











- 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
- · Built-in constant current limiting circuit
- · Can be installed on DIN rail TS-35/7.5 or 15
- · UL508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- · DC OK relay contact function
- 3 years warranty











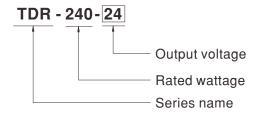
Applications

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

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 (UL508, EN61558-2-16 approved, and etc.) make TDR-240 a very competitive power supply solution for industrial applications.

■ Model Encoding





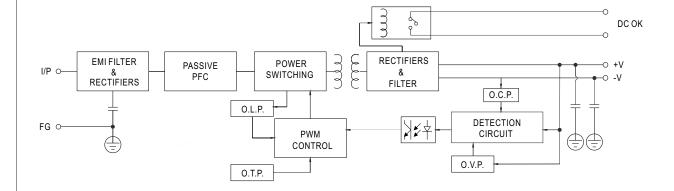
SPECIFICATION

- H	DC VOLTAGE					
- H		24V		48V		
	RATED CURRENT	10A		5A		
	CURRENT RANGE	0 ~ 10A		0 ~ 5A		
	RATED POWER	240W		240W		
- H	RIPPLE & NOISE (max.) Note.2	· · · · · · · · · · · · · · · · · · ·		150mVp-p		
- F						
OUTPUT	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V		
	VOLTAGE TOLERANCE Note.3			±1.0%		
-	LINE REGULATION	±0.5%		±0.5%		
- F	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 \sim 550VAC (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG) 480 \sim 780VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.53/400VAC PF≥0.52/500V	AC at full load			
INPUT	EFFICIENCY (Typ.)	92%		92%		
	AC CURRENT (Typ.)	0.69A/400VAC				
	INRUSH CURRENT (Typ.)	COLD START 50A				
- H	LEAKAGE CURRENT	<2mA / 530VAC				
	ELANAGE GONNENT					
	OVERLOAD	105 ~ 130% rated output power Protection type: Constant current limiting, unit will hiccup after 3 sec.				
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PROTECTION	OVER VOLTAGE	30 ~ 36V		56 ~ 65V		
		Protection type : Hiccup mode, recovers	,			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automat		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	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				
h	OPERATING ALTITUDE Note.7					
F	OVER VOLTAGE CATEGORY	III; According to EN61558, EN50178, EN60664-1, EN62477-1, EN60204-1; altitude up to 2000 meters				
	SAFETY STANDARDS	UL508, EN61558-2-16, EAC TP TC 004 approved				
- F	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					
-	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / S	Standard		Test Level / Note	
		Conducted	EN61204-3			
					Class B	
	EMC EMISSION	Radiated	EN61204-3		Class B	
		Harmonic Current	EN61000-3-2		Class A	
SAFETY &		Voltage Flicker	EN61000-3-3			
EMC		EN55024 , EN61204-3				
(Note 6)		Parameter	Standard		Test Level / Note	
		ESD	EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contact	
	EMC IMMUNITY	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-Ear	
		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	
	MTBF		llcore); 215.6K hrs min.	MIL-HDBK-217F (25	periods $>$ 95% interruptions 250 periods 3° C)	
h	DIMENSION	63*125.2*113.5mm (W*H*D)		(20	,	
	PACKING	1.02Kg; 8pcs/9.4Kg/1.16CUFT				
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 power supply is conside	s NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. The are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The cludes set up tolerance, line regulation and load regulation. The peration is allowed under certain derating to output load. The derating curves for details. The arrances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. The poly is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets so the poly is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets so the http://www.meanwell.com/				



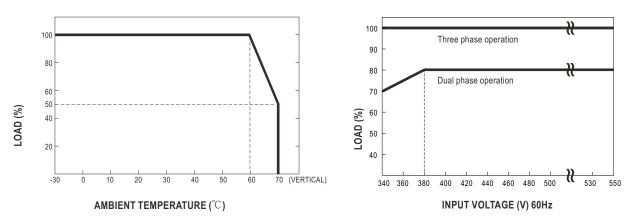


PWM fosc: 60KHz



■ DERATING CURVE

■ OUTPUT DERATING VS INPUT VOLTAGE



Note: When the dual phase input voltage is between 340~380 Vac 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.

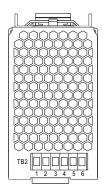
■ DC OK RELAY CONTACT

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A resistive load.

Terminal Pin No. Assignment (TB2)

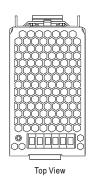
Pin No.	Assignment
5,6	DC OK Relay Contact

* Please contact MEAN WELL for more details.

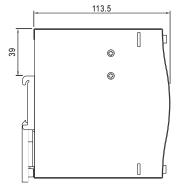




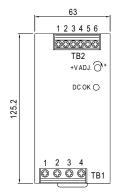
■ MECHANICAL SPECIFICATION



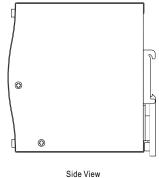
Case No. 979D Unit:mm



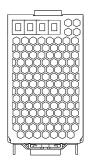
Side View



Front View



Side view



Bottom View

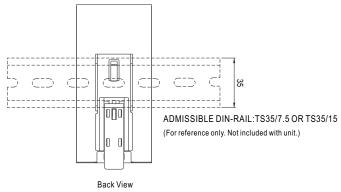
Terminal Pin No. Assignment (TB1)

Pin No.	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.