

EM122-TCP-MID

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

General ordering data

Version	direct measurement, Power measurement/display for 1-, 3-phase mains, 100 A
Order No.	3145600000
Type	EM122-TCP-MID
GTIN (EAN)	4099987572507
Qty.	1 items

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Technical data

Approvals

ROHS Conform

Dimensions and weights

Depth	65 mm	Depth (inches)	2.5591 inch
Height	100 mm	Height (inches)	3.937 inch
Width	72 mm	Width (inches)	2.8346 inch
Net weight	328.6 g		

Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-25 °C...55 °C
Humidity at operating temperature	0...90 % (no condensation)	Humidity	0...90 % (no condensation)

Measuring current input

Housing main material	Plastic	AC input cable connection	Directly at the device
Current-measuring channels	3	Measuring accuracy for current	0.5 %
Max. current	100 A		

Measuring voltage input

Low voltage network	3 phase 3 wire (L1 + L2 + L3), 1 phase 2 wire (L1 + L2), 3 phase 4 wire (L1 + L2 + L3 + N)	Voltage type	AC
Frequency range, max.	65 Hz	Frequency range, min.	45 Hz
Measuring accuracy for voltage	0.5 %	Three-wire system	Yes
Measurement range, voltage L-L, AC	400 V	Measurement range, voltage L-N, AC	3 x 230 V
Four-wire system	Yes		

Communication

Communication	Bi-directional	Addressing	1 - 247
Interface	Ethernet	Protocol	Modbus/TCP

Inputs/outputs

Digital output configurable	Yes	Temperature input	No
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Measurement data recording

Software EM configuration tools

Technical data

Display value	current measured value, Voltage, Apparent power	Version	direct measurement, Power measurement/ display for 1-, 3-phase mains, 100 A
Input frequency	50/ 60 Hz	Display	LCD
Type of mounting	DIN rail	Protection degree	IP51
Pollution severity	2	Power factor input	1 %
Measurement accuracy	Class 0.5	Max. current	100 A
Display monitoring (monitor)	LCD	Measurement range, voltage L-N, AC	3 x 230 V

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Measurement range, voltage L-L, AC	400 V	Supply voltage	230 V
Three-wire system	Yes	Four-wire system	Yes
Continuous measurements	Yes	Current-measuring channels	3
Measuring accuracy for voltage	0.5 %	Measuring accuracy for current	0.5 %
Measurement accuracy for active energy Class 0.5 (kWh, .../5 A)			

Voltage quality measurement

Brief interruptions Yes

Insulation coordination

Impulse withstand voltage	6 kV (1.2/50 µs)	Pollution severity	2
Tolerance class	0,5	Insulation voltage input or output/supply 4 kVeff / 1 min.	

Classifications

ETIM 8.0	EC002301	ETIM 9.0	EC002301
ETIM 10.0	EC002301	ECLASS 14.0	27-14-23-30
ECLASS 15.0	27-14-23-30		

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Accessories

Feed-through and PE terminal Blocks



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Type	ZDU 16/3AN BL	Version	
Order No.	1768330000	Feed-through terminal, Tension-clamp connection, 16 mm ² , 800 V,	
GTIN (EAN)	4032248122820	76 A, blue	
Qty.	20 ST		

End plates and partition plates



Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

Type	ZAP/TW 10/16 BL	Version	
Order No.	1768520000	Z-series, End plate, Partition plate	
GTIN (EAN)	4032248110421		
Qty.	20 ST		