



MPC^{net} TR16/TR36

Features

- Temperature monitoring and power setpoint adjustment in one module
- Measurement of load or residual current up to 16 A
- Power setpoint adjustment 1- and 3-phase
- Recording of up to two temperatures

Description

The TR16 and TR36 power modules combine the functions of all MPC^{net} I/O modules in one single module. Each module has two Pt100 inputs and digital inputs for monitoring RCCBs and limiters. For each heating circuit the heating power can be adjusted steplessly between 10 % and 100 % for up to three phases, whereby the load and total current are monitored.

The modules are operated and supplied via the TM04 or TS04 power module controllers. The set point value is determined by the MC32 controller.

The internal, galvanically isolated bus connection is established by simply joining the modules together by means of RJ-45 plug connectors.

➔ Technical data

Enclosure material

Polyamide PA

Protection class (EN 60529)

IP 20

Electrical connections

plug-in screw-type terminals, 3-pole terminal range 0.2 to 2.5 mm² numbered plug connectors RJ-45, RS485

Fastening onto mounting rail

TH 35-15 DIN EN 60715 (metal)

Abmessungen (W x H x D)

TR16 62.5 mm x 110 mm x 114.5 mm
TR36 126 mm x 110 mm x 114.5 mm

Masse

TR16 410 g
TR36 775 g

Lager- und Transporttemperatur

-30 °C bis +70 °C

Betriebstemperatur

0 °C bis +45 °C

Verschmutzungsgrad

2

■ Electrical data

Number of channels

TR16 1 x L (1-phase)
TR36 1 x L1, 1 x L2, 1 x L3
each AC 230 V/16 A

Inputs

2 x Pt100 (controllers and limiters)
2 x digital input (RCCB and limiter monitoring)
Load input L1, L2, L3 and N

Galvanic isolation

between inputs and internal bus

Voltage supply

DC 24 V through RJ45 cable, RS485

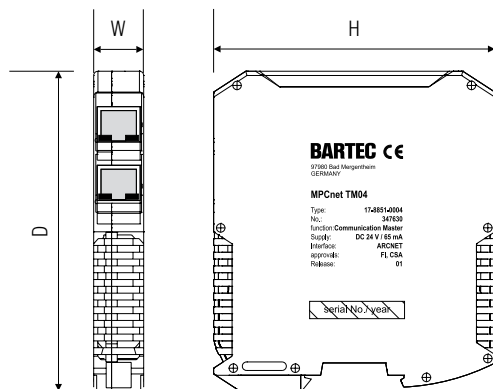
Current consumption

TR16 91 mA
TR36 91 mA

Displays

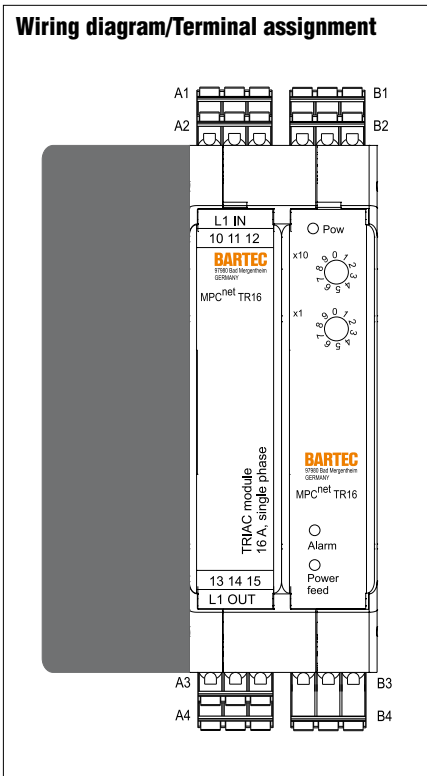
LEDs in the front of enclosure:
Status, net alarm, power

Dimensions (in mm)



	W	H	D
TR16	62.5	110	114.5
TR36	126	110	114.5

Wiring diagram/ Terminal assignment



Terminal block	Terminal	Description	Terminal block	Terminal	Description
A1 (C1/D1 in TR36)	L1 (2/3) IN	Supply L	B1 (TC)	1	Supply +
	L1 (2/3) IN	Supply L		2	Signal
	L1 (2/3) IN	Supply L		3	Supply -
A2	10	N	B2 (TL)	4	Supply +
	11	Supply +		5	Signal
	12	not assigned		6	Supply -
A3	13	Limiter monitoring	B3	RJ45	Connection of TM04
	14	Limiter monitoring			
	15	Limiter monitoring			
A4 (C4/D4 in TR36)	L1 (2/3) OUT	eating cable L	B4	7	Connection of FI
	L1 (2/3) OUT	eating cable L		8	Connection of FI
	L1 (2/3) OUT	eating cable L		9	not assigned

➔ Order no.

**MPC^{net} TR16 power module
17-8851-0006**

**MPC^{net} TR36 power module
17-8851-0007**

Technical data subject to change without notice.