



MFO Series Current Transformers

MFO series current transformers are available for primary currents between 5 Amps and 2500 Amps, offering reliability and class 1 accuracy, making them suitable for a large range of industrial applications.

The MFO series current transformers are available in four different physical sizes all with a staggered rectangular aperture, ideally suited for busbars. They are enclosed in a protective ABS housing ensuring excellent mechanical strength and electrical insulation.

The MFO series current transformers have fixing feet, a busbar clamp kit and terminal cover as standard. Optional DIN rail mounting clips are available for mounting the current transformers to 35mm DIN rail.

Models Available

MFO30 Busbar Type Current Transformer

MFO40 Busbar Type Current Transformer

MFO60 Busbar Type Current Transformer

MFO100 Busbar Type Current Transformer

Product Features

- Staggered aperture ideal for busbars
- Moulded ABS plastic housing
- 5 Amp secondary
- Accuracy class 1
- Mounting feet
- Screw type terminals
- Terminal cover included
- Busbar clamp kit included
- Optional DIN rail mounting clip

For transforming high AC current to a proportional 5 Amp output

Specification

Reference Standard:

- BS7626-1993, BS3938

Accuracy:

- Class 1 ($\pm 1\%$ max. error)

Primary Input Current:

- 0-5A to 0-2500A (see range data table)

Secondary Current:

- 0-5A

Overload:

- To BS3938 - IEC 185

Operating Voltage:

- 600Vac maximum

Test Voltage:

- 2kV rms 50Hz for 1 minute

Frequency:

- 50/60/400Hz

Burden:

- See range data table

Enclosure:

- Flame retardant ABS
- Surface mounting or busbar mounting
- Optional DIN rail mounting clip available
- M4 screw terminals
- IP40 enclosure code
- Insulation class E

Operating Temperature:

- -20°C to 70°C

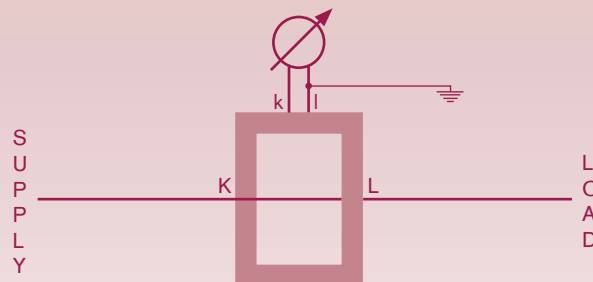
Weight:

- See range data table

Markings:

- CE marked

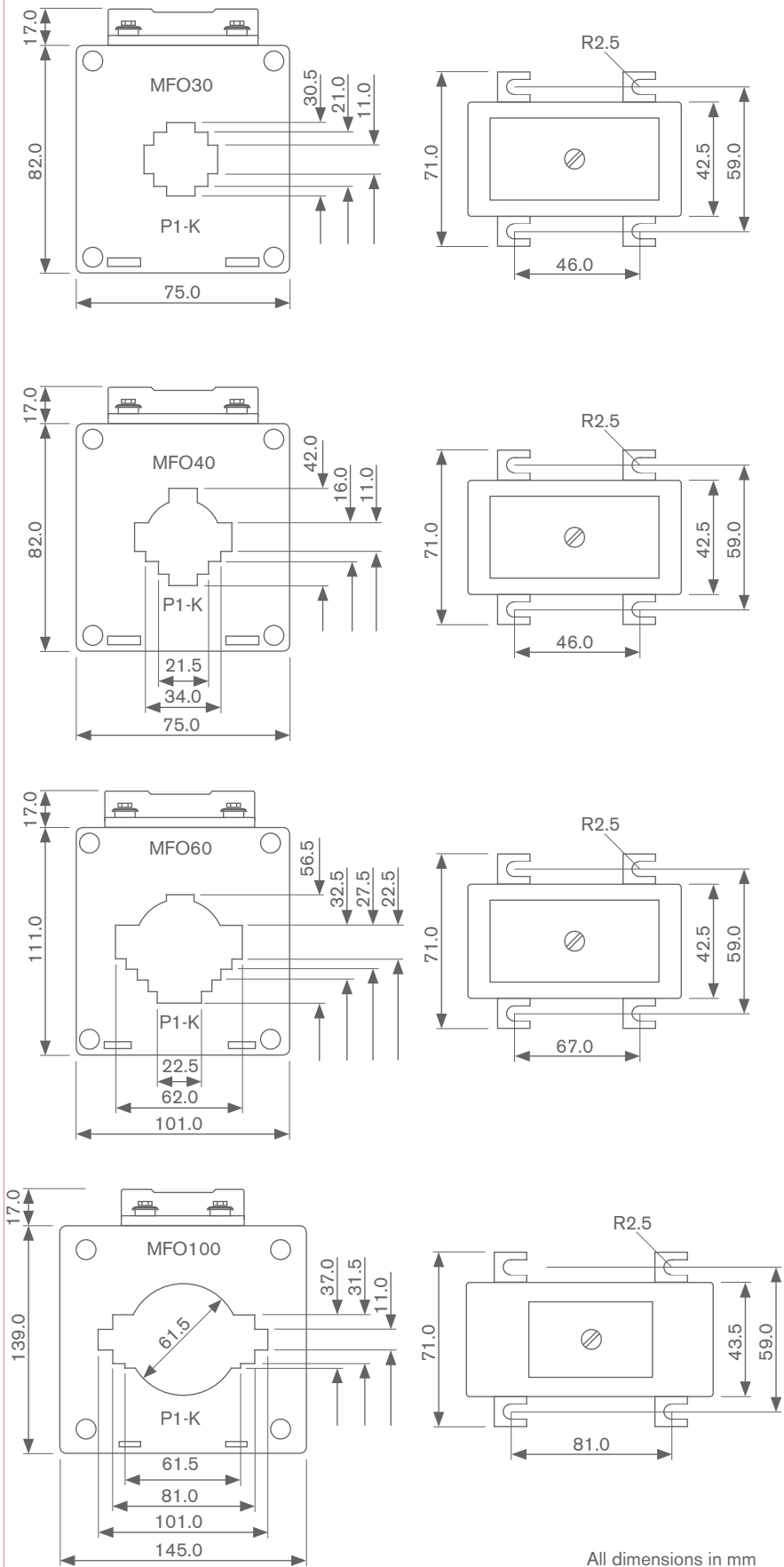
Connections



Ordering information

Code	Model & Size	Ratio
MFO30	Busbar Type CT	5/5, 10/5, 15/5, 20/5, 25/5, 30/5, 40/5 50/5, 60/5, 80/5, 100/5, 120/5, 150/5
MFO40	Busbar Type CT	200/5, 250/5, 300/5, 400/5
MFO60	Busbar Type CT	500/5, 600/5, 800/5
MFO100	Busbar Type CT	1000/5, 1200/5, 1500/5, 1600/5, 2000/5, 2400/5, 2500/5
DRMC1	-	DIN rail mounting clip for MFO30/MFO40
DRMC2	-	DIN rail mounting clip for MFO60
DRMC3	-	DIN rail mounting clip for MFO100
Example	MFO40	300/5

Dimensions



All dimensions in mm

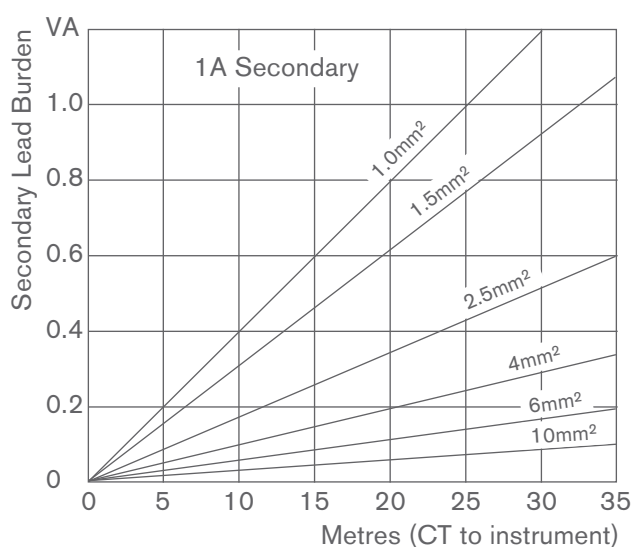
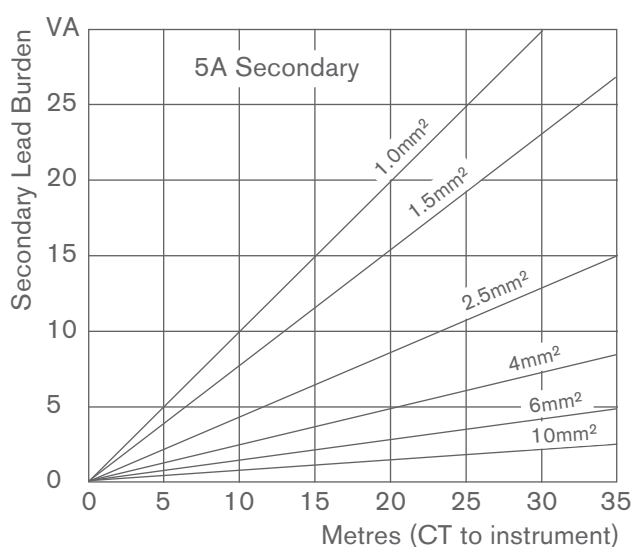
Range Data

Model	Primary Current (Amps)	Secondary Current (Amps)	Burden (VA)	Through Turns	Hole Diameter (mm)	Weight (grams)
MFO30-5/5	5	5	3	10	21	600
MFO30-10/5	10	5	3	10	21	600
MFO30-15/5	15	5	3	4	21	600
MFO30-20/5	20	5	3	5	21	600
MFO30-25/5	25	5	3	2	21	600
MFO30-30/5	30	5	3	2	21	600
MFO30-40/5	40	5	3	2	21	600
MFO30-50/5	50	5	3	1	21	600
MFO30-60/5	60	5	3	1	21	600
MFO30-80/5	80	5	3	1	21	600
MFO30-100/5	100	5	3	1	21	600
MFO30-120/5	120	5	3	1	21	600
MFO30-150/5	150	5	3	1	21	600
MFO40-200/5	200	5	3	1	31	600
MFO40-250/5	250	5	3	1	31	600
MFO40-300/5	300	5	3	1	31	600
MFO40-400/5	400	5	3	1	31	600
MFO60-500/5	500	5	5	1	45	600
MFO60-600/5	600	5	5	1	45	600
MFO60-800/5	800	5	5	1	45	600
MFO100-1000/5	1000	5	10	1	60	800
MFO100-1200/5	1200	5	10	1	60	1000
MFO100-1500/5	1500	5	10	1	60	1000
MFO100-1600/5	1600	5	10	1	60	1000
MFO100-2000/5	2000	5	10	1	60	1000
MFO100-2400/5	2400	5	10	1	60	1000
MFO100-2500/5	2500	5	10	1	60	1100

Current Transformer General Specification

Secondary Lead Burdens

When selecting a current transformer, it is important to consider the power absorbed by the cables connecting the CT secondary terminals and the measuring instrument. The overall burden of the cable and measuring equipment should not exceed the available VA of the CT. Where the current transformer is to be mounted remotely a 1A secondary is recommended. Where there is a very large distance between the instrument and current transformer the use of a current transducer to convert the AC current into a DC signal is recommended.



Installation & Application Notes

1. It is essential with certain instrumentation that the CT is physically orientated correctly on the conductor. K or P1 must face the supply and L or P2 must face the load. It is also important to ensure that the secondary connections are made in accordance with the instrument connection diagram.
2. The secondary terminals of the CT must NOT make open circuit on load as dangerously high voltages may occur under these conditions. During installation the secondary terminals must be shorted and during operation it is recommended that one side of the secondary winding is earthed.
3. On all current transformers it is possible to reduce the CT ratio by passing multiple turns of the primary conductor cable through the aperture. The resultant CT ratio will be CT primary rating divided by the number of through turns e.g. a 100/5A CT with the primary conductor passed through the aperture twice will produce a CT with a ratio of 50/5A.

Specification subject to change without notice.