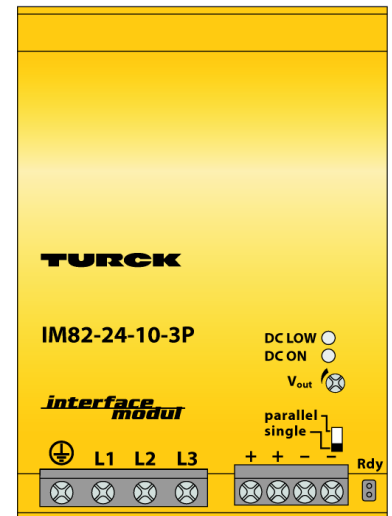
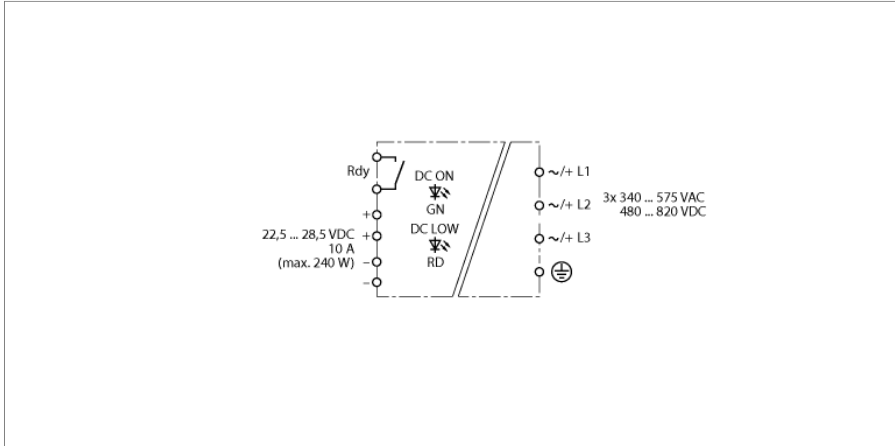


# Switching Power Supply Module IM82-24-10-3P



The IM82-24-10-3P 3-phase power supply unit is designed for DC consumers, in particular for the supply of switching and monitoring devices of the TURCK IMX, IM, IME, IMS and IMC interface module series.

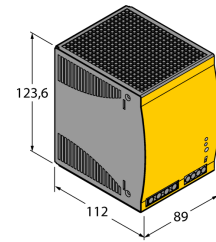
The power supply provides 24 VDC output voltage and 10 A output current. With the potentiometer  $V_{out}$  the output voltage can be adjusted in a range between 22.5...28.5 VDC. The device provides safety extra-low voltage (SELV) according to EN 60950.

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

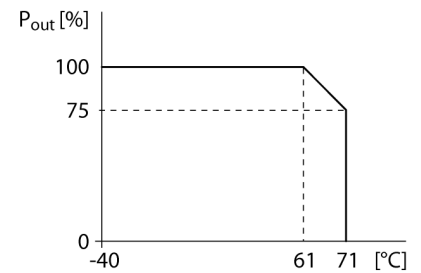
- Output voltage adjustable 22.5...28.5 VDC
- Nominal current 10 A
- Single/parallel operating mode
- Surge protection
- 3-phase power supply
- Universal operating voltage
- Mains buffering up to 20 ms
- High efficiency
- Natural air cooling
- Power-good relay
- cULus listed
- Safety extra-low voltage SELV IEC/EN 60950

Type	IM82-24-10-3P
ID	7545046
<b>Nominal voltage</b>	
Nominal voltage	Universal voltage supply unit
Operating voltage	320...575 VAC
Frequency	47...63 Hz
Operating voltage $U_o$	480...820 VDC
Power dissipation, typical	$\leq 30$ W
PFC	0.6
Efficiency	90 %
External fuse	3xB6A
Internal fuse	T 3 × T 2 A/600 VAC
Inrush current	20 A
Residual ripple	$\leq 100$ mV <sub>ac</sub>
Mains buffering	20 ms
<b>Output circuits</b>	
Nominal output voltage	24 V
Adjustment range	22.5...28.5 V
Nominal current	10 A
Output circuits (digital)	relay (NO), > 17.6 ... 19.4V
Output switching voltage relay	$\leq 60$ VDC / $\leq 250$ VAC
Switching current per output	$\leq 0.3$ A
<b>Surge limiting</b>	
Surge limiting	125...137 %
Parallel mode	up to 2 devices with 90% load current, switching with DIP-switch
Ripple	100 mV
Pollution degree	2
Surge category	II
Short-circuit behaviour	Hiccup mode
<b>Response characteristic</b>	
Limit frequency	$\leq 25000$ Hz
<b>Galvanic isolation</b>	
Test voltage	3.0 kV
<b>Displays/Operating elements</b>	
Operational readiness	Green
Error indication	red
<b>Mechanical data</b>	
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-40...+70 °C
Storage temperature	-25...+85 °C
Derating	-2.5 %/°C from 61 °C
Dimensions	118 x 89 x 124 mm
Weight	1272 g
Mounting instructions	DIN rail (NS35)
Housing material	Metal, Polycarbonate/ABS
Electrical connection	Screw terminals
Terminal cross-section	0.2...2.0 mm <sup>2</sup>
Tightening torque	0.5 Nm

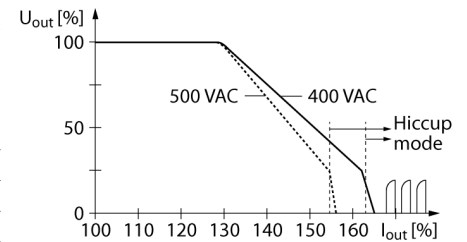
## Dimensions



## Derating



## Output relay – Electrical lifetime



## Parallel circuit

