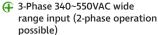


240ACDRT SC series

240 W - Single Output AC-DC Converter - Universal Input - Isolated & Regulated Industrial DIN Rail Power Supply





Protection: short circuit/ overload/over voltage/ over temperature

Bulit-in constant current limiting circuit

Built-in passive PFC function

DC output voltage adjustable

AC-DC Converter

240 Watt

The 240ACDRT SC series are designed with metal housing and for there phase system with wide range from 340VAC to 550 VAC.

The series offer built-in constant current limiting circuit and active PFC function, and operating in wide temperature range.

They are suitable for industrial-related applications such as industrial control, semiconductor fabrication equipment, and factory automation







Common specifications	
Operation temperature:	-30°C~+70°C (Refer to "Derating Curve")
Storage temperature:	-40°C ~+85°C
Storage humidity:	10 ~ 95 %RH (Non-condensing)
Operating humidity:	20 ~ 95 %RH (Non-condensing)
Vibration:	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compilance to EC60068-2-6
Operating altitude:	5000 meters
Over voltage category:	III; According to EN61558, EN50178, EN60664- 1, EN62477-1, EN60204-1; altitude up to 2000 meters
Safety standards:	UL61010-1, UL61010-2-201, BS EN/EN61558-1, BS EN/EN61558-216, EAC TP TC 004 approved, design refer to AS/NZS61558-1/-2-16
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:	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C/ 70% RH
MTBF(MIL-HDBK-217F@25°C):	>1534,900 hours (Min.) Telcordia SR-332(Bellcore); 215.6K hrs (Min.)
Dimensions:	63mm x 113mm x 125mm
Weight:	1000g Typ.

Input specifications					
Item	Test conditions	Min	Тур	Max	Units
Input Voltage Range	Three-Phase 340 ~ 550V connecting L1,L3,FG or L				ssible in
Input Frequency		47		63	Hz
Input Current	400VAC 500VAC		0.69 0.6		A A
Inrush Current (Cold start)			50		А
Power Factor	400VAC at full load 500VAC at full load		0.53 0.52		
Leakage Current	<2mA / 530VAC				

Example:

240ACDRT 24SC

240 = 240 Watts; AC = AC-DC; DR = Din Rail; T = 3-Phase input; 24 = Vout; S = Single Output; C = PFC (Power Factor Correction)

Output specificati	ons				
Item	Test conditions	Min	Тур	Max	Units
Voltage tolerance	Full load range		±1.0		%
Line regulation			±1.0		%
Load regulation			±0.5		%
Ripple & noise*	20MHz bandwidth • 240ACDRT_24SC • 240ACDRT_48SC			100 120	mVp-p mVp-p
Temperature Coefficient	(0-60°C)		±0.05		%/°C
Setup, rise time	2000ms, 60ms/400VAC a 1500ms, 60ms/500VAC a				
DC OK Signal	30VDC/1A Max.				
Efficiency (typ.)	92%				
Hold-up Time	20ms I 400VAC at full loa 40ms I 500VAC at full loa				
Over load	105 ~ 130% rated output power Protection type : Constant current limiting, unit will hiccup after 3 sec.				
Over voltage	30~36V 240ACDRT_24SC 56~65V 240ACDRT_48SC Protection type: Hiccup mode, recovers automatically after fault condition is removed.				
Over temperature	Shut down o/p voltage, recovers automatically after temperature goes down				
DC OK realy contact ratings (max.)	tact ratings				

*The "Tip and barrel method" is used for ripple and noise test, output parallel

Note:

- 1. All parameters NOT specially mentioned at 400VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12"" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Dual phase operation is allowed under certain derating to output load. Please refer to derating curves for details.
- 5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The ambient temperature derating of 3.5 °C/1000m for operating altitude higher
- than 2000m (6500ft).
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform hese EMC tests, please refer to "EMI testing of component power supplies."

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EMC specifications

Emissions BS EN/EN55032(CISPR32)/BS EN/EN61204-3

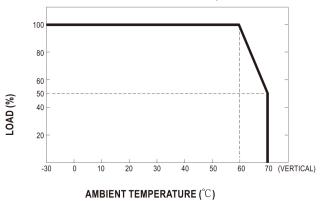
Immunity BS EN/EN61000-4-2, 3, 4, 5, 6, 8

Product Selection Guide

Certification	Part Number	Rated Power [W]	Nominal Output [Vo, VDC]	Rated Current [Io/A]	Output Voltage Adjustable [Range, V]*	Efficiency [%]
UL	240ACDRT_24SC	240	24V	10A	24-28	92
UL	240ACDRT_48SC	240	48V	5A	48-55	92

Typical characteristics

Deduction Curve And Temperature

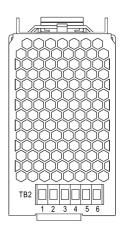


Minus Output And Input Voltage Curves Three phase operation Dual phase operation Dual phase operation

400 420 440 460 480 500

INPUT VOLTAGE (V) 60Hz

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.

340 360 380

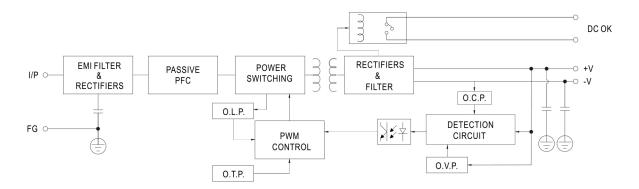
Output

No.	Description
5,6	DC OK Relay Contact

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Block Diagram



Mechanical dimensions

