



Features

- Universal AC input / Full range
- · Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- · 100% full load burn-in test
- · 3 years warranty

Applications

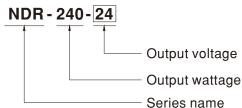
- · Industrial control system
- Semi-conductor fabrication equipment
- Factory automation
- · Electro-mechanical

Description

NDR-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 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

NDR-240 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -20°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 (UL508, TUV EN60950-1, and etc.) make NDR-240 a very competitive power supply solution for industrial applications.

Model Encoding





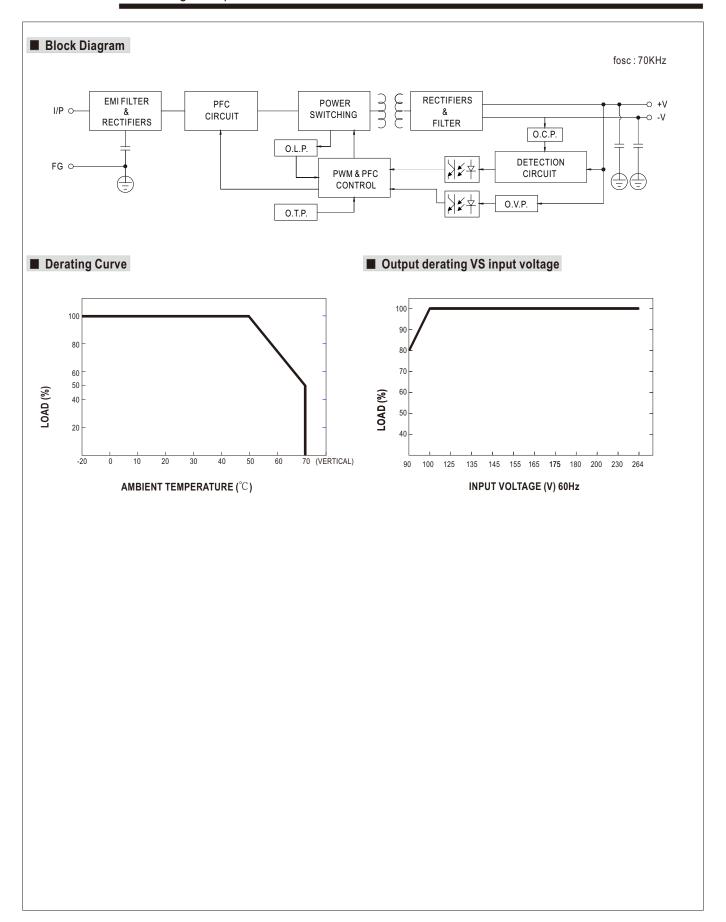
NDR-240 series

SPECIFICATION

DC VOLTAGE 24V	
CURRENT RANGE	
Note	
Note	
OUTPUT VOLTAGE ADJ. RANGE 24 ~ 28V 48 ~ 55V VOLTAGE TOLERANCE Note.3 ± 1.0% ± 1.0% LINE REGULATION ± 0.5% ± 0.5% LOAD REGULATION ± 1.0% ± 1.0% SETUP, RISE TIME 1500ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load HOLD UP TIME (Typ.) 28ms/230VAC 22ms/115VAC at full load VOLTAGE RANGE Note.4 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.98/115VAC, PF>0.95/230VAC at full load INPUT EFFICIENCY (Typ.) 88.5% 90% AC CURRENT (Typ.) 2.5A/115VAC 1.3A/230VAC	
VOLTAGE TOLERANCE Note.3 ±1.0% ±1.0% ±1.0%	
LINE REGULATION	
LOAD REGULATION	
SETUP, RISE TIME	
HOLD UP TIME (Typ.) 28ms/230VAC 22ms/115VAC at full load	
HOLD UP TIME (Typ.) 28ms/230VAC 22ms/115VAC at full load	
FREQUENCY RANGE	
POWER FACTOR (Typ.) PF>0.98/115VAC, PF>0.95/230VAC at full load 90%	
INPUT EFFICIENCY (Typ.) 88.5% 90% AC CURRENT (Typ.) 2.5A/115VAC 1.3A/230VAC	
INPUT EFFICIENCY (Typ.) 88.5% 90% AC CURRENT (Typ.) 2.5A/115VAC 1.3A/230VAC	
AC CURRENT (Typ.) 2.5A/115VAC 1.3A/230VAC	
INRUSH CURRENT (Typ.) 20A/115VAC 35A/230VAC	
LEAKAGE CURRENT <1mA/240VAC	
105 ~ 130% rated output power	
OVERLOAD Protection type: Constant current limiting, recovers automatically after fault condition is removed	
PROTECTION 29 ~ 33V 56 ~ 65V	
OVER VOLTAGE Protection type: Shut down o/p voltage, re-power on to recover	
OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down	
WORKING TEMP20 ~ +70°C (Refer to "Derating Curve")	
WORKING HUMIDITY 20 ~ 95% RH non-condensing	
ENVIRONMENT STORAGE TEMP., HUMIDITY $-40 \sim +85 ^{\circ}\text{C}$, $10 \sim 95 \%$ RH	
TEMP. COEFFICIENT $\pm 0.03\%$ °C (0 ~ 50 °C)	
VIBRATION Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-	;
SAFETY STANDARDS UI508, TUV EN60950-1 approved ;(meet EN60204-1)	
SAFETY & WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
(Note 4) EMC EMISSION Compliance to EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2,-3	
EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry lev	el, criteria A
MTBF 230.2K hrs min. MIL-HDBK-217F (25°C)	
OTHERS DIMENSION 63*125.2*113.5mm (W*H*D)	
PACKING 1Kg; 12pcs/13Kg/1.1CUFT	
 NOTE 1. All parameters NOT specially mentioned are measured at 230VAC 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. Derating may be needed under low input voltage. Please check the derating curve for more details. 5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently w In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that EMC directives. 	



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