



240W Slim Three Phase Industrial DIN Rail with PFC Function

TDR-240















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Features

- Three-Phase 340 ~ 550VAC wide range input (Dual phase operation possible)
- 63mm slim width
- Built-in passive PFC function compliance to BS EN/EN61000-3-2
- High efficiency 92% and low power dissipation
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Full power between -30~+60°C
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL61010(industrial control equipment)approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- DC OK relay contact
- 3 years warranty

Applications

- · Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

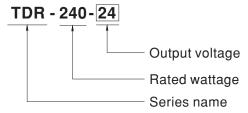
GTIN CODE

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

Description

TDR-240 is one economical slim 240W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 63mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 3 ψ 340VAC to 550VAC (Dual Phase operation possible) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. TDR-240 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 92 %, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL61010-1, UL61010-2-201, BS EN/EN61558-1, BS EN/EN61558-2-16, EAC TP TC 004 approved, and etc.) make TDR-240 a very competitive power supply solution for industrial applications.

Model Encoding



240W Slim Three Phase Industrial DIN Rail with PFC Function

SPECIFICATION

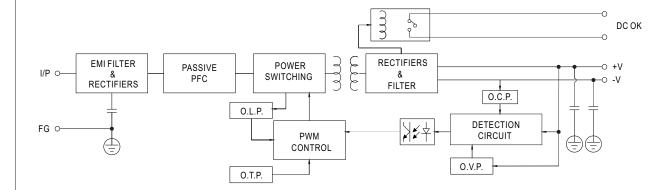
MODEL		TDR-240-24		TDR-240-48		
•	DC VOLTAGE	24V		48V		
OUTPUT	RATED CURRENT	10A		5A		
	CURRENT RANGE	0 ~ 10A		0 ~ 5A		
	RATED POWER	240W		240W		
	RIPPLE & NOISE (max.) Note.2	·		120mVp-p		
	VOLTAGE ADJ. RANGE			48 ~ 55V		
001101	VOLTAGE TOLERANCE Note.3	24 ~ 28V ±1.0%		±1.0%		
	LINE REGULATION	±0.5%				
	LOAD REGULATION	±1.0%		±0.5% ±1.0%		
	SETUP, RISE TIME	2000ms, 60ms/400VAC 1500ms, 60ms/500VAC at full load				
	HOLD UP TIME (Typ.)	20ms / 400VAC 40ms / 500VAC at full load				
	() . ,	Three-Phase 340 ~ 550VAC (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG) or 480 ~ 780VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
		PF≥0.53/400VAC PF≥0.52/500VAC at full load				
INDUT	POWER FACTOR (Typ.)	92% 92%				
INPUT	AC CURRENT (Typ.)	0.69A/400VAC				
	AC CURRENT (Typ.) INRUSH CURRENT (Typ.)	COLD START 50A				
	LEAKAGE CURRENT	<2mA / 530VAC				
	LEARAGE CORRENT					
	OVERLOAD	105 ~ 130% rated output power				
DDOTECTION		Protection type: Constant current limiting, unit will hiccup after 3 sec.				
PROTECTION	OVER VOLTAGE	30 ~ 36V 56 ~ 65V Protection type: Hiccup mode, recovers automatically after fault condition is removed.				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automa				
FUNCTION		1 0,	, ,	goes down		
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load				
	WORKING TEMP. Note.5 WORKING HUMIDITY	-30 ~ +70 °C (Refer to "Derating Curve") 20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
FNVIDONMENT	TEMP. COEFFICIENT					
ENVIRONMENT	VIBRATION	±0.05%/°C (0 ~ 60°C) Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				
	OPERATING ALTITUDE Note.6					
	OVER VOLTAGE CATEGORY	5000 meters III; According to EN61558, EN50178, EN60664-1, EN62477-1, EN60204-1; altitude up to 2000 meters				
	SAFETY STANDARDS	UL61010-1, UL61010-2-201, BS EN/EN61558-1, BS EN/EN61558-2-16, BIS IS13252(Part1)(only for 24V), EAC TP TC 004 approved design refer to AS/NZS61558-1/-2-16				
	WITHSTAND VOLTAGE	I/P-O/P:4.87KVAC I/P-FG:2.4KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH				
		Parameter	Standard		Test Level / Note	
		Conducted	BS EN/EN55032(CIS	PR32)/BS EN/EN61204-3	Class B	
	EMC EMISSION	Radiated	BS EN/EN55032(CIS	PR32)/BS EN/EN61204-3	Class B	
		Harmonic Current	BS EN/EN61000-3-2		Class A	
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3			
EMC		BS EN/EN55035 , BS EN/EN61204-3				
(Note 7)		Parameter	Standard	Test	Level / Note	
		ESD	BS EN/EN61000-4-2	Leve	el 4, 15KV air ; Level 4, 8KV contact	
		Radiated Field	BS EN/EN61000-4-3	Leve	el 3	
	ENG HAMILINIEN	EFT / Burst	BS EN/EN61000-4-4	Leve	Level 3	
	EMC IMMUNITY	Surge	BS EN/EN61000-4-5	Leve	4, 2KV / Line-Line, Level 4, 4KV/ Line-Ea	
		Conducted	BS EN/EN61000-4-6	Leve	el 3	
		Magnetic Field	BS EN/EN61000-4-8	Leve	el 4	
		Voltage Dips and Interruptions	BS EN/EN61000-4-1	1	5% dip 0.5 periods, 30% dip 25 ods > 95% interruptions 250 periods	
	MTBF	1534.9K hrs min. Telcordia SR-332(B	Bellcore); 215.6K hrs min.	MIL-HDBK-217F (25°C)		
OTHERS	DIMENSION	63*125.2*113.5mm (W*H*D)				
	PACKING	1Kg; 12pcs/13Kg/1.22CUFT				
NOTE	Ripple & noise are measure Tolerance : includes set up Dual phase operation is allo Please refer to derating cun Installation clearances : 40n In case the adjacent device The ambient temperature de The power supply is considered.	ially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F & 47 µ F parallel capacitor. ptolerance, line regulation and load regulation. illowed under certain derating to output load. urves for details. Omm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. ce is a heat source, 15mm clearance is recommended. derating of 3.5°C/1000m is needed for operating altitude higher than 2000m(6500ft). idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." ww.meanwell.com//Upload/PDF/EMI statement en.pdf)				



TDR-240 series

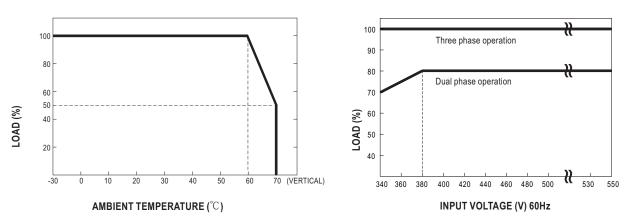
■ BLOCK DIAGRAM





■ DERATING CURVE

■ OUTPUT DERATING VS INPUT VOLTAGE



Note: When the dual phase input voltage is between 340~380Vac and ambient temperature is between -10°C ~-30°C, the power supply may experience hiccup at cold start. The power supply will start up normally after 5~10 seconds.

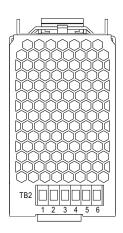
■ DC OK RELAY CONTACT

Contact Close	PSU turns on / DC OK.	
Contact Open	PSU turns off / DC Fail.	
Contact Ratings (max.)	30VDC/1A, 30VAC/0.5A resistive load.	

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
5,6	DC OK Relay Contact

X Please contact MEAN WELL for more details.

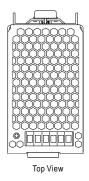




■ MECHANICAL SPECIFICATION

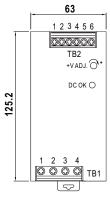
(Unit: mm , tolerance ± 1mm)

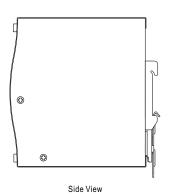




113.5 ®

Side View





Bottom View

Front View

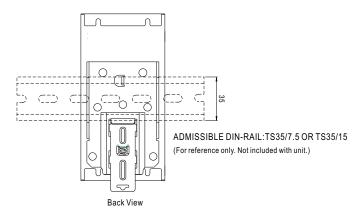
Terminal Pin No. Assignment (TB1)

	0
Pin No.	Assignment
1	AC/L1
2	AC/L2 or DC -
3	AC/L3 or DC +
4	FG⊕

Terminal Pin No. Assignment (TB2)

Torriniar Tirres. Acong milone (TB2		
Pin No.	Assignment	
1,2	DC OUTPUT +V	
3,4	DC OUTPUT-V	
5,6	DC OK Relay Contact	

■ Installation Instruction



This series fits DIN-RAIL TS35/7.5 or TS35/15. For installation details, please refer to the Instruction manual.

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html