



48LAe, 72LAe, 96LAe, 144LAe, 48LVe, 72LVe, 96LVe, 144LVe

For measuring AC current or voltage.

Type 48L..., 72L..., 96L... and 144L... are with interchangeable scale.

Technical data:

Movement: Moving-iron with spring-type oil filled bearing,
vibration-free oil damping.

Instrument case: non-flammable Glass filled
polycarbonate according UL94-V-0

Scale length: 38 mm (48L...), 61 mm (72L...),
97 mm (96L...), 146 mm (144L...).

Permanent overloading: 1.2 -fold current res. voltage.

Class of accuracy: 1.5

Frequency range: 15...50...100 Hz

Pollution degree 2

Installation Categories: Size 72, 96, and 144 600V CAT III.
(over voltage category) Size 48 300V CAT III.

Weight: 0.15 kg (48L...), 0.2 kg (72L...),
0.35 kg (96L...), 0.8 kg (144L...).

Fixing elements: Two M3 screws

Accessorie:

Terminal protection: Full sized polycarbonate back cover



AMMETERS		Plastic case			
Frame dimensions		48x48 mm	72x72 mm	96x96 mm	144x144 mm
Measuring range	Cat. No.	Type 48 LAe	Type 72 LAe	Type: 96 LAe	Type: 144 LAe
		58-2015-13-...	58-1640-13-...	58-1636-13-...	58-2549-13-...
		consumption	consumption	consumption	consumption
min. (400/800 mA)	001	max. 0.5 VA	max. 0.5 VA	max. 0.5 VA	max. 0.7 VA
1 / 2 A	005	↓	↓	↓	↓
1.5 / 3 A	007				
2.5 / 5 A	009				
4 / 8 A	011				
5 / 10 A	012				
6 / 12 A	013				
10 / 20 A	015				
15 / 30 A	017				
25 / 50 A	019				
40 / 80 A	021	max. 1.5 VA	max. 2 VA	max. 2 VA	max. 2,5 VA
50 / 100 A	022	----	↓	↓	↓
60 / 120 A	023	----			
max. 100 / 200 A	024	----			
* 1 / 2 A	C03	max. 0.5 VA	max. 0.5 VA	max. 0.5 VA	max. 0.7 VA
* 5 / 10 A	C04	max. 0.5 VA	max. 0.5 VA	max. 0.5 VA	max. 0.7 VA

* For current transformer connection

Note: on request types different from tables are accepted.



VOLTMETERS		Plastic case			
Frame dimensions		48x48 mm	72x72 mm	96x96 mm	144x144 mm
Measuring range	Cat.No.	Type 48 LVe	Type 72 LVe	Type 96 LVe	Type 144 LVe
		58-2015-13-...	58-1640-13-...	58-1636-13-...	58-2549-13-...
		consumption max. 3 VA	consumption max. 3 VA	consumption max. 3 VA	consumption max. 3.5 VA
min. (6) V	101	↓	↓	↓	↓
100 V	113				
150 V	115				
250 V	117				
300 V	118				
400 V	119				
500 V	120				
max. 600 V	121				
**/ 100V, 120V	C05				
.../ 110V, 132V	C06				

** For voltage transformer connection

Note: on request types different from tables are accepted.

Type\Dim. (mm)	a	b	c*	d	e	f**	g
48LVe 48LAe	48	43,5	53	44.5	5.5	64	45 ^{+0.6}
72LVe 72LAe	72	66	53	67.5	5.5	64	68 ^{+0.7}
96LVe 96LAe	96	90	53	91.5	5.5	64	92 ^{+0.8}
144LVe 144LAe	144	136	53	137.5	5.5	64	138 ⁺¹

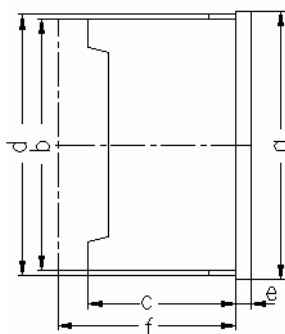
* c = 68mm, for I = 6 to 60 A

* c = 78mm, for I > 60 A

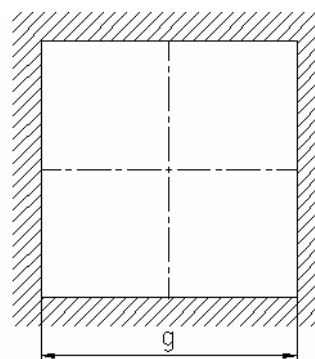
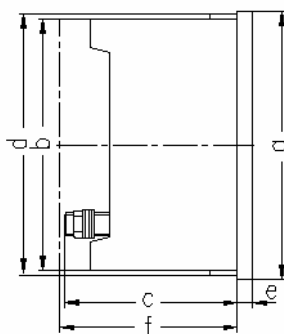
**f = 70mm, for I = 6 to 60 A

Outline drawing

For Voltmeters & Ammeters
upto 30 A



For Ammeters > 30 A



Order specification:

-Moving-iron ammeter
-Frame size: 72x72 mm
-Range: 5 / 10 A
-CT: 600/5 A
-Scale: 0...600/1200 A

Ordering data:

-Moving-iron ammeter
-Type: 72LAe
-Cat. No. 58-1640-13-CO4
-CT: 600/5 A
-Scale: 0...600/1200 A