EMCT ‹EMCT-160, EMCT-250, EMCT630, EMCT1000›

CT blocks for three-phase systems

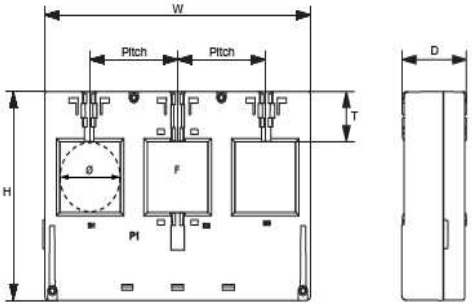
- Measure all loads up to 1000 A with just 4 references
- Class 1 for the overall measurement chain (energy meter + EMCT-XX three-phase CT blocks)
- Accuracy of measurement according to IEC 61557-12 standard
- Flexible mounting: sensors can be mounting in either direction
- Backplate, bus bar or DIN-rail mounting
- Quick connection via RJ12 cable for error-free connection

Selection guide

Four distinct configurations are available, each tailored to a specific nominal and maximum current range. These variants differ in size and weight, offering flexible options to meet diverse installation and performance requirements.

ELECTRICAL FEATURES	EMCT-160	EMCT-250	EMCT-630	EMCT-1000
Nominal current range In	40 ... 160 A	63 ... 250 A	160 ... 630 A	400 ... 1000 A
Actual coverage range	0.8 ... 192 A	1.26 ... 300 A	3.2 ... 756 A	8 ... 1200 A
Max. current	192 A	300 A	756 A	1200 A
Weight	150 g	200 g	350 g	500 g
Max. voltage (phase/neutral)	600 V			
Rated withstand voltage	3.6 kV / 1min			
Frequency	50/60 Hz			
Measurement category	CAT III			
Protection degree	IP30 / IK06			
Operating temperature	-10 ... +70 °C			
Storage temperature	-25 ... +85°C			
Relative humidity	95% RH condensation-free			
Altitude	< 2000 m			
Connection	RJ12 cable			

Dimensions (mm)



MODEL	Pitch (mm)	H x W x D (mm	ØF (mm)
EMCT-160	24.8	71 X 75 X 32.8	13.5
EMCT-250	35	78 x 105 x 32.8	21
EMCT-630	45	92 x 135 x 32.8	31
EMCT-1000	55	106 x 165 x 32.8	41

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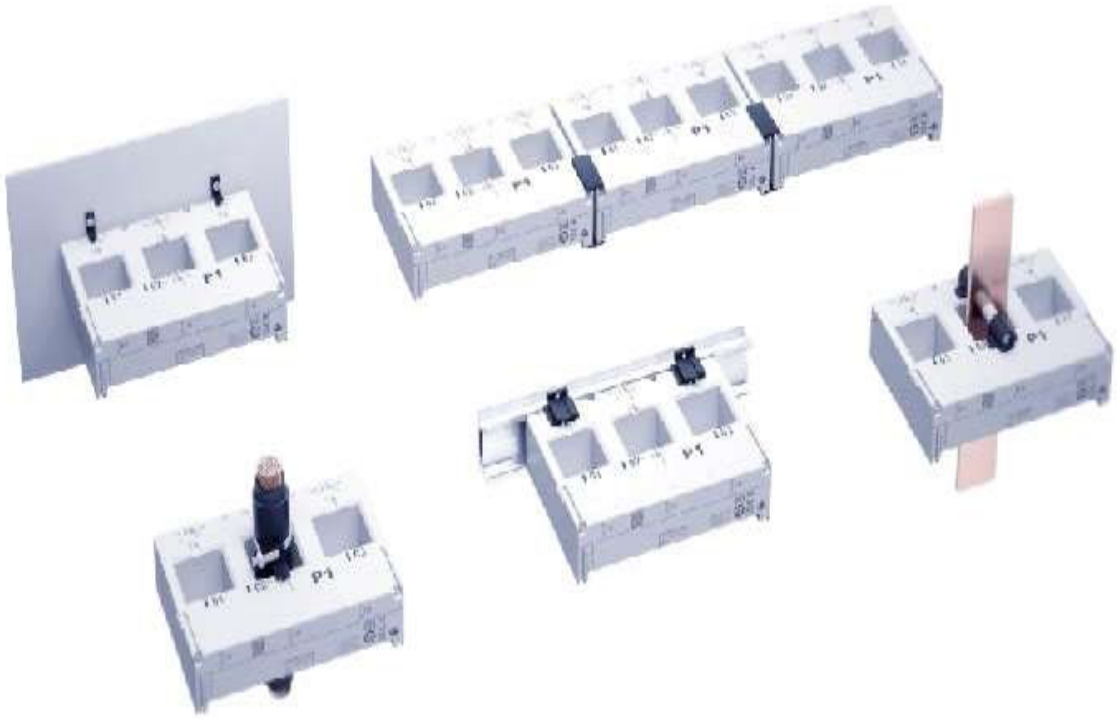
» Compatible accessories

Mounting

Flexible installation options for **cables** or **bars,** combined with **DIN-rail** or **backplate mounting**, make the EMCT series suitable for a wide spectrum of applications—from compact electrical setups to high-power industrial environments.



Connection

The system uses a dedicated RJ12 signal cable to establish a direct connection between the energy meter and the three-phase current transformer blocks.

The signal cable is available in standard lengths of **1**, **3**, **5** and **10 m** to accommodate various installation layouts.

» UEM2L, UEM4L

ORDER CODE	MODEL	NOMINAL VOLTAGE AND FREQUENCY	POWER SUPPLY	CURRENT INPUT	CHANNELS	COM PORT
1124.0001.0001	UEM4L-A R	3x230/400V 50/60Hz	100 ... 277 V	EMCT CT blocks (not included)	4	RS485
1124.0002.0001	UEM2L-A R	3x230/400V 50/60Hz	100 ... 277 V	EMCT CT blocks (not included)	2	RS485

» EMCT range

ORDER CODE	MODEL	CURRENT RANGE	PITCH	ØF	REFERENCES
5401.0001.0001	EMCT-160	40 ... 160 A	24,8 mm	13.5 mm	UEM4L-A R, UEM2L-A R
5401.0002.0001	EMCT-250	63 ... 250 A	35 mm	21 mm	UEM4L-A R, UEM2L-A R
5401.0003.0001	EMCT-630	160 ... 630 A	45 mm	31 mm	UEM4L-A R, UEM2L-A R
5401.0004.0001	EMCT-1000	400 ... 1000 A	55 mm	41 mm	UEM4L-A R, UEM2L-A R

Accessories for wall/panel/bar/DIN mounting included.

» R12 connection cable

ORDER CODE	CABLE LENGTH	REFERENCES
7504.0001.0001	1 m	UEM4L-A R, UEM2L-A R, EMCT-160, EMCT-250, EMCT-630, EMC-1000
7504.0002.0001	3 m	UEM4L-A R, UEM2L-A R, EMCT-160, EMCT-250, EMCT-630, EMC-1000
7504.0003.0001	5 m	UEM4L-A R, UEM2L-A R, EMCT-160, EMCT-250, EMCT-630, EMC-1000
7504.0005.0001	10 m	UEM4L-A R, UEM2L-A R, EMCT-160, EMCT-250, EMCT-630, EMC-1000

Available cable lengths are listed in the above table.
During the installation, is not mandatory tp use the same length for all channels, different lengths can be used with different CT blocks.

NOTE: Subject to change without notice

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