





Main Features

- High efficiency and compact size
- Wide input voltage range
- Only 56mm width aluminum enclosure
- Isolated topology (4.2kVdc)
- Overload up to 150%
- Constant current or hiccup mode limitation, user settable
- Easy parallelable for power or redundancy (integrated ORing circuitry)
- Up to 70°C operating temperature with no derating

NDD241 Series 240W High Performance DIN Rail DC/DC converter



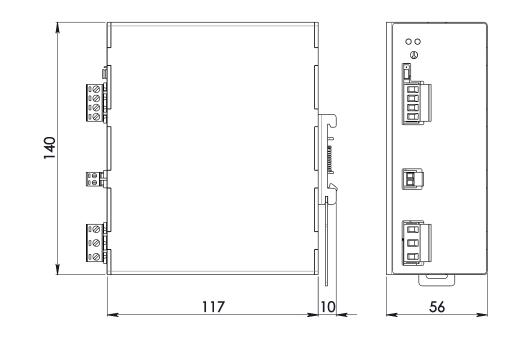
Model type	NDD241-11024P	NDD241-11036P	NDD241-11048P	NDD241-11072P
OUTPUT DATA				
Rated voltage	24Vdc	36Vdc	48Vdc	72Vdc
Adj. output voltage range	22.529Vdc 10A	3240Vdc 7A	4555Vdc 5A	7085Vdc 3.3A
Continuous current Overload limit in constant current mode	10A 11A	7A 8.5A	5A 5.5A	3.3A 3.5A
Overload limit in hiccup mode (max. 5s)	11A 16A	8.5A 11A	8.5A	5A
oad regulation		0%		0.5%
Ripple & Noise ¹		≤ 50r		
fold up time	≥ 50ms			
Protections	 Overload, short circuit: Constant current or Hiccup mode (user settable) Thermal protection Input undervoltage lockout Output overvoltage 			
Output overvoltage protection	≥ 33Vdc	≥ 51Vdc	≥ 68Vdc	≥ 100Vdc
itatus Signals	DC OK - green LED OVERLOAD - red LED DC OK - dry contact (N	NO, 24Vdc / 1A)		·
Parallel connection ²		Possible for power or redund	ancy (includes ORing circuit)	
NPUT DATA				
nput DC rated voltage		9034	15Vdc	
nput DC rated current				
/in = 110Vdc	3.2A	3.5A	3.	3A
/in = 345Vdc	0.9A	1.2A	1.	0A
nternal protection fuse	Fuse 8AT (not user replaceable)			
Recommended external protection	Fuse 10AT or MCB 10A C curve			
use DC rated devices)	It is strongly recommended to provide external surge arresters (SPD) according to local regulations.			
GENERAL DATA				
ifficiency depending on Vin)	89%91.5%			
Dissipated power depending on Vin)	30W22.5W			
Operating temperature ³	- 40°C+ 70°C			
Derating	No derating up to 70°C			
Storage temperature	- 40°C+ 80°C			
lumidity	595% r.H. non condensing			
ife time expectation	167'953h (19.1 years) at 25°C ambient full load			
MTBF	 MIL-HDBK-217F > 600'000h at 25°C ambient full load 			
Overvoltage category Pollution degree	 EN50178 IEC60664-1 	 2		
Protection Class	CLASS	1		
nput / output isolation			Vdc	
nput / ground isolation	4.2kVdc			
1 7 8	2.2kVdc			
Output / ground isolation	0.75kVdc			
Safety Standards	 UL508 IEC/EN61010-1 IEC/EN61010-2-201 IEC/EN60950 	(reference)		
EMC Emission	 EN55011 (CISPR11) EN55022 (CISPR22) 	Class B Class B		
EMC Immunity	 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11 	Level 3 Level 3 Level 4 Level 4 Level 2		
Protection degree	 EN60529 	IP20		
/ibration sinuosoidal	 IEC 60068-2-6 	(5-17.8Hz: ±1.6mm; 17.8-500	Hz: 2g 2hours / axis (X,Y,Z)	
ihock	 IEC 60068-2-27 	(30g 6ms, 20g 11ms; 3 bumps	/ direction, 18 bumps total)	
Connection terminals	2.5mm ² , screw type pluggable (2412AWG)			
Case material	Aluminum			
Weight	1.1kg			
Size (W x H x D)	56.0 x 140.0 x 117.0mm			

Notes: - Technical parameters are typical, measured in laboratory environment at 25°C and 150Vdc, at nominal values, after minimum 5 minutes of operation. - Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details. - Data may change without prior notice in order to improve the product.

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DIMENSIONS



CONNECTION

