











■ Main Features

-) High efficiency and compact size
- J Active PFC
- J Overload 150%
- J Usable for application where low line voltage is often present

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TECHNICAL DATA

Model type	1	NDSTAGO 24
Model type OUTPUT DATA		NPST480-24
Rated voltage		24Vdc
Adj. output voltage range		2328Vdc
Continuous current	20A	
Overload limit		28A
Short circuit peak current		50A
Load regulation		≤1%
Ripple & Noise ¹		≤ 50mVpp
Hold up time		≥ 20ms
Tiold up time	- Overdeed about singuity	
Protections	 Overload, short circuit: Thermal protection Output overvoltage 	niccup mode
Output overvoltage protection		≥ 33Vdc
Status Signals	DC OK - green LED OVERLOAD - red LED DC OK - dry contact (NO	, 24Vdc / 1A)
Parallel connection		Possible for redundancy (with external ORing module)
INPUT DATA		
		Nominal: 3 phases, 400500Vac (UL certified)
Input AC rated voltage	Range: 340550Vac	
Frequency		4763Hz
Input DC rated voltage	+	470725Vdc
		4/0/25VuC
Input AC rated current		1.24
Vin = 400Vac	1.3A	
Vin = 500Vac		1.1A
Input DC rated current		
Vin = 470Vdc		1.2A
Vin = 725Vdc	0.8A	
Power factor correction	Active / > 0.9	
Inrush peak current	≤ 60A	
Touch (leakage) current	≤ 0.5mA	
Internal protection fuse	None, external fuse must be provided	
internal protection ruse		
Recommended external protection	Fuse 3x 6.3AT or 3x MCB 6A C curve or 3x 4A D curve	
CENTER AL DATA	it is strongly reco	mmended to provide external surge arresters (SPD) according to local regulations.
GENERAL DATA		. 020/
Efficiency		> 92% < 42W
Dissipated power		
Operating temperature ²	- 40°C+ 70°C	
	UL certified up to 45°C	
Derating		-10W/°C over 45°C
Storage temperature		- 40°C+ 80°C
Humidity	595% r.H. non condensing	
Life time expectation	65'496h (7.4 years) at 25°C ambient full load	
MTBF	■ MIL-HDBK-217F	> 500'000h at 25°C ambient full load
	■ EN50178	III
Overvoltage category		
Pollution degree	■ IEC60664-1	2
Pollution degree Protection Class		
Pollution degree	■ IEC60664-1	2
Pollution degree Protection Class	■ IEC60664-1	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation	■ IEC60664-1	2 I 4.2kVdc 2.2kVdc
Pollution degree Protection Class Input / output isolation	■ IEC60664-1 ■ CLASS	2 I 4.2kVdc 2.2kVdc 0.75kVdc
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation	■ IEC60664-1 ■ CLASS ■ UL508	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563)
Pollution degree Protection Class Input / output isolation Input / ground isolation	 IEC60664-1 CLASS UL508 EN60950 	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563) (reference)
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation	IEC60664-1 CLASS UL508 EN60950 EN50178	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563) (reference) (reference)
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	IEC60664-1 CLASS UL508 EN60950 EN50178 EN55011 (CISPR11)	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563) (reference) (reference)
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation	CLASS UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22)	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	CLASS UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	CLASS UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563) (reference) (reference) (class A Class A Class A Level 3
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission	CLASS UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2 EN61000-4-3	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563) (reference) (reference) Class A Class A Class A Level 3 Level 3
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	CLASS UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4	2 I 4.2kVdc 2.2kVdc 0.75kVdc (certified E356563) (reference) (reference) (reference) Llass A Class A Class A Level 3 Level 3 Level 3 Level 3
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission	UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-3 EN61000-4-4 EN61000-4-5	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity	UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree	UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11 EN6529	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity	UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11	2 I
Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree	UL508 EN60950 EN50178 EN55011 (CISPR11) EN55022 (CISPR22) EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-11 EN6529	2 I

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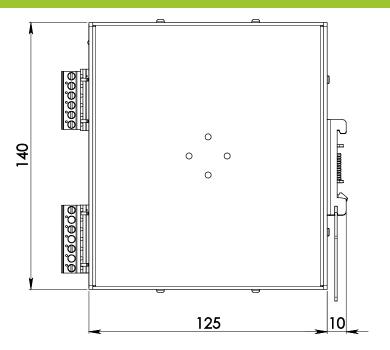
Connection terminals	2.5mm², screw type pluggable (2412AWG)
Case material	Aluminum
Weight	1.0kg
Size (W x H x D)	73.0 x 140.0 x 125.0mm

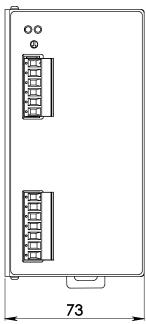
- 1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
- 2) Start-up type tested: 40°C, possible at nominal voltage with load deration.

Votes:

- Technical parameters are typical, measured in laboratory environment at 25°C and 400Vac / 50Hz, 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.

DIMENSIONS





CONNECTION



Input Connection:

3 phases:

- L1 = phase 1
- L2 = phase 2
- L3 = phase 3
- I = Earth ground

DC:

- L1 = + Positive DC
- L2 = Negative DC
- L3 = do not connect
- I = Earth ground

Output Connection:

- + = Positive DC
- -= Negative DC

Signalling:

DC OK: dry contact

- NO
- COM

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