

## CWM Contactors - Spare Parts

### Individual Spare Coils

Illustrative picture	Description	For use with	Reference code to complete with voltage code	Weight kg
	AC coil	CWM9...25	BCA4-25♦	0.065
		CWM32...40	BCA4-40♦	0.110
		CWM50...105	BCA-105♦	0.140
		CWM112	BCA-112♦	0.235
		CWM180	BCA-180♦	0.400
		CWM250	BCA-250♦	0.675
	DC coil	CWM40	BECC4-40♦	0.180
		CWM50...105	BECC-105♦	0.220
	Dual-voltage coils AC/DC (contactors with electronic module)	CWM112...150	BCE-150♦	1.0
		CWM180	BCE-215♦	
		CWM250...300	BCE-300♦	
		CWM400	BCE400♦ <sup>1)</sup>	
	CWM500...800	BCE800♦ <sup>1)</sup>		

### Electronic Module

Illustrative picture	Control type	For use with	Reference code	Weight kg
	AC/DC	CWM112...300	ME-300♦ <sup>3)</sup>	0.140

Replace “♦” with the Appropriate Coil Voltage Code<sup>2)</sup>

### Contactors CWM9...300

Coil voltage codes (CWM9...250)	D02	D07	D13	D24	D25	D34	D35
50/60 Hz	24 V	48 V	110 V	230 V	240 V	400 V	415 V

Coil voltage codes (CWM40...105)	C34	C37	C40	C44
V dc	24-28 V	42-50 V	110-130 V	208-240 V

Coil voltage codes (CWM112...300)	E02	E06	E07	E10	E13	E16	E21
50/60 Hz / DC <sup>4)</sup>	24-28 V	42-50 V	60-72 V	110-130 V	208-250 V	360-415 V	430-500 V

### Contactors CWM400...800

Coil voltage codes (CWM400)	E36	D80	D81	D82
50/60 Hz / DC <sup>4)</sup>	100-240 V ac / 100-220 V dc	-	-	-
50/60 Hz <sup>4)</sup>	-	265-347 V	380-450 V	440-575 V

Coil voltage codes (CWM500...800)	E35	E39	D80	D81	D82
50/60 Hz / DC <sup>4)</sup>	100-127 V ac / 100-110 V dc	200-240 V ac / 200-220 V dc	-	-	-
50/60 Hz <sup>4)</sup>	-	-	265-347 V	380-450 V	440-575 V

Notes: 1) Integrated coil with electronic module.

2) Other voltages on request.

3) The coil voltage code must be the same of BCE coil voltage code selected.

4) Surge suppressor is already integrated.

# CWM Contactors - Technical Data

## General Data

Reference code	CWM9	CWM12	CWM18	CWM25	CWM32	CWM40	CWM50	CWM65	CWM80	CWM95	CWM105	CWM112	CWM150	CWM180	CWM250	CWM300
Standards	IEC 60947 / UL 508															
Rated insulation voltage $U_i$ IEC 60947 UL / CSA	1,000 V 600 V															
Rated impulse withstand voltage $U_{imp}$	6 kV								8 kV							
Rated operational frequency	25 - 400 Hz															
Degree of protection	Protection against direct contact from the front when operated by a perpendicular test finger (IEC 536)															
Main circuits	IP20				IP10								IP00			
Control circuits and auxiliary contacts	IP20															
Ambient temperature																
Operating temperature	-25 °C to +55 °C															
Storage temperature	-55 °C to +80 °C															
Altitude																
Normal values	Up to 3,000 m															
90% $I_e$ / 80% $U_e$	3,000 to 4,000 m															
80% $I_e$ / 75% $U_e$	4,000 to 5,000 m															
Overvoltage category / Pollution degree	III / 3															
Climatic proofing	Acc. IEC 60680-2															
Pole numbers of main circuits	3															
Rated operation voltage $U_e$	690 V								1,000 V							
Mechanical lifespan Ops x 10 <sup>6</sup>	10															
Electrical lifespan (AC - 3) Ops x 10 <sup>6</sup>	1.5				1.2				1.1				1.0			
Mounting	Screw or 35 mm DIN Rail												Screw			

## Control Circuit

Reference code	CWM9	CWM12	CWM18	CWM25	CWM32	CWM40	CWM50	CWM65	CWM80	CWM95	CWM105	CWM112	CWM150	CWM180	CWM250	CWM300				
Rated insulation voltage $U_i$	IEC 1,000 V																			
	UL, CSA 600 V																			
Rated voltages (standard coil) Us 50/60 Hz	12...660 V								12...550 V		-		24...690		-					
Rated voltages (electronic module) Us 50/60 Hz	-																			
Rated voltages Us dc	-				24...240 V								24...500 V							
Operation time <sup>1)</sup>	Closing/Opening (AC) ms		8...20 / 6...13				10...19 / 5...25				15...30 / 9...15				60...70 / 13...17					
	Closing/Opening (DC) ms		-				50...60 / 55...60				60...70 / 13...17				60...70 / 15...25					
Power consumption of the AC coil 50/60 Hz <sup>1)</sup>																				
Pick-up	(VA)		69.5				98				255				590		759		1,104	
	cos φ		0.85				0.69				0.32				0.43		0.14		0.16	
Sealing	(VA)		4...7.2				6.6...12.3				13.1...19.1				28...41		37...52		70...105	
	cos φ		0.28				0.34				0.54				0.31		0.39		0.36	
Coil operation limits 50/60 Hz <sup>1)</sup>																				
Bifrequency coils <sup>1)</sup>	Pick-up		0.5...0.8				0.5...0.8				0.5...0.8				0.7...0.85		0.7...0.85		0.7...0.85	
	Sealing		0.2...0.6				0.2...0.6				0.25...0.6				0.4...0.6		0.4...0.6		0.4...0.6	
Power consumption of the coil - DC coils																				
Pick-up	(W)		-				240				340				403		529		644	
Sealing	(W)		-				6				6.5				11		14.3		24.2	
Number of terminals	AC coil		4				4				3				2					
	DC coil		-				4				3				2					

Note: 1) Values applicable for contactors CWM112...300 with electronic module. For contactors with standard coil only on request.