

**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**

Max entrance tripple	50 V pp
Inrush current	Typ. 1,6 A @ 600 V DC
Input voltage dc max	840 V DC
Input voltage dc	600 V
Input voltage dc min	480 V DC

**OUTPUT DATA**

Output voltage min	24 V DC
Output voltage	24 V DC
Output voltage max	28 V DC
Power	480 W
Output current	20 A

## EFFICIENCY / LIFETIME / MTBF

Life span	42000 h @ 24 V DC, 20 A, 40 °C
Efficiency	95 %
MTBF (IEC 61709)	446000 h @ 24 V DC, 20 A, 40 °C

## DIMENSIONS

Weight	0,89 kg
Depth	127 mm
Width	65 mm
Height	124 mm

## OTHER

IP class	IP20
Startup delay	350 ms
Ripple max	100 mV pp
Power drop from +60 °C to + 70 °C	12 W/°C
Clamp type	Spring-clamp
Temperature min without derating	-25 °C
Series	Dimension Q
Keep time	Typ. 22 ms @ 600 V DC
Approvals	CE, CSA, UL
Temperature max without derating	60 °C
Material protection	Aluminium
Type Power Supply	DC-DC
Active Transient	Yes
DC relay output	Yes



