

MOTOR & LIGHTING CAPACITORS



Single-phase polypropylene and electrolytic Capacitors.

COMAR
Condensatori

Save Your **Energy.**

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A photograph of a modern building facade with large windows and a prominent sign for 'COMAIR Condensatori'. The sign is mounted on a light-colored wall and features the word 'COMAIR' in large, bold, blue letters, with 'Condensatori' written below it in a smaller, blue, cursive font. The building has a series of large windows reflecting the sky and trees. The overall scene is brightly lit, suggesting a sunny day.

COMAIR
Condensatori

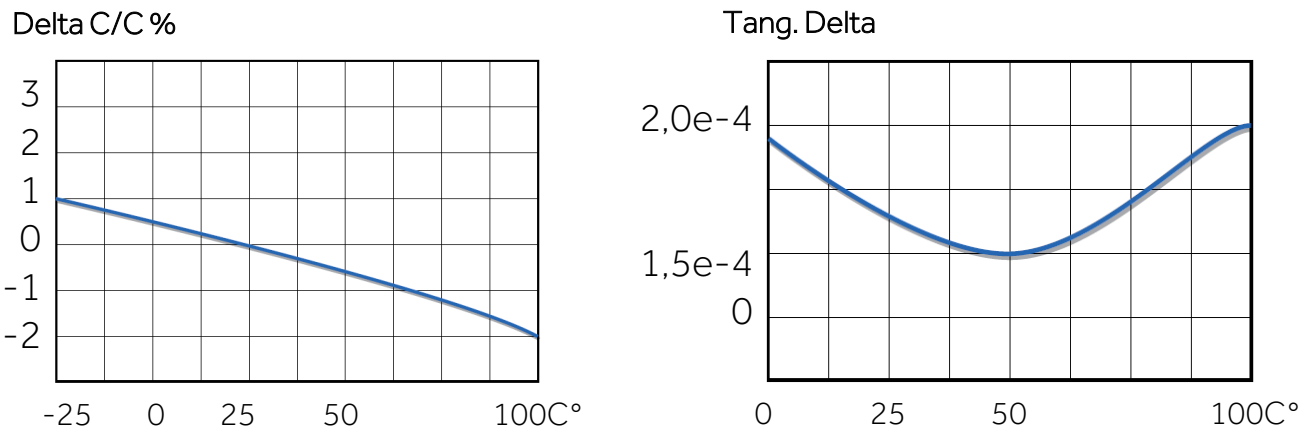
Introduction

COMAR Condensatori S.p.A.

Since 1968 we provide standard products, as well as tailor-made solutions, depending on the needs of the Customer. We are leaders in the production of single-phase and three-phase **capacitors**, as well as power factor correction equipment.

The production began with the oil-paper dielectric capacitors and has evolved into the current **metallized polypropylene** capacitors. Our **MKP** capacitors are made of a bi-oriented polypropylene dielectric with low shrinkage and high mechanical properties.

The most relevant feature of this type of film is the **self-healing of the dielectric** that allows the restoration of the electrical functionality, while the stability over time is guaranteed by the technological and methodological measures adopted during the construction of each capacitor. Below are summarized the key characteristics when temperature changes:



Thanks to the continual replacement and upgrading of production equipment, the quality and reliability levels are always improving and at the highest international standard. Indeed, several homologations have been achieved during the years, such as:

Motor Capacitors



Lighting Capacitors



The excellence of COMAR Condensatori products is possible thanks to Italian supply chain, fully under control in our factory located near Bologna. The path to ensure the quality of the methods of design, procurement, production, testing and delivery sees the achievement of the **ISO 9001**, **ISO 14001** and **OHSAS 18001** certifications.

All COMAR capacitors, displayed in this catalog, are labelled with **CE marking**.

Insights on Motor Capacitors

This catalogue includes standard single-phase capacitors currently provided by COMAR Condensatori. Capacitors for **motor applications**, thanks to a very wide choice of models and construction options, offer the ideal solution for any type of application with **single or three-phase motors** supplied as single-phase. Single and three-phase electrical motors need, for their starting, a capacitor which generates a displaced current creating a rotating magnetic field. The capacitor can be used also for permanent operation, it maintains the required magnetic field and it compensates the motor's inductive load.

There are two types of capacitors used for those applications:

- motor starting capacitors, they are electrolytic capacitors with high capacitance value (μF), able to provide an high starting torque to the motor. They are disconnected at the end of the starting in order to avoid overload to the motor winding;
- motor running capacitors, they are used to improve the value of the $\cos\phi$ when motor is working at rated load conditions, they are permanently connected to the motor.

When using **single-phase** motors, the motor running capacitor also maintains the rotating magnetic field. For single-phase motors supplied at 230Vac 50Hz, the value of required motor running capacitors is 30 - 50 μF for kW of motor power.

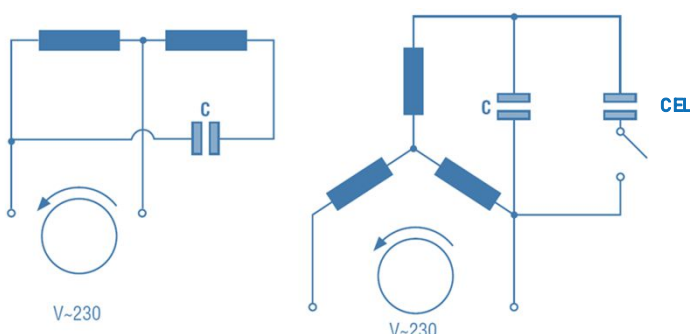
Typical values for Single-phase applications	<i>kW</i>	0,18	0,37	0,55	0,75	0,92	1,1	1,5
	<i>HP</i>	0,25	0,5	0,75	1	1,25	1,5	2
3000'/min 50 Hz – 2 Poles		10	16	20	25	30	32	40
1500'/min 50 Hz – 4 Poles		12,5	16	20	25	28	32	40
1000'/min 50 Hz – 6 Poles		10	20	25	25	30	36	50

When using **three-phase** motors with single-phase supply, the motor running capacitor ensures the presence of the third phase.

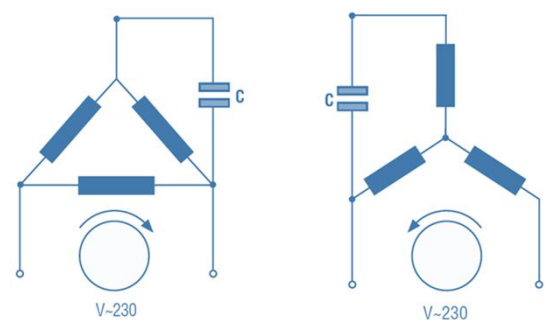
Typical values for Three-phase motor	<i>kW</i>	0,18	0,37	0,55	0,75	0,92	1,1	1,5
	<i>HP</i>	0,25	0,5	0,75	1	1,25	1,5	2
Full Load		12,5	25	38	50	60	75	100

The above data are obtained from the catalogue of motor manufacturers; they have indicative value and they are not binding for COMAR Condensatori.

Single-phase applications



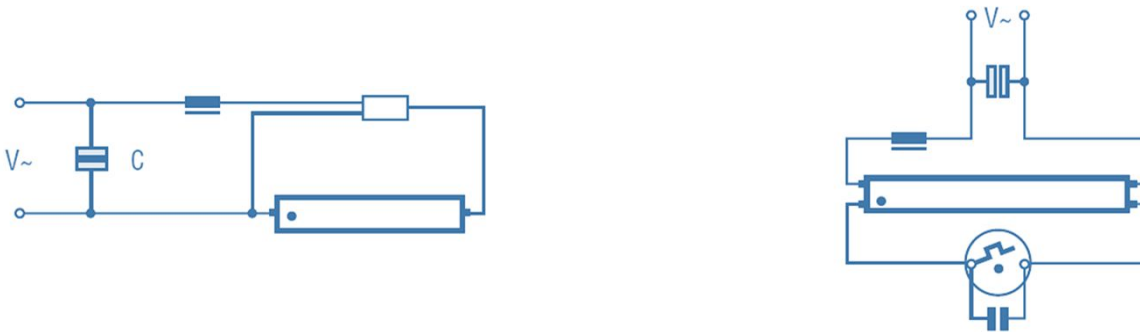
Three-phase applications with single-phase supply



Insights on Lighting Capacitors

The capacitors for **lighting applications**, thanks to a very wide choice of models and constructions options, offer the ideal solution to compensate **fluorescent and discharge lamps**. All fluorescent and discharge lamps need a reactor to switch and keep on the electric arc. This kind of load is very inductive ($\cos\phi \leq 0.5$) and it generates very high value of absorbed current. In order to decrease the absorbed current (optimizing the cable section of the supply cables) and to improve the value of the $\cos\phi$; it is necessary to add a capacitor in the circuit. The national regulation of many countries impose the use of the compensation capacitors in lighting installations.

COMAR provides capacitors to be used in **parallel** (see beside examples): one capacitor can compensate one or more lamps supplied in parallel;



Typical capacitors values used in lighting equipment are reported below.

Fluorescent Lamps

Electronic		Preheated				Rapid		Rapid Start		Slimline	
W	μF	W	μF	W	μF	W	μF	W	μF	W	μF
5	2	4	2	30	4,5	14	4	20	4	42" T6 25W	5
7	2	6	2	32	4,5	16	4	22	4	48" T12 25W	12,5
9	2,5	8	2	40	4,5	20	4	32	5	64" T6 38W	8
10	2,5	10	2	65	7	22	4	40	5	72" T8 37W	8
11	2,5	14	4	85	8	25	4	65	10	72" T12 57W	16
13	3	16	4	115	16	30	5	115	16	96" T8 50W	10
18	3	20	4	140	18	32	5	140	18	96" T12 75W	16
24	4	22	4			40	5	215	30		
26	4	25	4,5								
36	4,5										

Discharge Lamps

High Pressure Sodium		Low Pressure Sodium		Mercury		Metal Halide	
W	μF	W	μF	W	μF	W	μF
50	10	18	5	50	8	70	12
70	12,5	35	20	80	9	150	20
100	18,5	55	20	125	10	250	30
125	20	90	30	250	20	400	35
150	20	135	35	400	25	1000	70
250	30	180	40	700	40	2000	125
400	50			1000	60	2000/380	60
1000	100						
2000	125						

The above data are obtained from the catalogue of lamp manufacturers; they have indicative value and they are not binding for COMAR Condensatori.



MKA 450 • MK 450 • EL

Motor Capacitors



MKA 450

Motor Film Capacitors



PERFORMANCE DATA

- Rated Voltage 450 Vac
- Rated Frequency 50 / 60 Hz
- Capacitance Tolerance $-/+ 5\%$
- Operating class 400 V – B 10000 h (HPFNT)
450 V – C 3000 h (HPFPU)
- Dielectric Self-healing MKP
- Safety class S0

STANDARDS AND APPROVALS

Reference standards CEI EN 60252-1; VDE560-8

Homologation EN60252-1 (1.5 \pm 45 μ F)

EN60252-1 (1.5 \pm 45 μ F)

File E214047 (upon request)



The **MKA 450** capacitors are suitable for the **standard** motor applications.

TECHNICAL DATA

Climatic category	-25 °C / +85 °C
Protection degree	IP00
Loss Factor	$\leq 5 \times 10^{-4}$ typical value
Test Voltage between terminals	1,75 Vn x 2 sec (min.)
Test Voltage between terminals and case	2 Vn x 2 sec (min.)

MECHANICAL CONFIGURATIONS

Case	Plane base self-extinguishing (V2) plastic case	Plane base self-extinguishing (V2) plastic case	Plane base self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case
Finishing	Bipolar cable. Length = 250 mm (other length on request)	Two flexible leads. Length = 150 mm (other length on request)	Faston terminal. Single if $\varnothing = 25$ mm, otherwise double. Size = 6,3 x 0,8 mm	Bipolar cable. Length = 250 mm (other length on request)	Two flexible leads. Length = 150 mm (other length on request)	Faston terminal. Single if $\varnothing = 25$ mm, otherwise double. Size = 6,3 x 0,8 mm
Figure						
Top view						
Naming	Pla-PB CB250	Pla-PB CVF150	Pla-PB FS/FD	Pla-C8 CB250	Pla-C8 CVF150	Pla-C8 FS/FD

Optional item:

- Capacitors can be equipped with plastic **protective cap**

CONFIGURATION

Table

Type	Cn (μ F)	Homologation	Dimension D x H (mm)	Pcs x bag*
MKA 450-1	1		25 x 57	50
MKA 450-1,25	1,25		25 x 57	50
MKA 450-1,5	1,5	VDE IMQ	25 x 57	50
MKA 450-2	2	VDE IMQ	25 x 57	50
MKA 450-2,5	2,5	VDE IMQ	25 x 57	50
MKA 450-3	3	VDE IMQ	25 x 57	50
MKA 450-3,15	3,15	VDE IMQ	25 x 57	50
MKA 450-3,5	3,5	VDE IMQ	25 x 57	50
MKA 450-3,75	3,75	VDE IMQ	25 x 57	50
MKA 450-4	4	VDE IMQ	25 x 57	50
MKA 450-4,5	4,5	VDE IMQ	25 x 57	50
MKA 450-5	5	VDE IMQ	30 x 57	50
MKA 450-5,5	5,5	VDE IMQ	30 x 57	50
MKA 450-6	6	VDE IMQ	30 x 57	50
MKA 450-6,3	6,3	VDE IMQ	30 x 57	50
MKA 450-7	7	VDE IMQ	30 x 57	50
MKA 450-8	8	VDE IMQ	30 x 70	50
MKA 450-9	9	VDE IMQ	30 x 70	50
MKA 450-10	10	VDE IMQ	30 x 70	50
MKA 450-11	11	VDE IMQ	35 x 70	50
MKA 450-12	12	VDE IMQ	35 x 70	50
MKA 450-12,5	12,5	VDE IMQ	35 x 70	50
MKA 450-13	13	VDE IMQ	35 x 70	50
MKA 450-14	14	VDE IMQ	35 x 70	50
MKA 450-15	15	VDE IMQ	40 x 70	50
MKA 450-16	16	VDE IMQ	40 x 70	50
MKA 450-18	18	VDE IMQ	40 x 70	50
MKA 450-20	20	VDE IMQ	40 x 70	50
MKA 450-22	22	VDE IMQ	40 x 94	50
MKA 450-25	25	VDE IMQ	40 x 94	50
MKA 450-30	30	VDE IMQ	40 x 94	50
MKA 450-31,5	31,5	VDE IMQ	40 x 94	50
MKA 450-35	35	VDE IMQ	45 x 94	50
MKA 450-40	40	VDE IMQ	45 x 94	50
MKA 450-45	45	VDE IMQ	50 x 94	50
MKA 450-50	50		50 x 94	50
MKA 450-55	55		50 x 94	50
MKA 450-60	60		50 x 120	50
MKA 450-70	70		50 x 120	50
MKA 450-75	75		50 x 120	50
MKA 450-80	80		50 x 120	50
MKA 450-90	90		60 x 120	50
MKA 450-100	100		60 x 120	50

Other solutions are available on request.

* All capacitors are supplied inside polyethylene bag, in order to reduce cardboard boxes.

MK 450

Motor Film Capacitors



PERFORMANCE DATA

- Rated Voltage 450 Vac
- Rated Frequency 50 / 60 Hz
- Capacitance Tolerance $-/+ 5\%$
- Operating class 420 V – A 30000 h (HPFNS)
450 V – B 10000 h (HPFNT)
- Dielectric Self-healing MKP
- Safety class S0

STANDARDS AND APPROVALS

Reference standards CEI EN 60252-1; VDE560-8

Homologation EN60252-1 (1.5 \pm 45 μ F)
EN60252-1 (1.5 \pm 45 μ F)



The **MKA 450** capacitors are suitable for the **heavy duty** motor applications.

TECHNICAL DATA

Climatic category	-25 °C / +85 °C
Protection degree	IP00
Loss Factor	$\leq 5 \times 10^{-4}$ typical value
Test Voltage between terminals	1,75 Vn x 2 sec (min.)
Test Voltage between terminals and case	2 Vn x 2 sec (min.)

MECHANICAL CONFIGURATIONS

Case	Plane base self-extinguishing (V2) plastic case	Plane base self-extinguishing (V2) plastic case	Plane base self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case
Finishing	Bipolar cable. Length = 250 mm (other length on request)	Two flexible leads. Length = 150 mm (other length on request)	Faston terminal. Single if $\varnothing = 25$ mm, otherwise double. Size = 6,3 x 0,8 mm	Bipolar cable. Length = 250 mm (other length on request)	Two flexible leads. Length = 150 mm (other length on request)	Faston terminal. Single if $\varnothing = 25$ mm, otherwise double. Size = 6,3 x 0,8 mm
Figure						
Top view						
Naming	Pla-PB CB250	Pla-PB CVF150	Pla-PB FS/FD	Pla-C8 CB250	Pla-C8 CVF150	Pla-C8 FS/FD

Optional item:

- Capacitors can be equipped with plastic **protective cap**

CONFIGURATION

Table

Type	Cn (μ F)	Homologation	Dimension D x H (mm)	Pcs x bag*
MK 450-1	1	VDE IMQ	30 x 57	50
MK 450-1,25	1,25	VDE IMQ	30 x 57	50
MK 450-1,5	1,5	VDE IMQ	30 x 57	50
MK 450-2	2	VDE IMQ	30 x 57	50
MK 450-2,5	2,5	VDE IMQ	30 x 57	50
MK 450-3	3	VDE IMQ	30 x 57	50
MK 450-3,15	3,15	VDE IMQ	30 x 57	50
MK 450-3,5	3,5	VDE IMQ	30 x 57	50
MK 450-3,75	3,75	VDE IMQ	30 x 57	50
MK 450-4	4	VDE IMQ	30 x 57	50
MK 450-4,5	4,5	VDE IMQ	30 x 57	50
MK 450-5	5	VDE IMQ	30 x 57	50
MK 450-5,5	5,5	VDE IMQ	30 x 70	50
MK 450-6	6	VDE IMQ	30 x 70	50
MK 450-6,3	6,3	VDE IMQ	30 x 70	50
MK 450-7	7	VDE IMQ	30 x 70	50
MK 450-8	8	VDE IMQ	30 x 70	50
MK 450-9	9	VDE IMQ	35 x 70	50
MK 450-10	10	VDE IMQ	35 x 70	50
MK 450-11	11	VDE IMQ	40 x 70	50
MK 450-12	12	VDE IMQ	40 x 70	50
MK 450-12,5	12,5	VDE IMQ	40 x 70	50
MK 450-13	13	VDE IMQ	40 x 70	50
MK 450-14	14	VDE IMQ	40 x 70	50
MK 450-15	15	VDE IMQ	40 x 70	50
MK 450-16	16	VDE IMQ	40 x 70	50
MK 450-18	18	VDE IMQ	40 x 94	50
MK 450-20	20	VDE IMQ	40 x 94	50
MK 450-22	22	VDE IMQ	40 x 94	50
MK 450-25	25	VDE IMQ	45 x 94	50
MK 450-30	30	VDE IMQ	45 x 94	50
MK 450-31,5	31,5	VDE IMQ	45 x 94	50
MK 450-35	35	VDE IMQ	50 x 94	50
MK 450-40	40	VDE IMQ	50 x 94	50
MK 450-45	45	VDE IMQ	50 x 120	50
MK 450-50	50		50 x 120	50
MK 450-55	55		55 x 120	50
MK 450-60	60		55 x 120	50
MK 450-70	70		60 x 120	50
MK 450-75	75		60 x 120	50
MK 450-80	80		60 x 120	50

Other solutions are available on request.

* All capacitors are supplied inside polyethylene bag, in order to reduce cardboard boxes.



The **EL** electrolytic capacitor have **high capacitance** (μF value) able to provide an high starting torque to the motor. It is a non polarized capacitor especially designed for intermittent AC voltage applications for single-phase motors.

PERFORMANCE DATA

- **Rated Voltage** 125 / 250 / 320 Vac
- **Rated Frequency** 50 / 60 Hz
- **Capacitance Tolerance** - 0% + 25% or +/- 10%
- **Operating class** The standard time rating defined of IEC 252 is 1,67% full time and corresponds to a duty cycle of 3 seconds on and 177 seconds off.

STANDARDS

- Reference standards** CEI EN 60252-2 (capacitor)
CEI EN 60695-11-10 (electrolyte)

TECHNICAL DATA

Working temperature	-25 °C / +75 °C (operating) -40 °C / +85 °C (storage)
Endurance test	500 h
Dissipation loss angle	Measurement frequency: 100 Hz, temperature 20°C value shall not exceed 0,10 (typical value) and shall be calculated as follows: $\text{Tan } d = W / (V \times I) = (\text{true watts} / \text{apparent watts})$
Test Voltage between terminals	1,4 Vn x 1 sec
Test Voltage between terminals and case	1,5 kV x 5 sec
Capacitance measurement	Capacitance shall be determined by measuring the current – after 2/3 sec. of energising – through the capacitor at rated voltage and frequency. The capacitance is defined as follows: $C = (I \times 10^6) / 2 \pi^2 \times f \times V$

MECHANICAL CONFIGURATION

Case	Plane base self-extinguishing (V2) plastic case
Finishing	Double faston terminal. Size = 6,3 x 0,8 mm
Figure	

Optional requests:

- Capacitors can be provided **without protective cap**
- Capacitors can be provided **without fixing bracket**

CONFIGURATION

Table

Type	Cn (μ F)	Rated Voltage	Dimension D x H (mm)
EL 125V	100 - 125	125 V	46 x 98
EL 125V	125 - 160	125 V	46 x 98
EL 125V	160 - 200	125 V	46 x 98
EL 125V	200 - 250	125 V	46 x 98
EL 125V	250 - 315	125 V	46 x 98
EL 125V	315 - 400	125 V	46 x 98

Type	Cn (μ F)	Rated Voltage	Dimension D x H (mm)
EL 250V	25 - 31,5	250 V	46 x 98
EL 250V	31,5 - 40	250 V	46 x 98
EL 250V	40 - 50	250 V	46 x 98
EL 250V	50 - 63	250 V	46 x 98
EL 250V	63 - 80	250 V	46 x 98
EL 250V	80 - 100	250 V	46 x 98
EL 250V	100 - 125	250 V	46 x 98
EL 250V	125 - 160	250 V	46 x 98
EL 250V	160 - 200	250 V	46 x 98
EL 250V	200 - 250	250 V	46 x 98
EL 250V	250 - 315	250 V	46 x 98
EL 250V	315 - 400	250 V	46 x 98
EL 250V	400	250 V	46 x 98
EL 250V	500	250 V	46 x 98

Type	Cn (μ F)	Rated Voltage	Dimension D x H (mm)
EL 320V	25 - 31,5	320 V	46 x 98
EL 320V	31,5 - 40	320 V	46 x 98
EL 320V	40 - 50	320 V	46 x 98
EL 320V	50 - 63	320 V	46 x 98
EL 320V	63 - 80	320 V	46 x 98
EL 320V	80 - 100	320 V	46 x 98
EL 320V	100 - 125	320 V	46 x 98
EL 320V	125 - 160	320 V	46 x 98
EL 320V	160 - 200	320 V	46 x 98
EL 320V	200 - 250	320 V	46 x 98
EL 320V	250 - 315	320 V	46 x 98

Other solutions are available on request.

DR - DRC

Relay Disjunctore



The electronic disjunctore is a device that allows the starts up of electrical asynchronous single phase motor. The disjunctore with Relay connects the motor start capacitor for the time necessary to reach the 80% of the rated motor speed, then it opens and discharges the capacitor by means of a resistance. The **DR** comes alone, while **DRC** also includes the capacitor.

PERFORMANCE DATA

- Rated Voltage 250 / 450 Vac
- Rated Frequency 50 / 60 Hz
- Max. Capacitance 100 μ F - 450 Vac (50 Hz)
180 μ F - 250 Vac (50 Hz)
90 μ F - 450 Vac (60 Hz)
160 μ F - 250 Vac (60 Hz)

STANDARDS

Homologation UL E475575

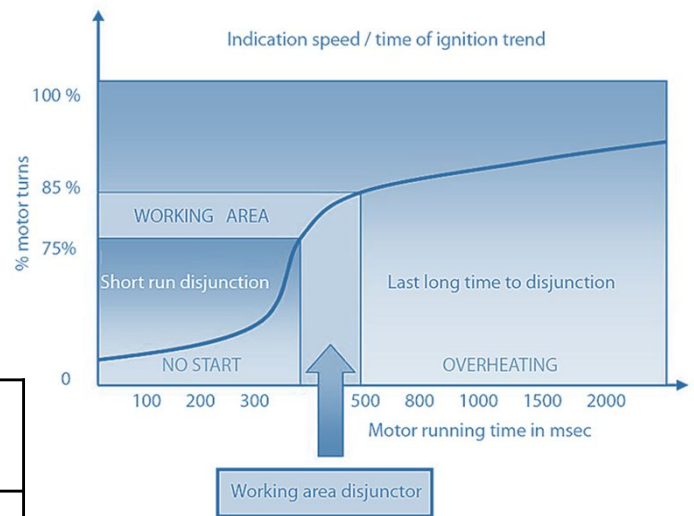
TECHNICAL DATA

Disjunctore Recovery Time (after one intervention)	1 sec (since the motor switches off)
Advisable repetition time	6 sec
Number of advisable max starts up	6 /min
Max current	15 A
Operation and Storage temperature	-20 °C / +80 °C

CONFIGURATION

DR Series: Relay without Capacitor

Type	Current (A)	Voltage (Vac)	Dimension D x H (mm)
DR R2 250	15	up to 250	42 x 70
DR R4 450	15	up to 250	42 x 70

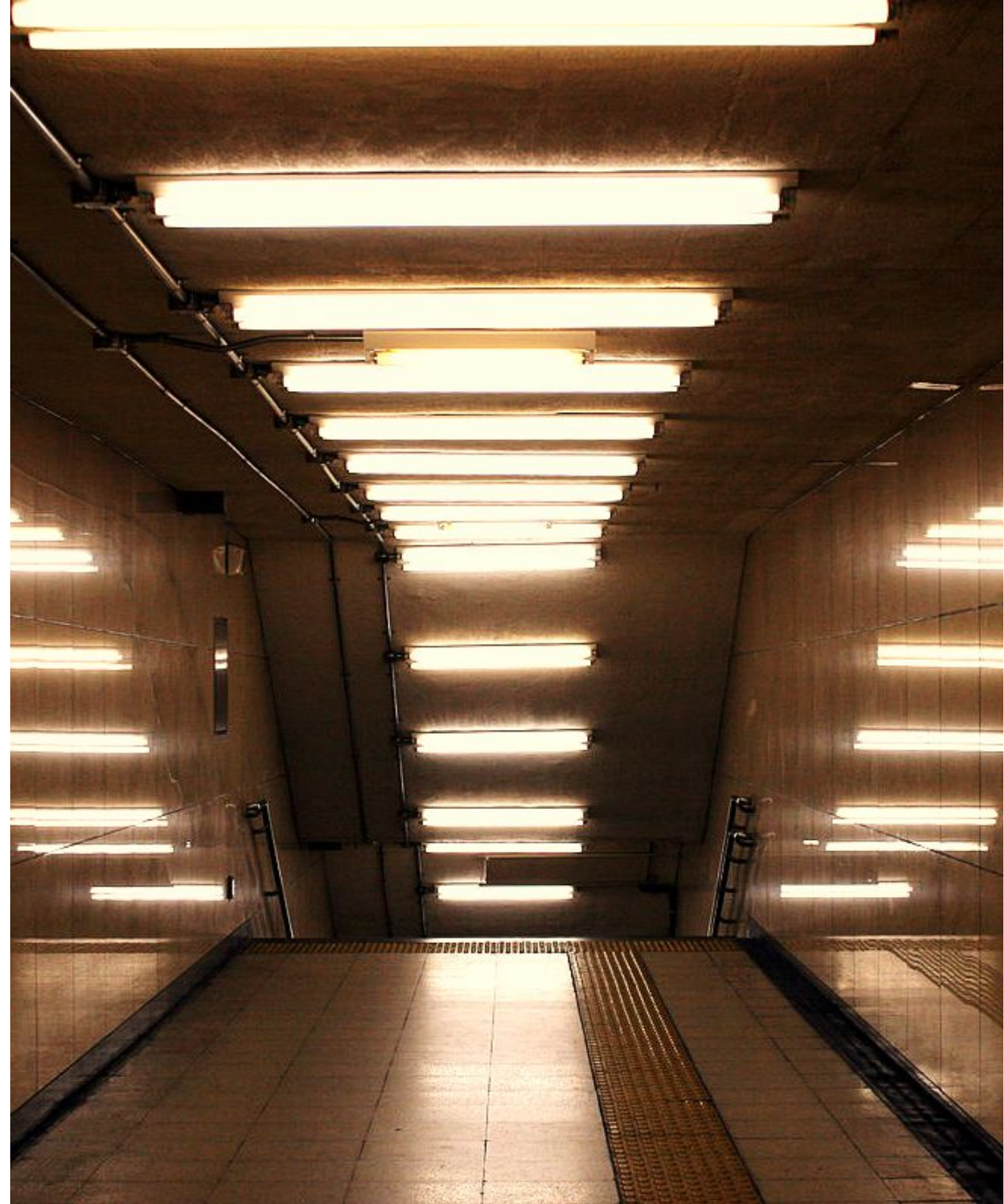


DRC Series: Relay with Capacitor

Type	Cn (μ F)	Voltage (Vac)	Dimension D x H (mm)
DRC - 250 - 10	10	up to 250	45 x 94
DRC - 250 - 15	15	up to 250	45 x 94
DRC - 250 - 18	18	up to 250	45 x 94
DRC - 250 - 24	24	up to 250	45 x 94
DRC - 250 - 45	45	up to 250	55 x 94
DRC - 250 - 60	60	up to 250	50 x 120
DRC - 250 - 80	80	up to 250	60 x 120
DRC - 250 - 100	100	up to 250	65 x 120
DRC - 250 - 160	160	up to 250	65 x 120

Type	Cn (μ F)	Voltage (Vac)	Dimension D x H (mm)
DRC - 450 - 10	10	up to 250	45 x 94
DRC - 450 - 12	15	up to 250	45 x 94
DRC - 450 - 15	15	up to 250	45 x 94
DRC - 450 - 22,5	22,5	up to 250	45 x 94
DRC - 450 - 40	40	up to 250	55 x 94
DRC - 450 - 50	50	up to 250	50 x 120
DRC - 450 - 80	80	up to 250	60 x 120
DRC - 450 - 100	100	up to 250	65 x 120

Tailor made versions available on requests:



MFE 250 • MFE 450

Lighting Capacitors



MFE 250

Lighting Capacitors



The **MFE 250** capacitors are suitable for lighting applications such as **fluorescent** and **discharge lamps**.

PERFORMANCE DATA

- Rated Voltage 250 Vac
- Rated Frequency 50 Hz (optional 60 Hz)
- Capacitance Tolerance $-/+ 10$ (optional $+/- 5\%$)
- Operating class 400 V – B 10000 h (HPFNT)
450 V – C 3000 h (HPFPU)

STANDARDS AND APPROVALS

Reference standards CEI EN 60252-1; VDE5460-8

Homologation IMQ - EN61048 2/ EN61049
ENEC03



TECHNICAL DATA

Climatic category	$-25\text{ °C} / +85\text{ °C}$. Upon request: max. temperature $+100\text{ °C}$.
Protection degree	IP00.
Loss Factor	$\leq 5 \times 10^{-4}$ typical value
Test Voltage between terminals	$2 V_n \times 2 \text{ sec}$
Test Voltage between terminals and case	$2 \text{ kV} \times 2 \text{ sec}$

MECHANICAL CONFIGURATIONS

Case	Plane base self-extinguishing (V2) plastic case	Bottom M8 metal stud self-extinguishing (V2) plastic case
Finishing	Two flexible leads. Length = 150 mm (other length on request)	Two flexible leads. Length = 150 mm (other length on request)
Figure		
Top view		
Naming	Pla-PB CVF150	Pla-PB + Pla-C8 CVF150

Optional items:

- Capacitors can be equipped with plastic **protective cap**
- Capacitors can be equipped with **discharge resistors**

CONFIGURATION

Table

Type	Cn (μ F)	Pcs x box	Dimension D x H (mm)
MFE 250-2	2	150	25 x 57
MFE 250-2,5	2,5	150	25 x 57
MFE 250-3	3	150	25 x 57
MFE 250-3,15	3,15	150	25 x 57
MFE 250-3,5	3,5	150	25 x 57
MFE 250-4	4	150	25 x 57
MFE 250-4,5	4,5	150	25 x 57
MFE 250-5	5	150	25 x 70
MFE 250-6	6	150	25 x 70
MFE 250-6,3	6,3	150	25 x 57
MFE 250-7	7	100	30 x 70
MFE 250-8	8	100	30 x 70
MFE 250-9	9	100	30 x 70
MFE 250-10	10	100	30 x 70
MFE 250-11	11	100	30 x 70
MFE 250-12	12	100	30 x 70
MFE 250-12,5	12,5	100	30 x 70
MFE 250-14	14	70	35 x 70
MFE 250-15	15	70	35 x 70
MFE 250-16	16	70	35 x 70
MFE 250-18	18	50	40 x 70
MFE 250-20	20	50	40 x 70
MFE 250-25	25	50	40 x 94
MFE 250-30	30	50	40 x 94
MFE 250-31,5	31,5	50	40 x 94
MFE 250-35	35	50	45 x 94
MFE 250-40	40	50	45 x 94
MFE 250-45	45	50	45 x 94
MFE 250-50	50	50	50 x 94
MFE 250-55	55	35	50 x 120

Other solutions are available on request.

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