

Datasheet

RS PRO Compact Universal, regulated, 240 W

Stock No: 192-7583



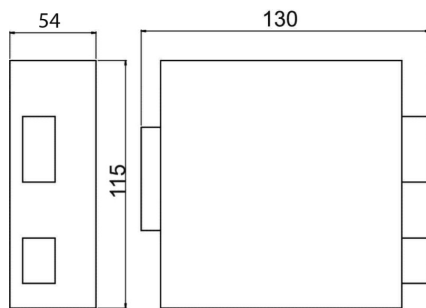
Technical Specifications:

Input	
Number of phases	3
Rated voltage U_N	AC 200–500 V
Operation voltage range	AC 187–550 V / DC 250–725 V (UL: DC 300–500 V)
Line frequency	47–63 Hz
Rated current I_N	1-/2-phase: 2.2 A @ AC 220 V / 1.1 A @ AC 500 V, 3-phase: 1.5 A @ AC 220 V / 0.8 A @ AC 500 V
Inrush current	<20 A @ AC 230 V / <40 A @ AC 500 V
External fuse	Mini-circuit breaker: D 4 A, C 6 A / safety fuse: T 6.3 A (required)
Power factor correction P.F.C.	>0.6 @ 230 V, >0.5 @ 400 V

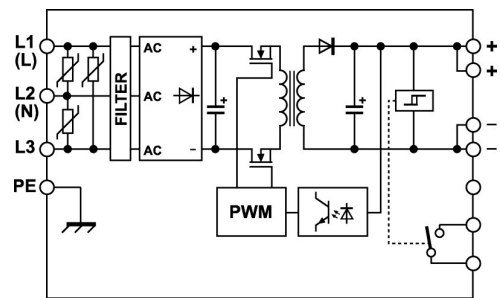
Features & Benefits:

- 1 piece
- Power supply
- Compact Universal, regulated, 240 W
- Primary switched power supplies, PFC, 1/2/3-phase
- Input: wide-range input AC 187–550 V, DC 250–725 V (UL: DC 300–500 V)
- Output: 24 V, adjustable

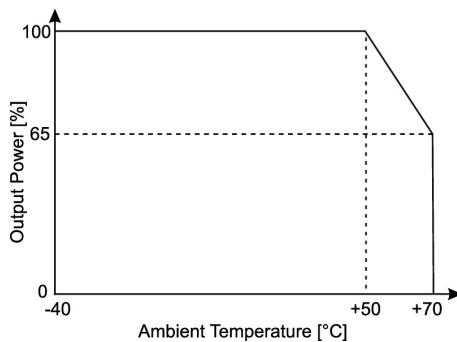
Dimensions



PIN assignment

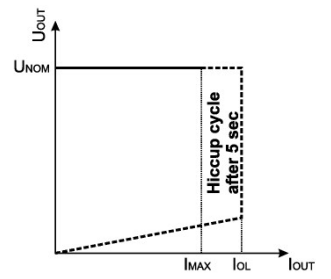


Derating

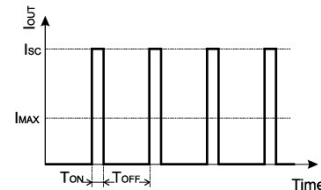


Short circuit characteristics

Hiccup limitation output characteristic



Short circuit conditions



Technical Data

Input	
Number of phases	3
Rated voltage U_N	AC 200–500 V
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Line frequency	47–63 Hz
Rated current I_N	1-/2-phase: 2.2 A @ AC 220 V / 1.1 A @ AC 500 V, 3-phase: 1.5 A @ AC 220 V / 0.8 A @ AC 500 V
Inrush current	<20 A @ AC 230 V / <40 A @ AC 500 V
External fuse	Mini-circuit breaker: D 4 A, C 6 A / safety fuse: T 6.3 A (required)
Power factor correction P.F.C.	>0.6 @ 230 V, >0.5 @ 400 V

Output	
Rated voltage U_N	DC24V
Rated current I_N	10 A
Max. output current	>15 A, 5 s
Short-circuit current	38 A, 5 s
Heat dissipation	<24 W @ AC 230 V, <21 W @ AC 400 V
Setting range $U_{out\ min.}/U_{out\ max.}$	23-27,5 V
Load regulation	<1 %
Rise time	14 ms (5–95 %) @ 400 V
Ripple and Noise	<100 mV pp
Hold up time	>15 ms @ AC 230 V / >100 ms @ AC 500 V
Status indication DC ON LED green	≥ 21.6 V
Status indication DC LOW LED red	≤ 21.6 V
Parallel / redundant mode	yes/via external decoupling diode e.g. 722987
Efficiency	>91 % @ AC 230 V / >92 % @ AC 400 V
Over voltage protection	>DC 33 V ($U_A=24$ V)
Rated over load protection	yes
Short circuit	Hiccup Mode

Technical Data

Monitoring	
DC ON Control (Rdy)	N/O contact
Switching voltage	DC 30 V
Switching current	DC 1 A
Switching capacity	30 W
Isolation voltage	AC 500 V

General	
Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.2 kV
Insulation voltage output / ground	DC 750 V
Derating	>50 °C: -4.2 W/°C
Operation temperature range	-40 °C ... +70 °C (UL certified up to +50 °C)
Storage temperature range	-40°C...80°C
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, 50 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	DIN rail mountable TS35
Application height	2000 m
Installation position	vertical
Shock resistance	30 g 6 ms, 20 g 11 ms, 3 shocks/direction, 18 shocks in total, IEC60068-2-27: 2008
Vibration resistance	5 – 17.8 Hz: ±1.6 mm, 17.8 – 500 Hz: 2 g 2 hours/axes X,Y,Z, IEC 60068-2-6: 2007
Protection class	IP20 (IEC 529 / EN 60529)
Protection class	I
Over voltage category	III
Degree of pollution	2
Weight	0,65 kg/piece
Connection type	Screw terminal
	0.20 mm ² – 2.5 mm ²
	AWG 30 – AWG 12
	plug-in
Dimensions (w × h × d)	54×115×134 mm

Technical Data

Certifications	cULus (E249179)
Standards	IEC 60950
	EN 60950
	EN 61000-6-2
	EN 61000-6-4
	EN 61000-4-2/3/4/5/6/11
	EN 61000-5-5
	EN 55011
MTBF	>500000 h: SN29500 / >150000 h: MIL HDBK 217F
PU	1 piece