



SEIKA ELECTRIC CO., LTD.

No. 34, Lane 387, Min-An Road, Shin-Chuang Dist.,
24258 New Taipei City, Taiwan, R.O.C.
Established on Nov.08.1973
ISO 9002 Certified in Dec. 1993
ISO 9001-2000 Rev. Certified in Feb. 2002
ISO 14001-2004 Rev. Certified in Sept. 2005
Building Area 13,000M².

Products:

Metallized Polypropylene Film Capacitors
Electrolytic Motor Starting Capacitors

Applications:

- For Electric Motors in:
Air - Conditioners, Refrigerators, De - Humidifiers,
Curtain Shutters, Washing Machines, Dishwashers,
Electric Fans, Remote Controllers, Motor Pumps,
Bread Makers, Paper Shredders, Electric Fences,
Electrical Power Tools, Power Supply / UPS...
- For Lighting Equipments in:
Mercury Lamps, Fluorescent Lamps, Natrium
Lamps, Metal Lamps, HID Lamps...
- For Power Factor Correction & others
special design is welcomed

世佳電器股份有限公司

新北市新莊區民安路 387 巷 34 號
創立 1973.11.8
ISO 9002 於 1993 年 12 月取得認證
ISO 9001 2000 版於 2002 年 2 月取得認證
ISO 14001 2004 版於 2005 年 9 月取得認證
廠房面積 13,000 平方公尺

產品: 金屬化塑膠薄膜馬達運轉電容器、馬達啟動電解
電容器, 適用於冷氣機、電冰箱、除濕機、洗衣機、電
扇、馬達、遙控器、水銀燈、日光燈、不斷電流供應系
統、幫浦、電動工具機及特殊機器馬達等啟動、運轉、
改善功率因數。

* 歡迎特殊規格設計 *

REACH
RoHS



SPECIFICATION

Capacitance Range — 0.1~100 μ F

Tolerance Range — $\pm 10\%$ (Standard), $\pm 5\% \sim \pm 20\%$

Voltage Range — 150~500 VAC (Standard)

Temperature Range — -25~+60°C(Standard), -25~+70°C, -40~+85°C, -25~+100°C



RU or Rup Type



OV or OVP Type



RB Type



RBC or RBCF



BL Type



BM Type



RE Type



RP or RPF Type



BTL Type



BT Type



BTM Type



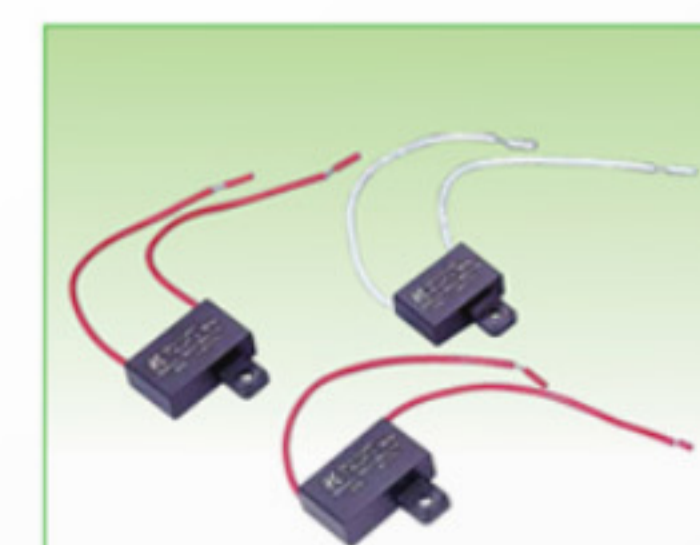
BTU Type



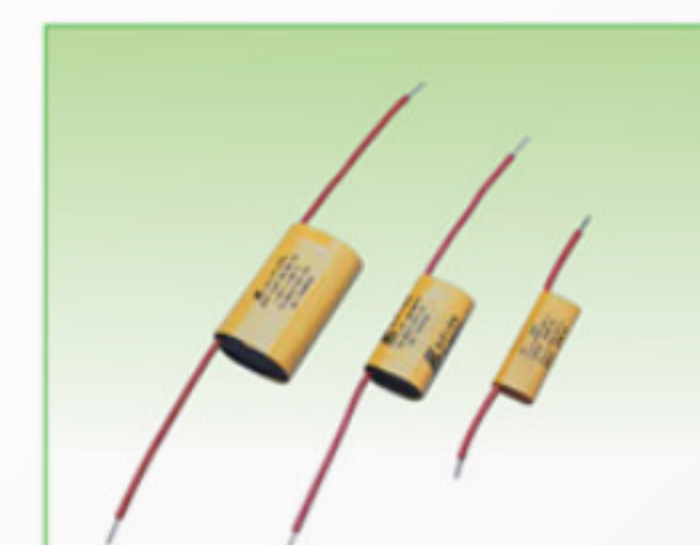
BST Type



BTR Type



BH Type



TR Type

• Please contact us for information of other models.

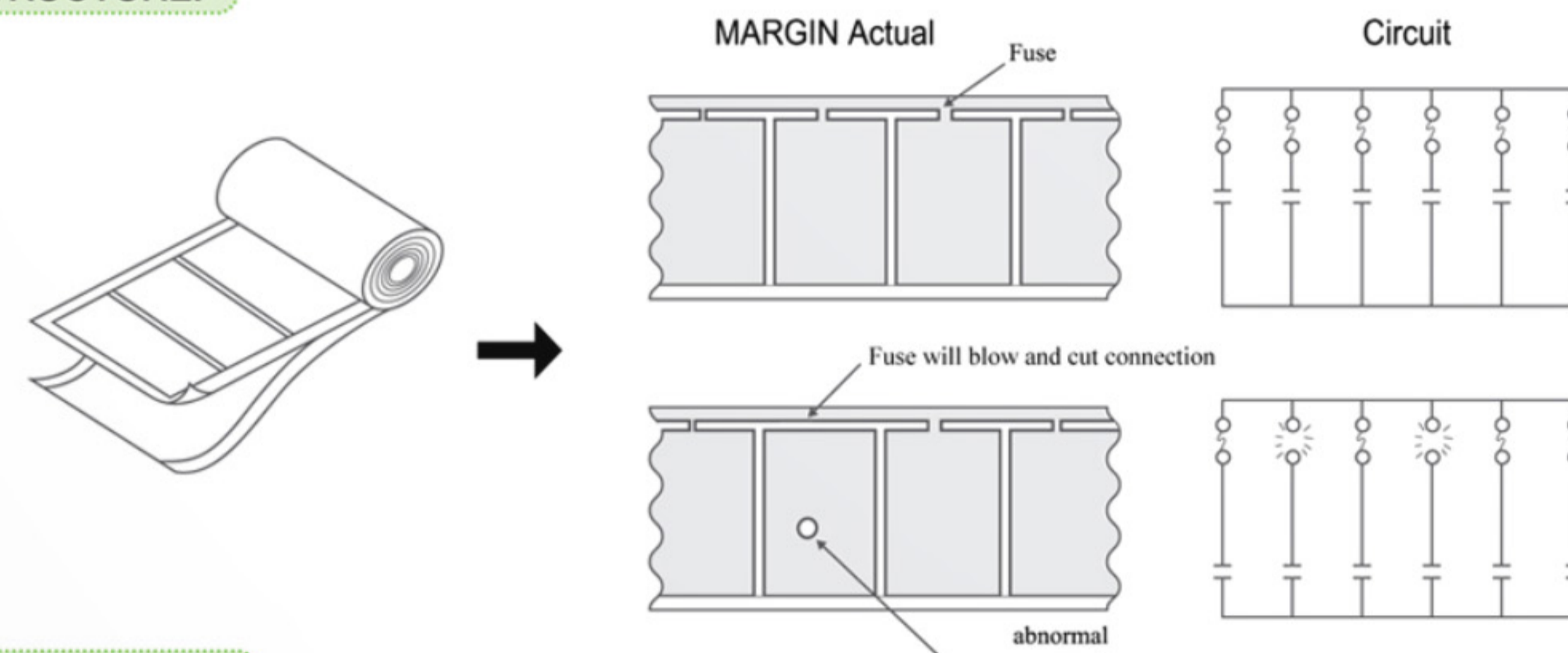
SEGMENT MARGIN FILM PROTECTIVE CAPACITORS

DESCRIPTION:

The segment margin film Protective capacitor is a kind of open circuit design having internal protective function, which utilizes metalized film to divide up capacitance into an infinite number of capacitors connected in parallel, and each electrode will function as a fuse. If an abnormality occurs due to over voltage, abnormal heat, or natural end of product life, the electrodes will partially disconnect the film from the body, thus preventing the capacitor from emitting smoke or catching fire and maintaining the normal function of the capacitor.



CONSTRUCTURE:



CLASS OF SAFETY:

VDE S3 Category - licence no. 40001022, 40040804
UL CYWT2 Category - UL, CUR File no. E136210

CP Series

SPECIFICATION:

Working Voltage Range (VAC)	250V	300V	350V	400V	450V
Capacitance Range (µF)	0.5~50 µF	0.5~40 µF	0.5~25 µF	0.5~20 µF	0.5~20 µF
Capacitance Tolerance (%)	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard	±5, ±10, ±20 +10 -5 Standard
Temperature Range (°C)	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard	-25~+70°C/85°C Standard
Certificate	UL, CUR VDE: Max. 20µF	UL, CUR VDE: Max. 20µF	UL, CUR VDE: Max. 20µF	UL, CUR, VDE	UL, CUR, VDE

APPROVED BY CUR & UL

Series: CF, MKP, MKP***TR**, RB

Voltage range - 100Vac to 450Vac standard
(max. 600Vac)

Capacitance range - 0.5µF to 50µF standard
(free capacitance)

Temperature range - -25°C to +70°C, -25°C to +85°C, Max 105°C

Tolerance(%) - ±5, ±10, ±20, +10/-5 (standard)

Type range - Box Types : BM, BT, BL....
- Cylinder Types : RE, REF, RB....
- Other Types : TR....

CUR-certified file no. E153459(N)

UL-approved file no. E153459(N)



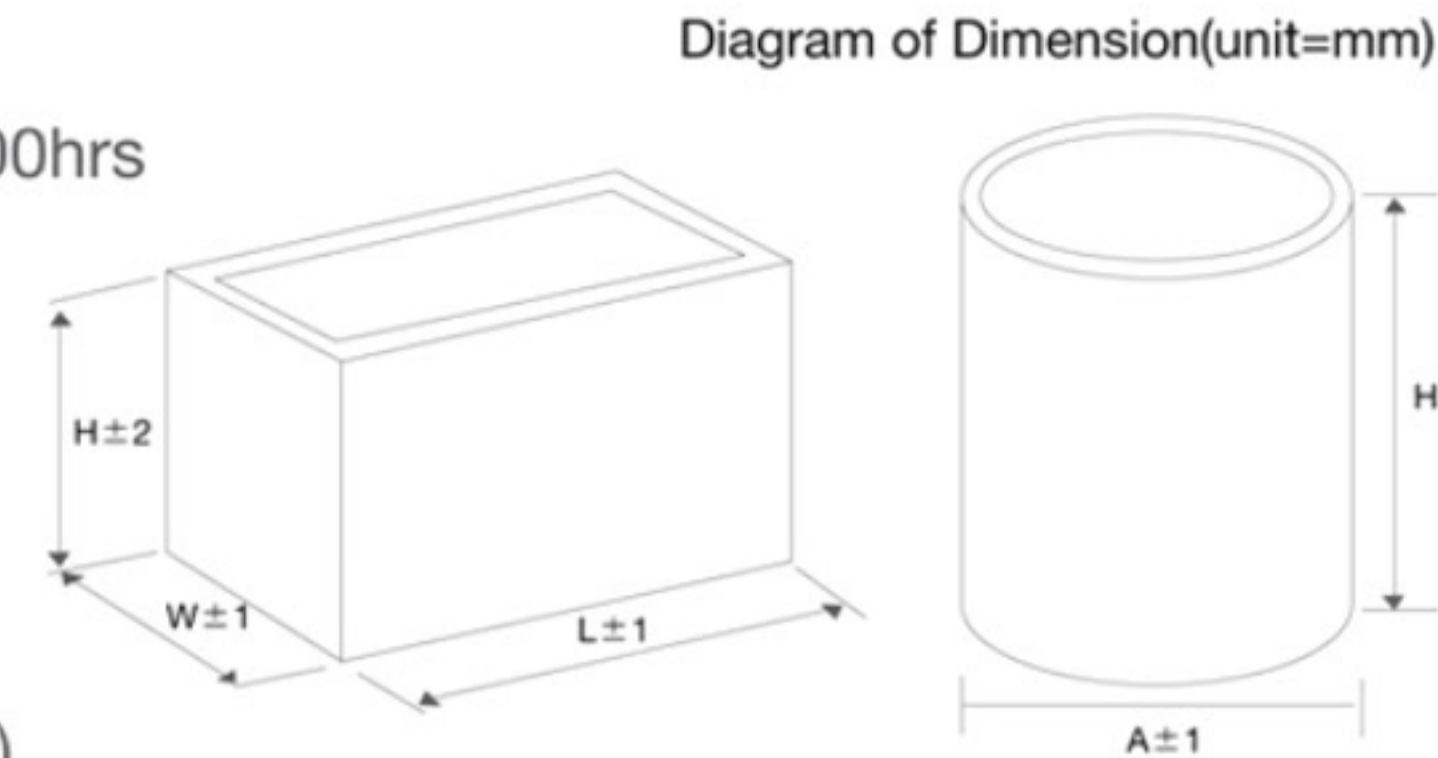
Standard Dimensions of Box Types:

Catalog		100~250 WV.AC			300 WV.AC			350 WV.AC			400 WV.AC			450 WV.AC		
Number	µF	Lx	W	x H	Lx	W	x H	Lx	W	x H	Lx	W	x H	Lx	W	x H
CF504****	0.5	32	11	20	32	11	20	32	11	20	32	11	20	32	11	20
CF754****	0.75	32	11	20	32	11	20	32	11	20	37	13	22	37	13	22
CF105****	1.0	32	11	20	32	11	20	32	11	20	37	13	22	37	13	22
CF855****	8.5	38	20	29	49	21	31.5	49	21	31.5	59	23	35	50	30	40
CF905****	9.0	38	20	29	59	21	31.5	50	22	35	50	30	40	59	30	40
CF955****	9.5	38	20	29	50	22	35	50	22	35	50	30	40	59	30	40
CF106****	10.0	48	17	27	50	22	35	50	22	35	59	30	40	59	30	40
CF116****	11.0	48	18	27	50	22	35	50	22	35	59	30	40	59	30	40
CF126****	12.0	48	19	29	50	22	35	50	22	35	59	30	40	59	40	40
CF136****	13.0	48	19	29	50	30	30	50	30	40	59	30	40	59	40	40
CF146****	14.0	49	21	31.5	59	23	35	59	23	35	59	40	40			
CF156****	15.0	49	21	31.5	59	23	35	59	30	40	59	45	45			
CF166****	16.0	50	22	35	59	23	35	59	30	40						
CF176****	17.0	50	22	35	57.5	25	39	59	30	40						
CF186****	18.0	50	22	35	57.5	25	39	59	40	40						
CF196****	19.0	50	22	35	57.5	25	39	59	40	40						
CF206****	20.0	59	23	35	57.5	25	39	59	40	40						
CF216****	21.0	59	23	35	59	30	40									
CF226****	22.0	59	23	35	59	30	40									
CF236****	23.0	59	23	35	59	30	40									
CF246****	24.0	59	23	35	59	30	40									
CF256****	25.0	59	23	35	59	30	40									
CF266****	26.0	50	25	36												
CF276****	27.0	50	25	36												
CF286****	28.0	50	30	40												
CF296****	29.0	59	30	40												
CF306****	30.0	59	30	40												

- The sizes of TR-WRAP FILL TYPE are excluded
- Above dimentionations are according to our standard design and might be altered without notice.

APPROVED BY VDE

- VDE Class - B ~ 10,000 hrs./ C ~ 3,000hrs
 Capacitance Range - 0.1μF ~ 40μF
 Voltage Range - 150 Vac ~ 450 Vac
 Temperature Range - -40 ~ +85°C
 Tolerance(%) - ±5, ±10, +10/-0,
 +10/-5 (standard)
 Type Range - Box Types (BM, BT, BL...)
 Cylinder Types (RE, REF...)



VDE Licence No. 116769
 CB Certificate No. DE1-34021 DE1-32461

Standard Dimensions of 450 V.AC - Class B

Catalog Number	Capacitance (uF)	Box Type Case Dimension (mm)	Cylinder Case Dimension (mm)
		L x W x H	A x H
MK504 * * *	0.5	37 x 13 x 22	25 x 40
MK085 * * *	0.8	37 x 13 x 22	25 x 40
MK105 * * *	1.0	37 x 13 x 22.5	25 x 40
MK125 * * *	1.2	37 x 15 x 24	25 x 40
MK155 * * *	1.5	38 x 16 x 25	25 x 40
MK205 * * *	2.0	38 x 19 x 29	30 x 42
MK255 * * *	2.5	38 x 19 x 29	30 x 62
MK305 * * *	3.0	48 x 19 x 29	30 x 62
MK355 * * *	3.5	49 x 21 x 31.5	30 x 62
MK405 * * *	4.0	50 x 22 x 35	35 x 60
MK455 * * *	4.5	59 x 23 x 35	35 x 60
MK505 * * *	5.0	59 x 23 x 35	35 x 60
MK605 * * *	6.0	59 x 23 x 35	35 x 60
MK705 * * *	7.0	50 x 30 x 40	40 x 62
MK805 * * *	8.0	59 x 30 x 40	40 x 62
MK905 * * *	9.0	59 x 30 x 40	40 x 62
MK106 * * *	10.0	59 x 30 x 40	40 x 62
MK1205 * * *	12.0	59 x 40 x 40	40 x 62
MK1405 * * *	14.0	59 x 40 x 40	45 x 62
MK1605 * * *	16.0	59 x 40 x 40	45 x 62
MK1805 * * *	18.0	59 x 40 x 40	45 x 62
MK2005 * * *	20.0	59 x 40 x 40	45 x 88
MK2505 * * *	25.0	69 x 41 x 55	45 x 88
MK3005 * * *	30.0	69 x 41 x 55	45 x 108
MK3505 * * *	35.0		45 x 108
MK4005 * * *	40.0		45 x 108

• Please contact us for details of sizes

EN60252-1 Standard



APPROVED BY VDE, IMQ, CQC

Certificate	Safety	Class	Max. Temp.	Series	Capacitance Range	Voltage Range	Model Type	Licence No.
VDE HSFPU	P0	C	70°C	MK	1μF~40μF	150Vac~300Vac	BM, BT, BL, RE...	VDE:104897 CB:DE1-6355
VDE HSFPU	P0	C	70°C	MK	1μF~5μF	350Vac~400Vac	BM, BT, BL, RE...	VDE:104896 CB:DE1-6354
VDE GPFPU	P0	C	85°C	MK	0.1μF~40μF	150Vac~450Vac	BM, BT, BL, RE...	VDE:116769 CB:DE1-32461
VDE GPFNT	P0	B	85°C	MK	0.1μF~40μF	150Vac~450Vac	BM, BT, BL, RE...	VDE:116769 CB:DE1-34021
VDE HPFMS	P0	A	85°C	MK	0.5μF~5μF	400Vac	BM, BT, BL, RE...	VDE:40008138
VDE HMFMS	P0	A	100°C	MK	0.5μF~16μF	150Vac~400Vac	BM, BT, BL, RE...	VDE:40023787 CB:DE1-39113
VDE HSFPU	P0	C	70°C	MKP	1+1μF~12+12μF	150Vac~300Vac	BM, BT, BL, RE...	VDE:104893 CB:DE1-6352
VDE GPFMS	P0	A	85°C	MK	0.3+0.3~9+9μF	150Vac~450Vac	BM, BT, BL, RE...	VDE:40019985 CB:DE1-38526
VDE HSFPU	P2	C	70°C	RU	3μF~50μF	150Vac~450Vac	RUP, RUF... ..	VDE:94696
VDE GPFNT	P2	B	85°C	CP	0.5μF~70μF	150Vac~450Vac	RUP, RUF... ..	VDE:40019357 CB:DE1-36130
VDE GPFPU	S3	C	85°C	CP	0.5μF~10μF	150Vac~450Vac	BM, BT, BL, RE...	VDE:40001022 CB:DE1-34259
VDE GPFNT	S3	B	85°C	CP	0.5μF~20μF	150Vac~450Vac	BM, BT, BL, RE...	VDE:40040804 CB:DE1-54635
IMQ HSFPU	P0	C	70°C	MK	1μF~5μF	350Vac~400Vac	BM, BT, BL, RE...	IMQ: V2791
IMQ GPFNT	P0	B	85°C	MK	0.5μF~10μF	350Vac~450Vac	BM, BT, BL, RE...	IMQ: V4750
IMQ HMFNT	P0	B	100°C	MKR	1.5μF~3μF	400Vac	BM, BT, BL, RE...	IMQ: V4721 CB:IT -1942
CQC GPFNT	P0	B	85°C	MK	0.5μF~40μF	400Vac	BM, BT, BL, RE...	CQC 07002021362
CQC HMFMS	P0	A	100°C	MK	0.5μF~16μF	400Vac	BM, BT, BL, RE...	CQC 09002040210
CQC GPFNT	P0	B	85°C	MK	0.1μF~22μF	450Vac	BM, BT, BL, RE...	CQC 11002061114
CQC GPFNT	P2	B	85°C	CP	0.5μF~20μF	400Vac~450Vac	BM, BT, BL, RE...	CQC

• Please contact us for details

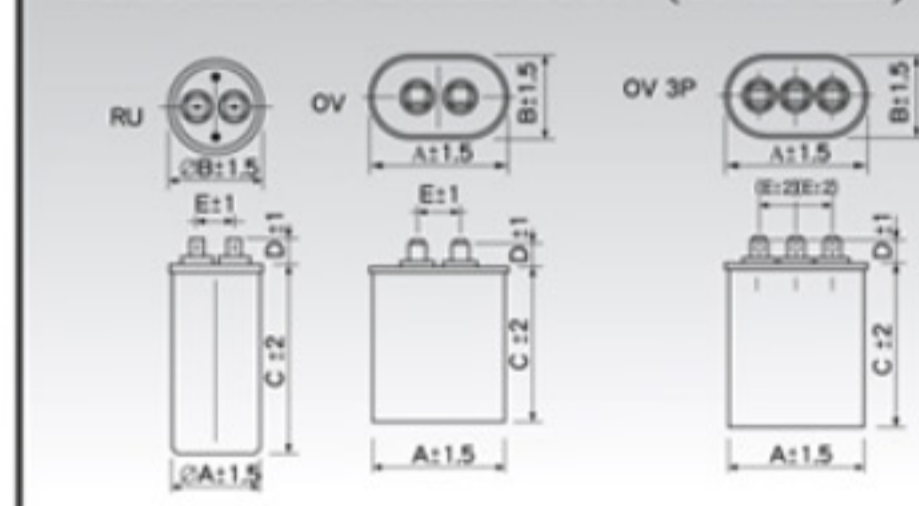
P2 Protective Capacitors

Model RUP and OVP are metallized polypropylene film Capacitor with an Aluminum can and designed with the safety mechanism device, to prevent case rupture under fault current conditions so as to offer long life and reliable service.

- Voltage range - 600Vac.Max.
- Capacitance range - 3µF to 70µF standard
- Temperature range - -25°C to 70°C ~ 105°C available
- Tolerance (%) - ±5, ±10, ±20, +10/-5(Standard)
- Model - RUP, OVP and dual capacitors in one can
- Terminal - 2 tine 1/4" quick-connect lug terminals are standard, 4 blades are available
- Fault Current - 10,000AFC
- UL,CUR-recognized file no. E136210(N)
- VDE Licence no. 94696, 40019357



DIAGRAM OF DIMENSION (UNIT=mm)



560-8
EN 60252-1



Standard Dimensions of 370 V.AC

Capacitance (µF)	Dimension RU(A x C)	Dimension OV(A x B x C)	Capacitance (µF)	Dimension OV3P(A x B x C)
3.0	40 x 50	55 x 35 x 40	15+3	54 x 34 x 75
4.0	40 x 50	55 x 35 x 40	15+4	54 x 34 x 75
5.0	40 x 50	55 x 35 x 40	15+5	54 x 34 x 75
6.0	40 x 50	55 x 35 x 40	15+7.5	54 x 34 x 75
7.0	40 x 50	55 x 35 x 55	15+10	54 x 34 x 75
7.5	40 x 50	55 x 35 x 55	15+12.5	64 x 34 x 75
8.0	40 x 50	55 x 35 x 55	17.5+4	54 x 34 x 75
9.0	40 x 50	55 x 35 x 55	17.5+5	54 x 34 x 75
10.0	40 x 50	55 x 35 x 55	20+3	54 x 34 x 75
12.0	40 x 50	55 x 35 x 65	20+4	54 x 34 x 75
12.5	40 x 50	55 x 35 x 65	20+5	54 x 34 x 75
15.0	40 x 50	55 x 35 x 65	20+10	64 x 37 x 75
17.0	40 x 60	55 x 35 x 75	20+12.5	64 x 37 x 75
17.5	40 x 60	55 x 35 x 75	20+15	64 x 37 x 75
20.0	40 x 60	55 x 35 x 70	25+3	64 x 37 x 75
22.5	40 x 70	55 x 35 x 75	25+4	64 x 37 x 75
25.0	40 x 70	55 x 35 x 75	25+5	64 x 37 x 75
27.5	40 x 70	64 x 37 x 65	25+7.5	64 x 37 x 75
30.0	40 x 70	64 x 37 x 65	25+10	64 x 37 x 75
35.0	40 x 90	64 x 37 x 75	25+12.5	64 x 37 x 75
40.0	40 x 90	64 x 37 x 75	30+3	64 x 37 x 95
45.0	40 x 90	64 x 37 x 95	30+4	64 x 37 x 95
50.0	40 x 120	64 x 37 x 95	30+5	64 x 37 x 95
55.0	45 x 120	64 x 37 x 95	30+7.5	64 x 37 x 95
60.0	45 x 120	64 x 37 x 95	30+10	64 x 37 x 95
65.0	51 x 120	64 x 37 x 95	30+12.5	64 x 37 x 95
70.0	51 x 120	64 x 37 x 120	35+3	64 x 37 x 95
75.0	51 x 120	64 x 37 x 120	35+4	64 x 37 x 95
80.0	56 x 120	71 x 46 x 120	35+5	64 x 37 x 95
			35+7.5	64 x 37 x 95
			35+10	64 x 37 x 95
			35+12.5	64 x 37 x 95

• Sizes might be altered without notice.

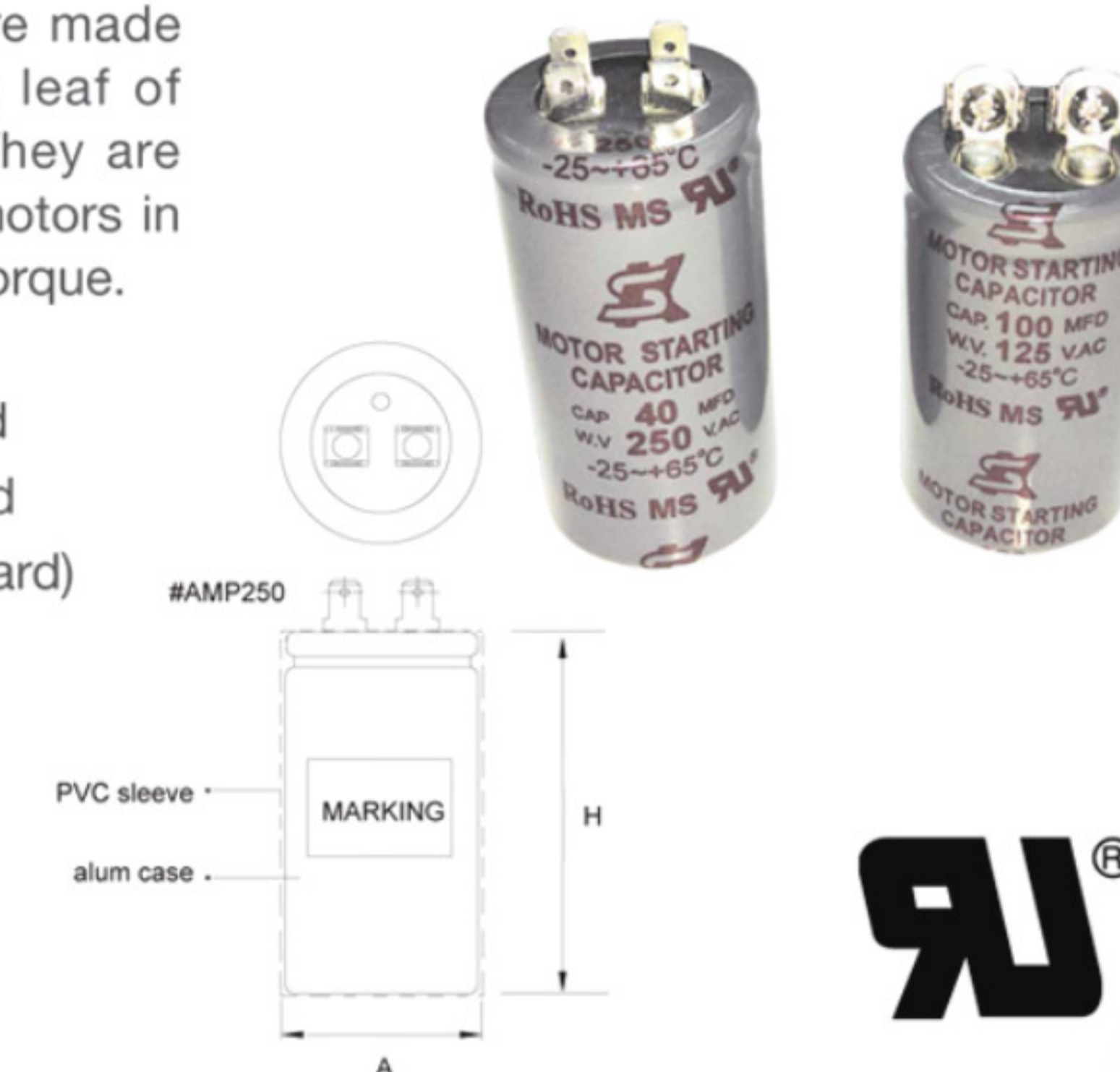
For the proper operation of the protective device, there must be a vertical clearance of at least 12.5mm between the tops of the terminals and the plane as well as between the capacitor bottom and the plane.

Please install the capacitor always with the major axis of the capacitor vertical and the terminals on top and not slant over 15 degrees. It is prohibited to install the capacitors with the terminals in the vertical down position.

Electrolytic Motor Starting Capacitors - MS Type

Electrolytic Motor Starting Capacitors are made of aluminium foils and separated by a leaf of impregnated paper as the electrolyte. They are normally used in single phase induction motors in order to increase the value of the starting torque.

- Voltage range: 125VAC ~ 250VAC Standard
- Capacitance range: 25µF ~ 600µF Standard
- Capacitance Tolerance: +20 ~ -0% (Standard)
- Max. Temperature: +65 °C
- Rated Frequency: 50 / 60 Hz
- UL Approved File No. E336260



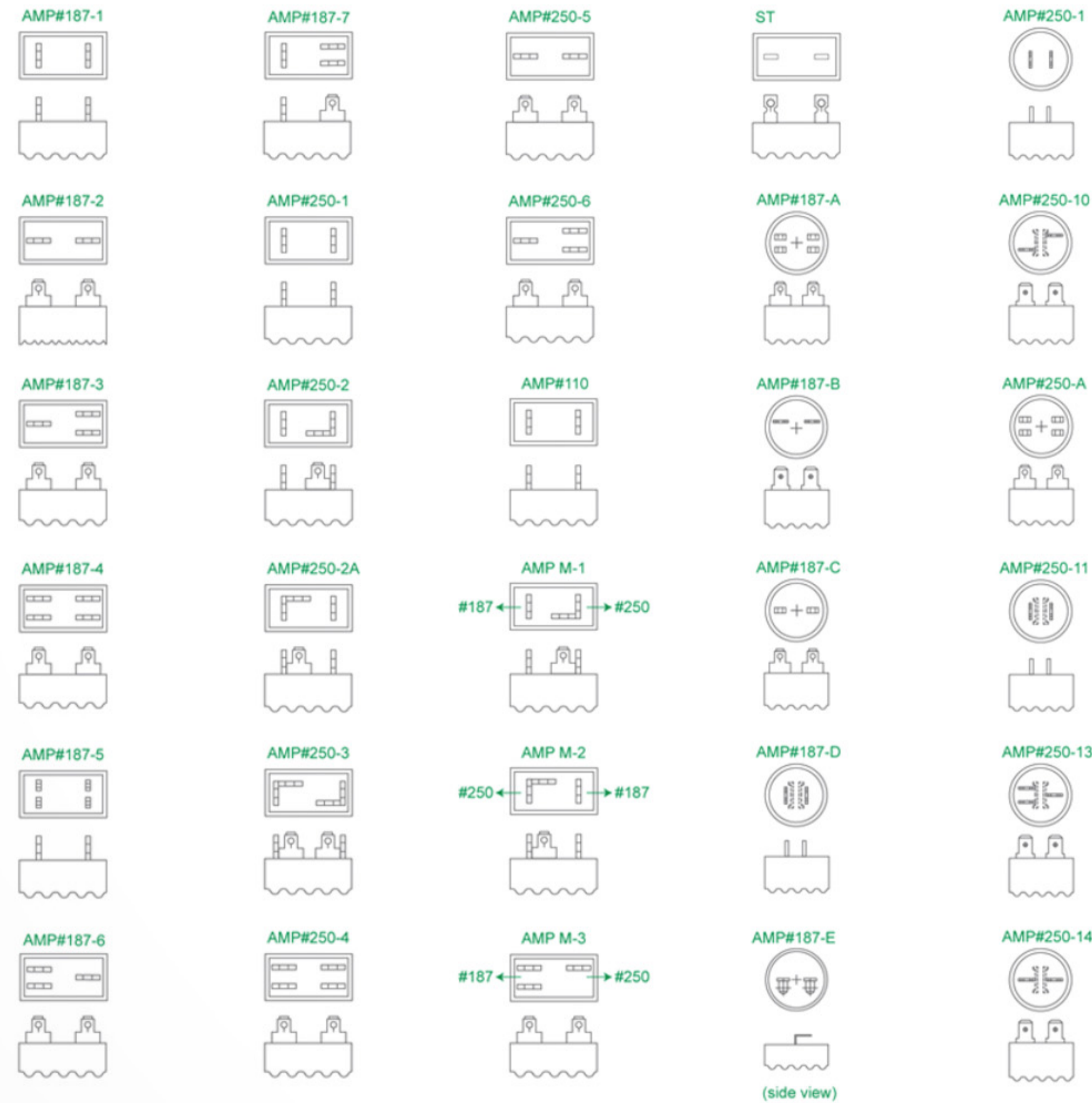
Standard Dimensions

Voltage Capacitance Size (mm)	125 VAC		125 VAC		160 VAC		220 VAC		250 VAC	
	A	H	A	H	A	H	A	H	A	H
25 uF					35	61	30	70	30	70
							35	61	35	61
40 uF					35	61	30	70	30	70
							35	61	35	61
50 uF	30	60	35	61	30	70	35	70	35	70
	35	51			35	61				
70 uF	35	51	35	61	35	61	35	80	35	80
75 uF	30	60	35	61	30	70	35	80	35	80
	35	51			35	61				
80 uF	35	61	35	61	35	70	35	90	35	90
100 uF	30	60	35	61	30	70	40	100	40	100
	35	51			35	70				
125 uF	35	70	35	70	35	80	40	100	40	100
150 uF	30	60	35	70	35	80	45	100	45	100
	35	61								
200 uF	30	60	35	80	40	90	45	100		
	35	70								
250 uF	30	70	35	90	40	100	45	100		
	35	70								
300 uF	35	80	35	90	40	100				
400 uF	35	90	40	100	40	100				
500 uF	35	100	45	100						
600 uF	35	100	45	100						
Withstanding Voltage	Un x 1.0		Un x 1.2		Un x 1.2		Un x 1.2		Un x 1.2	
Between Terminals	60 Seconds		120 Seconds		60 Seconds		60 Seconds		120 Seconds	

*Above case dimensions are based on our standard design and might be altered without notice.

*Requirements of special specifications can be designed at request.

Terminal Code (Plastic Case with Terminals)

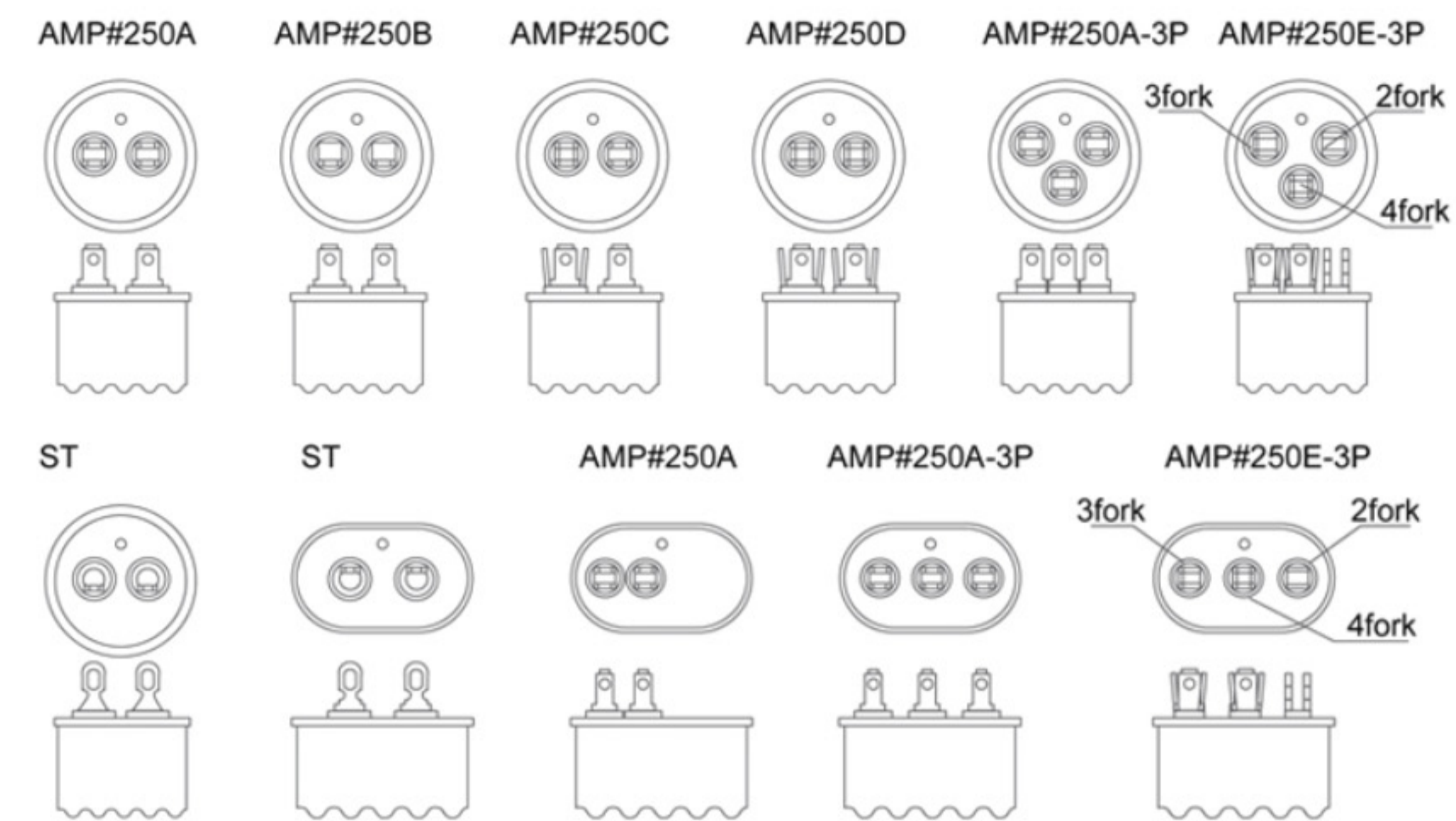


- Terminals or Wires:
 #187 (width 4.75mm) #250 (width 6.35mm) #110 (width 2.8mm) ST (width 4.0mm)
 Tinned Copper Wire 0.8Φ or 1.0Φ, Copper Plated Steel Wire 0.8Φ,
 PVC Multi-Cores Flexible Wire, PVC Single-Core Solid Wire, PVC Sheathed Flexible Cord

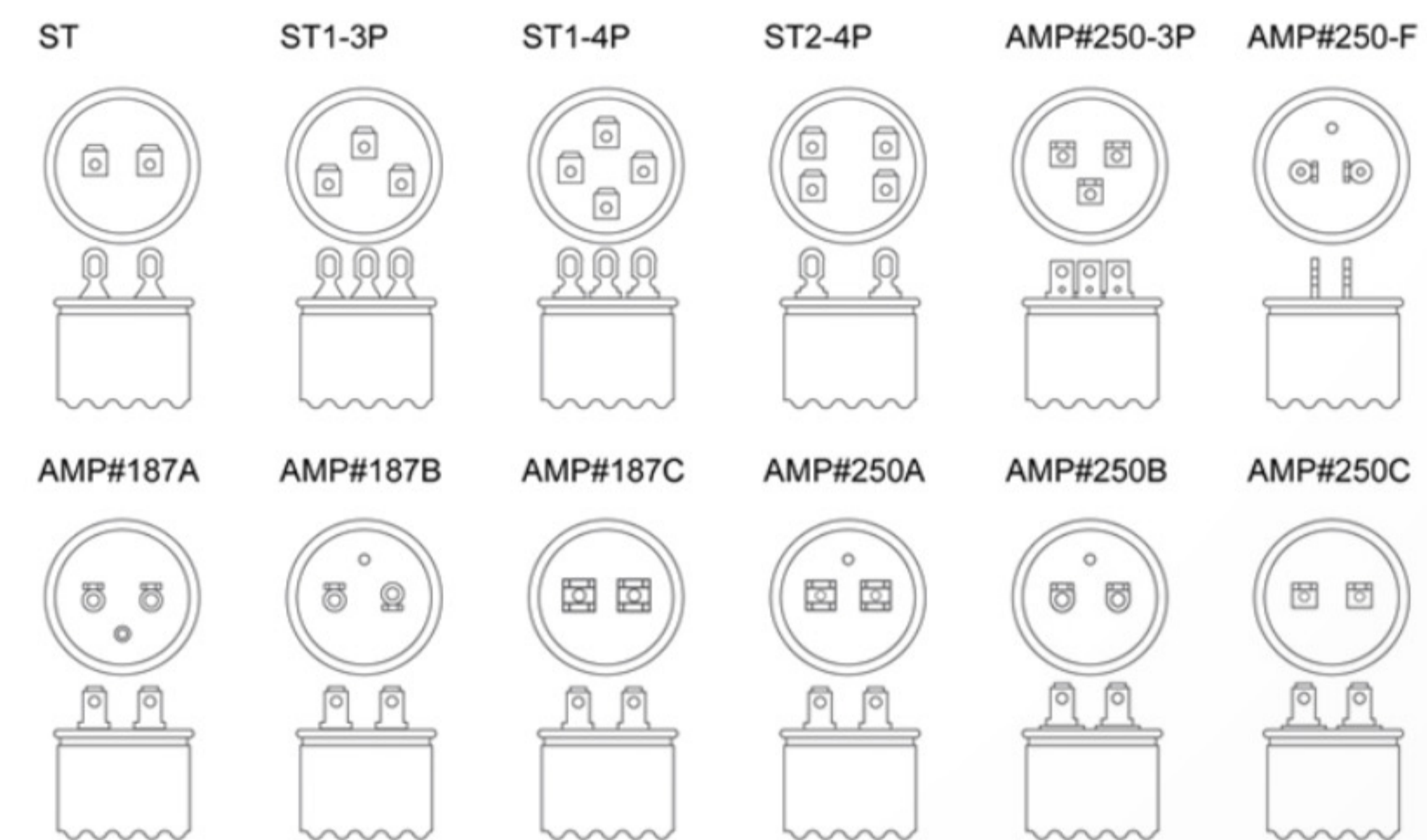
Insertion FASTON Receptacles



Terminal Code (Aluminium Cover with Terminals)



Terminal Code (Bakelite Cover with Terminals)



Terminal Code (for Electrolytic Motor Starting Capacitors Only)

