











■ Main Features

-) High efficiency and compact size
- J Overload 150%
-) Constant current or hiccup mode limitation, user settable
- *J* Easy parallelable for power increase
- J Natural convection cooling
- J 72V output model as standard

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TECHNICAL DATA

Manual trans	NIDSTEON 42	NIDCTEO4 24	NIDCTEO4 40	NIDCTEO4 72
Model type	NPST501-12	NPST501-24	NPST501-48	NPST501-72
OUTPUT DATA	1214	24/1	4011	7011
Rated voltage	12Vdc	24Vdc	48Vdc	72Vdc
Adj. output voltage range	1215Vdc	2328Vdc	4555Vdc	7285Vdc
Continuous current	40A	20A	10A	6.7A
Overload limit in constant current mode	44A	22A	11A	7.5A
Overload limit in hiccup mode (max. 5s)	60A	30A	15A	10A
Load regulation	≤ 2.5%	≤ 1%		0.5%
Ripple & Noise ¹	≤ 150mVpp		≤ 100mVpp	
Hold up time		≥ 2	Oms	
Protections	 Overload, short circuit: Constant current or Hiccup mode (user settable) Thermal protection Output overvoltage 			
Output overvoltage protection	≥ 18Vdc	≥ 33Vdc	≥ 68Vdc	≥ 100Vdc
Status Signals	DC OK - green LED OVERLOAD - red LED DC OK - dry contact (No		2 000 00	2 100740
Parallel connection ² INPUT DATA		Possible for power or redundan	cy (with external ORing module)	
		Nominal: 3 phases, 400)500Vac (UL certified)	
Input AC rated voltage ³	Nominal: 3 phases, 400500Vac (UL certified) Range: 340550Vac 4763Hz			
Frequency				
nput DC rated voltage	+			
Input DC rated voltage	_	520	725Vdc	
Input AC rated current			2.4	
Vin = 400Vac			3A	
Vin = 500Vac		1.	1A	
Input DC rated current Vin = 520Vdc	1.2A			
Vin = 725Vdc		0.	9A	
nrush peak current ⁴ / I ² t		≤ 42A /	1.16A²s	
			L5mA	
Touch (leakage) current				
			e must be provided	
		None, external fus	e must be provided	
Internal protection fuse Recommended external protection	It is strongly reco	None, external fus	x MCB 10A C curve	local regulations.
nternal protection fuse Recommended external protection GENERAL DATA		None, external fus Fuse 3x 10AT or 3 ommended to provide external su	x MCB 10A C curve urge arresters (SPD) according to	
nternal protection fuse Recommended external protection GENERAL DATA Efficiency	> 89%	None, external fus Fuse 3x 10AT or 3 pmmended to provide external su > 9:	x MCB 10A C curve urge arresters (SPD) according to 3.5%	> 94%
nternal protection fuse Recommended external protection GENERAL DATA Efficiency		None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W	
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C.	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W + 70°C	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C.	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifie	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W + 70°C	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C.	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C.	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C .over 50°C+ 80°C on condensing	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation	> 89% < 59W	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63′200h (7.2 years) at	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C on condensing 25°C ambient full load	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63′200h (7.2 years) at	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C .over 50°C+ 80°C on condensing	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF	> 89% < 59W	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63′200h (7.2 years) at	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C on condensing 25°C ambient full load	> 94%
nternal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category	> 89% < 59W	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C on condensing 25°C ambient full load	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C on condensing 25°C ambient full load	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1	None, external fus Fuse 3x 10AT or 3 parameterial su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C on condensing 25°C ambient full load °C ambient full load	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C .over 50°C+ 80°C on condensing 25°C ambient full load condensing condensing	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C over 50°C+ 80°C on condensing 25°C ambient full load °C ambient full load	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25 III 2 I 4.21 2.21	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C .over 50°C+ 80°C on condensing 25°C ambient full load condensing condensing	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25 III 2 I 4.21 2.21	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation	> 89% < 59W • MIL-HDBK-217F • EN50178 • IEC60664-1 • CLASS	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25 III 2 I 4.21 0.75	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation	> 89% < 59W - MIL-HDBK-217F - EN50178 - IEC60664-1 - CLASS	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563)	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
nternal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	> 89% < 59W I MIL-HDBK-217F EN50178 IEC60664-1 CLASS UL508 EN60950 EN50178	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 40°C. 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference)	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
nternal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	> 89% < 59W - MIL-HDBK-217F - EN50178 - IEC60664-1 - CLASS - UL508 - EN60950 - EN50178 - EN50178 - EN55011 (CISPR11)	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) Class A	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards	> 89% < 59W - MIL-HDBK-217F - EN50178 - IEC60664-1 - CLASS - UL508 - EN60950 - EN50178 - EN55017 (CISPR11) - EN55022 (CISPR22)	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C. 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) Class A Class A	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
nternal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certified - 4.5W/°C. 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2l 0.75 (certified E356563) (reference) (reference) (class A Class A Level 3	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certified - 4.5W/°C - 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25 III 2 I 4.21 2.21 0.75 (certified E356563) (reference) (reference) (reference) Class A Class A Class A Level 3 Level 3 Level 3	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25 III 2 I 4.2i 0.75 (certified E356563) (reference) (reference) (reference) Class A Class A Level 3 Level 3 Level 3 Level 3	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission	> 89% < 59W I MIL-HDBK-217F I EN50178 I IEC60664-1 I CLASS UL508 I EN60950 EN50178 I EN50178 I EN50178 I EN50178 I EN5000-4-2 I EN61000-4-2 I EN61000-4-3 I EN61000-4-4 I EN61000-4-5	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) (class A Class A Class A Level 3 Level 3 Level 3 Level 3 Level 4	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity	> 89% < 59W I MIL-HDBK-217F I EN50178 I IEC60664-1 I CLASS UL508 I EN60950 EN50178 I EN55011 (CISPR11) EN55022 (CISPR22) I EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-5 EN61000-4-11	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) (class A Class A Class A Level 3 Level 3 Level 3 Level 4 Level 2	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity	> 89% < 59W I MIL-HDBK-217F I EN50178 I IEC60664-1 I CLASS UL508 I EN60950 EN50178 I EN50178 I EN50178 I EN50178 I EN5000-4-2 I EN61000-4-2 I EN61000-4-3 I EN61000-4-4 I EN61000-4-5	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) (class A Class A Class A Level 3 Level 3 Level 3 Level 3 Level 4	x MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C cover 50°C+ 80°C on condensing 25°C ambient full load cover are the second of the s	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree	> 89% < 59W I MIL-HDBK-217F I EN50178 I IEC60664-1 I CLASS UL508 I EN60950 EN50178 I EN55011 (CISPR11) EN55022 (CISPR22) I EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-5 EN61000-4-11	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) (class A Class A Class A Level 3 Level 3 Level 3 Level 4 Level 2	k MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C+ 80°C on condensing 25°C ambient full load condensing co	> 94%
Touch (leakage) current Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Output / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree Vibration sinuosoidal Shock	> 89%	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63′200h (7.2 years) at > 500′000h at 25 III 2 I 4.2I 2.2I 0.75 (certified E356563) (reference) (reference) (reference) (class A Class A Class A Level 3 Level 3 Level 3 Level 3 Level 4 Level 2 IP20 (5-17.8Hz: ±1.6mm; 17.8-500)	k MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C+ 80°C on condensing 25°C ambient full load can be arrested to the condension of the con	> 94%
Internal protection fuse Recommended external protection GENERAL DATA Efficiency Dissipated power Operating temperature ⁵ Derating Storage temperature Humidity Life time expectation MTBF Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards EMC Emission EMC Immunity Protection degree Vibration sinuosoidal	> 89% < 59W I MIL-HDBK-217F I EN50178 I IEC60664-1 I CLASS UL508 I EN60950 EN50178 I EN50178 I EN50178 I EN5020 (CISPR11) EN55022 (CISPR22) I EN61000-4-2 I EN61000-4-3 I EN61000-4-3 I EN61000-4-5 I EN61000-4-11 I EN60529 I IEC 60068-2-6	None, external fus Fuse 3x 10AT or 3 commended to provide external su > 93 < 3 - 40°C. UL certifier - 4.5W/°C - 595% r.H. n 63'200h (7.2 years) at > 500'000h at 25 III 2 I 4.21 2.21 0.75 (certified E356563) (reference) (reference) (reference) (class A Class A Level 3 Level 3 Level 3 Level 3 Level 3 Level 4 Level 2 IP20 (5-17.8Hz: ±1.6mm; 17.8-500 (30g 6ms, 20g 11ms; 3 bump)	k MCB 10A C curve urge arresters (SPD) according to 3.5% 4W+ 70°C d up to 50°C+ 80°C on condensing 25°C ambient full load can be arrested to the condension of the con	> 94%

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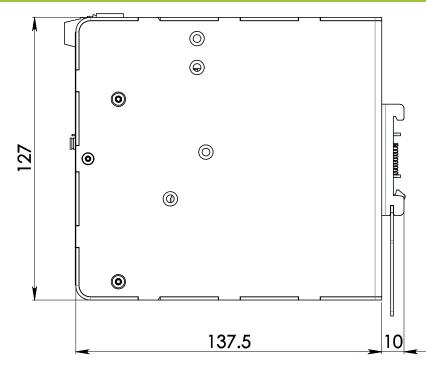
Case material	Aluminum	
Weight	1.3kg	
Size (W x H x D)	80.0 x 127.0 x 137.5mm	

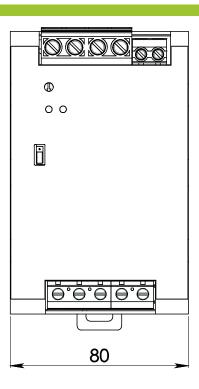
- 1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor.
- 2) Pay attention, set the current limitation mode jumper on C.C. mode when connecting more units in parallel.
- 3) In case of 2 phases operation, reduce the output load to 50% of the nominal value.
 4) Peak current measured after 0.2ms from main connection; 400Vac/50Hz; Ambient temperature at 25°C; Cold Start.
- 5) Start-up type tested: 40°C, possible at nominal voltage with load deration.

- 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

- 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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