

Anixter Level 1 for Industrial Network Environments

Power Supplies: 24V 10 A Three Phase



Anixter Item #	Product Description
L1-24V-10A-3P-DIN	Primary Switched-Mode Power Supply, Three Phase, 24 VDC / 10 A, DIN-rail mount.

Technical Data	
Input:	
Nominal input voltage V_i nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC (use of DC requires external protection)
Frequency	50 - 60 Hz
Input current I_i	3 x 0.6 A at 340 VAC and 10 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Mains failure hold-up time	22 ms typ. at 3 x 400 VAC

Output:	
Nominal output voltage V_o nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current I_o	10 A at 24 V DC
PowerBoost	20 ADC (for 4 s); 15 ADC (for 16 s)
TopBoost	70 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1%
Residual ripple	< 70 mV (peak-peak)
Current limitation	1.1 x I_o typ
Overload behavior	Constant current
Operational indication	LED green (V_o), LED red (error)
Efficiency / power losses:	
Efficiency	91.7 % typ
Power loss PV	7.9 W (stand-by) / 19.9 W (rated load)
Fuse protection:	
Internal fuse	3 x 1.6 AT
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 1.6 A, setting range: 1.6 ... 2.5 A; An external DC fuse is required for the DC input voltage
Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C; Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage pri.-sec. / pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC

Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	Max 35 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Cross sections	Input/Output: 0.08 ... 2.5 mm ² / AWG 28 ... 12
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179 Height from upper-edge of DIN 35 rail
Weight	1000 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

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