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DC-DC CONVERTER 600/24 V DC

600/24 V DC, 20 A

QTD20.241 PSU 600V dc I/P 24V dc 20A 480W O/P

- · Optimized for intermediate DC-bus of Drive Systems
- 20 A
- 65 mm wide
- Up to 95% efficiency
- Integrated primary fuses



PRODUCT DESCRIPTION

The DC-DC converter is optimized to connect on the frequency converter's dc bus/stage. This voltage is usually not filtered, has high EMI interference and leaves high leakage currents. The converter has a very robust input stage and filter, which provides safe operation even at very disturbing power supply. Duplicate 600V dc fuses are built-in, which saves space and money. At power outages, the motors act as generators and reset voltage to the frequency converter capacitors which, in turn, output voltage to the dc-dc converter. This means that 24V dc is maintained and a controlled stop can be performed. The bonus effect gives 25% extra reserve with retained 24V which is an advantage when connected loads have high starting current. The converter has polarity protection and minimal input current. In addition, there is a relay output (dc OK) that falls when the output voltage deviates more than 10% from the set value.

TECHNICAL DATA

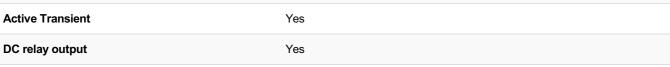
INPUT DATA

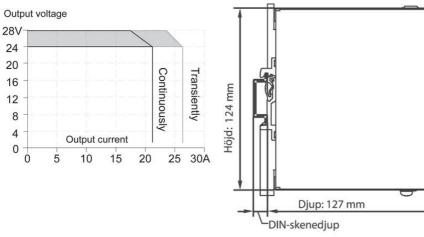
| Input voltage dc | 600 V |
|----------------------|-----------------------|
| Input voltage dc min | 480 V DC |
| Input voltage dc max | 840 V DC |
| Inrush current | Typ. 1,6 A @ 600 V DC |
| Max entrance tripple | 50 V pp |
| OUTPUT DATA | |
| Output voltage | 24 V DC |
| Output voltage min | 24 V DC |
| Output voltage max | 28 V DC |
| Output current | 20 A |
| Power | 480 W |



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| EFFICIENCY / LIFETIME / MTBF | |
|-----------------------------------|---------------------------------|
| Efficiency | 95 % |
| Life span | 42000 h @ 24 V DC, 20 A, 40 °C |
| MTBF (IEC 61709) | 446000 h @ 24 V DC, 20 A, 40 °C |
| DIMENSIONS | |
| Width | 65 mm |
| Height | 124 mm |
| Depth | 127 mm |
| Weight | 0.89 kg |
| OTHER | |
| Approvals | CE, CSA, UL |
| Keep time | Typ. 22 ms @ 600 V DC |
| IP class | IP20 |
| Clamp type | Spring-clamp |
| Material protection | Aluminium |
| Ripple max | 100 mV pp |
| Series | Dimension Q |
| Power drop from +60 °C to + 70 °C | 12 W/°C |
| Temperature min without derating | -25 °C |
| Temperature max without derating | 60 °C |
| Startup delay | 350 ms |
| Type Power Supply | DC-DC |
| Active Transient | Yes |







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