

Power supply · regulated, 70 W

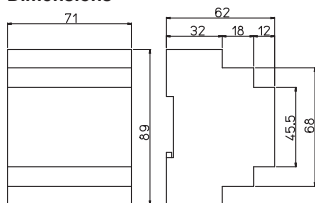
Primary switchmode power supply, PFC, Single-phase, Class 2

Input: wide-range input AC 90–264 V, DC 100–350 V

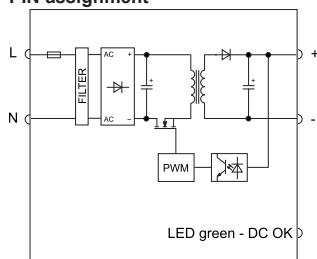
Output: DC 24 V, adjustable



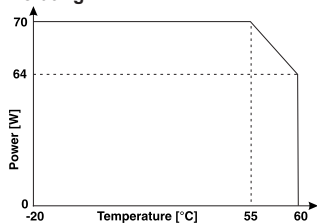
Dimensions



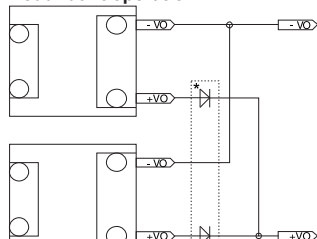
PIN assignment



Derating



Redundant operation



* Redundant Module 722987

Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V / 3 A	722789	CPSF1-70-24	1
Input				
CPSF1-70-24				
Nominal voltage	AC 115 / 230 V			
Operation voltage range	AC 90–264 V / DC 100–350 V (DC 300 V; UL508)			
Line frequency	47 – 63 Hz			
Rated current	U _i = AC 100 V: 1.25 A / U _i = AC 240 V: 0.80 A			
Inrush current	<30 A			
Internal fuse	T2 A / AC 250 V			
External fuse	Mini-circuit breaker: B 6 A, C 4 A			
Power Factor Correction P.F.C.	>0.6			
Output				
Rated voltage output	DC 24 V			
Rated current output	3 A			
Max. output current	4 A @ 24 V			
Short-circuit current	–			
Voltage trim range	23.5/27.5 V			
Accuracy	–			
Line regulation	–			
Load regulation	<1 %			
Rise time	–			
Temperature coefficient	–			
Ripple & Noise	<60 mV pp			
Hold up time	>10 ms (AC 120 V); >30 ms (AC 240 V)			
Status indication DC ON LED green	yes			
Status indication DC LOW LED red	No			
Parallel/redundant operation	max. 2 devices / via external diodes			
Efficiency	>87 % (AC 120 V); > 89 % (AC 240 V)			
Low power loss	–			
Rated over load protection	yes			
Over voltage protection	yes			
Short circuit characteristics	Hiccup-mode			
General				
Switching frequency	approx. 70 kHz			
Insulation voltage input/output	AC 3.0 kV _{eff}			
Insulation voltage input / ground	class 2, without PE			
Insulation voltage output / ground	class 2, without PE			
Insulation resistance at DC 500 V	– MΩ			
Operation temperature range	–20 °C – 60 °C (derating) (55°C UL508)			
Derating	>55°C: –1.2 W / °C			
Storage temperature range	–25 °C – 85 °C			
M.T.B.F.	750000 h to SN29500 / 250000 h to MIL Standard HDBK 217F			
Relative humidity	20–90% RH, non-condensing			
Dimensions (w × h × d) in mm	71.0 × 89.0 × 62.0			
Cooling	Natural air cooling, 10 mm distance right/left, 20 mm distance above/below			
Housing material	Noryl UL 94-0			
Field installation	rail TS 35 (EN 50022)			
Application height	– m			
Installation position	vertical			
Protection class	IP 20 (IEC529, EN60529)			
IP rating	II (SELV, PELV)			
Overvoltage category	II			
Pollution degree	2			
Weight (kg/piece)	0.250			
Termination	Screw terminal: 0.2–2.5 mm ² , max. 0.56 Nm			
Approvals	UL, cUL: UL 508, IEC 950, EN 60950, UL 60950 CE: EN 61000-4-2/3/4/5/6/11, EN 61000-6-2, EN 601000-6-4, EN 50178, EN 61558, EN 61000-3-2, EN 50081-1, EN 50082-2, EN 55022 Class B, EN 55011B			
Monitoring				
DC ON Control (Rdy)	–			
Switching voltage	–			
Switching current	–			
Switching capacity	–			
Insulation voltage	–			