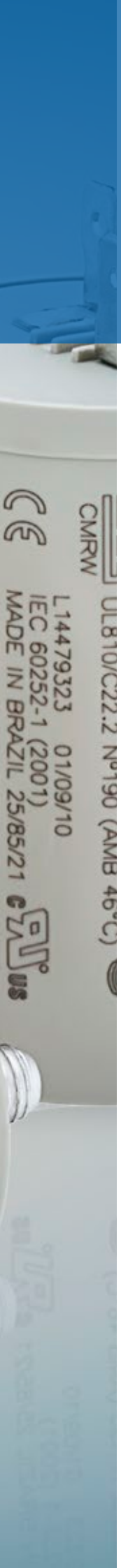
METALLIZED POLYPROPYLENE MOTOR RUN CAPACITORS

Safety for your applications

Motors | Automation | Energy | Transmission & Distribution | Coatings

CMRW
25µF ±5% B (10000h)
400V ~ 50/60Hz SH
UL810/C22.2 Nº190 (AMB 46°C)
L14479323 01/09/10
IEC 60252-1 (2001)
MADE IN BRAZIL 25/85/21
CMRW
25µF ±5% B (10000h)
400V ~ 50/60Hz SH
UL810/C22.2 Nº190 (AMB 46°C)
L14479323 01/09/10
IEC 60252-1 (2001)
MADE IN BRAZIL 25/85/21
CMRW
7µF ±5% P0 B (10000h)
400V~50/60Hz SH
L14242049 01/09/10
IEC 60252-1 (2001)
25/85/21
MADE IN BRAZIL

Metallized Polypropylene Motor Run Capacitors



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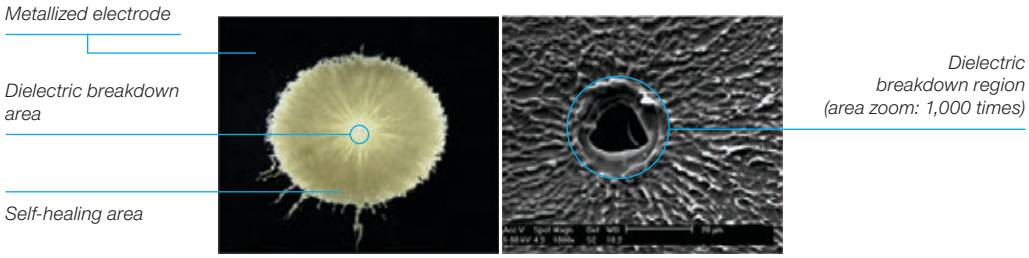
SAFETY
FOR YOUR APPLICATIONS

The ***Metallized Polypropylene Motor Run Capacitors*** are designed to ***increase the efficiency***, improve the torque and contribute to the motor start.

Manufactured according to the ***IEC 60252-1 standard***, WEG capacitors offer ***high reliability***, ***safety***, ***and robustness***, and use a self-healing metallized polypropylene film.

The metallized propylene film has self-healing characteristics, enabling the fast reestablishment of the capacitor electrical proprieties after a dielectric breakdown. As shown in the following pictures, at the moment of the dielectric breakdown, which may be caused by an electric and/or a thermal overload or by the end of the service life, the metal coating around the breakdown is vaporized and the short circuit is insulated.

Technology of the Metallized Polypropylene Motor Run Capacitors



CMRW Metallized Polypropylene Motor Run Capacitors

Application

- Single-phase motors in general, such as automatic washing machines, pumps, fans, automatic gates etc.

Reference Standards

- IEC 60252-1
- UL 810

Characteristics

- Life expectancy of 10,000 hours
- Self-healing capacitor
- Compliance with RoHS requirements
- For application in continuous and intermittent operation

Safety

- Self-healing characteristics: after a dielectric breakdown, the electrical properties of the capacitor are quickly and essentially restored to the state before the fault
- The case uses material with flammability V2

Technical Data

Technical data	CMRW
Capacitance range	2...60 µF
Tolerance	±5%
Rated voltage	250...440 V ac
Class of operation	B - 10,000 hours
Class of safety protection	P0
Maximum voltage	1.1 x VN
Maximum current	1.3 x IN
Tangent of loss angle (60 Hz)	2×10^{-4}
Climatic category	25/85/21
Minimum operating temperature	-25 °C
Maximum operating temperature	+85 °C
Minimum storage temperature	-40 °C
Maximum storage temperature	+90 °C
Maximum altitude	2,000 m
Dielectric	Polypropylene
Case material	PP V2
Filling material	Solid polyurethane resin (no PCB)
Degree of protection	IP00
Terminals	Single faston terminal (6.3 x 0.8 mm) Double faston terminal (6.3 x 0.8 mm) Wire terminal 0.5 mm²
Reference standards	IEC 60252-1 / UL 810
Certifications	
RoHS compliance	
Optional items	
Capacitor fixing	M8 x 10 mm
Maximum torque for capacitor fixing	5 Nm

Note: wire terminal capacitors with UL certification on request.

CMRW Metallized Polypropylene Motor Run Capacitors

Selection Table

CMRW Line								
Voltage (V)	Capacitance (µF)	Description	Case dimensions without bolt		Case dimensions with bolt		Approximate weight (kg)	Multiple supply quantity
			D (mm)	H (mm)	D (mm)	H (mm)		
250	2	CMRW2D26 P0 B ♦EXP	25	56	30	59	0.022	80
	3	CMRW3D26 P0 B ♦EXP	25	56	30	59	0.022	80
	4	CMRW4D26 P0 B ♦EXP	25	56	30	59	0.023	80
	5	CMRW5D26 P0 B ♦EXP	25	56	30	59	0.024	80
	6	CMRW6D26 P0 B ♦EXP	30	56	30	59	0.032	80
	7	CMRW7D26 P0 B ♦EXP	30	56	30	59	0.032	80
	8	CMRW8D26 P0 B ♦EXP	30	56	30	59	0.033	80
	9	CMRW9D26 P0 B ♦EXP	30	56	30	59	0.033	80
	10	CMRW10D26 P0 B ♦EXP	30	56	30	59	0.035	80
	12	CMRW12D26 P0 B ♦EXP	35	56	35	59	0.044	70
	15	CMRW15D26 P0 B ♦EXP	35	56	35	59	0.046	70
	16	CMRW16D26 P0 B ♦EXP	35	56	35	59	0.047	70
	17	CMRW17D26 P0 B ♦EXP	35	74	35	78	0.059	70
	20	CMRW20D26 P0 B ♦EXP	35	74	35	78	0.060	70
	25	CMRW25D26 P0 B ♦EXP	35	74	35	78	0.062	70
	30	CMRW30D26 P0 B ♦EXP	35	74	35	78	0.064	70
	35	CMRW35D26 P0 B ♦EXP	40	78	40	98	0.088	30
	40	CMRW40D26 P0 B ♦EXP	40	78	40	98	0.090	30
	45	CMRW45D26 P0 B ♦EXP	40	94	40	98	0.101	30
	50	CMRW50D26 P0 B ♦EXP	40	94	40	98	0.101	30
	55	CMRW55D26 P0 B ♦EXP	40	94	40	98	0.102	30
	60	CMRW60D26 P0 B ♦EXP	45	94	45	94	0.130	30
400	2	CMRW2D34 P0 B ♦EXP	25	56	30	59	0.022	80
	3	CMRW3D34 P0 B ♦EXP	25	56	30	59	0.022	80
	4	CMRW4D34 P0 B ♦EXP	25	56	30	59	0.023	80
	5	CMRW5D34 P0 B ♦EXP	30	56	30	59	0.032	80
	6	CMRW6D34 P0 B ♦EXP	30	56	30	59	0.033	80
	7	CMRW7D34 P0 B ♦EXP	30	56	30	59	0.033	80
	8	CMRW8D34 P0 B ♦EXP	35	56	35	59	0.046	70
	9	CMRW9D34 P0 B ♦EXP	35	56	35	59	0.046	70
	10	CMRW10D34 P0 B ♦EXP	35	56	35	59	0.043	70
	12	CMRW12D34 P0 B ♦EXP	35	56	35	59	0.043	70
	15	CMRW15D34 P0 B ♦EXP	35	74	35	78	0.044	70
	16	CMRW16D34 P0 B ♦EXP	35	74	35	78	0.060	70
	17	CMRW17D34 P0 B ♦EXP	35	74	35	78	0.060	70
	20	CMRW20D34 P0 B ♦EXP	40	78	40	98	0.079	30
	25	CMRW25D34 P0 B ♦EXP	40	94	40	98	0.098	30
	30	CMRW30D34 P0 B ♦EXP	40	94	40	98	0.099	30
	35	CMRW35D34 P0 B ♦EXP	45	94	45	94	0.101	30
	40	CMRW40D34 P0 B ♦EXP	45	94	45	94	0.102	30
	45	CMRW45D34 P0 B ♦EXP	45	94	45	94	0.102	30

CMRW Metallized Polypropylene Motor Run Capacitors

Selection Table

CMRW Line								
Voltage (V)	Capacitance (µF)	Description	Case dimensions without bolt		Case dimensions with bolt		Approximate weight (kg)	Multiple supply quantity
			D (mm)	H (mm)	D (mm)	H (mm)		
440	2	CMRW2D36 P0 B ♦EXP	25	56	30	59	0.021	30
	3	CMRW3D36 P0 B ♦EXP	25	56	30	59	0.021	80
	4	CMRW4D36 P0 B ♦EXP	30	56	30	59	0.032	80
	5	CMRW5D36 P0 B ♦EXP	30	56	30	59	0.032	80
	6	CMRW6D36 P0 B ♦EXP	35	56	35	59	0.045	70
	7	CMRW7D36 P0 B ♦EXP	35	56	35	59	0.046	70
	8	CMRW8D36 P0 B ♦EXP	35	56	35	59	0.046	70
	9	CMRW9D36 P0 B ♦EXP	35	74	35	78	0.060	70
	10	CMRW10D36 P0 B ♦EXP	35	74	35	78	0.060	70
	12	CMRW12D36 P0 B ♦EXP	35	74	35	78	0.061	70
	15	CMRW15D36 P0 B ♦EXP	40	78	40	98	0.085	30
	16	CMRW16D36 P0 B ♦EXP	40	78	40	98	0.085	30
	17	CMRW17D36 P0 B ♦EXP	40	78	40	98	0.086	30
	20	CMRW20D36 P0 B ♦EXP	45	74	40	98	0.099	30
	25	CMRW25D36 P0 B ♦EXP	45	94	45	94	0.128	30
	30	CMRW30D36 P0 B ♦EXP	45	94	45	94	0.128	30
	35	CMRW35D36 P0 B ♦EXP	45	94	45	94	0.129	30

Replace "♦" by the terminal code / fixing bolt.

Code	Description	Code	Description
TS	Single faston terminal	TS-P	Single faston terminal + bolt
TD	Double faston terminal	TD-P	Double faston terminal + bolt
TF200	Wire terminal 200 mm	TF200-P	Wire terminal 200 mm + screw

Notes: 1) Double faston terminal not available in case 25 x 56.
2) Other cable lengths on request.
3) Wire terminal capacitors with UL certification on request.

CMLW Metallized Polypropylene Motor Run Capacitors

Application

- Single-phase motors in general, such as small washing machines, fans, automatic gates, high-pressure washers etc.

Reference Standards

- IEC 60252-1

Characteristics

- Life expectancy of 3,000 hours
- Self-healing capacitor
- Compliance with RoHS requirements
- For application in intermittent operation

Safety

- Self-healing characteristics: after a dielectric breakdown, the electrical properties of the capacitor are quickly and essentially restored to the state before the fault
- The case uses material with flammability V2

Technical Data

Technical data	CMLW
Capacitance range	2...70 µF
Tolerance	±10%
Rated voltage	250...400 V ac
Class of operation	C - 3,000 hours
Class of safety protection	P0
Maximum voltage	1.1 x V_N
Maximum current	1.3 x I_N
Tangent of loss angle (60 Hz)	2 x 10^{-4}
Climatic category	25/70/21
Minimum operating temperature	-25 °C
Maximum operating temperature	+70 °C
Minimum storage temperature	-40 °C
Maximum storage temperature	+90 °C
Maximum altitude	2,000 m
Dielectric	Polypropylene
Case material	PP V2
Filling material	Solid polyurethane resin (no PCB)
Degree of protection	IP00
Terminals	Single faston terminal (6.3 x 0.8 mm) Double faston terminal (6.3 x 0.8 mm) Wire terminal 0.5 mm²
Reference standards	IEC 60252-1
Certifications	
RoHS compliance	
Optional items	
Capacitor fixing	M8 x 10 mm
Maximum torque for capacitor fixing	5 Nm

CMLW Metallized Polypropylene Motor Run Capacitors

Selection Table

CMLW Line								
Voltage (V)	Capacitance (µF)	Description	Case dimensions without bolt		Case dimensions without bolt		Approximate weight (kg)	Multiple supply quantity
			D (mm)	H (mm)	D (mm)	H (mm)		
250	2	CMLW2D26 P0 C ♦EXP	25	56	30	59	0.022	80
	3	CMLW3D26 P0 C ♦EXP	25	56	30	59	0.022	80
	4	CMLW4D26 P0 C ♦EXP	25	56	30	59	0.023	80
	5	CMLW5D26 P0 C ♦EXP	25	56	30	59	0.024	80
	6	CMLW6D26 P0 C ♦EXP	25	56	30	59	0.024	80
	7	CMLW7D26 P0 C ♦EXP	25	56	30	59	0.025	80
	8	CMLW8D26 P0 C ♦EXP	25	56	30	59	0.025	80
	9	CMLW9D26 P0 C ♦EXP	25	56	30	59	0.026	80
	10	CMLW10D26 P0 C ♦EXP	25	56	30	59	0.026	80
	12	CMLW12D26 P0 C ♦EXP	30	56	30	59	0.030	80
	15	CMLW15D26 P0 C ♦EXP	30	56	30	59	0.031	80
	16	CMLW16D26 P0 C ♦EXP	30	56	30	59	0.032	80
	17	CMLW17D26 P0 C ♦EXP	30	56	30	59	0.032	80
	20	CMLW20D26 P0 C ♦EXP	35	56	35	59	0.044	70
	25	CMLW25D26 P0 C ♦EXP	35	56	35	59	0.045	70
	30	CMLW30D26 P0 C ♦EXP	35	74	35	78	0.057	70
	35	CMLW35D26 P0 C ♦EXP	35	74	35	78	0.058	70
	40	CMLW40D26 P0 C ♦EXP	40	78	40	98	0.080	30
	45	CMLW45D26 P0 C ♦EXP	40	78	40	98	0.081	30
	50	CMLW50D26 P0 C ♦EXP	40	78	40	98	0.082	30
	55	CMLW55D26 P0 C ♦EXP	40	78	40	98	0.083	30
	60	CMLW60D26 P0 C ♦EXP	45	74	40	98	0.100	30
	70	CMLW70D26 P0 C ♦EXP	45	94	45	94	0.101	30

CMLW Metallized Polypropylene Motor Run Capacitors

Tabela de Seleção

CMLW Line								
Voltage (V)	Capacitance (µF)	Description	Case dimensions without bolt		Case dimensions without bolt		Approximate weight (kg)	Multiple supply quantity
			D (mm)	H (mm)	D (mm)	H (mm)		
400	2	CMLW2D34 P0 C ♦EXP	25	56	30	59	0.022	30
	3	CMLW3D34 P0 C ♦EXP	25	56	30	59	0.022	80
	4	CMLW4D34 P0 C ♦EXP	25	56	30	59	0.023	80
	5	CMLW5D34 P0 C ♦EXP	25	56	30	59	0.024	80
	6	CMLW6D34 P0 C ♦EXP	30	56	30	59	0.033	80
	7	CMLW7D34 P0 C ♦EXP	30	56	30	59	0.033	80
	8	CMLW8D34 P0 C ♦EXP	30	56	30	59	0.034	80
	9	CMLW9D34 P0 C ♦EXP	30	56	30	59	0.034	80
	10	CMLW10D34 P0 C ♦EXP	35	56	35	59	0.047	70
	12	CMLW12D34 P0 C ♦EXP	35	56	35	59	0.047	70
	15	CMLW15D34 P0 C ♦EXP	35	56	35	59	0.048	70
	16	CMLW16D34 P0 C ♦EXP	35	74	35	78	0.057	70
	17	CMLW17D34 P0 C ♦EXP	35	74	35	78	0.058	70
	20	CMLW20D34 P0 C ♦EXP	35	74	35	78	0.059	70
	25	CMLW25D34 P0 C ♦EXP	40	78	40	98	0.081	30
	30	CMLW30D34 P0 C ♦EXP	40	78	40	98	0.082	30
	35	CMLW35D34 P0 C ♦EXP	45	74	40	98	0.100	30
	40	CMLW40D34 P0 C ♦EXP	45	74	40	98	0.101	30

Replace "♦" by the terminal code / fixing bolt.

Code	Description	Code	Description
TS	Single faston terminal	TS-P	Single faston terminal + bolt
TD	Double faston terminal	TD-P	Double faston terminal + bolt
TF200	Wire terminal 200 mm	TF200-P	Wire terminal 200 mm + screw

Notes: 1) Double faston terminal not available in case 25 x 56.
2) Other cable lengths on request.

CMRW-S Metallized Polypropylene Motor Run Capacitors

Application

- Single-phase motors in general, such as automatic washing machines, refrigerators, air conditioners, pumps etc.

Reference Standards

- IEC 60252-1
- UL 810

Characteristics

- Life expectancy of 3,000 hours
- Class of safety protection P2
- Self-healing capacitor
- Compliance with RoHS requirements
- For application in continuous and intermittent operation

Safety

- Capacitor with segmented film: it indicates that the capacitor was designed to fail in the open circuit mode, being protected against fire and electric shocks
- Self-healing characteristics: after a dielectric breakdown, the electrical properties of the capacitor are quickly and essentially restored to the state before the fault
- The case uses material with flammability V2

Technical Data

Technical data	CMRW-S
Capacitance range	2...50 µF
Tolerance	±5%
Rated voltage	250...440 V ac
Class of operation	C - 3,000 hours
Class of safety protection	P2
Maximum voltage	1.1 x V_N
Maximum current	1.3 x I_N
Tangent of loss angle (60 Hz)	2 x 10^{-4}
Climatic category	25/85/21
Minimum operating temperature	-25 °C
Maximum operating temperature	+85 °C
Minimum storage temperature	-40 °C
Maximum storage temperature	+90 °C
Maximum altitude	2,000 m
Dielectric	Polypropylene
Case material	PP V2
Filling material	Solid polyurethane resin (no PCB)
Degree of protection	IP00
Terminals	Single faston terminal (6.3 x 0.8 mm) Double faston terminal (6.3 x 0.8 mm) Wire terminal 0.5 mm²
Reference standards	IEC 60252-1 / UL 810
Certifications	c UL us CE
RoHS compliance	RoHS
Optional items	
Capacitor fixing	M8 x 10 mm
Maximum torque for capacitor fixing	5 Nm

Note: wire terminal capacitors with UL certification on request.

CMRW-S Metallized Polypropylene Motor Run Capacitors

Selection Table

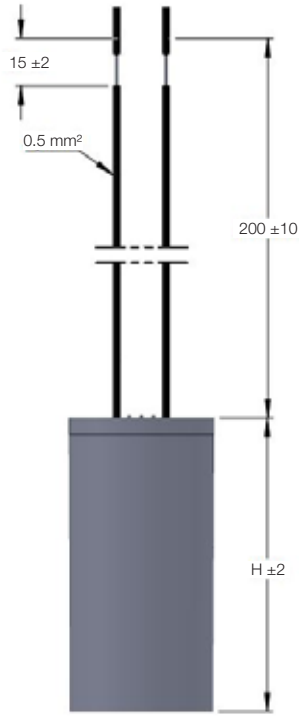
Linha CMRW-S								
Voltage (V)	Capacitance (µF)	Description	Case dimensions without bolt		Case dimensions without bolt		Approximate weight (kg)	Multiple supply quantity
			D (mm)	H (mm)	D (mm)	H (mm)		
250	35	CMRW-S35D26 P2 C ♦	40	78	40	98	0.108	30
	45	CMRW-S45D26 P2 C ♦	30	78	40	98	0.110	30
	50	CMRW-S50D26 P2 C ♦	40	78	40	98	0.110	30
380	6	CMRW-S6D33 P2 C ♦	40	94	40	98	0.130	30
	8	CMRW-S8D33 P2 C ♦	35	74	35	78	0.079	70
	12.5	CMRW-S12,5D33 P2 C ♦	35	74	35	78	0.083	70
	15	CMRW-S15D33 P2 C ♦	40	78	40	98	0.104	30
440	3	CMRW-S3D36 P2 C ♦	40	78	40	98	0.107	30
	4	CMRW-S4D36 P2 C ♦	30	56	30	59	0.049	80

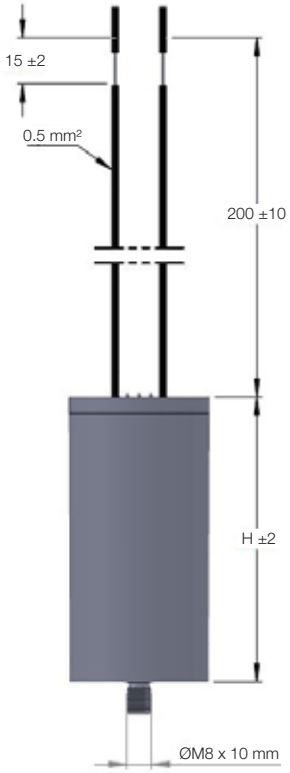
Replace "♦" by the terminal code / fixing bolt.

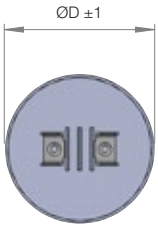
Code	Description	Code	Description
TS	Single faston terminal	TS-P	Single faston terminal + bolt
TD	Double faston terminal	TD-P	Double faston terminal + bolt
TF200	Wire terminal 200 mm	TF200-P	Wire terminal 200 mm + screw

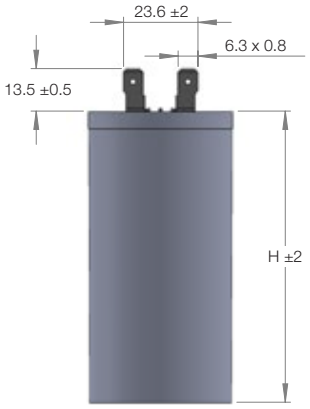
Notes: 1) Double faston terminal not available in case 25 x 56.
2) Other cable lengths on request.
3) Wire terminal capacitor with UL certification on request.
4) Other capacitances, voltages and classes of operation on request.

Dimension Drawings of the CMRW, CMLW and CMRW-S Lines









CMRW-M Metallized Polypropylene Motor Run Capacitors

Application

- Single-phase motors in general, such as air conditioners, fans, compressors, mills, treadmills etc.

Reference Standards

- EIA-456
- UL 810
- IEC 60252-1

Characteristics

- Overpressure disconnection AFC 10 kA
- Life expectancy of 10,000 hours
- Class of safety protection S2
- Self-healing capacitor
- Low losses (W/kvar)
- Compliance with RoHS requirements
- For application in continuous or intermittent operation

Safety

- Self-healing characteristics: after a dielectric breakdown, the electrical properties of the capacitor are quickly and essentially restored to the state before the fault
- Safety system: the internal overpressure caused by the regeneration of the polypropylene film will force the capacitor walls. Such force will act on the cover, causing it to expand and disconnecting the capacitive element of the power supply. This mechanism provides protection against overpressure.
- Keep a free space of at least 20 mm above the terminals so as to ensure the capacitor expansion
- Plastic parts of the cover with flammability V0

Technical Data

Technical data	CMRW-M
Capacitance range	400 V: 5 µF…65 µF 440 V: 5 µF…50 µF 480 V: 5 µF…50 µF
Tolerance	±5%
Rated voltage	400...480 V ac
Class of operation	B - 10,000 hours
Class of safety protection	S2
Maximum voltage	1.1 x U_N
Maximum current	1.3 x I_N
Tangent of loss angle (60 Hz)	2 x 10^{-4}
Climatic category	40/70/21
Minimum operating temperature	-40 °C
Maximum operating temperature	+70 °C
Minimum storage temperature	-40 °C
Maximum storage temperature	+90 °C
Maximum altitude	2,000 m
Dielectric	Polypropylene
Case material	Aluminum
Cover material	Tinned steel
Filling material	Flexible polyurethane resin (no PCB)
Degree of protection	IP00
Overvoltage category	2
Pollution degree	3
Rated impulse-withstand voltage	4,0 kV
Terminals	Quadruple faston terminal (6.3 x 0.8 mm)
Reference standards	EIA-456 / UL 810 / IEC 60252-1
Certifications	c UL us CE
RoHS compliance	RoHS

Note: accessories on request.

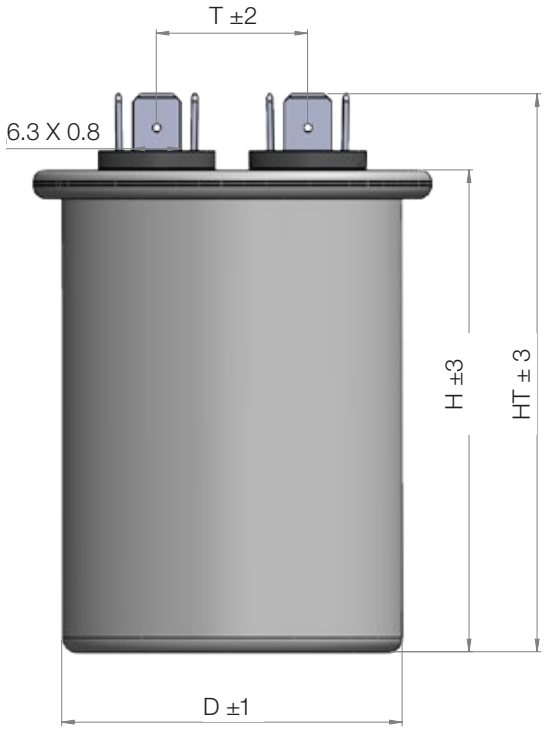
CMRW-M Metallized Polypropylene Motor Run Capacitors

Selection Table

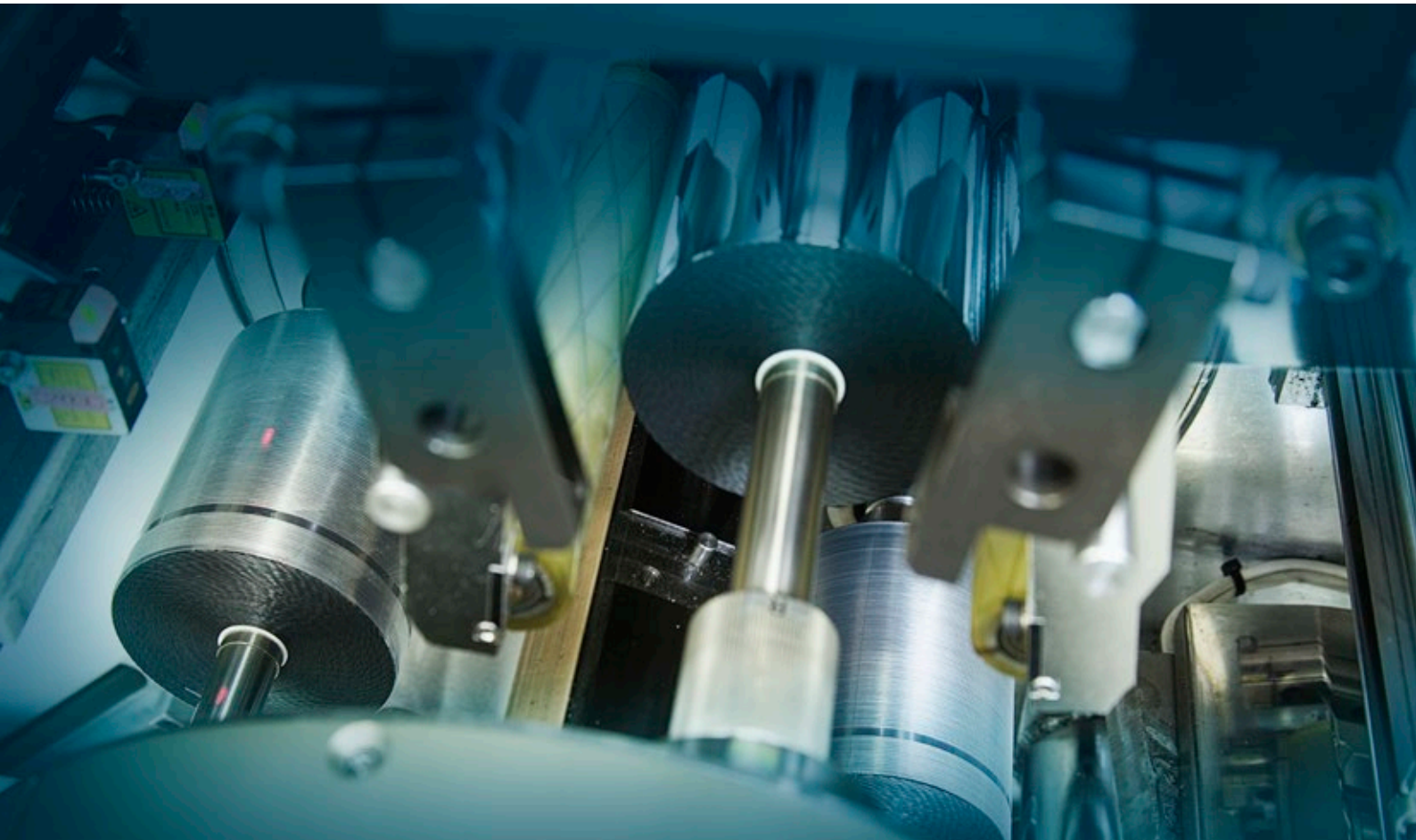
CMRW-M Line						
Voltage (V)	Capacitance (µF)	Description	Case dimension		Approximate weight (kg)	Multiple supply quantity
			D (mm)	H (mm)		
400	5	CMRW-M5D34 S2 B TQEXP	40	63	0.096	40
	7.5	CMRW-M7,5D34 S2 B TQEXP	40	63	0.096	40
	10	CMRW-M10D34 S2 B TQEXP	40	63	0.096	40
	12.5	CMRW-M12,5D34 S2 B TQEXP	40	63	0.096	40
	15	CMRW-M15D34 S2 B TQEXP	45	63	0.122	35
	20	CMRW-M20D34 S2 B TQEXP	45	63	0.122	35
	25	CMRW-M25D34 S2 B TQEXP	50	63	0.140	24
	27.5	CMRW-M27,5D34 S2 B TQEXP	50	80	0.175	30
	30	CMRW-M30D34 S2 B TQEXP	50	80	0.175	30
	35	CMRW-M35D34 S2 B TQEXP	50	80	0.175	30
	40	CMRW-M40D34 S2 B TQEXP	55	80	0.210	20
	45	CMRW-M45D34 S2 B TQEXP	50	100	0.218	30
	50	CMRW-M50D34 S2 B TQEXP	50	100	0.218	30
	55	CMRW-M55D34 S2 B TQEXP	55	100	0.258	20
	60	CMRW-M60D34 S2 B TQEXP	55	100	0.258	20
	65	CMRW-M65D34 S2 B TQEXP	55	100	0.258	20
440	5	CMRW-M5D36 S2 B TQEXP	40	63	0.096	40
	7.5	CMRW-M7,5D36 S2 B TQEXP	40	63	0.096	40
	10	CMRW-M10D36 S2 B TQEXP	40	63	0.096	40
	12.5	CMRW-M12,5D36 S2 B TQEXP	45	63	0.122	35
	15	CMRW-M15D36 S2 B TQEXP	50	63	0.140	24
	20	CMRW-M20D36 S2 B TQEXP	50	80	0.175	30
	25	CMRW-M25D36 S2 B TQEXP	50	80	0.175	30
	27.5	CMRW-M27,5D36 S2 B TQEXP	50	80	0.175	30
	30	CMRW-M30D36 S2 B TQEXP	55	80	0.210	20
	35	CMRW-M35D36 S2 B TQEXP	50	100	0.218	30
	40	CMRW-M40D36 S2 B TQEXP	50	100	0.218	30
	45	CMRW-M45D36 S2 B TQEXP	55	100	0.258	20
	50	CMRW-M50D36 S2 B TQEXP	63.5	100	0.343	20
480	5	CMRW-M5D39 S2 B TQEXP	40	63	0.096	40
	7.5	CMRW-M7,5D39 S2 B TQEXP	40	63	0.096	40
	10	CMRW-M10D39 S2 B TQEXP	45	63	0.122	35
	12.5	CMRW-M12,5D39 S2 B TQEXP	50	63	0.140	24
	15	CMRW-M15D39 S2 B TQEXP	50	80	0.175	30
	20	CMRW-M20D39 S2 B TQEXP	50	80	0.175	30
	25	CMRW-M25D39 S2 B TQEXP	55	80	0.210	20
	27.5	CMRW-M27,5D39 S2 B TQEXP	50	100	0.218	30
	30	CMRW-M30D39 S2 B TQEXP	55	100	0.258	20
	35	CMRW-M35D39 S2 B TQEXP	55	100	0.258	20
	40	CMRW-M40D39 S2 B TQEXP	63.5	100	0.343	20
	45	CMRW-M45D39 S2 B TQEXP	63.5	100	0.343	20
	50	CMRW-M50D39 S2 B TQEXP	63.5	100	0.343	20

CMRW-M Metallized Polypropylene Motor Run Capacitors

Dimension Drawing



	D (mm)				
	40	45	50	55	63.5
HT (mm)	H+12	H+12	H+12	H+12	H+12
T (mm)	16	18	20	20	20



UCW-M Metallized Polypropylene Motor Run Capacitors

Application

- Single-phase motors in general, such as compressors, air conditioners, pumps etc.

Reference Standards

- IEC 60252-1
- UL 810

Characteristics

- Class of safety protection P2
- Overpressure disconnection AFC 10 kA
- Self-healing capacitor
- Low losses (W/kvar)
- Life expectancy of 10,000 hours
- Highly flexible design
- Compliance with RoHS requirements

Safety

- Self-healing characteristics: after a dielectric breakdown, the electrical properties of the capacitor are quickly and essentially restored to the state before the fault.
- Safety system: the internal pressure caused by the film regeneration will force the capacitor walls. Such force will act on the expandable grooves, causing the interruption of the mechanical fuse and, consequently, of the power supply to the capacitive element.
- Keep a free space of at least 20 mm above the terminals so as to ensure the capacitor expansion.

Dados Técnicos

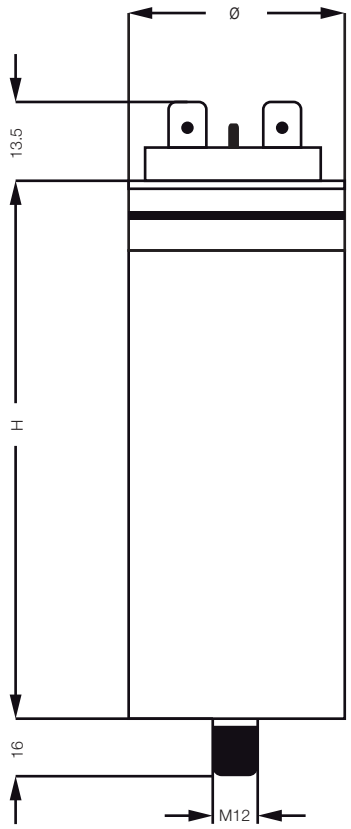
Technical data	UCW-M
Capacitance range	250 V: 2...85 µF 400 V: 2...65 µF 440 V: 2...42 µF 480 V: 2...32 µF 525 V: 2...20 µF
Tolerance	±5%
Rated voltage	250...525 V ac
Class of operation	B - 10,000 hours
Class of safety protection	P2
Maximum voltage	1.1 x V_N
Maximum current	1.3 x I_N
Tangent of loss angle (60 Hz)	2 x 10^{-4}
Climatic category	25/85/21
Minimum operating temperature	-25 °C
Maximum operating temperature	+85 °C
Minimum storage temperature	-40 °C
Maximum storage temperature	+90 °C
Maximum altitude	2,000 m
Dielectric	Polypropylene
Case material	Aluminum
Cover material	PA66
Filling material	Flexible polyurethane resin (no PCB)
Terminals	Single faston terminal (6.3 x 0.8 mm) + M3 Phillips Double faston terminal (6.3 x 0.8 mm)
Certifications	c UL us

UCW-M Metallized Polypropylene Motor Run Capacitors

Available Range: Maximum Capacitance per Size

Diameter (mm)	Height (mm)	250 V	400 V	440 V	480 V	525 V	Bolt (optional)	Multiple supply quantity
40	68	20 µF	15 µF	10 µF	8 µF	5 µF	M8 x 10 mm	9
	85	30 µF	22 µF	16 µF	12 µF	7 µF		9
53	68	40 µF	30 µF	20 µF	15 µF	9 µF	M12 x 16 mm	9
	85	60 µF	45 µF	32 µF	24 µF	15 µF		9
60	68	55 µF	40 µF	28 µF	20 µF	12 µF		9
	85	85 µF	65 µF	42 µF	32 µF	20 µF		9

Note: The UCW-M capacitors are designed according to the needs of each customer. Other capacitances, voltages and dimensions on request.



Selection Code

CMRW 15 D26 P0 B TF200 P EXP

Model

Line
CMRW
CMLW
CMRW-S
UCW-M
CMRW-M

Capacitance (µF)

Application Voltage

Code	Voltage
D26	250 V - 50/60 Hz
D33	380 V - 50/60 Hz
D34	400 V - 50/60 Hz
D36	440 V - 50/60 Hz
D39	480 V - 50/60 Hz
D42	525 V - 50/60 Hz

Class of Safety Protection

Code	Voltage
P0	Not protected
P2	Protected
S2	Protected

Opcionais

Code	Optional
P	Bolt

Terminal

Code	Terminal type
TF200	Wire 200 mm
TS	Single faston
TD	Double faston
TQ	Quadruple faston

Classe de Operação

Code	Classe
B	10,000 hours
C	3,000 hours

Notes

Notes

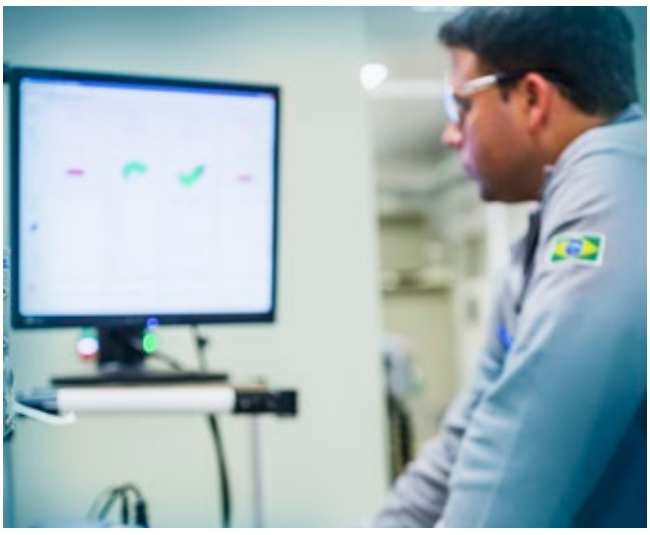
Global presence is essential, as much as understanding your needs.

Global Presence

With more than 30,000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

WEG's know-how guarantees our ***CMRW, CMLW, CMRW-S, CMRW-M and UCW-M Motor Run Capacitors*** is the right choice for your application and business, assuring safety, efficiency and reliability.

- ***Availability*** is to have a global support network
- ***Partnership*** is to create solutions that suit your needs
- ***Competitive edge*** is to unite technology and innovation



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AUTOMATION

+55 47 3276.4000

automacao@weg.net

Jaraguá do Sul - SC - Brazil

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