



POWER SUPPLY

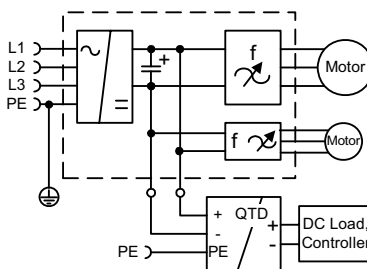
- 600Vdc Input Voltage
- Optimized for Intermediate DC-busses of Drive Systems
- Two Input Fuses for 600Vdc Included
- Efficiency up to 95%
- Width only 65mm
- 125% Peak Load Capability
- Active Input Transient Filter
- Full Power Between -25°C and +60°C
- Minimal Inrush Current
- Reverse Input Polarity Protection
- DC-OK Relay Contact
- Quick-connect Spring-clamp Terminals
- 3 Year Warranty

1. GENERAL DESCRIPTION

Modern machines typically use maintenance-free AC-motors which are controlled by frequency converters or servo amplifiers. Such devices have an intermediate DC-bus where all individual drives are connected.

The QTD20 power supply can be connected directly to the intermediate DC-bus. In case of a mains failure, the QTD20 utilizes the power from the DC-bus capacitors which are charged from the kinetic energy of the motor until the motor has come to a complete stop.

Intermediate DC-buses are not usually filtered and have high EMI noise superimposed. The QTD20 has a very robust input stage and an appropriate input filter included.



Additionally, the QTD20 is UL 508 approved and is equipped with input fuses which are rated and tested for 600Vdc applications.

2. SHORT-FORM DATA

Output voltage	DC 24V	
Adjustment range	24-28V	
Output current	20A	continuous, 24V
	25A	for typ. 4s, 24V
Output power	480W	continuous, 24V
	600W	for typ. 4s, 24V
Output ripple	< 100mVpp	20Hz to 20MHz
Input voltage	DC 600V	
	480-840Vdc	continuous
	360-480Vdc	< 1 minute
	840-900Vdc	or with reduced output current
Input current	0.85A	600Vdc, 24V, 20A
Inrush current	typ. 1.5A peak	
Efficiency	95.0%	at 600Vdc
Losses	25.5W	at 600Vdc
Temperature range	-25°C to +70°C	operational
Derating	12W/°C	+60 to +70°C
Hold-up time	typ. 22ms	at 600Vdc
Dimensions	65x124x127mm	wxhxd

3. ORDER NUMBERS

Power Supply	QTD20.241	600V→24V Converter
Accessory	ZM1.WALL	Wall mount bracket
	ZM14.SIDE	Side mount bracket
	YR2.DIODE	Decoupling module
	UF20.241	Buffer unit

4. MARKINGS

