

Two-phase, primary switched mode power supply **PM-0224-038-0**



Picture shows PM-0224-038-0

Advantages

Stabilized and adjustable output voltage
Low stand-by consumption <1 W
Constant current limiting without overload shutdown
DC OK indicator
Parallel operation option
Push-in terminals
Panel installation on mounting rails
3 years warranty

Applications

Efficient, primary switched mode power supply in slim plastic housing. A powerful and flexible option that's still light and compact. This power supply is suitable for a highly diverse range of applications in solar, measurement and control technology as well as industrial and building automation. It delivers an output current of 3.8 A and is suitable for establishing NEC Class 2 circuits. The output voltage can be easily set using the rotary potentiometer on the front of the housing. The DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

Standards

Primary switched mode power supply for NEC Class 2 applications to UL 60950, UL 508, UL 1310

Safety:
EN 61558-2-16, EN 60950-1, EN 60335-1

EMC:
EN 61204-3

Approvals



UL/CSA 60950-1, UL 508, UL 1310

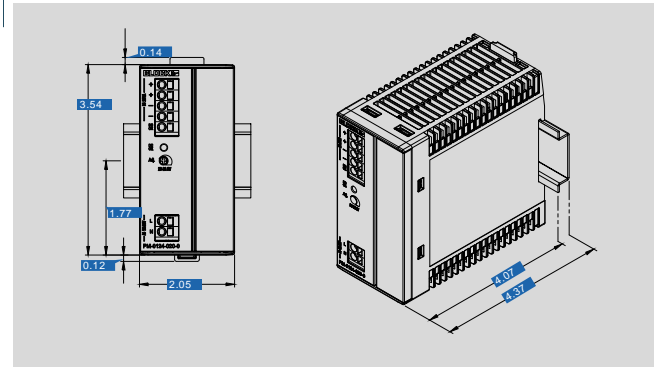


Two-phase, primary switched mode power supply PM-0224-038-0

Type	PM-0224-038-0
Electrical data	
Special features	
Characteristics	For establishing NEC Class 2 circuits
Input	
Input rated voltage	200 - 500 Vac
Input voltage range	180 - 575 Vac (254 - 800 Vdc)
Input voltage derating	-0.1 %/Vac < 320 Vac
Rated frequency range	44 Hz - 66 Hz / 0 Hz
Input rated current (rated load)	0.82 A / 0.52 A (200 Vac / 500 Vac)
Starting current limiter	< 30 A, NTC
Switch-on time	<1.2 s (230 Vac) / <0.8 s (400 Vac)
Power factor	0.66
Input fuse internal	3.15 A
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
Mains buffering (rated load)	>15 ms (230 Vac) / >60 ms (400 Vac)
Transient surge voltage protection	varistor
Output	
Output rated voltage	24 Vdc
Output voltage range	23 - 28.5 Vdc (> 24 Vdc constant capacity)
Output rated current	3.8 A
Output limited current	3.8 ... 3.2 A (constant current, Class 2)
Class 2 output (UL Limited Power Source, LPS)	Yes
Parallel connection	Yes
Serial operation	Yes
Power dissipation, no load/rated load	2.8 W / 14 W (230 Vac)
Max. power losses	<15 W (180 Vac / 72 W)
Ripple factor	typ. 30 mVss
Resistance to reverse feed max.	35 Vdc
Over-voltage-protection	max. 40 Vdc
Efficiency	89 %
Signaling	
Status indicator	LED green Uout > typ. 21.5 Vdc LED lit permanently
Signal output	Active high signal Uout > typ. 21.5 Vdc max. 20 mA@24 Vdc short circuit proof
Approvals	
Approvals	cURus, cULus
Environment	
Storage temperature	-13 °F to +185 °F
Ambient temperature	-13 °F to +158 °F
Derating	-2.5 %/K > +131 °F
Mounting position	horizontal for standard rail DIN TS35
Type of cooling	Natural convection
Required minimum spacing (left/right)	0.00 inch
Required minimum spacing (over/under)	1.97 inch
Safety and protection	
Protection index	IP 20
Safety class	II, without PE connection
Order numbers	
Order Number	PM-0224-038-0

Type	PM-0224-038-0
Mechanical data	
Terminal and mounting	
Terminals input (direct plug-in technology Push-in)	max 2,5 mm ²
Terminals output (direct plug-in technology Push-in)	max 2,5 mm ²
Terminals signalling (direct plug-in technology Push-in)	max 2,5 mm ²
Measures and weights	
Weight	0.86 lbs

Dimensions in inch



Subject to change.