

TDR-240 series















- 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

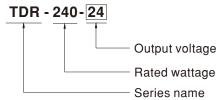
GTIN CODE

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 $3\psi~340$ VAC 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



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TDR-240 series

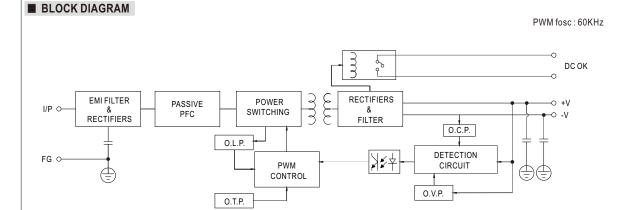
SPECIFICATION

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	24 ~ 28V		48 ~ 55V				
0011 01	VOLTAGE TOLERANCE Note.3							
				±1.0%				
	LINE REGULATION	±0.5%		±0.5%				
	LOAD REGULATION	±1.0%		±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						
INPUT		Three-Phase 340 ~ 550VAC (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG) or 480 ~ 780VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		PF≥0.53/400VAC					
	EFFICIENCY (Typ.)	92%						
	AC CURRENT (Typ.)	0.69A/400VAC						
	INRUSH CURRENT (Typ.)	COLD START 50A						
L	LEAKAGE CURRENT	<2mA / 530VAC						
	OVERLOAR	105 ~ 130% rated output power						
	OVERLOAD	Protection type : Constant current limiting	, unit will hiccup after 3	sec.				
PROTECTION	0//50 //0/ 74 05	30 ~ 36V		56 ~ 65V				
	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed.						
	OVER TEMPERATURE	Shut down o/p voltage, recovers automati	cally after temperature	goes down				
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load						
	WORKING TEMP. Note.5	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing						
ENVIRONMENT		±0.05%/°C (0~60°C)						
	VIBRATION	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	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, AS/NZS 62368.1, EAC TP TC 004 approved						
	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 / 5						
		Parameter	Standard			Test Level / Note		
	EMC EMISSION	Conducted	BS EN/EN55032(CISPR32)/BS EN/EN61204-3		4-3	Class B		
		Radiated	BS EN/EN55032(CISPR32)/BS EN/EN61204-			Class B		
		Harmonic Current	BS EN/EN61000-3-2	` '		Class A		
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3					
		BS EN/EN55024 , BS EN/EN61204-3						
EMC (Note 7)	EMC IMMUNITY	Parameter			Level / Note			
(ESD				vel 4, 15KV air ; Level 4, 8KV contact		
		Radiated Field				evel 3		
		EFT / Burst	BS EN/EN61000-4-4			evel 3		
		Surge	BS EN/EN61000-4-5			el 4, 2KV / Line-Line, Level 4, 4KV/ Line-Earth		
		Conducted	BS EN/EN61000-4-6		Level			
		Magnetic Field	BS EN/EN61000-4-8					
		Wagnetic Field	B0 E14/E1401000 + 0	,	Level 4 >95% dip 0.5 periods, 30% dip 25			
		Voltage Dips and Interruptions	BS EN/EN61000-4-1	1		ds > 95% interruptions 250 periods		
	MTBF	1534.9K hrs min. Telcordia SR-332(Be	llcore); 215.6K hrs min.	MIL-HDBK-217F (2	5℃)	·		
OTHERS								
	PACKING	1Kg; 12pcs/13Kg/1.22CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Dual phase operation is allowed under certain derating to output load. Please refer to derating curves for details. 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. The ambient temperature derating of 3.5°C/1000m is needed for operating altitude higher than 2000m(6500ft). 7. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 3. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							
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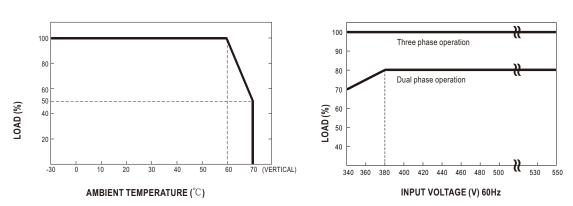


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■ DERATING CURVE

■ 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.

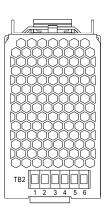
■ DC OK RELAY CONTACT

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		

 $\ensuremath{\mathbb{X}}$ Please contact MEAN WELL for more details.



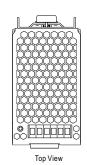
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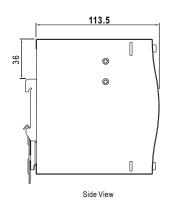


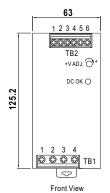
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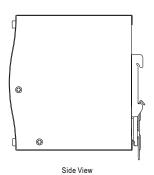
■ MECHANICAL SPECIFICATION

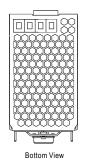


Case No. 979D Unit:mm









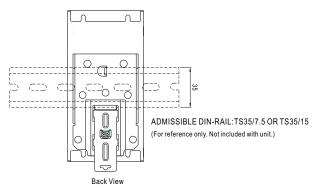
Terminal Pin No. Assignment (TB1)

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

Terminal Pin No. Assignment (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

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