 g	Length	175 mm
Width	57 mm	Height	127 mm

temperature

Ambient temperature (operational)	0 °C...+50 °C	Storage temperature	-40 °C...+85 °C
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Input

Conductor connection system	Screw connection	Connection range	AWG26-12 (0.1-4.0 mm ²)
Input current	2.9 A @ 115 V AC; 1.45 A @ 230 V AC	Input frequency	50/ 60 Hz
Input fuse	6.3 A time-lag fuse (internal)	Input voltage (voltage mode input)	min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC
Surge protection	Varistor	making current limit	Thermistor

output

Conductor connection system	Screw connection	Connection range	AWG26-12 (0.1-4.0 mm ²)
Control at 10...100% load	1 %	Control at input voltage	0.5 %
Mains failure bridge-over time	40 ms @ 115 V AC / 50 ms @ 230 V AC	Mains failure bridge-over time for 115 V AC	40 ms
Mains failure bridge-over time for 230 V AC	50 ms	Max. capacitance at output	6000 µF
Max. residual ripple	0.2 % _{eff}	Output current	6.5 A
Output power, max.	156 W	Output voltage type	DC
Output voltage, max.	28 V	Output voltage, min.	24 V
Overload protection	Overload current and surge protection	Parallel connection option	No
Surge protection	Varistor		

General data

Ambient temperature (operational)	0 °C...+50 °C	DIN Rail compatibility	TS 35
Degree of efficiency at max. load	85 %	Depth	175 mm
EMC standards	EN 55011 EN 55022 EN 55024 EN 61000-6-2, 3	Low Voltage Directive	73/ 23/ EWG
Mounting position, installation notice	horizontally on terminal rail TS 35	Power factor correction	No
Standards	EN 50178 EN 60950 IEC950	Status indication	Green LED
Switching frequency	65 kHz	Ambient temperature (operational)	0 °C...+50 °C

Insulation coordination

Humidity at operating temperature	20 - 85% RH without condensation	Humidity at storage temperature	20 to 90% RH without condensation
Protection class	IP 20	electrical isolation, I/O rail	3 kV
electrical isolation, input-earth	1.5 kV	electrical isolation, input-output	3 kV
electrical isolation, output-earth	0.5 kV		

Connection data

Clamping range, nom.	4 mm ²	Clamping range, min.	0.1 mm ²
Clamping range, max.	4 mm ²		

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Approvals

Approvals institutes CE; UL; CSA; GOSTME25

Classifications

eClass 5.1	27-04-90-02	eClass 6.0	27-04-90-04
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Notes

Note, technical data	Derating loss: 10% @ 60°C The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.
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Drawings

Electric symbol

