





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

Series name

- · 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 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.





Applications

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



SPECIFICATION

MODEL		TDR-240-24		TDR-240-48		
	DC VOLTAGE	24V		48V		
	RATED CURRENT	10A		5A		
OUTPUT	CURRENT RANGE	0~10A		0~5A		
	RATED POWER	240W		240W		
	RIPPLE & NOISE (max.) Note.2			120mVp-p		
	VOLTAGE ADJ. RANGE					
		24 ~ 28V		48 ~ 55V		
	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				
	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.)	PF≧0.53/400VAC PF≧0.52/500VAC at full load				
INPUT	EFFICIENCY (Typ.)	92% 92%				
-	AC CURRENT (Typ.)	0.69A/400VAC 0.6A/500VAC				
	INRUSH CURRENT (Typ.)	COLD START 50A				
	LEAKAGE CURRENT	<2mA / 530VAC				
PROTECTION		105 ~ 130% rated output power				
	OVERLOAD	Protection type : Constant current limiting, unit will hiccup after 3 sec.				
		30 ~ 36V		56~65V		
	OVER VOLTAGE	Protection type : Hiccup mode, recover	are automatically after fault			
		Shut down o/p voltage, recovers autor				
FUNCTION			<u> </u>			
FUNCTION	DC OK REALY CONTACT RATINGS (max.)					
	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	5000 meters				
	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 / 500VDC / 25°C/ 70% RH				
		Parameter	Standard		Test Level / Note	
	EMC EMISSION	Conducted	BS EN/EN55032(CI	SPR32)/BS EN/EN61204-3	Class B	
		Radiated	BS EN/EN55032(CIS	SPR32)/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/EN55024 , BS EN/EN61204-3				
EMC (Note 7)		Parameter	Standard	Test	Level / Note	
. ,		ESD	BS EN/EN61000-4-2		14, 15KV air ; Level 4, 8KV contact	
		Radiated Field	BS EN/EN61000-4-3			
		EFT / Burst	BS EN/EN61000-4-4			
		Surge	BS EN/EN61000-4-5		4, 2KV / Line-Line, Level 4, 4KV/ Line-Ea	
			BS EN/EN61000-4-6			
		Conducted				
		Magnetic Field	BS EN/EN61000-4-8			
		Voltage Dips and Interruptions	BS EN/EN61000-4-1	1 >95	5% dip 0.5 periods, 30% dip 25 ds $>$ 95% interruptions 250 periods	
	MTBF	515 4K hro min Toloordia SP 222/	Pollogra): 215 6K bra min			
OTHERS		515.4K hrs min. Telcordia SR-332(Bellcore); 215.6K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION PACKING	63*125.2*113.5mm (W*H*D) 1Kg ; 12pcs/13Kg/1.22CUFT				
NOTE	 All parameters NOT special 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 di EMC directives. For guidance 	ly mentioned are measured at 400VA d at 20MHz of bandwidth by using a tolerance, line regulation and load reg wed under certain derating to output l	12" twisted pair-wire termir ulation. oad. n on the left and right side recommended. operating altitude higher th ed into a final equipment.	nated with a 0.1uf & 47uf pa are recommended when loa an 2000m(6500ft). The final equipment must be	aded permanently with full power.	



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

