

Technical Datasheet

TRETEC 2406 N



J. Schneider
Elektrotechnik



Switch mode power supply

NFPG 1529G01001

(TRETEC 2406 N)

1 Short description

The **TRETEC 2406 N** is a switch mode power supply of the latest generation, which is characterised by its high efficiency and the resulting minimum power losses. The device also works with power boost function (output 7,5 A \leq 5 seconds at 60°C). The **TRETEC N** can be operated in a redundant way. It is possible to connect the device in series (max. 2 units) and in parallel up to 3 units without decoupling module. Due to its modern design it can be operated with a peak current in temperatures up to 45° C without load reduction.

2 Technical Data

Input	
Input	3 x 360 V ... 500 VAC \pm 10 % 500 V ... 700 VDC \pm 10 %
Network	TN-S, TN-C, TT, IT grid
Nominal frequency	50 / 60 Hz \pm 6 %
Nominal current	0,45 A @ 3 x 360 V AC 0,30 A @ 3 x 500 V AC
Efficiency	92,5 %
No load power losses	2,2 W
Recommended pre-fusing max.	Max. 3 x 20 A (T) in house installation
Recommended circuit breaker	3 x 3...20 A characteristics C
Output	
Voltage	24 VDC \pm 1%
Voltage adjustable	24-28 VDC / Potentiometer in front plate
Residual ripple	< 20 mV eff / rms
Output current max. 45°C	6,0 A
Derating at 60°C	5,0 A
at 70°C	3,7 A
Ride-through	> 25 ms
"Power Boost" current	7,5 A > 5 s without voltage drop
Short circuit current	after "Power Boost" follows constant current: 5,5 A
Switching in parallel	3 devices
Switching in series	2 devices
Connection input	
Terminal strip	4 x 6 mm ² with Push-In spring-type terminals
Connection output	
Terminal strip	4 x 2,5 mm ² with Push-In spring-type terminals

Document

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Reg.-Nr. 2750

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Alarm contact	
Potential-free alarm contact for pre-warning at overload, overheating or short-circuit	30 V AC/DC 50 mA (ohmic)
Over voltage protection	yes
Terminal strip	2 x 2,5 mm ² Push-In spring-type terminals
Classification of environmental conditions	class 3K3 according to EN 60721
Relative humidity	95%, no condensation
Environmental temperature	-40 ... +70 °C see Derating
Storage temperature	-40 ... +85 °C
MTBF according to DIN EN 61709:1999-01, SN 29500, DIN EN ISO 13849-1:2008-12	> 506.805 h
Housing	
Dimensions	143 x 50 x 143 mm (H x W x D)
Weight	0,66 kg
Protection class	I
IP Protection	IP 20
Degree of pollution	2
Fixation	Snap-on mounting on DIN rail
Installation direction	vertical
Material	metal

3 Norms and regulations

EN 61204-3
EN 61000-3-2/-3
EN 61000-4-2/-3/-4/-5/-6/-11
IEC / EN 60950-1
EN 60204-1
SEMI F47 – 0706
EN 60950-1 overvoltage categorie II
UL 508

CE-approval according to EMI standard 2014/30/EU and low voltage standard 2014/35/EU and EU standard 2011/65/EU (RoHS - standard) of the European Parliament and of the European Council from 8th of June 2011 for the limitation of the use of certain dangerous material in electrical and electronic devices (amended version).