





Features

- Three-Phase 340 ~ 550VAC wide range input (Dual phase operation possible)
- 63mm slim width
- · Built-in passive PFC function compliance to 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
- · EN61000-6-2(EN50082-2) industrial immunity level
- · DC OK relay contact
- · 3 years warranty

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 3ψ 340VAC to 550VAC (Dual Phase operation possible) and conforms to 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, EN61558-1, EN61558-2-16, EAC TP TC 004 approved, and etc.) make TDR-240 a very competitive power supply solution for industrial applications.





Applications

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



TDR-240 series

SPECIFICATION

MODEL		TDR-240-24	r	DR-240-48		
	DC VOLTAGE	24V	2	18V		
OUTPUT	RATED CURRENT	10A	5	5A		
	CURRENT RANGE	0~10A	(0~5A		
	RATED POWER	240W		240W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p		120mVp-p		
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V		
	VOLTAGE TOLERANCE Note.3	· · · · ·		±1.0%		
	LINE REGULATION	$\pm 0.5\%$		±0.5%		
	LOAD REGULATION	±1.0%		±1.0%		
	SETUP, RISE TIME		60ms/500VAC at full load			
	HOLD UP TIME (Typ.)	20ms / 400VAC 40ms / 500VAC at full load				
	VOLTAGE RANGE Note.4	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.)		VAC at full load			
INPUT	EFFICIENCY (Typ.)	92%		92%		
INPUT	AC CURRENT (Typ.)	0.69A/400VAC 0.6A/500VAC		5270		
	INRUSH CURRENT (Typ.)	COLD START 50A				
	LEAKAGE CURRENT	<2mA / 530VAC				
		<2mA / 530VAC 105 ~ 130% rated output power				
PROTECTION	OVERLOAD	Protection type : Constant current limiti	na unit will hiccup after 3 of	26		
		30 ~ 36V		56 ~ 65V		
	OVER VOLTAGE					
			tection type : Hiccup mode, recovers automatically after fault condition is removed. t down o/p voltage, recovers automatically after temperature goes down			
FUNCTION		60VDC/0.3A, 30VDC/1A, 30VAC/0.5A r				
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	-30 ~ +70°C (Refer to "Derating Curve"				
	WORKING TEMP. Note.5)			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C , 10 ~ 95% RH non-condensing				
ENVIRONMENT	TEMP. COEFFICIENT	±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, EN61558-1, EN61558-2-16, 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			Test Level / Nete	
	EMC EMISSION	Parameter	Standard		Test Level / Note	
		Conducted	EN55032(CISPR32)/		Class B	
		Radiated	EN55032(CISPR32)/	EN61204-3	Class B	
		Harmonic Current	EN61000-3-2		Class A	
SAFETY &		Voltage Flicker	EN61000-3-3			
EMC	EMC IMMUNITY	EN55024, EN61204-3				
(Note 7)		Parameter	Standard		Test Level / Note	
		ESD	EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contact	
		Radiated Field	EN61000-4-3		Level 3	
		EFT / Burst	EN61000-4-4		Level 3	
		Surge	EN61000-4-5		Level 4, 2KV / Line-Line, Level 4, 4KV/ Line-Ea	
		Conducted	EN61000-4-6		Level 3	
		Magnetic Field	EN61000-4-8		Level 4	
		Voltage Dips and Interruptions	EN61000-4-11		>95% dip 0.5 periods, 30% dip 25	
	MTDE	5 1 1			periods $>$ 95% interruptions 250 periods	
OTHERS	MTBF	515.4K hrs min. Telcordia SR-332(Bellcore); 215.6K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	63*125.2*113.5mm (W*H*D)				
	PACKING	1Kg ; 12pcs/13Kg/1.06CUFT y mentioned are measured at 400VAC input, rated load and 25° C of ambient temperature.				
NOTE	 Ripple & noise are measure Tolerance : includes set up Dual phase operation is allo Please refer to derating cur Installation clearances : 40n In case the adjacent device The ambient temperature d The power supply is consid 	d at 20MHz of bandwidth by using a 12 tolerance, line regulation and load regu wed under certain derating to output loa ves for details. In on top, 20mm on the bottom, 5mm is a heat source, 15mm clearance is re erating of 3.5°C/1000m is needed for op ered a component which will be installe ce on how to perform these EMC tests,	2" twisted pair-wire termina lation. ad. on the left and right side ar ecommended. perating altitude higher thar d into a final equipment. Th	ted with a 0.1uf & 4 re recommended wi a 2000m(6500ft). ne final equipment n	7uf parallel capacitor. hen loaded permanently with full power. nust be re-confirmed that it still meets	
	1 (as available of Hillp.//WWW.	11601W61.0011)				



240W Slim Three Phase Industrial DIN Rail with PFC Function

TDR-240 series



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		

% Please contact MEAN WELL for more details.





TDR-240 series

