

Power supply · regulated, 240 W, 3-phase

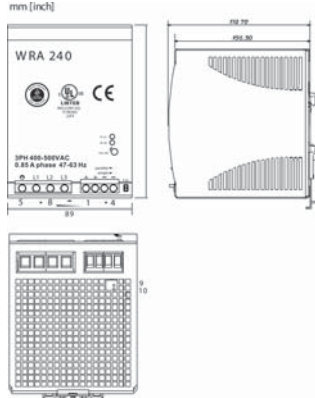
Switchmode power supply, PFC, 3-phase

Input: wide-range input AC 340–576 V, DC 480–820 V

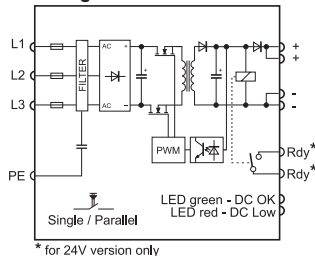
Output: 24 / 48 V, adjustable



Dimensions

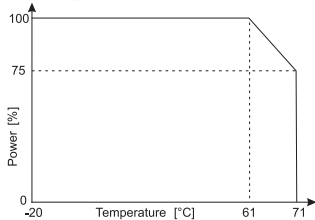


PIN assignment

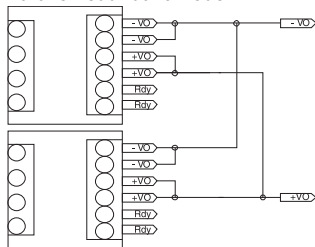


* for 24V version only

Derating



Parallel/redundant mode



Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V/ 10 A	722804	WRA240-24	1
	DC 48 V/ 5 A	722808	WRA240-48	1

Input	WRA240-24	WRA240-48
Nominal voltage	3× AC 340–500 V	
Operation voltage range	3× AC 340–575 V; 3× DC 480–820 V	
Line frequency	47 – 63 Hz	
Rated current	U _I = AC 380 V: 0.85 A / U _I = AC 500 V: 0.7 A	
Inrush current	20 A	
Internal fuse	3×T2, 0 A / AC 600 V	
External fuse	Automatic: 3 × B 6 A	
Power Factor Correction P.F.C.	0.6	

Output	DC 24 V	DC 48 V
Rated voltage output	DC 24 V	DC 48 V
Rated current output	10 A	5 A
Max. output current	–	
Short-circuit current	–	
Voltage trim range	22.5/28.5 V	47/56 V
Accuracy	1 %	
Line regulation	±1 %	
Load regulation	Single ±1 %, Parallel ±5 %	
Rise time	1 s	
Temperature coefficient	±0.03 % / °C	
Ripple & Noise	100 mV	
Hold up time	min. 20 ms	
Status indication DC ON LED green	≥17.6–19.4 V	≥37–43 V
Status indication DC LOW LED red	≤17.6–19.4 V	≤37–43 V
Parallel/redundant operation	max 2 devices with 90 % load current each, switching with switch S/P	
Efficiency	90 %	91 %
Low power loss	30 W (AC 380 V)	24 W (AC 380 V)
Rated over load protection	Temperature: Deactivation at 100–110°C and automatic activation after cooling off	
Over voltage protection	125–137 %	125–142 %
Short circuit characteristics	Hiccup-mode	

General		
Switching frequency	approx. 25 kHz	
Insulation voltage input/output	AC 3.0 kV _{eff}	
Insulation voltage input / ground	AC 1.5 kV _{eff}	
Insulation voltage output / ground	–	
Insulation resistance at DC 500 V	100 MΩ	
Operation temperature range	–25 °C – 71 °C (derating)	
Derating	Capacity: –2.5% / °C starting at +61 °C	
Storage temperature range	–25 °C – 85 °C	
M.T.B.F.	488000 h	519000 h
Relative humidity	20–90% RH, non-condensing	
Dimensions (w × h × d) in mm	89.0 × 123.6 × 117.5	
Cooling	Natural air cooling, 25 mm distance on all sides	
Housing material	Metal	
Shock resistance	–	
Vibration resistance	–	
Field installation	rail TS 35 (EN 50022)	
Application height	3000 m	
Installation position	vertical	
Protection class	IP 20	
IP rating	I (SELV, PELV)	
Overvoltage category	II	
Pollution degree	2	
Weight (kg/piece)	1.100	
Termination	Screw terminal: 0.2–4.0 mm ² , max. 0.62 Nm	
Approvals	UL: UL 508 listed, cUL: UL 60950-1 accepted, TÜV: EN 60950-1; CE: EN 61000-6-3 / EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 55024 Class I, Division 2, Groups A, B, C and D	

Monitoring		
DC ON Control (Rdy)	Normally open	–
Switching voltage	DC 60 V	–
Switching current	max. 300 mA	–
Switching capacity	–	–
Insulation voltage	DC 500 V	–