

**RECOMMENDED AMMETER &  
WATTMETER SCALES FOR  
3 PHASE 380/440 AC MOTORS**

Motor Rating			Ammeter (1)	Wattmeter (2)	C.T. Primary (3)
h.p	A	kw	Scales	Scales	1A or 5A Secondary
approx.			A	kw	
0.5	1.2	0.37	0/1.5/9	0/1	Direct-connected
0.75	1.6	0.55	0/2/12	0/1	"
1	1.8	0.75	0/3/18	0/1.5	"
1.5	2.6	1.1	0/5/30	0/2	"
2	3.5	1.5	0/5/30	0/2	"
3	5	2.2	0/6/36	0/3	"
4	6.2	3	0/8/48	0/4	"
5.5	7.5	4	0/10/60	0/6	"
7.5	11	5.5	0/15/90	0/8	"
10	14	7.5	0/20/120	0/10	"
15	21	11	0/30/180	0/15	30A
20	28	15	0/40/240	0/20	40A
25	35	18.5	0/50/300	0/30	50A
30	40	22	0/60/360	0/30	60A
40	55	30	0/80/480	0/40	80A
50	66	37	0/80/480	0/50	80A
60	80	45	0/100/600	0/60	100A
75	100	55	0/150/900	0/80	150A
100	135	75	0/200/1200	0/150	200A
125	165	90	0/200/1200	0/150	200A
150	200	110	0/300/1800	0/200	300A
175	230	132	0/300/1800	0/200	300A
200	275	150	0/300/1800	0/200	300A

- 1) x6 overload scales are suitable for direct-on-lines motors. For star/delta and resistor start motors, standard scales are usually preferred.
- 2) Wattmeters used with direct-on-line or frequent duty star/delta and resistor start motors should have their current elements shorted during the initial start period.
- 3) Ammeter burdens are 0.5 to 1.5VA. Class 3 C.T's are usually sufficiently accurate. Wattmeter burdens are 1VA. Class 1 C.T's are recommended.

The following scale options can be provided when full details are given with the order:-

- Red index mark, coloured scales, segments, zones or triangles.
- Alternative standard figures, additional figures, additional scales (on flat dials).
- Non-standard captions.
- Calibration from customer's non-linear graph, chart or formula giving input value to instrument. e.g. h.p scale.

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The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, Tyco Electronics has no control over the field conditions, which influence product installation. It is the user's responsibility to determine the suitability of the installation method in the user's field conditions. Tyco Electronics' only obligations are those in Tyco Electronics' standard Conditions of Sale for this product and in no case will Tyco Electronics be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products. Crompton is a trade mark.



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