

# DIN Series

240~960W Slim 3-phase High Input Voltage



## Features

- 3-phase, 340~550VAC wide range input (2-phase operation possible)
- **Slim width**
- Built-in active PFC function (TDR-480/960)
- **High efficiency up to 94.5%**
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- 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
- **Current sharing up to 3840W(3+1) for TDR-960**
- Built-in DC OK relay contact (optional for TDR-480)
- 3 years warranty

## General Specification

Model No.	TDR-240	TDR-480	TDR-960
AC input voltage range	3-phase 340~550VAC (2-phase operation possible), 480~780VDC		
AC input current (Typ.)	0.95A / 400VAC, 0.75A / 500VAC	0.85A / 400VAC, 0.7A / 500VAC	2.0A / 400VAC, 1.4A / 500VAC
AC inrush current (max.)	Cold start, 50A at 400VAC		Cold start, 60A at 400VAC
DC adjustment range	24V: 24~28V, 48V: 48~55V		
Overload protection	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec., re-power on to recover		
Over voltage protection	Range	29~33V for 24V model, 56~65V for 48V model	
	Type	Shut down o/p voltage, re-power on to recover	
Over temperature protection	Shut down o/p voltage, auto-recovery after temperature goes down		
Withstand voltage	I/P-O/P:4.8kVAC I/P-FG:2.4kVAC O/P-FG:0.5kVAC O/P-DC OK: 0.5kVAC	I/P-O/P:3kVAC I/P-FG:2kVAC O/P-DC OK: 0.5kVAC(TDR-960; optional for TDR-480)	O/P-FG:0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL508, EN61558-2-16 approved	UL508, EAC TP TC 004 approved	
EMC standards	EN55032 class B, EN55032 class B(TDR-480 only), EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, heavy industry level, EAC TP TC 020(TDR-480/960 only)		
Connection (screw DIN terminal)	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles
Case No.	979C	984E	214A
Dimension (WxHxD)(mm)	63x 125.2x 113.5	85.5x 125.2x 128.5	110x 125.2x 150

## TDR-240 Series

**NEW** **CBCE**

Model No.	Output	Tol.	R&N	Effi.
TDR-240-24	24V, 0~10A	±1.0%	150mV	92%
TDR-240-48	48V, 0~5A	±1.0%	150mV	92%

## TDR-960 Series

**CBCE**

Model No.	Output	Tol.	R&N	Effi.
TDR-960-24	24V, 0~40A	±1.0%	180mV	94.0%
TDR-960-48	48V, 0~20A	±1.0%	250mV	94.5%

## TDR-480 Series

**NEW** **CBCE**

Model No.	Output	Tol.	R&N	Effi.
TDR-480-24	24V, 0~20A	±1.0%	150mV	92.5%
TDR-480-48	48V, 0~10A	±1.0%	150mV	93%