

960 Watt, TDR 960 Series, Slim Line DIN Rail Power Supply



electronic powersolutions

- Three-Phase 340 ~ 550VAC Input
- High Efficiency, High Reliability
- Wide Temperature Range -30 to +70 °C
- Built In DC OK Relay Contact
- Short Circuit, Over Load, Over Voltage & Over Temperature Protected
- Full Approvals: UL/CB/CE
- 3 Year Warranty
- Competitive Prices / From Stock



Size: 125.2(H) x 110(W) x 150(D) mm

Specification

Input Voltage (Universal).....	Three-Phase 340 ~ 550VAC (2 phase operation possible) or 480 ~ 780VDC
Input Frequency.....	47~63 Hz
Inrush Current.....	Cold start, 60A Max
Input Current.....	2 A @ 400 VAC, 1.4 A @ 500 VAC
Load Regulation.....	+/-1%
Line Regulation.....	+/-0.5%
Output Voltage.....	See table below (plus adjustment range)
Over Load Protection.....	105~130% (auto-recovery)
Over Voltage Protection.....	29~33V (24V version), 56~65V (48V version)
Set Up, Rise Time.....	1000ms, 100ms/400VAC at full load 800ms, 100ms/500VAC at full load
Hold Up Time.....	12ms / 400VAC, 14ms / 500VAC at full load
Isolation Voltage.....	I/P-O/P: 3 kVAC,
Operating Temperature.....	-30~+70 °C (see derating curve)
Safety Standards.....	UL508 approved, IEC60950-1 CB, CE
EMC Standards.....	EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3 EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A
Dimensions.....	125.5(H) x 110(W) x 150 (depth from rail) mm
Weight.....	2.47kg

Models and Ratings

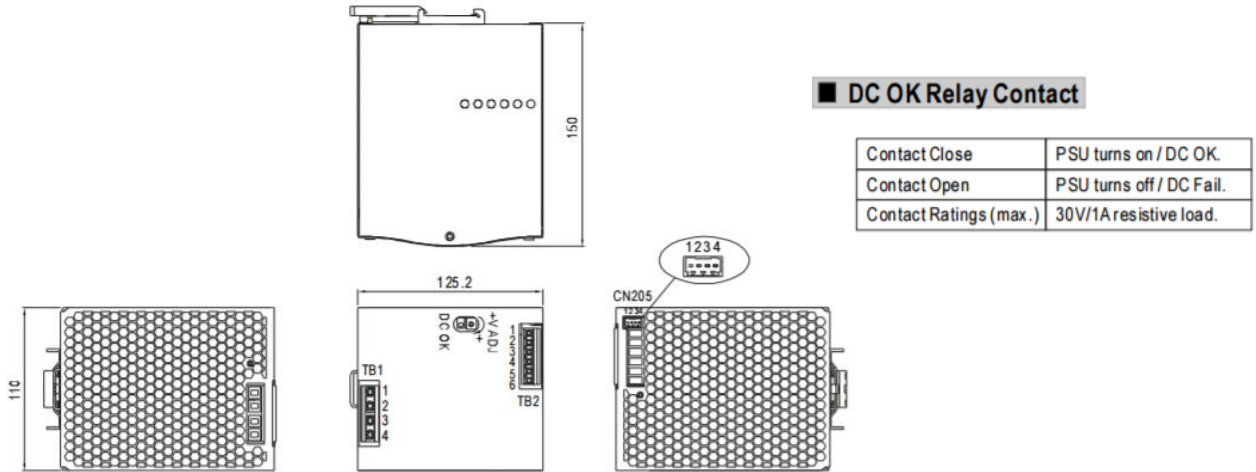
Model	Output	Output Adj. Range	Ripple/Noise	Efficiency
TDR-960-24	24.0 V / 40 A	24 V ~ 28 V	180 mV	94%
TDR-960-48	48.0 V / 20 A	48 V ~ 55 V	250 mV	94.5%

For mechanical details and connections, see next page

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Mechanical Details



DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⚡
2	AC/L3
3	AC/L2
4	AC/L1

Terminal Pin No. Assignment (TB2)

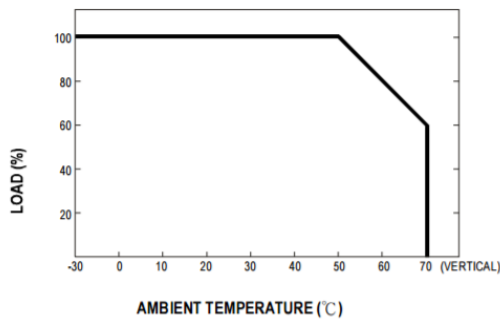
Pin No.	Assignment
1,2,3	DC OUTPUT +V
4,5,6	DC OUTPUT -V

Control Pin (CN205) : DINKLE ECH250R-04P or equivalent

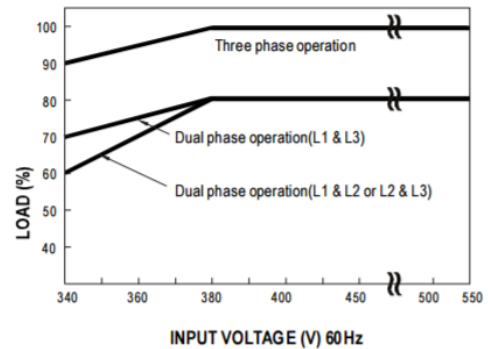
Pin No.	Assignment	Mating Housing	Wire Diameter
1	P-(Current Share)	DINKLE ESC250V-04P or equivalent (including in the single package)	0.081~0.517mm ² (28~20AWG)
2	P+(Current Share)		
3,4	DC OK Relay Contact		

Derating Curves:

Load vs Ambient Temperature



Load vs Input Voltage



Specifications can change without notice. E&OE. ALL PSU Terms & Conditions apply.

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