

# MKP MOTOR CAPACITOR IN A PLASTIC CASE

## TYPE TC 887

### **Application:**

MKP capacitor type TC 887 is particularly determined for start and operation of alternating-current asynchronous motors, which can be feeded from monophase or three-phase network.

### **Description:**

The capacitor winding element is made of metallized polypropylene film and is closed in a plastic self-extinguishing case with an ecological bio-resin ensuring good electrical and mechanical properties. Capacitors are supplied with different types of terminals according to customers wish (for example different types of faston tags, outlet cables, flexible wires or leads-see *type marking of capacitors*). Capacitors don't have a mechanical disconnecting device which would disconnect the capacitor circuit at overload.

### **Electrical properties:**

Nominal capacitance:	0,50 ÷ 55 $\mu$ F
Tolerance on capacitance:	$\pm 10\%$ (K), $\pm 5\%$ (J)
Nominal voltage:	see the dimensions chart
Test voltage between terminals:	2 x U <sub>jm</sub> 50Hz/60s
Test voltage between terminals and case:	2000V 50Hz/60s

Dissipation factor tg  $\delta$ :

Type	Measuring frequency	Max. tg $\delta$ x 10 <sup>-4</sup> and for C <sub>jm</sub>		
		<10 $\mu$ F	10 ÷ 30 $\mu$ F	>30 $\mu$ F
M., J., X.,	50 or	6	8	15
	1 kHz	40	80	150
H., L., I.	50 or	12	16	30
	1 kHz	80	160	300

### **Type marking of capacitors:**

TC 887 . . – motor capacitor

#### 1<sup>st</sup> letter indicates type of terminals

- M... single faston tag 2,8 x 0,5 mm (only for ØD=25mm)
- J... single faston tag 6,3 x 0,8 mm
- X... single faston tag 6,3 x 0,8 mm (not standardly turned)
- D... double faston tag 2 x 6,3 x 0,8 mm
- H... outlet cable 250 mm long
- L... insulated flexible leads, cross section 0,75 mm<sup>2</sup>, length 200 mm (except ØD = 45 and 50 mm)
- I... insulated wires, Ø 0,8 mm, length 210 mm (except ØD = 45 and 50 mm)

#### 2<sup>nd</sup> letter indicates case fixing system

- B... case without a base stud M8 x 10 mm
- S... case with a metal base stud M8 x 10 mm

Example of marking for an order :

TC 887 DB 5 $\mu$ F $\pm 10\%$  - capacitor in a plastic case without a base stud (the fixing clip won't be supplied), terminals are of double faston tag with capacitance 5 $\mu$ F and tolerance  $\pm 10\%$

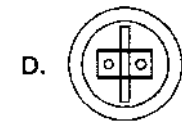
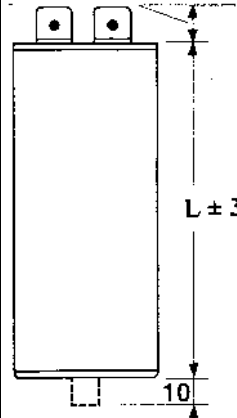
## Dimensions

Type			TC 887 . .
Mode of operation	Climatic esistance category	Life expectancy	Nominal alternating voltage
Permanent (DB)	25/070/21 (HSF)	1000h (D)	500V~
Permanent (DB)	25/085/21 (HPF)	3000h (C)	450V~
Permanent (DB)	25/085/21 (HPF)	10000h (B)	400V~
Permanent (DB)	25/085/21 (HPF)	10000h (B)	450V~
Tolerance on capacitance	Nominal capacitance (µF)	Dimensions (mm) ØD x L	
± 10% ± 5%	0,50	25 x 58	
	0,75	25 x 58	
	1,00	25 x 58	
	1,25	25 x 58	
	1,50	25 x 58	
	1,75	25 x 58	
	2,0	25 x 58	
	2,5	25 x 58	
	3,0	25 x 58	
	3,5	30 x 58	
	4,0	30 x 58	
	4,5	30 x 58	
	5,0	30 x 58	
	6,0	30 x 74	
	7,0	30 x 74	
	7,5	30 x 74	
	8,0	30 x 74	
	9,0	35 x 75	
	10	35 x 75	
	12	35 x 75	
14	40 x 75		
15	35 x 97,5		
16	35 x 97,5		
18	35 x 97,5		
20	40 x 95		
22	40 x 95		
25	40 x 95		
30	40 x 95		
35	45 x 120		
40	45 x 120		
45	45 x 120		
50	50 x 120		
55	50 x 120		

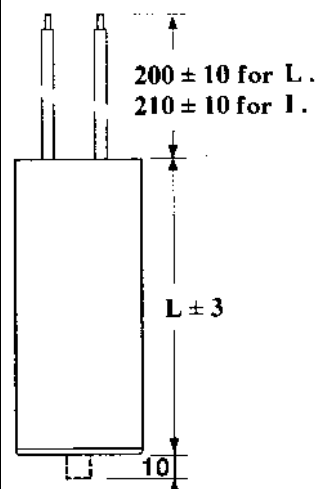
### Type M., J., D., X.

11±1 for M.

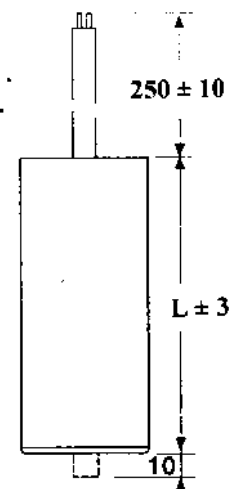
12,5±1 for J.,D.,X.



### Type L., I.



### Type H.



**Approval:** VDE apply to values : 2,5 – 25 µF, 400 / 450 / 500V / 50Hz



Capacitors accord with a norm EN 60 252 apply for values : 2,5 – 55 µF, 500V / 50 Hz



„B“ apply to values 2,5 ÷ 55µF / 500V / 50Hz