

## **Anixter Level 1 for Industrial Network Environments**

Power Supplies: 24V 20 A Single Phase



Anixter Item #	Product Description	
L1-24V-20A-1P-DIN	Primary Switched-Mode Power Supply, Single Phase, 24 VDC / 20 A, DIN-rail mount.	

Technical Data				
Input:				
Nominal input voltage Vi nom	110 240 VAC			
Input voltage range	85 264 VAC; 120 350 VDC (use of DC requires external protection)			
Input voltage derating	-1.5 % / V AC < 110 VAC			
Frequency	50 - 60 Hz			
Input current li	2.3 A at 230 VAC and 20 ADC			
Discharge current	1 mA typ.			
Inrush current	< 8 A (active inrush current limitation)			
Mains failure hold-up time	25 ms typ. at 230 VAC			



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Nominal output voltage Vo nom 24 VDC (SELV)

Output voltage range 22 ... 29.5 VDC adjustable

Output current lo 20 A at 24 V DC

Factory preset 24 VDC

Adjustment accuracy 1%

Residual ripple < 70 mV (peak-peak)

Overload behavior TopBoost / PowerBoost / Constant current

Operational indication LED green (Vo), LED red (error)

Signaling Relay contact DC O.K. (changeover contact)

Efficiency / power losses:

Efficiency 91 % typ.

Power loss PV 0.8 W (stand-by) / 4.8 W (no load) /50.2 W (rated load)

**Fuse protection:** 

Internal fuse 10 AT

External fuse Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; 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  $-3 \% / K (> +50 \degree C)$ 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 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: 0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> / AWG 28 12, Output: 0.5 mm <sup>2</sup> 10 mm <sup>2</sup> / AWG 20 8, Signalising: 0.08 mm <sup>2</sup> 0.5 mm <sup>2</sup> / AWG 28 20	
Strip lengths	Input: 8 9 mm / 0.33 in, Output: 13 15 mm / 0.55 in, Signalising: 5 6 mm / 0.22 in	
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions	
Dimensions and weight:		
Dimensions (mm) W x H x L	$97 \times 171 \times 187$ (incl female connector) Length from upper-edge of DIN 35 rail	
Weight	2300 g	
Standards and approvals:		
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508	

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