

## 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

<b>Input voltage DC</b>	600 V
<b>Input voltage dc min</b>	480 V DC
<b>Input voltage dc max</b>	840 V DC
<b>Inrush current</b>	Typ. 1,6 A @ 600 V DC
<b>Max entrance tripple</b>	50 V pp
<b>Type Power Supply</b>	DC-DC
<b>Start-Up Delay</b>	350 ms

<b>Output voltage</b>	24 V DC
<b>Output voltage min</b>	24 V DC
<b>Output voltage max</b>	28 V DC
<b>Output Current</b>	20 A

<b>Effect</b>	480 W
<b>Power Reduction Of 60 To 70 ° C</b>	12 W/°C
<b>Ripple. max</b>	100 mV pp
<b>Temperature Range Without Derating From</b>	-25 °C
<b>Temperature Range Without Derating To</b>	60 °C

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

<b>Width</b>	65 mm
<b>Height</b>	124 mm
<b>Depth</b>	127 mm
<b>Weight</b>	0.89 kg

<b>Clamp type</b>	Spring-clamp
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<b>Series</b>	Dimension Q
<b>Approvals</b>	CE, CSA, UL
<b>DC relay output</b>	Yes
<b>Material Protection</b>	Aluminium
<b>Keep time</b>	Typ. 22 ms @ 600 V DC
<b>IP Class</b>	IP20
<b>Active Transient</b>	Yes



