



## 240W Single Output Industrial DIN RAIL with PFC Function

SDR-240 series



- Can be installed on DIN rail TS-35/7.5 or 15
- \* UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test



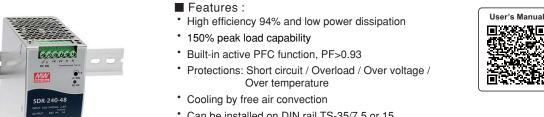








File Name: SDR-240-SPEC 2025-02-17



# **GTIN CODE**

MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### **SPECIFICATION**

PECIFIC	ATION	R33100 RoHS AS/NZS62368-1 TPTC004	UL508 BS EN/EN62368-1 IEC62368-1	
MODEL		SDR-240-24	SDR-240-48	
	DC VOLTAGE	24V	48V	
ОИТРИТ	RATED CURRENT	10A	5A	
	CURRENT RANGE	0~10A	0 ~ 5A	
	RATED POWER	240W	240W	
	PEAK CURRENT	15A	7.5A	
	PEAK POWER Note.6	360W (3sec.)		
	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	650ms, 60ms/230VAC 1300ms, 60ms/115VAC at full load		
	HOLD UP TIME (Typ.)	20ms/230VAC 20ms/115VAC at full load		
INPUT	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.94/230VAC 0.99/115VAC at full load		
	EFFICIENCY (Typ.) Note.8			
	AC CURRENT (Typ.)	2.6A/115VAC 1.3A/230VAC		
	INRUSH CURRENT (Typ.)	33A/115VAC 55A/230VAC		
	LEAKAGE CURRENT	<1mA / 240VAC		
	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recover		
		>150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds		
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V	
ROTECTION		Protection type : Shut down o/p voltage with auto-recovery		
	OVER TEMPERATURE	95°C ±5°C (TSW: detect on heatsink of power switch)		
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down		
UNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
	WORKING TEMP. Note.5	-25 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)		
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X,	Y, Z axes; Mounting: Compliance to IEC60068-2-6	
	SAFETY STANDARDS	UL508, TUV BS EN/EN62368-1, AS/NZS 62368.1, BSMI CNS155	598-1, EAC TP TC 004 approved;(meet BS EN/EN60204-1)	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
SAFETY & EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/70% RH		
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS15936		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020, SEMI F47 approved		
OTHERS	MTBF	1160.3K hrs min. Telcordia SR-332 (Bellcore) ; 169.3K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	63*125.2*113.5mm (W*H*D)		
	PACKING	1.03Kg; 12pcs/13.4Kg/1.22CUFT		
NOTE	1. All parameters NOT specia	lly mentioned are measured at 230VAC input, rated load and 25	${}^{\circ}\mathbb{C}$ of ambient temperature.	

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1  $\mu$  F & 47  $\mu$  F parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.
- 6. 3 seconds max., please refer to peak loading curves.
- 7. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 8 After 30 minutes of burn-in
- 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



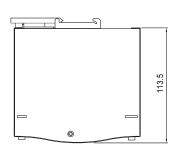


#### ■ Mechanical Specification

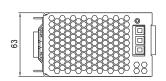
# 240W Single Output Industrial DIN RAIL with PFC Function

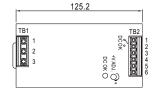
(Unit: mm , tolerance ± 1mm)

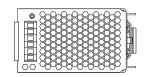
Case No. 979A



SDR-240 series

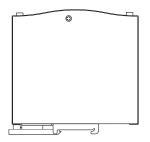








ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15



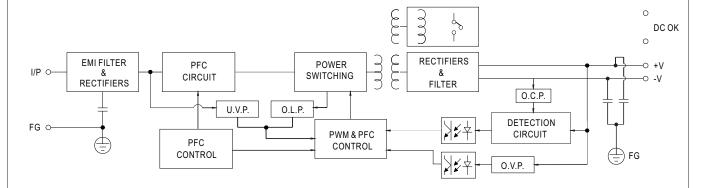
Terminal Pin No. Assignment (TB1)

	Pin No.	Assignment
ſ	1	FG 🖶
	2	AC/N
Γ	3	AC/L

#### Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	Relay Contact
3,4	DC OUTPUT +V
5,6	DC OUTPUT -V

### ■ 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.

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230 264



60

-25

0

10

20

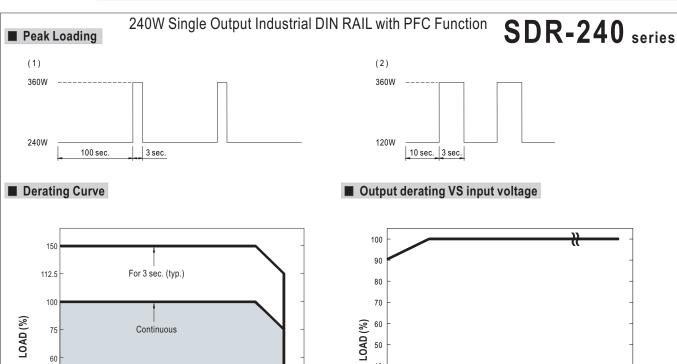
30

AMBIENT TEMPERATURE (°C)

40

50

60



70 (VERTICAL)

40

88

100

INPUT VOLTAGE (V) 60Hz

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