NEF210











Main Features

- Ultra-compact DC Overcurrent Protector with 2 independent channels
- Classic circuit breaker shape
- Input: 10...31Vdc / 20A Max.
- Output: 10A Max. / channel (user settable, independently)
- Digital Power regulation
- Programmable Static Switch function
- Advanced CPU control allows set-up of various tripping curves
- Modbus over USB interface for control and monitoring
- Suitable for **POWERMASTER** software (available for Windows and Android OS)



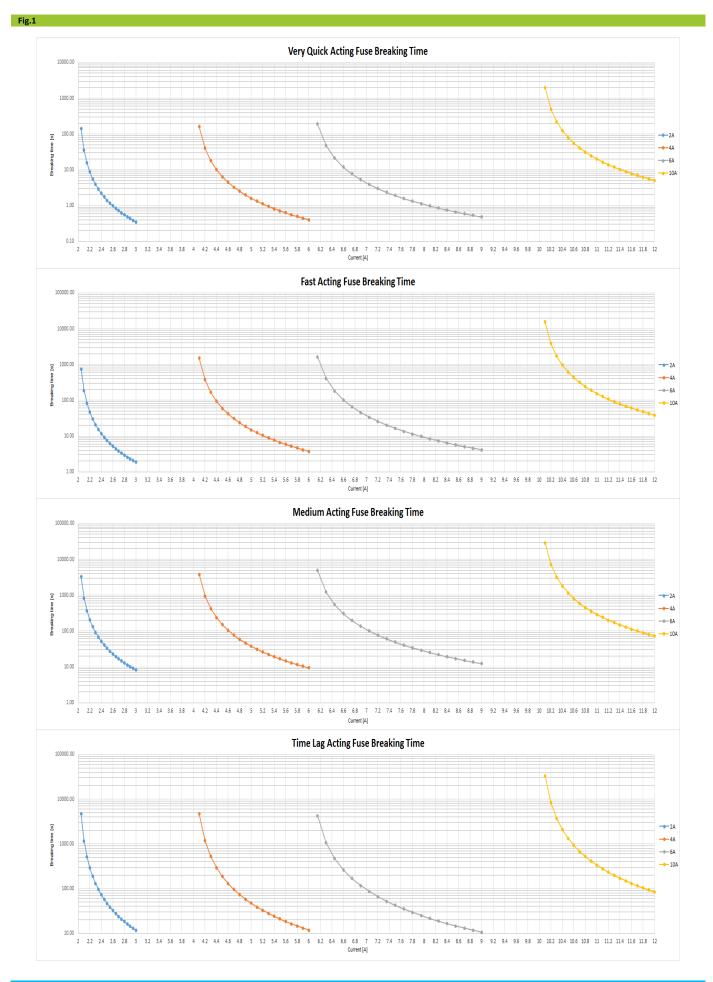
TECHNICAL DATA

Vlodel type		NEF210
GENERAL DATA		
Rated surge voltage		0.5kVdc
nput DC rated voltage		Nominal: 1224Vdc
	Range: 1031Vdc (UL certified)	
Maximum input current	20A	
Maximum capacitive load circuit	> 40000µF (per channel at 24Vdc)	
Active current limitation	1.5 x I _N (2A / 4A / 6A), 1.2 x I _N (10A)	
Tripping thresholds	2A / 4A / 6A / 10A per channel, user settable via front keys or USB	
	 Very Quick Acting 	
lime - current characteristic	 Fast Acting Medium Acting 	
see charts on Fig.1)	.) Time Lag	
	 User settable via Modbus 	s
Naiting time after switch OFF of a		5
channel	20s (overload / short circuit)	
	< 25mΩ	
Conduction resistance		
Efficiency	> 98.5%	
Dissipated power		< 5.5W
Standby power	< 1W	
Required backup fuse	Not required, integrated failsafe element	
nternal protection fuse	15Adc (per output channel)	
Protections	Overvoltage > 33V	
rotections		
Status signals	OUT A/B - OK one LED of the channel is ON	
	 OUT A/B - TRIPPED all the LEDs of the channel are blinking STATUS SIGNAL - remote fault indicator (at least 1 channel tripped) by optoisolator (30Vdc / 50mA / Open collector) 	
User interface	 RESET - remote reset INPUT by optoisolator (530Vdc / 20mA) SET A /B - key for channel arming / rearming 	
	 SET A/B - key for channel arming / rearming Modbus over mini USB-B interface, suitable for POWERMASTER software 	
	 Modbus over mini USB-B 	
Operating temperature	- 40°C+ 70°C	
	UL certified up to 65°C	
Derating	No derating	
Storage temperature	- 40°C+ 80°C	
lumidity		595% r.H. non condensing
Overvoltage category	 EN50178 	
Pollution degree	■ IEC60664-1	2
Protection class	Class	-
	UL508	(certified E356563)
Safety standards	 OLS08 EN60950 	(reference)
	 EN60950 EN50178 	(reference)
		· ·
EMC emission	 EN55011 (CISPR11) EN55022 (CISPR22) 	Class B Class B
EMC immunity	EN61000-4-2	Level 3
	 EN61000-4-3 EN61000-4-4 	Level 3 Level 2
	 EN61000-4-4 EN61000-4-5 	Level 2 Level 1
	 EN61000-4-5 EN61000-4-11 	Level 1 Level 2
Protection degree	 EN60529 	
/ibration sinuosoidal	 IEC 60068-2-6 	(5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)
Shock	IEC 60068-2-27	(30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)
Connection terminals	2.5mm ² , screw type header (2412AWG)	
Case material	Plastic, Flame retardant UL94 V-0	
Weight		
/v Cigiii	0.10kg	
ize (W x H x D)		35.0 x 90.0 x 61.5mm

Technical parameters are typical, measured in laboratory environment at 25°C and 24Vdc, 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.

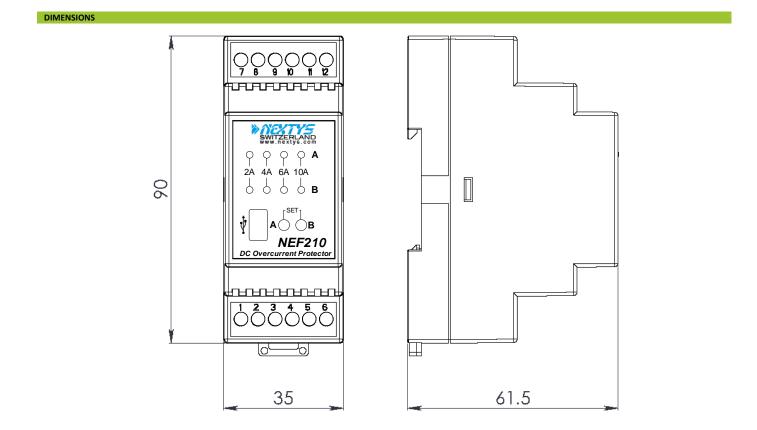
- Data may change without prior notice in order to improve the product.





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CONNECTION

