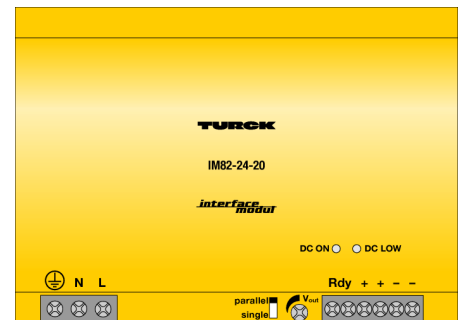
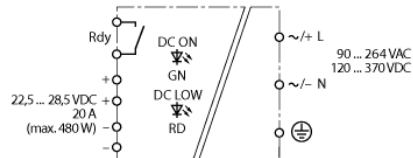


Switching Power Supply Module IM82-24-20



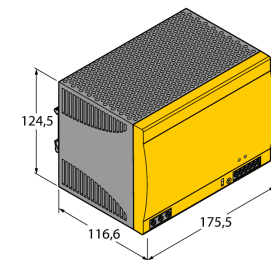
The IM82-24-20 power supply unit is designed for DC consumers, in particular for the supply of switching and monitoring devices of the TURCK IM, IME, IMS and IMC series.

The power supply provides 24 VDC output voltage and 20 A output current. With the potentiometer V_{out} the output voltage can be adjusted in a range between 22.5...28.5 VDC. The device provides safety extra-low voltage (SELV) according to EN 60950.

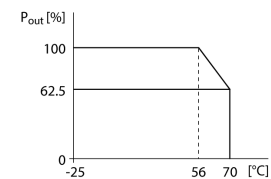
The power supply can be set to single or parallel operating mode.

- Output voltage adjustable 22.5...28.5 VDC
- Nominal current 20 A
- Single/parallel operating mode
- Surge protection
- Universal operating voltage
- Mains failure bridging up to 30 ms
- High efficiency
- Parallel operation possible
- Natural air cooling
- Power-good relay
- cULus listed
- Safety extra-low voltage SELV IEC/EN 60950
- SEMI-F47

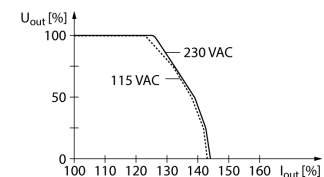
Dimensions



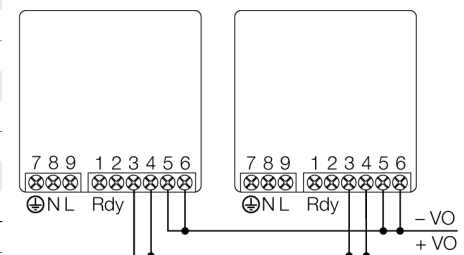
Derating



Short-circuit behaviour



Parallel operation



Type	IM82-24-20
ID	7545044
Nominal voltage	Universal voltage supply unit
Operating voltage	90...264 VAC
Frequency	47...63 Hz
Operating voltage	120...370 VDC
Power consumption	≤ 564 VA
Power dissipation, typical	≤ 63 W
PFC	0.99
Efficiency	89 %
External fuse	B16A
Internal fuse	T 10 A / 250 VAC
Inrush current	U _i = 115 VAC, 25 A; U _i = 230 VAC, 50 A
Mains buffering	U _i = 115 VAC, 30 ms; U _i = 230 VAC, 30 ms
Output circuits	
Nominal output voltage	24 V
Adjustment range	22.5...28.5 V
Nominal current	20 A
Output circuits (digital)	relay (NO), > 17.6 ... 19.4V
Output switching voltage relay	≤ 60 VDC / ≤ 250 VAC
Switching current per output	≤ 0.3 A
Overload protection	120...140 %
Surge limiting	125...137 %
Parallel mode	yes, switchover initiated by a switch, max. 3 devices each with 90 % load current
Ripple	100 mV
Pollution degree	2
Surge category	II
Short-circuit behaviour	Current limiting
Response characteristic	
Limit frequency	≤ 60000 Hz
Galvanic isolation	
Test voltage	3.0 kV
Displays/Operating elements	
Operational readiness	Green
Error indication	red
Mechanical data	
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-25...+70 °C
Storage temperature	-25...+85 °C
Derating	4 %/°C from 61 °C
Dimensions	124.5 x 175.5 x 116.6 mm
Weight	2304 g
Mounting instructions	DIN rail (NS35)
Housing material	Metal
Electrical connection	Screw terminals
Terminal cross-section	0.2...6.0 mm²
Tightening torque	0.6 Nm