

## MOTOR MKP CAPACITOR IN PLASTIC CASE TYPE TC 886

### Application

The capacitors TC 886 are determined especially for start of alternating-current asynchronous motors which can be energized from mono phase or three phase network.

### Description

The coil is made of metalized polypropylene film and is closed in a plastic self-extinguishing case with ecological bio-resin, ensuring good electrical and mechanical properties. The capacitors are supplied with different types of outlets according to wish of the customer, for example different types of faston tags, outlet cables, outlet leads or wires. The capacitors are not provided with a mechanical fail-safe device which would disconnect circuit of the capacitor at overload.

### Electrical properties

Nominal capacitance:	1,5 $\mu$ F to 100 $\mu$ F
Tolerance of capacitance:	$\pm 10\%$ (K), $\pm 5\%$ (J)
Nominal voltage:	see table of dimensions
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	Frequency	Max. tg $\delta$ x 10 <sup>-4</sup> for C <sub>im</sub>		
		$\leq 10 \mu\text{F}$	10-30 $\mu\text{F}$	$\geq 30 \mu\text{F}$
M ., J ., X .,	50 Hz or	6	8	15
	1 kHz	40	80	150
H ., L ., I .	50 Hz or	12	16	30
	1 kHz	80	160	300

### Type marking of capacitors

TC 886 . . – motor capacitor

#### **1st letter indicated type of terminals**

M - single faston tag 2,8 x 0,5 mm (only for dia, D = 25 mm)

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, length 250 mm

L - insulated flexible outlets, cross section 0,75 mm<sup>2</sup>, length 200 mm (except dia, D = 45, 50 and 55 mm)

I - insulated wire outlets, dia 0,8 mm, length 210 mm (except dia, D = 45, 50 and 55 mm)

#### **2nd letter indicates case fixing system**

B - case without a base stud M8 x10 mm

S - case with a metal base stud M8 x 10 mm

### Example of marking for a purchase order

TC 886DB 5 $\mu$ F  $\pm 10\%$  - Capacitor in plastic case without base clamping stud (the fixing clip will not be supplied), outlets are made with double faston tag (capacitance is 5 $\mu$ F and tolerance is  $\pm 10\%$ ).



## Dimensions

Type			TC 886..
Mode of operation	Category of climatic resistance	Life duration expectancy	Nominal alternating Voltage 50Hz
Permanent (DB)	25/070/21	1000 h (D)	500 V~
Permanent (DB)	(HSF)	10000 h (B)	450 V~
Permanent (DB)	25/085/21	30000 h (A)	400 V~
	(HPF)		
	25/085/21		
	(HPF)		
Deviation of capacitance	Nominal Capacitance [µF]	Basic Dimensions ØD x L	Alternative Dimensions ØD x L
± 10% ± 5%	1.5	25 x 60	25 x 75
	2	25 x 60	
	2.5	25 x 60	
	3	25 x 60	
	3.5	25 x 60	
	4	25 x 60	
	4.5	25 x 60	
	5	30 x 60	
	4	30 x 60	
	7	30 x 60	
	7.5	30 x 60	
	8	30 x 75	
	9	30 x 75	
	10	30 x 75	
	12	30 x 75	
	14	35 x 75	
	15	35 x 75	
	16	35 x 75	
	18	35 x 75	
	20	40 x 75	40 x 75
22	35 x 96		
25	35 x 96		
30	40 x 96		
35	40 x 96		
40	45 x 96		
45	45 x 96		
50	45 x 120		
55	45 x 120		
60	45 x 120		
65	45 x 120		
70	50 x 120		
80	50 x 120		
90	55 x 120		
100	55 x 120		

