











Main Features

• Ultra-compact DC Overcurrent Protector with 2 independent High channels

DIGITAL PUWER

- 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 **POWERMAGTER** software (available for Windows and Android)

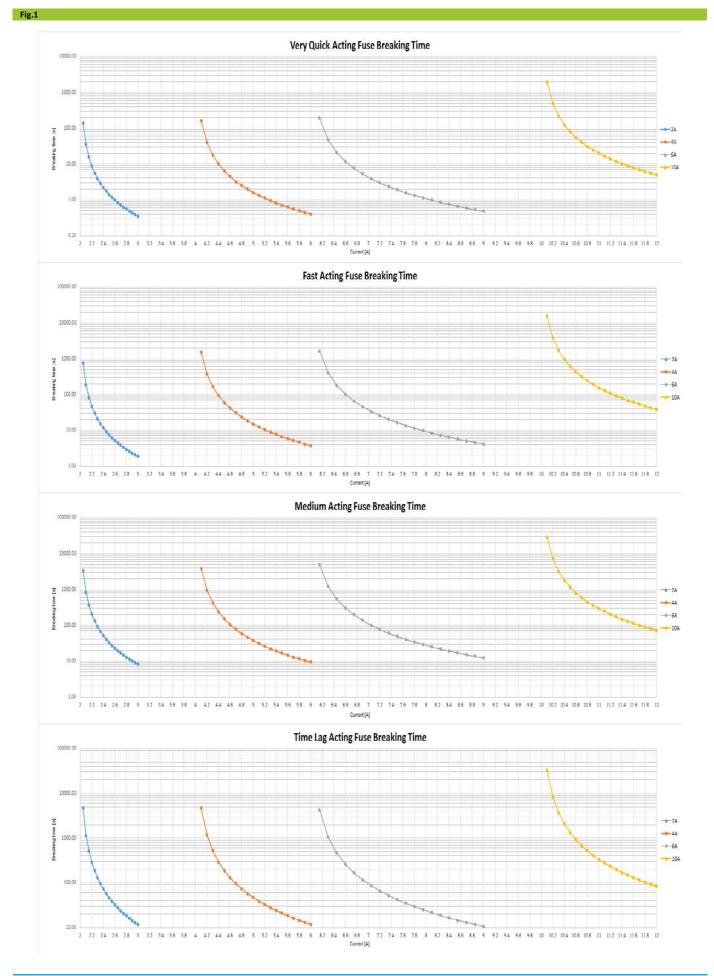


TECHNICAL DATA

| Лodel type | NEF210 |
|--|---|
| SENERAL DATA | |
| ated surge voltage | 0.5kVdc |
| nput DC rated voltage | 1031Vdc |
| Maximum input current | 20A |
| Aaximum 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) |
| ripping thresholds | 2A / 4A / 6A / 10A per channel, user settable via front keys or USB |
| ime - current characteristic see charts on Fig.1) | Very Quick Acting Fast Acting Medium Acting Time Lag User settable via Modbus |
| Vaiting time after switch OFF of a hannel | 20s (overload / short circuit) |
| Conduction resistance | < 25mΩ |
| fficiency | > 98.5% |
| Dissipated power | < 5.5W |
| | |
| itandby power | < 1W |
| equired backup fuse | Not required, integrated failsafe element |
| nternal protection fuse | 15Adc (per output channel) |
| Protections | Overvoltage > 33V |
| tatus Signals Jser interface | 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) RESET - remote reset INPUT by optoisolator (530Vdc / 20mA) SET A/B - key for channel arming / rearming Modbus over mini USB-B interface, suitable for POWERMAGTER software |
| x | |
| Operating temperature | - 40°C+ 70°C |
| Derating | No derating |
| torage temperature | - 40°C+ 80°C |
| lumidity | 595% r.H. non condensing |
| Overvoltage category | • EN50178 I |
| Pollution degree | • IEC60664-1 2 |
| Protection Class | Class II |
| afety Standards | EN60950 (reference) |
| Salety Standards | EN50178 (reference) |
| MC Emission | EN55011 (CISPR11) Class B |
| | EN55022 (CISPR22) Class B |
| MC Immunity | • EN61000-4-2 Level 3 • EN61000-4-3 Level 3 • EN61000-4-4 Level 2 • EN61000-4-5 Level 1 • EN61000-4-11 Level 2 |
| Protection degree | EN60529 IP20 |
| /ibration sinuosoidal | IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) |
| hock | 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 |
| Veight | 0.10kg |
| veight | |

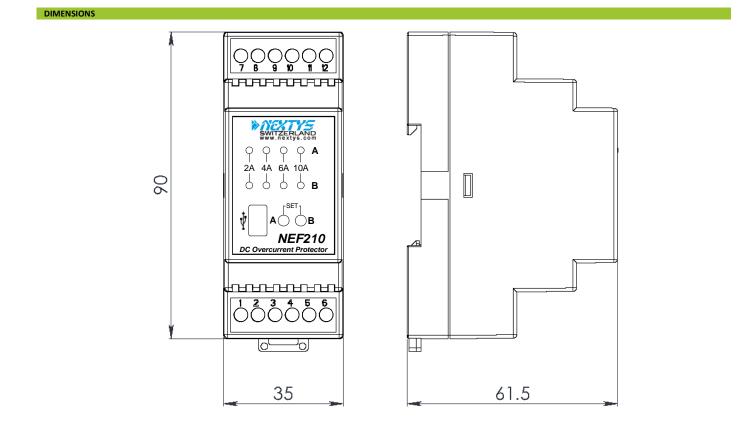
- Technical parameters are typical, measured in laboratory environment at 25°C and 24Vdc, at nominal values, after minimum 5 minutes of operation.
 - Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
 - Data may change without prior notice in order to improve the product.





NEF210





CONNECTION

