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SDP Series Specifications (24 V models)

Description	Catalog Number			
	SDP1-24-100	SDP2-24-100	SDP3-24-100	SDP4-24-100
Input				
Input Voltage	85-264 VAC, 100-375 VDC		AC 85-132 / 184-264 (Manual Select) or DC 220-375 V	AC 85-132 / 184-264 (Auto Select) or DC 220-375 V
Input Frequency	43-67 Hz			
Input Current	0.6 A @ 100 VAC / 0.35 A @ 196 VAC	1.0 A @ 100 VAC / 0.6 A @ 196 VAC	1.6 A @ 100 VAC / 0.8 A @ 196 VAC	2.1 A @ 100 VAC / 1.0 A @ 196 VAC
External Fusing	Not required. Unit provides internal fuse (T3A, not accessible)			
Hold-Up Time	>19 ms @ 100 VAC	>17 ms @ 100 VAC	> 20 ms @ 100 VAC	>20 ms @ 100 VAC
Efficiency	87.5% typ.	88.5% typ.	89% typ.	90% typ.
Losses	< 4.5 W typ.	< 6.8 W typ.	< 8.7 W typ.	< 12 W typ.
Output				
Output Voltage	24-28 VDC, adj. by front panel potentiometer; preset: 24.5 V ±0.5%.			
Voltage Regulation	Static 0.5% V_{out} dynamic + 2% V_{out} overall		Static 1% V_{out} dynamic + 2% V_{out} overall	Static < 1% Dynamic ±1.5%
Ripple/Noise[1]	< 50 mVpp		< 100 mVpp	< 50 mVpp
Overvoltage Protection (OVP)	< 40 VDC			
Output Noise Suppression	Radiated EMI values below EN50081-1			
Rated Continuous Loading	1.3 A @ 24 VDC / 1.1 A @ 28 VDC	2.1 A @ 24 VDC / 1.8 A @ 28 VDC	3 A @ 24 VDC / 2.6 A @ 28 VDC	4.2 A @ 24.5 VDC / 3.6 A @ 28 VDC
Overload Behavior	Continuous operation at overload/short-circuit: up to 1.5 x Nominal Current Continuous			
Protection	Unit is continuously protected against short-circuit, overload and open-circuit.			
Power Back Immunity	35 V			
Operation Indicator	Green LED DC On			
Power Good Output	None	To feed a 24 V relay (R_{coil} > 700 Ohm). Threshold level 24 VDC ±4%	None	
Installation				
Status Indicators	Green LED on, when V_{out} "OK".			
Case & Mounting	Robust sealed plastic housing with fine ventilation grid (IP20), to keep out small parts (e.g. screws). Easy snap-on mounting onto the DIN Rail (TS35/7,5 or TS35/15). Unit sits safely and firmly on the rail; no tools required to remove.			
Dimensions (H x W x D) (in/mm)	3.58 in x 1.77 in. x 2.95 in 91 mm x 45 mm x 75 mm			2.85 in x 2.85 in x 4.06 in 72.5 mm x 75 mm x 103 mm
Weight	.5 lbs (230 g)	.52 lbs (240 g)	.57 lbs (260 g)	.81 lbs (360 g)
Mounting Orientation	Standard: Vertical Optional: Horizontal or On Top (Derating required. See the User Manual on the website).			
Ventilation/Cooling •Free space for cooling	Normal convection, no fan required; Above/below: 25 mm recommended.			
Connection •Connector size range	By Spring Clamp terminals with integrated lever for wire fixing; 2 terminals per output. Flexible/Solid cable: 0.5-2.5 mm² (AWG=20-12) Ferrules (not required) admissable			
General				
Temperature	Storage: -25°C...+85°C Operation, -10°-60°C full power with operation to 70°C possible with a linear derating to half power from 60°C to 70°C. The relative humidity is 95% maximum non condensing.			
MTBF	660,000 (typ.) hacc to Siemensnorm SN 29500 (230 VAC, T_{amb} = +40°C)	600,000 (typ.) hacc to Siemensnorm SN 29500 (230 VAC, T_{amb} = +40°C)		465,000 (typ) hacc to Siemensnorm SN 29500 (230 VAC, T_{amb} = +40°C)
Humidity	Max. 95% (non-condensing)			
Electromagnetic Emissions (EME)	EN 50081-1 (includes EN 50081-2) Class B (EN 55011, EN 55022) incl. Annex A			
Electromagnetic Immunity (EMI)	EN 50082-2 (includes EN 50082-1) Criterion A: no degradation of performance			
Safe Low Voltage	SELV (EN60950, VDE0100/T410), PELV (VDE160)		SELV (EN60950, VDE0100/T410) PELV (EN50178)	
Protection Class/Voltage	IP20 (EN60529), Protection Class 1 (IEC536)			
Warranty	3 years			
Safety				
UL508 Listed, EN 60950, EN50178, UL 1950, Canada (CUL/CSA-C22.2 No.950-M90), IEC 60950 and also meets European Standards for electronic equipment in electrical power installations EN 50178, NEC Class 2 Power Source <100 VA installations.				

Notes:

[1] Ripple/noise is stated as typical values when measured with a 20 MHz, bandwidth scope and 50 Ohm resistor.

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