

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



electronicpowersolutions

- 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

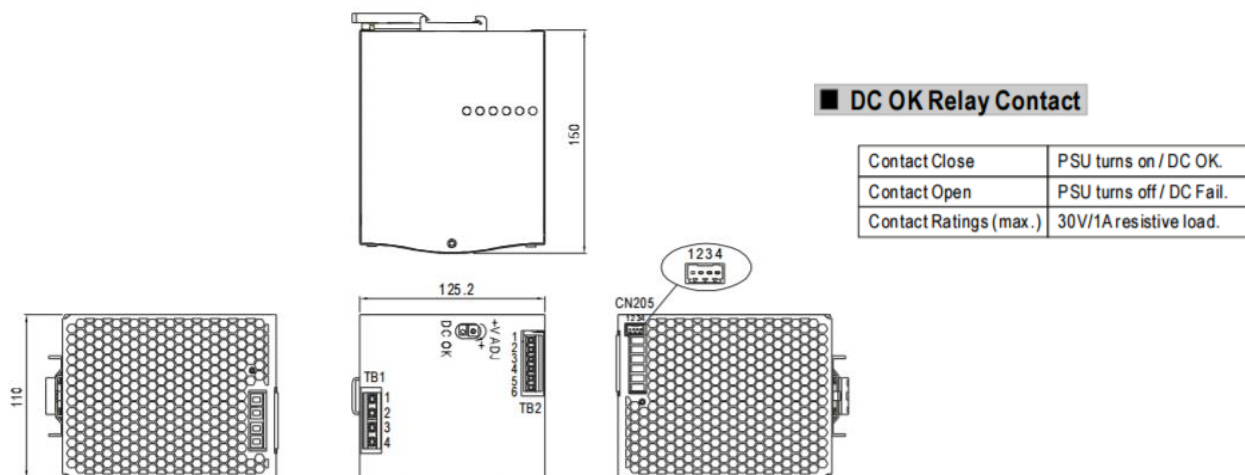
| Model | Output | Output Adj. Range | Ripple/Noise | Efficiency |
|-------------------|---------------|-------------------|--------------|------------|
| TDR-960-24 | 24.0 V / 40 A | 24 V ~ 28 V | 180 mV | 94% |
| TDR-960-48 | 48.0 V / 20 A | 48 V ~ 55 V | 250 mV | 94.5% |

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)

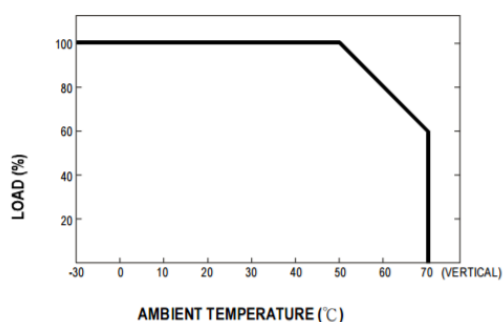
| Pin No. | Assignment |
|---------|--------------|
| 1,2,3 | DC OUTPUT +V |
| 4,5,6 | DC OUTPUT -V |

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

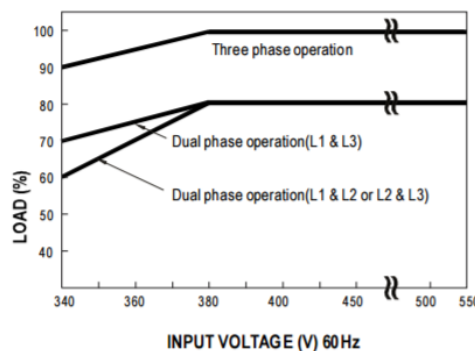
| Pin No. | Assignment | Mating Housing | Wire Diameter |
|---------|---------------------|--|---------------------------------------|
| 1 | P-(Current Share) | DINKLE ESC250V-04P or equivalent (including in the single package) | 0.081-0.517mm ² (28-20AWG) |
| 2 | P+(Current Share) | | |
| 3,4 | DC OK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