

# DIN-Rail Power Supply - MDR-40 Series

MDR-40 SERIES



## DIN-Rail Power Supply - MDR-40 Series

- DIN-Rail power supply
- Output voltage 24 V DC
- Rated power 40 W
- MTBF standard MIL-HDBK-217F

OVERVIEW MODELS	OUTPUT VOLTAGE V DC	RATED POWER	DIMENSIONS (W X H X D)	WEIGHT
MDR-40-24	24 V DC	40 W	40 x 90 x 100 mm	300 g

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## SPECIFICATIONS

Model	MDR-40-24
<b>GENERAL DATA</b>	
Series	MDR
Type	DIN rail power supply
<b>INPUTS</b>	
Input voltage V AC	85 - 264 V AC
Input voltage V DC	120 - 370 V DC
Input frequency	47 - 63 Hz
Efficiency	88 %
Input current V AC	1.1 A @ 115 V AC / 0.7 A @ 230 V AC
Inrush current	60 A @ 230 V AC
Inrush current cold start	30 A @ 115 V AC
Leakage current	< 1 mA @ 240 V AC
<b>OUTPUTS</b>	
Number of outputs	1
Output voltage V DC	24 V DC
Rated current	1.7 A
Current range	0 - 1.7 A
Rated power	40.8 W
Ripple Noise	150 mVp-p
Output voltage adjustment range	24 - 30 V
Output voltage tolerance	±1 %
Line regulation	±1 %
Load regulation	±1 %
Setup time	500 ms, 30 ms @ 230 V AC / 500 ms, 30 ms @ 115 V AC (Full load)
Hold-up time typical	50 ms @ 230 V AC
Hold-up time full load	20 ms @ 115 V AC
Overload protection	Power limited (105 - 150 % Rated output power)
Over voltage protection	31.2 - 36 V
Short circuit protection	Yes
Checking output voltage V DC	30 V, 1 A

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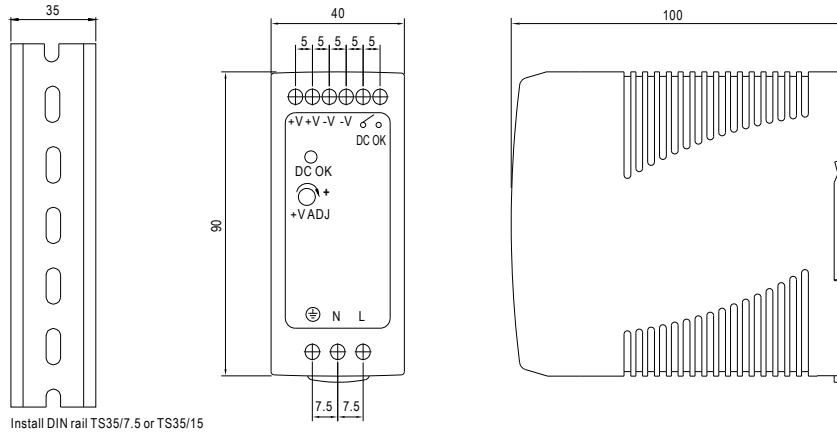
PHYSICAL CHARACTERISTICS	
Dimensions (W x H x D)	40 x 90 x 100 mm
Weight	300 g
Mounting	DIN rail
ENVIRONMENTAL	
Operating temperature range	-20 - +70 °C
Storage temperature range	-40 - +85 °C
Humidity	20 - 90 % (non condensing)
Temperature coefficient	±0.03 %/°C (0 - +50 °C)
Vibration	10 - 500 Hz, 2 G, 3-axis, IEC60068-2-6
APPROVALS	
CE	Yes
cULus	UL 508 / UL 60950-1
TÜV	EN 60950-1, Class I, Div. 2 Group A, B, C, D Hazardous Locations T4
EMC	EN 55011 / EN 55022 (CISPR22) / EN55024 / EN 61000-3-2,3 / EN 61000-4-2,3,4,5,6,8,11 / EN 61000-6-2 / EN 61204-3 Class B
RoHS	Yes
MTBF	
MTBF time	min. 301.700 hours @ 25 °C
MTBF standard	MIL-HDBK-217F

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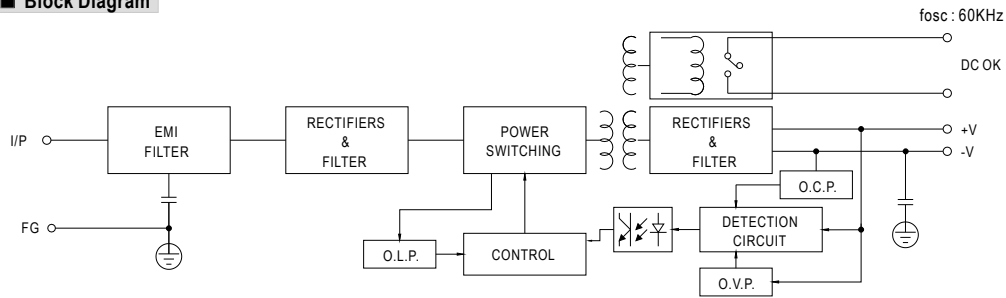
PRODUCT DIMENSIONS (MM)

## Mechanical Specification

Unit: mm



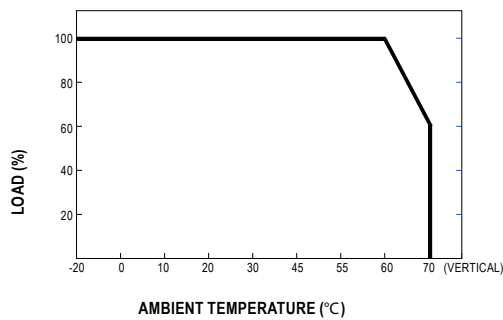
## Block Diagram



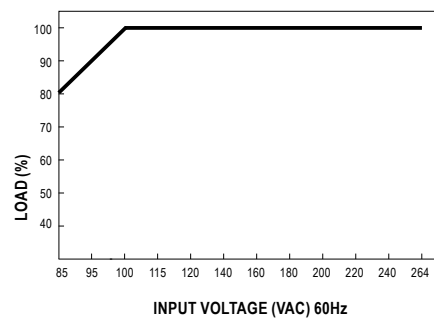
## DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

## Derating Curve



## Output Derating VS Input Voltage



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PRODUCT IMAGES

