

PS3031-2440-0000 | Power supply PS3000; output: 24 V DC, 40 A; input: 3 AC 380...480 V, 3-phase



i Product status: Regular delivery

The power supply PS3031-2440-0000 is a 3-phase, 24 V DC power supply with an output current of 40 A and an output power of 960/1440 W. On the input side, the device has a wide range input, an active power factor correction (PFC) and an inrush current surge regulation.

The PS3031-2440-0000 has an extra power with a maximum output power of 150% for 4 seconds and can precisely trigger fuses with short-term peak current. The power supply belongs to the PS3000 family and has a width of 110 mm. A DC-OK LED, an overload LED and a potential-free relay contact monitor the status of the output voltage. The output voltage can be switched off by a shut-down contact directly.

Product information

Technical Data

Technical data	PS3031-2440-0000
Input voltage	3 AC 380...480 V
Wide-range input	yes
Input current	typ. 1.65 A at 400 V AC
Switch-on current limiter	yes
Mains frequency	50...60 Hz
Starting current	typ. 4.5 A peak at 400 V AC
Harmonic correction (PFC)	active

Output voltage	24 V DC
Adjustment range	24...28 V DC
Output current	40 A
Output	960 W
Output power for 4 s	1440 W
Extra power	50 %/4 s
Precise fuse release	yes
DC OKLED	yes
Overload LED	yes
Shut down contact	yes
Efficiency	approx. 95.3 %
Operating temperature	-25...+70 °C
Vibration resistance	conforms to EN 60068-2-6
Shock resistance	conforms to EN 60068-2-27
Weight	1.5 kg
Approvals/markings	CE, UL508
Protection class	IP 20

Housing data	Power supply
Dimensions (W x H x D)	110 mm x 124 mm x 127 mm
Material	aluminium
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Wiring	Input/Output: Screw technique Signal contact: Spring-loaded technique
Connection cross-section	<p>Input e*: 0.5...6 mm², f*: 0.5...4 mm², a*: 0.5...4 mm²</p> <p>Output e*: 0.5...16 mm², f*: 0.5...10 mm², a*: 0.5...10 mm²</p> <p>Signal contact e*: 0.15...1.5 mm², f*: 0.15...1,5 mm², a*: 0.15...1,5 mm²</p>
Connection cross-section AWG	<p>Input: AWG 20-10 Output: AWG 22-8 Signal contact: AWG 26-14</p>
Stripping length	<p>Input: 7 mm Output: 12 mm Signal contact: 7 mm</p>

*s: solid wire; st: stranded wire; f: with ferrule