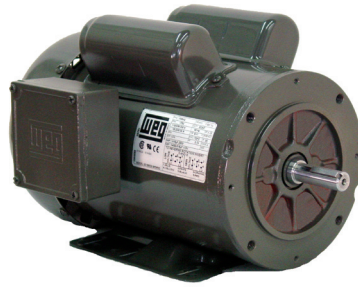


SINGLE PHASE - C-FACE

These motors have a wide range of applications. Because of their high starting torque, they are particularly well-suited for heavy starting loads. They are fitted with a C-Face as well as mounting feet for flexible mounting situations.



TEFC



ODP

APPLICATIONS

- Pumps
- Air Conditioning equipment
- Farm Equipment
- Conveyors
- Business machines
- Gear reducers
- Compressors
- Tools
- Fans and blowers
- Packaging equipment

OPTIONAL FEATURES

- Class 'F' insulation
- Flange mount
- Special voltages
- Specially dimensioned shaft
- Second shaft end
- Stainless steel shaft
- Footless
- Other mounting configurations
- Manual or Automatic thermal overload protection
- FC-95 flange

STANDARD FEATURES

- Single-phase, 2, 4 or 6 pole, 60Hz
- Voltage: 115/208-230V
- Squirrel cage rotor
- Start capacitor
- NEMA dimensions
- Class 'B' insulation (130°C)
- High starting torque
- Ball Bearings
- Open drip proof (ODP - IP21)
- Totally enclosed fan cooled (TEFC - IP55)
- Color: RAL 7022 (Dark Gray)
- Continuous Duty (S1), 40°C ambient
- V-ring slingers on both endshields (for TEFC only)
- Designed to operate in any position (for TEFC only)
- FC-149 flange





C-FACE – RIGID BASE

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym	Approx. Shipping Weight Lbs.	Service Factor	FL Amps 230V	“C” Dimension	Voltage	Notes
1/8	3600	48C	.12360S1BB48C	226	F1B	17	1.40	1.60	9.409	115/208-230V	
	1800	48C	.12180S1BB48C	222	F1B	17	1.40	1.60	9.409	115/208-230V	
1/6	3600	48C	.16360S1BB48C	237	F1B	17	1.35	1.60	9.409	115/208-230V	
	1800	48C	.16180S1BB48C	231	F1B	17	1.35	1.90	9.409	115/208-230V	
	1800	48C	.16180S1BSPB48C	247	F1B	19	1.35	1.90	9.409	115/208-230V	⊕
1/4	3600	48C	.25360S1BB48C	241	F1B	19	1.35	1.90	9.409	115/208-230V	
	3600	56C	.25360S1B56C	241	F1B	19	1.35	1.90	9.764	115/208-230V	
	1800	48C	.25180S1BB48C	233	F1B	19	1.35	2.40	9.409	115/208-230V	
	1800	48C	.25180S1BSPB48C	263	F1B	20	1.35	2.40	9.409	115/208-230V	⊕
1/3	1800	56C	.25180S1B56C	233	F1B	19	1.35	2.40	9.764	115/208-230V	
	3600	48C	.33360S1BC48C	244	F1B	22	1.35	2.60	10.197	115/208-230V	
	3600	56C	.33360S1BC56C	244	F1B	22	1.35	2.60	10.551	115/208-230V	
	1800	48C	.33180S1BC48C	258	F1B	22	1.35	3.00	10.197	115/208-230V	
1/2	1800	48C	.33180S1BSPC48C	282	F1B	22	1.35	3.00	10.197	115/208-230V	⊕
	1800	56C	.33180S1BC56C	258	F1B	22	1.35	3.00	10.551	115/208-230V	
	3600	48C	.50360S1BC48C	258	F1B	24	1.25	3.40	10.197	115/208-230V	
	3600	56C	.50360S1BC56C	266	F1B	24	1.25	3.40	10.551	115/208-230V	
	1800	48C	.50180S1BC48C	296	F1B	24	1.25	3.90	10.197	115/208-230V	
3/4	1800	48C	.50180S1BSPC48C	300	F1B	24	1.25	3.90	10.197	115/208-230V	⊕
	1800	56C	.50180S1BC56C	286	F1B	24	1.25	3.90	10.551	115/208-230V	
	3600	56C	.75360S1BB56C	297	F1B	32	1.25	5.50	11.102	115/208-230V	
	1800	56C	.75180S1BD56C	349	F1B	36	1.25	5.50	12.283	115/208-230V	
1	3600	56C	001360S1BD56C	317	F1B	36	1.25	7.00	12.283	115/208-230V	
	1800	56C	001180S1BD56C	378	F1B	39	1.15	7.00	12.283	115/208-230V	
1 1/2	3600	56C	001560S1BD56C	355	F1B	40	1.15	9.00	12.283	115/208-230V	
	1800	56HC	001580S1BF56C	461	F1B	51	1.15	10.5	13.464	115/208-230V	
2	3600	56HC	002360S1BF56C	432	F1B	48	1.15	11.0	13.464	115/208-230V	
	1800	56HC	002180S1BG56C	544	F1B	55	1.00	13.0	13.858	115/208-230V	
3	3600	56HC	003360S1BG56C	496	F1B	53	1.15	15.0	13.858	230V	

- ELECTRICAL FEATURES ON PAGE B-2.
- MECHANICAL FEATURES ON PAGE B-45.



C-FACE – FOOTLESS

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym	Approx. Shipping Weight Lbs.	Service Factor	FL Amps 230V	“C” Dimension	Voltage	Notes
1/3	3600	56C	.33360S1BC56CFL	244	F1B	22	1.35	2.60	10.551	115/208-230V	
	1800	56C	.33180S1BC56CFL	258	F1B	22	1.35	3.00	10.551	115/208-230V	
1/2	3600	56C	.50360S1BC56CFL	266	F1B	24	1.25	3.40	10.551	115/208-230V	
	1800	56C	.50180S1BC56CFL	286	F1B	24	1.25	3.90	10.551	115/208-230V	
3/4	3600	56C	.75360S1BB56CFL	297	F1B	32	1.25	5.50	11.102	115/208-230V	
	1800	56C	.75180S1BD56CFL	349	F1B	36	1.25	5.50	12.283	115/208-230V	
1	3600	56C	001360S1BD56CFL	317	F1B	36	1.25	7.00	12.283	115/208-230V	
	1800	56C	001180S1BD56CFL	378	F1B	39	1.15	7.00	12.283	115/208-230V	
1 1/2	3600	56C	001560S1BD56CFL	355	F1B	40	1.15	9.00	12.283	115/208-230V	
	1800	56C	001580S1BF56CFL	461	F1B	51	1.15	10.5	13.464	115/208-230V	
2	3600	56C	002360S1BF56CFL	432	F1B	48	1.15	11.5	13.464	115/208-230V	
	1800	56C	002180S1BG56CFL	544	F1B	55	1.00	13.0	13.858	115/208-230V	
3	3600	56C	003360S1BG56CFL	496	F1B	53	1.15	15.0	13.858	208-230V	

- ELECTRICAL FEATURES ON PAGE B-2.
- MECHANICAL FEATURES ON PAGE B-45.

⊕ = Split-Phase Motor

FRACTIONAL HP – GENERAL PURPOSE MOTORS

TEFC – NEMA 56 FRAMES – SINGLE-PHASE MOTORS



FRACTIONAL HP



C-FACE – RIGID BASE

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym	Approx. Shipping Weight Lbs.	Service Factor	FL Amps 230V	“C” Dimension	Voltage	Notes
1/4	3600	56C	.2536ES1BB56C	280	F1	31	1.15	2.50	11.496	115/208-230V	
	1800	56C	.2518ES1BB56C	288	F1	33	1.15	2.30	11.496	115/208-230V	
1/3	3600	56C	.3336ES1BB56C	288	F1	36	1.15	2.80	11.496	115/208-230V	
	1800	56C	.3318ES1BB56C	304	F1	36	1.15	3.00	11.496	115/208-230V	
1/2	3600	56C	.5036ES1BB56C	313	F1	40	1.15	3.80	11.496	115/208-230V	
	1800	56C	.5018ES1BB56C	333	F1	41	1.15	3.85	11.496	115/208-230V	
	1200	56C	.5012ES1BD56C	535	F1	44	1.15	4.90	11.496	115/208-230V	
3/4	3600	56C	.7536ES1BB56C	353	F1	41	1.15	5.30	11.496	115/208-230V	
	1800	56C	.7518ES1BB56C	370	F1	46	1.15	5.60	11.496	115/208-230V	
	1200	56HC	.7512ES1BF56C	669	F1	56	1.15	5.20	13.858	115/208-230V	
1	3600	56C	00136ES1BD56C	378	F1	46	1.15	6.30	12.677	115/208-230V	
	1800	56C	00118ES1BD56C	424	F1	52	1.15	7.00	12.677	115/208-230V	
1 1/2	3600	56C	00156ES1BD56C	454	F1	56	1.15	8.50	12.677	115/208-230V	
	1800	56HC	00158ES1BF56C	478	F1	58	1.15	9.00	13.858	115/208-230V	
2	3600	56HC	00236ES1BF56C	537	F1	65	1.15	10.5	13.858	115/208-230V	

- ELECTRICAL FEATURES ON PAGE B-2.
- MECHANICAL FEATURES ON PAGE B-46.



C-FACE – FOOTLESS

HP	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym	Approx. Shipping Weight Lbs.	Service Factor	FL Amps 230V	“C” Dimension	Voltage	Notes
1/3	3600	56C	.3336ES1BB56CFL	288	F1	36	1.15	2.80	11.496	115/208-230V	
	1800	56C	.3318ES1BB56CFL	304	F1	36	1.15	3.00	11.496	115/208-230V	
1/2	3600	56C	.5036ES1BB56CFL	313	F1	40	1.15	3.80	11.496	115/208-230V	
	1800	56C	.5018ES1BB56CFL	333	F1	41	1.15	3.85	11.496	115/208-230V	
	1200	56C	.5012ES1BD56CFL	535	F1	44	1.15	4.90	12.677	115/208-230V	
3/4	3600	56C	.7536ES1BB56CFL	353	F1	41	1.15	5.30	11.496	115/208-230V	
	1800	56C	.7518ES1BB56CFL	370	F1	46	1.15	5.60	11.496	115/208-230V	
	1200	56C	.7512ES1BF56CFL	669	F1	56	1.15	5.20	13.858	115/208-230V	
1	3600	56C	00136ES1BD56CFL	378	F1	46	1.15	6.30	12.677	115/208-230V	
	1800	56C	00118ES1BD56CFL	424	F1	52	1.15	7.00	12.677	115/208-230V	
1 1/2	3600	56C	00156ES1BD56CFL	454	F1	56	1.15	8.50	12.677	115/208-230V	
	1800	56C	00158ES1BF56CFL	478	F1	58	1.15	9.00	13.858	115/208-230V	
2	3600	56C	00236ES1BF56CFL	537	F1	65	1.15	10.5	13.858	115/208-230V	

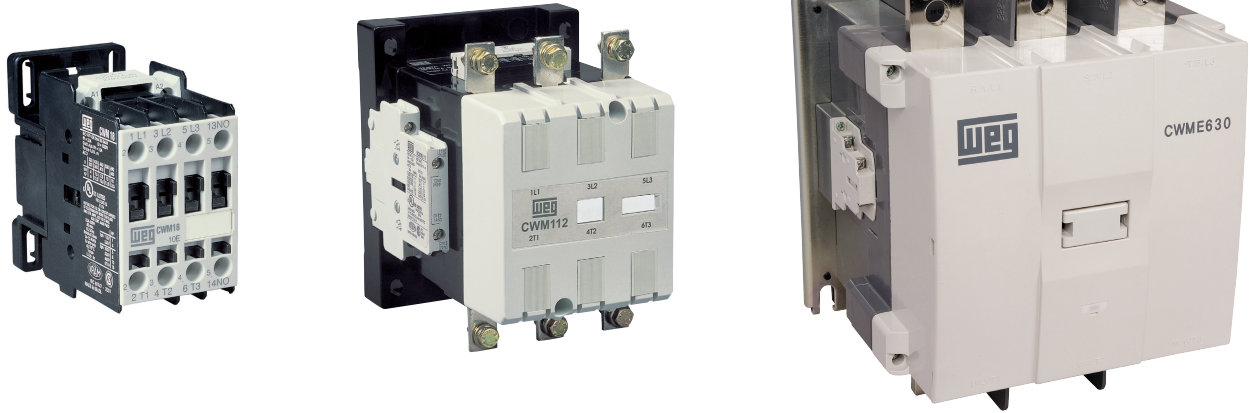
NOTE: These motors are fitted with a C-Face only for mounting. They are Round Body frames with no mounting feet.

- ELECTRICAL FEATURES ON PAGE B2.
- MECHANICAL FEATURES ON PAGE B-46.

Controls

Standard IEC Contactors

CWM1 / CWME
SERIES



Standard Features

- General purpose motor applications
- Fractional power through 600HP @ 460V
- Compact frame sizes
- Panel mountable or 35mm DIN rail up to 75HP @ 460V
- Built-in auxiliary contacts up to 10HP @ 460V
- Front and side mountable auxiliary contact blocks
- Finger-touch protection IP20
- Wide coil voltage selection AC or DC
- AC/DC coils with electronic modules available from 100HP and up
- Replaceable main contacts for entire line

Certifications

Conformity to Standards

- UL508
- CSA C22.2 No 14
- IEC60947-1; IEC60947-4-1

Applications

- Pumps
- Blowers
- Cranes
- Agitators
- Machine tools
- Pressing machines
- Cutting and sawing machines
- Material handling equipment
- Kneading and mixing machines
- By-pass / isolation
- Elevator

Approvals

- cULus Listed
- CE marked
- Bureau Veritas

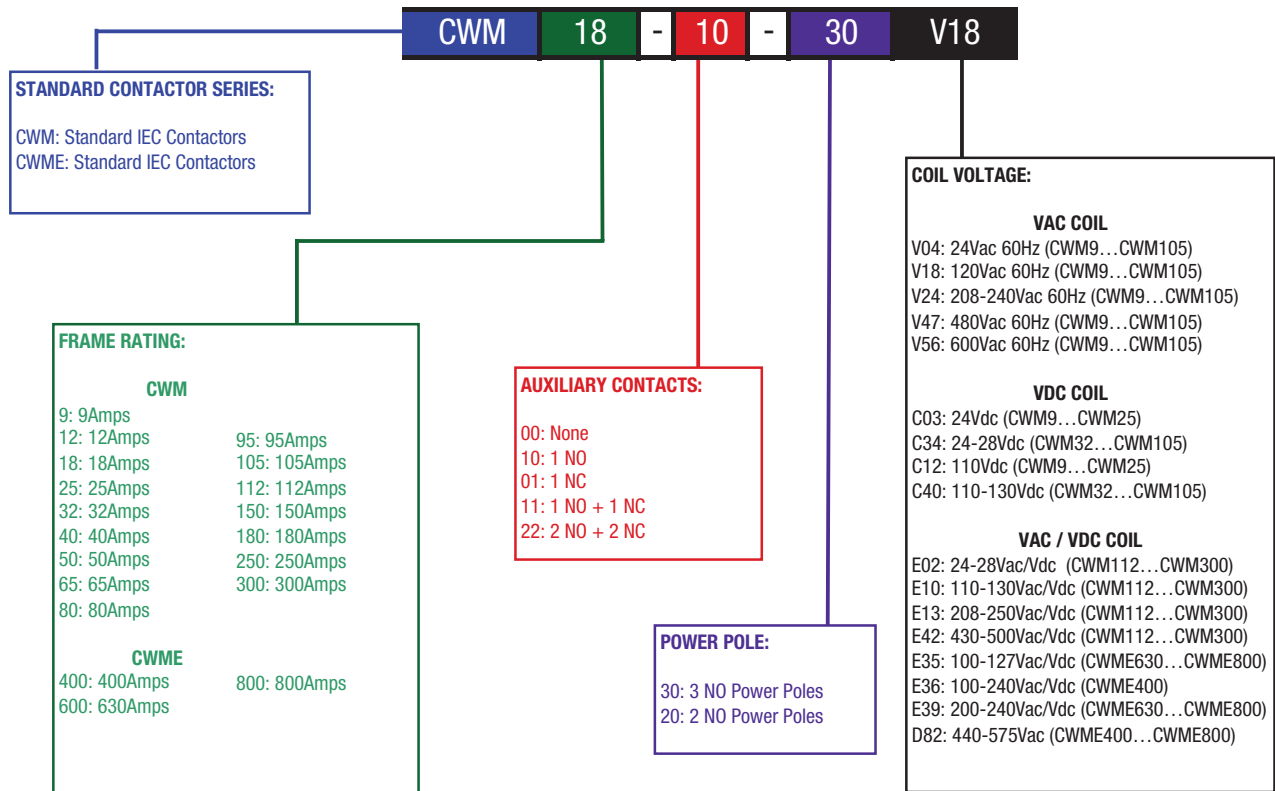
Certifications



Controls

Standard IEC Contactors - CWM & CWME Series

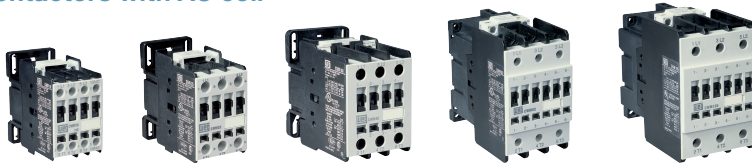
Catalog part number composition



Controls

IEC Contactors - CWM Series

3 pole contactors with AC coil

 CWM1 / CWM1E
SERIES


Maximum UL Horsepower						Auxiliary Contacts		Catalog Number	List Price	Multiplier Symbol
Single Phase		Three Phase				N.O.	N.C.			
115V	230V	200V	230V	460V	575V					
1/2	1 1/2	3	3	5	7 1/2	1	0	CWM9-10-30*	\$72	Z1
						0	1	CWM9-01-30*		
3/4	2	3	3	7 1/2	10	1	0	CWM12-10-30*	\$89	Z1
						0	1	CWM12-01-30*		
1	3	5	5	10	15	1	0	CWM18-10-30*	\$103	Z1
						0	1	CWM18-01-30*		
2	5	7 1/2	7 1/2	15	15	0	0	CWM25-00-30*	\$118	Z1
						1	1	CWM25-11-30*	\$138	Z1
3	5	10	10	20	25	0	0	CWM32-00-30*	\$140	Z1
						1	1	CWM32-11-30*	\$160	Z1
3	5	10	15	30	25	0	0	CWM40-00-30*	\$164	Z1
						1	1	CWM40-11-30*	\$184	Z1
3	7 1/2	15	15	40	40	0	0	CWM50-00-30*	\$190	Z1
						1	1	CWM50-11-30*	\$210	Z1
5	10	20	20	50	50	0	0	CWM65-00-30*	\$215	Z1
						1	1	CWM65-11-30*	\$235	Z1
7 1/2	15	20	25	50	60	0	0	CWM80-00-30*	\$261	Z1
						1	1	CWM80-11-30*	\$281	Z1
7 1/2	15	25	30	60	75	0	0	CWM95-00-30*	\$294	Z1
						1	1	CWM95-11-30*	\$314	Z1
10	20	30	40	75	75	0	0	CWM105-00-30*	\$393	Z1
						1	1	CWM105-11-30*	\$413	Z1

To complete the selection

- Replace "*" with desired coil voltage from Coil Voltage Code Table
- For different auxiliary contact configuration please refer to page B-36

* AC COIL VOLTAGE CODE SELECTION FOR CONTACTORS CWM9...CWM105							
60 Hz	24V ⁽¹⁾	48V ⁽¹⁾	120V	208-240V	277V ⁽¹⁾	480V	600V ⁽¹⁾
CODE	V04	V10	V18	V24	V37	V47	V56
50 Hz	-	42V	110V	-	230-240V	400-415V	500V

- Other coil voltages available upon request

Note:

1) Stock available only for contactor version ...-10-30... and ...-00-30.... Example CWM9-10-30V23 or CWM50-00-30V30



Controls

IEC Contactors - CWM Series



CWM / CWMIE SERIES

3 pole contactors with DC coil

Maximum UL Horsepower						Auxiliary Contacts		Catalog Number	List Price	Multiplier Symbol
Single Phase		Three Phase				N.O.	N.C.			
115V	230V	200V	230V	460V	575V					
1/2	1 1/2	3	3	5	7 1/2	1	0	CWM9-10-30+	\$93	Z1
						0	1	CWM9-01-30+		
3/4	2	3	3	7 1/2	10	1	0	CWM12-10-30+	\$111	Z1
						0	1	CWM12-01-30+		
1	3	5	5	10	15	1	0	CWM18-10-30+	\$125	Z1
						0	1	CWM18-01-30+		
2	5	7 1/2	7 1/2	15	15	0	0	CWM25-00-30+	\$141	Z1
3	5	10	10	20	25	0	0	CWM32-00-30+	\$180	Z1
3	5	10	15	30	25	0	0	CWM40-00-30+	\$230	Z1
3	7 1/2	15	15	40	40	0	0	CWM50-00-30+	\$255	Z1
5	10	20	20	50	50	0	0	CWM65-00-30+	\$280	Z1
7 1/2	15	20	25	50	60	0	0	CWM80-00-30+	\$335	Z1
7 1/2	15	25	30	60	75	0	0	CWM95-00-30+	\$360	Z1
10	20	30	40	75	75	0	0	CWM105-00-30+	\$470	Z1

To complete the selection

- Replace "+" with desired coil voltage from Coil Voltage Code Table
- For different auxiliary contact configuration please refer to page B-36

+ DC COIL VOLTAGE CODE SELECTION FOR CONTACTORS CWM9...105

FOR CONTACTORS CWM9...CWM25

Voltage	24V	110V
CODE	C03	C12

FOR CONTACTORS CWM32...CWM105

Voltage	24-28V	110-130V
CODE	C34	C40

Note: Other voltage available upon request.



Controls

IEC Contactors - CWM & CWME Series

CWM / CWME SERIES



3 pole contactors with AC/DC electronic module coil

Maximum UL Horsepower						Auxiliary Contacts		Catalog Number	List Price	Multiplier Symbol
Single Phase		Three Phase				N.O.	N.C.			
115V	230V	200V	230V	460V	575V					
-	-	40	50	100	100	2	2	CWM112-22-30#	\$765	Z1
-	-	50	60	125	150	2	2	CWM150-22-30#	\$945	Z1
-	-	60	75	150	200	2	2	CWM180-22-30#	\$1,260	Z1
-	-	75	100	200	250	2	2	CWM250-22-30#	\$1,755	Z1
-	-	100	125	250	300	2	2	CWM300-22-30#	\$1,890	Z1
-	-	125	150	300	300	2	2	CWME400-22 ^	\$2,520	Z1
-	-	150	200	400	400	2	2	CWME630-22 ^	\$3,870	Z1
-	-	200	300	600	600	2	2	CWME800-22 ^	\$5,670	Z1

To complete the selection

- Replace “#” or “^” with desired coil voltage from Coil Voltage Code Table
- For different auxiliary contact configuration please refer to page B-36

AC/DC COIL VOLTAGE CODE SELECTION FOR CONTACTORS CWM112, 150, 180, 250, 300

Voltage	24-28Vac/Vdc	110-130Vac/Vdc	208-250Vac/Vdc	430-500Vac/Vdc
CODE	E02	E10	E13	E21
Mounting on	CWM112-CWM300	CWM112-CWM300	CWM112-CWM300	CWM112-CWM300

^ AC/DC COIL VOLTAGE CODE SELECTION FOR CONTACTORS CWME400...800

Voltage	100-240Vac/100-220Vdc	100-127Vac/100-110Vdc	200-240Vac/200-220Vdc	440-575Vac
CODE	E36	E35	E39	D82
Mounting on	CWME400	CWME630-CWME800	CWME630-CWME800	CWME400-CWME800

Note: Other voltage available upon request.



Controls

IEC Contactors - CWM & CWME Series

2 pole contactors with AC coil¹

Maximum UL Horsepower		Auxiliary Contacts		Catalog Number	List Price	Multiplier Symbol
Single Phase		N.O.	N.C.			
115V	230V					
1/2	1 1/2	0	0	CWM9-00-20*	\$65	Z1
3/4	2	0	0	CWM12-00-20*	\$68	Z1
1	3	0	0	CWM18-00-20*	\$73	Z1
2	5	0	0	CWM25-00-20*	\$99	Z1
3	5	0	0	CWM32-00-20*	\$126	Z1
3	5	0	0	CWM40-00-20*	\$160	Z1
3	7 1/2	0	0	CWM50-00-20*	\$174	Z1
5	10	0	0	CWM65-00-20*	\$200	Z1
7 1/2	15	0	0	CWM80-00-20*	\$231	Z1
7 1/2	15	0	0	CWM95-00-20*	\$273	Z1
10	20	0	0	CWM105-00-20*	\$321	Z1

Note!: Availability upon request.

To complete the selection

- Replace "*" with desired coil voltage from Coil Voltage Code Table
- For different auxiliary contact configuration please refer to page B-36

FOR CONTACTORS CWM9...CWM105

* AC COIL VOLTAGE CODE SELECTION			
60 Hz	24V	120V	208-240V
CODE	V04	V18	V24
50 Hz	-	110V	-

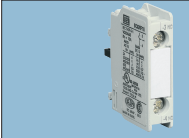



Controls

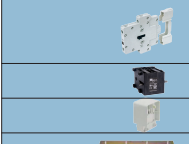
IEC Contactors - CWM & CWME Series

Accessories

CWM / CWME
SERIES


Auxiliary Contacts Block						
Location/Description	Contactor	Auxiliary Contacts		Catalog Number	List Price	Multiplier Symbol
		N.O.	N.C.			
	CWM9...105	1	0	BCXMF10	\$10	Z1
		0	1	BCXMF01	\$10	Z1
		1	0	BCXMF A10	\$13	Z1
		0	1	BCXMF R01	\$13	Z1
	CWM9...CWM300	1	1	BCXML11	\$22	Z1
		2	0	BCXML20	\$22	Z1
		1	1	BCXMRL11	\$22	Z1
		2	0	BCXMRL20	\$22	Z1
	CWME400...CWME800	1	1	BCXML11 CWME800	\$54	Z1
		1	1	BCXMRL11 CWME800	\$54	Z1

Maximum # of added auxiliary contacts per contactor frame size: CWM9...25 = 4 aux. contacts; CWM32...40 = 6 aux. contacts; CWM50...800E = 8 aux. contacts. Note that side mountable version has 2 aux. contacts per block.


Mechanical Interlock Block						
Location/Description	Contactor	Auxiliary Contacts		Catalog Number	List Price	Multiplier Symbol
		N.O.	N.C.			
	CWM9...105	0	0	BLIM 9-105	\$29	Z1
		0	2	BLIM.02 9-105	\$40	Z1
	CWM112...CWM300	0	0	BLIM 112-300	\$63	Z1
	CWME400	0	0	BLIM CWME400	\$63	Z1
Bottom mounted	CWME630...CWME800	0	0	BLIM CWME800	\$1,620	Z1

For CWM9...CWM105 the mechanical interlock can be used to interlock different frame sizes. For CWM112...CWM300, the mechanical interlock has to be used with contactors that have the same mechanical frame size.

For BLIM CWME800, a metal mounting base is provided with this accessory for an accurate assembling of the contactors.

Surge Suppressors						
Description	Contactor	Voltage Range	Catalog Number	List Price	Multiplier Symbol	
	CWM9...40	24...48Vac	BAMRC4 D53	\$20	Z1	
		50...127Vac	BAMRC5 D55	\$20	Z1	
		130...250Vac	BAMRC6 D63	\$20	Z1	
	Limits switching transients from contactor pick-up	CWM50...105	24...48Vac	BAMRC7 D53	\$20	Z1
			50...127Vac	BAMRC8 D55	\$20	Z1
			130...250Vac	BAMRC9 D63	\$20	Z1
	CWM9...105	270 - 380Vac	BAMV D68	\$20	Z1	
		400 - 510Vac	BAMV D73	\$20	Z1	

CWM112...300 and CWME400...E800 already have the surge suppressor built-in on the electronic module

Terminal Cover for CWM_E Contactor Series				
Location/Description	Mounting on Contactors	Catalog Number	List Price	Multiplier Symbol
	CWME400	BMP CWME400	\$60	Z1
	CWME630...CWME800	BMP CWME800	\$110	Z1

Controls

Pushbuttons and Pilot Lights - CSW Series (22mm)

Pushbuttons

Types

- F - Flush
- S - Extended
- C - Mushroom
- D - Double
- GA - Recessed
- FI - Illuminated Flush
- SI - Illuminated Extended
- CI - Illuminated Mushroom

MULTIPLIER SYMBOL FOR CSW SERIES - Z5

CSW-B

Color (see Color Code)

<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">FLUSH</p> <p>CSW-__</p> <ul style="list-style-type: none"> BF0 BF1 BF2 BF3 BF4 BF5  <p style="text-align: right; font-size: small;">LIST PRICE \$6.80</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">NON-ILLUMINATED² (Extended)</p> <p>CSW-__</p> <ul style="list-style-type: none"> BS1 BS2  <p style="text-align: right; font-size: small;">LIST PRICE \$9.00</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">MUSHROOM (40mm HEAD)</p> <p>CSW-__</p> <ul style="list-style-type: none"> BC1 BC2  <p style="text-align: right; font-size: small;">LIST PRICE \$11.00</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">RECESSED</p> <p>CSW-__</p> <ul style="list-style-type: none"> BGA0 BGA1 BGA2 BGA3 BGA4 BGA5  <p style="text-align: right; font-size: small;">LIST PRICE \$7.00</p>
<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">ILLUMINATED FLUSH</p> <p>CSW-__</p> <ul style="list-style-type: none"> BF10 BF11 BF12 BF13 BF14  <p style="text-align: right; font-size: small;">LIST PRICE \$11.20</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">ILLUMINATED EXTENDED</p> <p>CSW-__</p> <ul style="list-style-type: none"> BS10 BS11 BS12 BS13 BS14  <p style="text-align: right; font-size: small;">LIST PRICE \$11.00</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">ILLUMINATED MUSHROOM (40mm HEAD)</p> <p>CSW-__</p> <ul style="list-style-type: none"> BC10 BC11 BC12 BC13 BC14  <p style="text-align: right; font-size: small;">LIST PRICE \$13.00</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">DOUBLE¹</p> <p>CSW-BD</p>  <p style="text-align: right; font-size: small;">LIST PRICE \$15.30</p> <p style="text-align: right; font-size: x-small;">(IP40)⁽¹⁾</p>

Emergency-Stop Pushbuttons

Types

CSW-B E

- G - Twist release
- Y - Key release

Pilot Lights

CSW-S D

Color (see Color Code)

<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">E-STOP - TWIST RELEASE</p> <p>CSW-BEG</p>  <p style="text-align: right; font-size: small;">LIST PRICE \$16.10</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">E-STOP - KEY RELEASE</p> <p>CSW-BEY</p>  <p style="text-align: right; font-size: small;">LIST PRICE \$48.00</p>	<p style="text-align: center; background-color: #0070C0; color: white; padding: 2px;">PILOT LIGHTS</p> <p>CSW-__</p> <ul style="list-style-type: none"> SD0 SD1 SD2 SD3 SD4  <p style="text-align: right; font-size: small;">LIST PRICE \$9.40</p>
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COLOR CODE

Color	Clear/White	Red	Green	Yellow	Blue	Black
Code	0	1	2	3	4	5
Symbol						

(1) For increasing the degree of protection to IP66, use the protection cover APBD.
 (2) UL Pending.



PUSHBUTTONS

Controls

Pushbuttons and Pilot Lights - CSW Series (22mm)

Selector Switches

Types

- K - Knob
- A - Lever
- Y - Key
- KI - Illuminated Knob

CSW-C

No. of Positions
 2 - Two positions
 3 - Three positions

Color code for illuminated selectors switched (see Color Code)

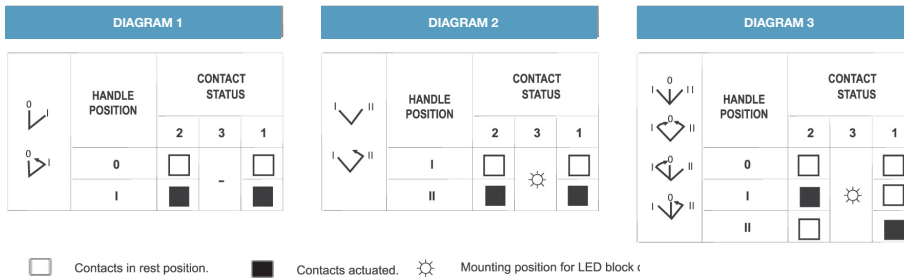
Angle
 45 - 45°
 90 - 90°

Handle
F - Maintained
R - Spring return
RE - Spring return from left
RD - Spring return from right

KNOB	LEVER	with KEY ⁽¹⁾	ILLUMINATED	POSITION	DIAGRAM
LIST PRICE Maintained \$15.00 Spring Return \$17.00	LIST PRICE Maintained \$16.00 Spring Return \$18.00	LIST PRICE Maintained \$46.00 Spring Return \$49.00	LIST PRICE Maintained \$11.50 Spring Return \$13.00		
CSW-CK2F45	CSW-CA2F45	CSW-CY2F45			1
CSW-CK2R45	CSW-CA2R45	CSW-CY2R45			1
CSW-CK2F90	CSW-CA2F90	CSW-CY2F90	CSW-CKI2F90*		2
CSW-CK2R90	CSW-CA2R90	CSW-CY2R90			2
CSW-CK3F45	CSW-CA3F45	CSW-CY3F45	CSW-CKI3F45*		3
CSW-CK3R45	CSW-CA3R45	CSW-CY3R45	CSW-CKI3R45*		3
CSW-CK3RE45	CSW-CA3RE45	CSW-CY3RE45	CSW-CKI3RE45*		3
CSW-CK3RD45	CSW-CA3RD45	CSW-CY3RD45	CSW-CKI3RD45*		3

* To complete selection, replace "*" with desired color from table below.

(1) Key is released on any position.
 Substitute CY by CYD for key release just on the right.
 Substitute CY by CYE for key release just on the left.
 Substitute CY by CYC for key release just on the center.



Color Code

Color	Clear/White	Red	Green	Yellow	Blue	Black
Code	0	1	2	3	4	5
Symbol						



Controls

Pushbuttons and Pilot Lights - CSW Series (22mm)

Special Operators

POTENTIOMETER

CSW-POT_W

LIST PRICE
\$128.00



CSW-POT — **W**

Resistance

05 - 0.5kΩ	10 - 10kΩ
1 - 1kΩ	25 - 25kΩ
2 - 2kΩ	1M - 1MΩ
5 - 5kΩ	

RESET

CSW-RSBF__

Without markings

LIST PRICE
\$17.00

With markings

LIST PRICE
\$20.00

- RSBF0
- RSBF1
- RSBF4
- RSBF5
- RSBF6



CSW-RSBF — —

Color (see Color Code)

Markings

blank - no markings
O - Letter "O"
R - Letter "R"
RT - Word "reset"

Note: Plunger included as standard.

Push On / Push Off Block

CSW-BR-3P

- Device for flush, extended and mushroom pushbuttons

Note: Use only with single contact blocks.
 1NO-contacts must be BCA10 (early make) type.



LIST PRICE
\$9.30



PUSHBUTTONS



Trip units

FTU - Fixed thermal and fixed magnetic

Trip type

Ratings (A) @ 40°C

Number of poles

Short-circuit trip current, I_m

Applicable to ACW125, 250, 400, and 800 frames

FTU Fixed thermal 15...800A rated current Fixed magnetic 400...8000A trip current	
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FMU - Adjustable thermal and fixed magnetic

Trip type

Ratings (A) @ 40°C

Number of poles

Short-circuit trip current, I_m

Overload current setpoint, I_r

Applicable to ACW125, 250, 400, and 800 frames

FMU Adjustable thermal 40...800A rated current Adjustable: 0.8, 0.9, 1xIn Fixed magnetic 400...8000A trip current	
---	--

ATU - Adjustable thermal and adjustable magnetic

Trip type

Ratings (A) @ 40°C

Number of poles

Short-circuit current setpoint, I_m

Overload current setpoint, I_r

Applicable to ACW125, 250, 400, and 800 frames

ATU Adjustable thermal 160...800A rated current Adjustable: 0.8, 0.9, 1xIn Adjustable magnetic 800...8000A trip current Adjustable: 5, 6, 7, 8, 9, 10xIn	
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Note: WEG is committed to maintain stock for immediate delivery of the following trip units:
 FTU – ACW125P and ACW125W
 FMU – ACW250P, ACW250W, ACW400P, ACW400W, ACW800P, ACW800W
 Please contact your WEG representative office for availability of other trip units.

Selection guide



Rated current In	Code
15A	15
20A	20
30A	30
40A	40
50A	50
60A	60
80A	80
100A	100
125A	125
160A	160
200A	200
250A	250
300A	300
400A	400
500A	500
600A	600
700A	700
800A	800

Trip unit	Code
Fixed thermal and fixed magnetic	FTU
Adjustable thermal and fixed magnetic	FMU
Adjustable thermal and adjustable magnetic	ATU

A C W 1 2 5 P - F T U 8 0 - 3

Frame	Code
125	ACW125
250	ACW250
400	ACW400
800	ACW800

kA rating @ 460VAC	Code
35	P
65	W

Number of poles	Code
3	3

MCCB for power distribution - standard interrupting capacity

ACW125P - FTU trip unit – Fixed thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
15	400	35kA	10kA	ACW125P-FTU15-3	\$665.00	Z10
20	400			ACW125P-FTU20-3	\$665.00	Z10
30	400			ACW125P-FTU30-3	\$665.00	Z10
40	400			ACW125P-FTU40-3	\$665.00	Z10
50	500			ACW125P-FTU50-3	\$665.00	Z10
60	600			ACW125P-FTU60-3	\$665.00	Z10
80	800			ACW125P-FTU80-3	\$728.00	Z10
100	1000			ACW125P-FTU100-3	\$728.00	Z10
125	1250			ACW125P-FTU125-3	\$1,499.00	Z10

Note: Wiring terminal (lugs) not included. Lugs are available as accessory at page 12.

ACW250P - FMU trip unit – Adjustable thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
128...160	1600	35kA	10kA	ACW250P-FMU160-3	\$1,550.00	Z10
160...200	2000			ACW250P-FMU200-3	\$1,550.00	Z10
200...250	2500			ACW250P-FMU250-3	\$1,550.00	Z10

Note: Wiring terminal (lugs) not included. Lugs are available as accessory at page 12.

ACW400P - FMU trip unit – Adjustable thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
240...300	3000	35kA	14kA	ACW400P-FMU300-3	\$2,505.00	Z10
320...400	4000			ACW400P-FMU400-3	\$2,505.00	Z10

ACW800P - FMU trip unit – Adjustable thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
400...500	5000	35kA	18kA	ACW800P-FMU500-3	\$4,757.00	Z10
480...600	6000			ACW800P-FMU600-3	\$4,757.00	Z10
640...800	8000			ACW800P-FMU800-3	\$5,393.00	Z10

Note: WEG is committed to maintain stock for immediate delivery of the following trip units:

FTU – ACW125P and ACW125W

FMU – ACW250P, ACW250W, ACW400P, ACW400W, ACW800P, ACW800W

Please contact your WEG representative office for availability of other trip units.

MCCB for power distribution - high interrupting capacity

ACW125W - FTU trip unit – Fixed thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
15	400	65kA	14kA	ACW125W-FTU15-3	\$965,00	Z10
20	400			ACW125W-FTU20-3	\$965,00	Z10
30	400			ACW125W-FTU30-3	\$965,00	Z10
40	400			ACW125W-FTU40-3	\$965,00	Z10
50	500			ACW125W-FTU50-3	\$965,00	Z10
60	600			ACW125W-FTU60-3	\$965,00	Z10
80	800			ACW125W-FTU80-3	\$1.055,00	Z10
100	1000			ACW125W-FTU100-3	\$1.055,00	Z10
125	1250			ACW125W-FTU125-3	\$2.101,00	Z10

Note: Wiring terminal (lugs) not included. Lugs are available as accessory at page 12.

ACW250W - FMU trip unit – Adjustable thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
128...160	1600	65kA	18kA	ACW250W-FMU160-3	\$2.826,00	Z10
160...200	2000			ACW250W-FMU200-3	\$2.826,00	Z10
200...250	2500			ACW250W-FMU250-3	\$2.826,00	Z10

Note: Wiring terminal (lugs) not included. Lugs are available as accessory at page 12.

ACW400W - FMU trip unit – Adjustable thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
240...300	3000	65kA	20kA	ACW400W-FMU300-3	\$4.312,00	Z10
320...400	4000			ACW400W-FMU400-3	\$4.312,00	Z10

ACW800W - FMU trip unit – Adjustable thermal and fixed magnetic

Thermal Setting [A]	Magnetic Setting [A]	Short-Circuit interrupting capacity		Catalog Number	List Price	Multiplier Symbol
		480VAC	600VAC			
400...500	5000	65kA	25kA	ACW800W-FMU500-3	\$6.392,00	Z10
480...600	6000			ACW800W-FMU600-3	\$6.392,00	Z10
640...800	8000			ACW800W-FMU800-3	\$7.358,00	Z10

Note: WEG is committed to maintain stock for immediate delivery of the following trip units:

FTU – ACW125P and ACW125W

FMU – ACW250P, ACW250W, ACW400P, ACW400W, ACW800P, ACW800W

Please contact your WEG representative office for availability of other trip units.

