

DC-DC CONVERTER 600/24 V DC

600/24 V DC, 20 A

QTD20.241

Powersupply 480-840VDC/24VDC 20A

- 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.

SPECIFICATIONS

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
Type Power Supply	DC-DC
Start-Up Delay	350 ms
Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output Current	20 A

Effect	480 W
Power Reduction Of 60 To 70 ° C	12 W/°C
Ripple. max	100 mV pp
Temperature Range Without Derating From	-25 °C
Temperature Range Without Derating To	60 °C
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
Width	65 mm
Height	124 mm
Depth	127 mm
Weight	0.89 kg
Clamp type	Spring-clamp
Series	Dimension Q
Approvals	CE, CSA, UL
DC relay output	Yes
Material Protection	Aluminium
Keep time	Typ. 22 ms @ 600 V DC
IP Class	IP20
Active Transient	Yes



