

























■ 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

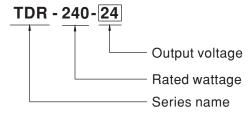
■ GTIN CODE

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 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.

Model Encoding





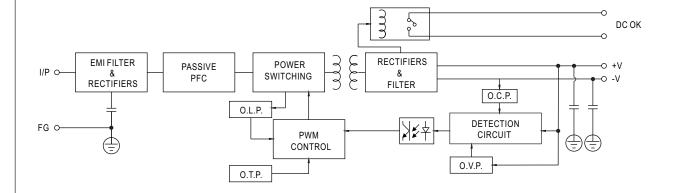
SPECIFICATION

	TDR-240-24	TD	R-240-48			
DC VOLTAGE	24\/					
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			,			
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≥0.52/50	PF≧0.53/400VAC PF≧0.52/500VAC at full load				
EFFICIENCY (Typ.)						
(21 /	0.69A/400VAC					
```	- (71:7					
ELYHOLOL GOMMENT						
OVERLOAD						
OVER VOLTAGE						
		•				
			s down			
DC OK REALY CONTACT RATINGS (max.)	60VDC/0.3A, 30VDC/1A, 30VAC/0.5A	A 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-conde	ensing				
TEMP. COEFFICIENT	±0.05%/°C (0~60°C)					
VIBRATION	Component:10 ~ 500Hz, 2G 10min./1	cycle, 60min. each along X, Y, Z	Z axes; Mounting: Complia	ance to IEC60068-2-6		
OPERATING ALTITUDE Note.6						
OVER VOLTAGE CATEGORY						
SAFETY STANDARDS						
WITHSTAND VOLTAGE						
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohm	s / 500VDC / 25°C / 70% RH				
	Parameter	Standard		Test Level / Note		
	Conducted	BS EN/EN55032(CISPR	32)/BS EN/EN61204-3	Class B		
EMC EMISSION	Radiated	BS EN/EN55032(CISPR	32)/BS EN/EN61204-3	Class B		
	Harmonic Current	· · · · · · · · · · · · · · · · · · ·	,	Class A		
		BS EN/EN61000-3-3				
	•					
			Toet	Level / Note		
				4, 15KV air ; Level 4, 8KV contact		
				· · · · · · · · · · · · · · · · · · ·		
EMC IMMUNITY				·		
	_					
				4, 2KV / Line-Line, Level 4, 4KV/ Line-Ea		
	Magnetic Field	BS EN/EN61000-4-8	Level	4		
	Voltage Dips and Interruptions	BS EN/EN61000-4-11		% dip 0.5 periods, 30% dip 25 ds $>$ 95% interruptions 250 periods		
MTBF	1534.9K hrs min. Telcordia SR-332	2(Bellcore); 215.6K hrs min.	MIL-HDBK-217F (25°C)			
DIMENSION	63*125.2*113.5mm (W*H*D)					
PACKING	1Kg; 12pcs/13Kg/1.22CUFT					
Ripple & noise are measure     Tolerance: includes set up     Dual phase operation is allous Please refer to derating cur     Installation clearances: 40r     In case the adjacent device     The ambient temperature d     The power supply is consid	ed at 20MHz of bandwidth by using a tolerance, line regulation and load regulated under certain derating to output ves for details. In mon top, 20mm on the bottom, 5mm is a heat source, 15mm clearance is erating of 3.5°C/1000m is needed for	12" twisted pair-wire terminate julation. load.  n on the left and right side are recommended. operating altitude higher than 2 led into a final equipment. The	d with a 0.1uf & 47uf par recommended when loa 2000m(6500ft). final equipment must be	ded permanently with full power.		
	VOLTAGE ADJ. RANGE  VOLTAGE TOLERANCE Note.3  LINE REGULATION  SETUP, RISE TIME  HOLD UP TIME (Typ.)  VOLTAGE RANGE Note.4  FREQUENCY RANGE  POWER FACTOR (Typ.)  EFFICIENCY (Typ.)  AC CURRENT (Typ.)  INRUSH CURRENT (Typ.)  INRUSH CURRENT  OVERLOAD  OVER VOLTAGE  OVER TEMPERATURE  DC OK REALY CONTACT RATINGS (max.)  WORKING TEMP. Note.5  WORKING HUMIDITY  STORAGE TEMP., HUMIDITY  TEMP. COEFFICIENT  VIBRATION  OPERATING ALTITUDE Note.6  OVER VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION  MTBF  DIMENSION  PACKING  1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Dual phase operation is allor Please refer to derating cur 5. Installation clearances: 40r In case the adjacent device 6. The ambient temperature of 6. The ambient temperature of 6. The ambient temperature of 7. In Ease the adjacent device 7. In Ease the adjacent device 7. In Ease the adjacent device 8. The ambient temperature of 9. The ambient temperature	DC VOLTAGE	DC VOLTAGE	DC VOLTAGE		

# 240W Slim Three Phase Industrial DIN Rail with PFC Function

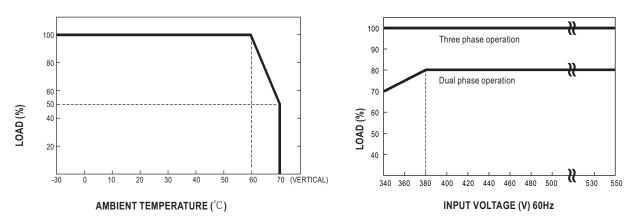
# ■ BLOCK DIAGRAM

PWM fosc: 60KHz



#### ■ 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.

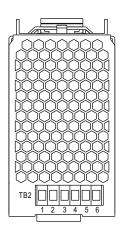
# ■ DC OK RELAY CONTACT

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)

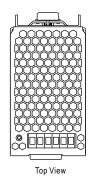
Pin No.	Assignment
5,6	DC OK Relay Contact

※ Please contact MEAN WELL for more details.

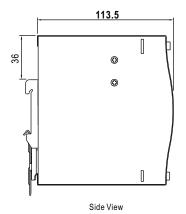


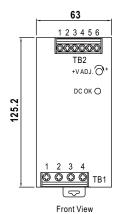


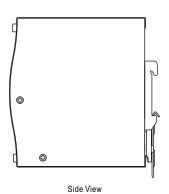
# ■ MECHANICAL SPECIFICATION



Case No. 979D Unit:mm







Bottom View

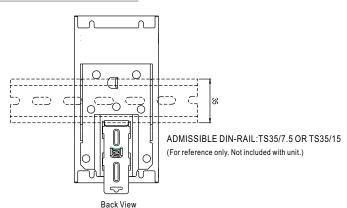
Terminal Pin No. Assignment (TB1)

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

Terminal Pin No. Assignment (TB2)

Torring	Tillitto: Alboigillilont (TBE)
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