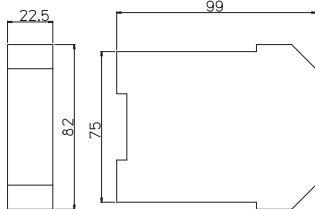


Power supply · regulated, 30 W

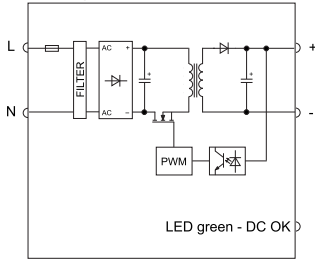
Primary switchmode power supply, PFC, Single-phase, Class 2
Input: wide-range input AC 90 V - 264 V, DC 100 V - 320 V
Output: DC 24 V



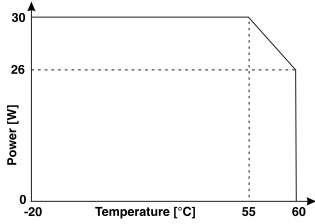
Dimensions



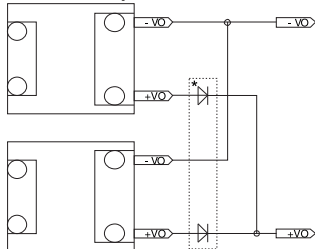
PIN assignment



Derating



Redundant operation



* Redundant Module 722987

Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V/ 1.2 A	722790	CPSFB1-30-24	1
Input				
CPSFB1-30-24				
Nominal voltage	AC 120 V / 230 V			
Operation voltage range	AC 90–264 V / DC 100–320 V			
Line frequency	47 – 63 Hz			
Rated current	U _i = AC 120 V: 0.55 A / U _i = AC 240 V: 0.30 A			
Inrush current	<25 A			
Internal fuse	T 1.25 A / AC 250 V			
External fuse	Mini-circuit breaker: C 2 A			
Power Factor Correction P.F.C.	>0.6			
Output				
Rated voltage output	DC 24 V			
Rated current output	1.2 A			
Max. output current	1.4 A @ 24 V			
Short-circuit current	10 A, 50 ms			
Voltage trim range	–			
Accuracy	±1%			
Line regulation	–			
Load regulation	<1 %			
Rise time	–			
Temperature coefficient	–			
Ripple & Noise	<80 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	>86 % (AC 120 V); > 87 % (AC 240 V)			
Low power loss	<4.7 W (AC 120 V); <4.3 W (AC 240 V)			
Rated over load protection	yes			
Over voltage protection	yes			
Short circuit characteristics	Hiccup-mode			
General				
Switching frequency	approx. 70 – 110 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) (50°C UL508)			
Derating	>55°C: –0.8 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	22.5 × 82.0 × 99.0			
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)	0.140			
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	–			

Power supply · regulated, 30 W

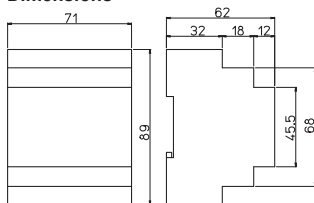
Primary switchmode power supply, PFC, Single-phase, Class 2

Input: wide-range input AC 90–264 V, DC 110–370 V

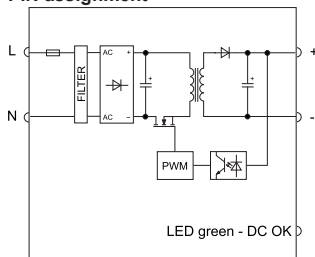
Output: DC 24 V



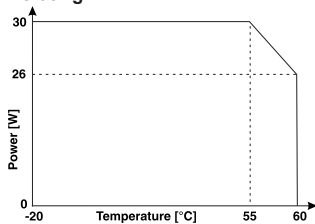
Dimensions



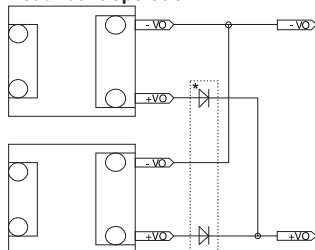
PIN assignment



Derating



Redundant operation



* Redundant Module 722987

Description	Part-No.	Type	PU
Screw terminal			
Output voltage/current	DC 24 V / 1.2 A	722787	CPSF1-30-24
			1
Input			
CPSF1-30-24			
Nominal voltage		AC 115 / 230 V	
Operation voltage range		AC 90–264 V / DC 110–370 V (DC 300 V; UL508)	
Line frequency		47 – 63 Hz	
Rated current		U _I = AC 100 V: 0.65 A / U _I = AC 240 V: 0.30 A	
Inrush current		<13 A	
Internal fuse		T2 A / AC 250 V	
External fuse		Mini-circuit breaker: B 4 A, C 2 A	
Power Factor Correction P.F.C.		>0.6	
Output			
Rated voltage output		DC 24 V	
Rated current output		1.2 A	
Max. output current		2.2 A @ 24 V	
Short-circuit current		–	
Voltage trim range		–	
Accuracy		±1%	
Line regulation		–	
Load regulation		<1 %	
Rise time		–	
Temperature coefficient		–	
Ripple & Noise		<50 mV pp	
Hold up time		>20 ms (AC 120 V); >60 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		>85 % (AC 120 V); > 87 % (AC 240 V)	
Low power loss		–	
Rated over load protection		yes	
Over voltage protection		yes	
Short circuit characteristics		Hiccup-mode	
General			
Switching frequency		approx. 110 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)	
Derating		>55°C: -0.8 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)		0.200	
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		–	