

### Main Features



Reference	: CWM
Product code	: 11747434
Rated current Ie AC-3 (Ue ≤ 440 V)	: 630 A
Main contacts (power)	: 3 NO
Auxiliary contacts	: 2 NO + 2 NC
Control voltage	: 200-240V 50/60Hz/200-220V DC
Type of terminal	: Screw

### Basic data

Rated utilization voltage Ue	
- IEC / UL	: 690 V / 600 V
Isolation voltage Ui (pollution degree 3)	
- IEC / UL	: 1000 V / 600 V
Rated impulse withstand voltage Uimp	: 8 kV
- Frequency limits [1]	: 50 Hz ... 60 Hz
- Mechanical lifespan	
AC-operated contactor	: 5 million
DC-operated contactor	: 5 million
Electrical lifespan - Ie AC3	: 0.5 million
Number of coil terminals (AC Coil)	
AC coil contactors	: 2
- DC coil contactors	: 2
Resistance to vibration (IEC 60068-2-6)	
opened contactor	: 2 g
closed contactor	: 4 g
Resistance to mechanical shock (½ sinusoid = 11ms)	
opened contactor	: 8 g
closed contactor	: 10 g
Installation	: Not available
Degree of protection (IEC 60529)	
Main circuit	: IP00
Control circuit	: IP20

### Alternating current - control circuit

Isolation voltage Ui (pollution degree 3)	
- IEC / UL	: 1000 V / 600 V
Standard voltages for 50/60 Hz	:
Command circuit operation limits	
- control circuit 60 Hz	- pick up
	- drop out
- control circuit 50 Hz	- pick up
	- drop out
- Average coil consumption	
- operating at 60 Hz	- closed magnetic circuit
	- power factor (cos φ)
	- Thermal power dissipated
	- closing the magnetic circuit
- operating at 50 Hz	- closed magnetic circuit
	- power factor (cos φ)
	- Thermal power dissipated
	- closing the magnetic circuit
Average time of operation	
- closing the NO contacts	:
- opening the NO contacts	:

### Direct current - command circuit

- IEC / UL	
Standard voltages	: 100...220 V
Command circuit operation limits	
- pick up	: 0,85xUs
- drop out	: 0,3...0,6xUs
Average consumption	
- closed magnetic circuit	: Not available
- closing the magnetic circuit	: Not available
Thermal power dissipated	: 8 W
Average time of operation	
- closing the NO contacts	: 75 ms
- opening the NO contacts	: 75 ms

### Main contacts (power)

Rated utilization current Ie	
- AC-3 (Ue ≤ 440 V)	: 630 A

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## Contactors



- AC-4 (U <sub>e</sub> ≤ 440 V)	: 400 A
- AC-1 (θ ≤ 55 °C, U <sub>e</sub> ≤ 690 V)	: 900 A
Rated utilization voltage U <sub>e</sub>	
- IEC / UL	: 690 V / 600 V
Number of main contacts	: 3 NO
Establishment capacity (IEC 60947)	: 6300 A
Breaking capacity (IEC/EN 60947)	
- U <sub>e</sub> ≤400V	: 6300 A
- U <sub>e</sub> =500V	: Not available
- U <sub>e</sub> =690V	: Not available
Temporary permissible current (without previously current conduction during 15 min at θ ≤ 40 °C)	
- 1 sec	: Not available
- 1 sec	: Not available
- 1 sec	: Not available
- 1 min	:
- 10 min	: Not available
Protection against short circuit of the contacts main fuse (gL/gG)	
- @600V - UL/CSA	: 18 kA
- type 1 coordination	: Not available
- type 2 coordination	: 800 A
Average power dissipated per pole	
AC-1 (θ ≤ 55 °C, U <sub>e</sub> ≤ 690 V)	: Not available
AC-3 (U <sub>e</sub> ≤ 440 V)	: Not available
<b>Utilization category AC-3</b>	
Rated current I <sub>e</sub> (θ ≤ 55 °C)	
- U <sub>e</sub> ≤ 440V	: 630 A
- U <sub>e</sub> ≤ 500V	: 500 A
- U <sub>e</sub> ≤ 690V	: 420 A
Maximum percentage (600 ops./h)	: Not available

Orientative values of power (IEC)-three-phase induction motors (50/60 Hz)-IV poles-1800 rpm		
Voltage	kW	cv or HP
220 / 240 V	185 kW	250 cv
380 / 400 V	330 kW	450 cv
415 / 440 V	330 kW	450 cv
500 V	330 kW	450 cv
660 / 690 V	330 kW	450 cv

Orientative values of power (UL)		
Voltage	1 Phase	3 Phase
120 V	Not available	Not available
200 V	Not applicable	Not available
208 V	Not available	Not available
240 V	Not available	Not available
480 V	Not available	Not available
600 V	Not available	Not available

### Utilization category AC-4

Rated current I <sub>e</sub> (θ ≤ 55 °C)	
- U <sub>e</sub> ≤ 440V	: 400 A
- U <sub>e</sub> ≤ 500V	: Not available
- U <sub>e</sub> ≤ 690V	: Not available

Orientative values of power (IEC)-three-phase induction motors (50/60 Hz)-IV poles-1800 rpm		
Voltage	kW	cv or HP
220 / 240 V	110 kW	150 HP
380 / 400 V	200 kW	Not available
415 / 440 V	200 kW	Not available
500 V	Not available	Not available
660 / 690 V	Not available	Not available

### Utilization category AC-1 (3 P/NA)

Maximum percentage (600 ops./h)	: 1
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Maximum power operation θ ≤ 55°C (three resistors)	
Voltage	Power
220 / 240 V	251 kW
380 / 400 V	434 kW
415 / 440 V	382 kW
500 V	572 kW
660 / 690 V	789 kW

### Auxiliary contacts

Standards compliance	: Not available
Insulation voltage U <sub>i</sub>	
- IEC / UL	: Not available / Not available

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## Contactors



Rated utilization voltage  $U_e$   
 - IEC / UL : Not available / Not available  
 Conventional thermal current  $I_{th}$  ( $\theta \leq 55^\circ\text{C}$ ) : Not available  
 Rated current  $I_e$  - IEC 60947-5-1/AC-15  
 - 220 / 240 V : Not available  
 - 380 / 440 V : Not available  
 - 500 V : Not available  
 - 660 / 690 V : Not available  
 Rated current  $I_e$  - IEC 60947-5-1/DC-13  
 - 24 V : Not available  
 - 48 V : Not available  
 - 110 V : Not available  
 - 220 V : Not available  
 - 440 V : Not available  
 Establishment capacity - (AC-15 and  $U_e \leq 690\text{V}$  50/60Hz) : Not available  
 Interruption capacity - (AC-15 and  $U_e \leq 400\text{V}$  50/60Hz) : Not available  
 Protection against short circuit of the contacts main fuse (gL/gG) : Not available  
 Control circuit reliability : Not available  
 Electrical lifespan : Not available  
 Mechanical lifespan : Not available  
 Non-overlapping time between NO and NC contacts : Not available  
 Impedance per pole : Not available

### Connection

Main contacts  
 Type of the screw : M16 hexagonal  
 Section of the conductors

Type of the conductor	Section (IEC)	Section (UL)
Rigid cable	1 x Not available	1 x
	2 x Not available	2 x
Flexible cable without terminal	1 x Not available	1 x
	2 x Not contain	2 x
Flexible cable with terminal	1 x Not contain	1 x
	2 x Not contain	2 x

Tightening torque (IEC/UL) : 26.5 Nm / Not contain  
 Control circuit  
 Type of the screw : M4 Flat/Phillips  
 Section of the conductors

Type of the conductor	Section (IEC)	Section (UL)
Rigid cable	1 x Not available	1 x
	2 x 1...2,5 mm <sup>2</sup>	2 x
Flexible cable without terminal	1 x Not contain	1 x
	2 x 1...2,5 mm <sup>2</sup>	2 x
Flexible cable with terminal	1 x Not contain	1 x
	2 x 1...2,5 mm <sup>2</sup>	2 x

Tightening torque (IEC/UL) : 2,3 Nm / Not available

### Direct current application

Utilization category DC-1 ( $L/R \leq 1$  ms)

Voltage	Rated utilization current ( $I_e$ )			
	Pole(s) in series			
	1	2	3	4
$U_e \leq 24\text{V}$	850 A	850 A	850 A	Not available
$U_e \leq 48\text{V}$	850 A	850 A	850 A	Not available
$U_e \leq 60\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 125\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 220\text{V}$	Not available	700 A	850 A	Not available
$U_e \leq 440\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 600\text{V}$	Not available	Not available	Not available	Not available

Utilization category DC-3 ( $L/R \leq 2.5$  ms)

Voltage	Rated utilization current ( $I_e$ )			
	Pole(s) in series			
	1	2	3	4
$U_e \leq 24\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 48\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 60\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 125\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 220\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 440\text{V}$	Not available	Not available	Not available	Not available
$U_e \leq 600\text{V}$	Not available	Not available	Not available	Not available

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## Contactors



Operation category DC-5 (L/R ≤ 15ms)

Voltage	Rated utilization current (Ie)			
	Pole(s) in series			
	1	2	3	4
Ue ≤ 24V	850 A	850 A	850 A	Not available
Ue ≤ 48V	Not available	Not available	Not available	Not available
Ue ≤ 60V	Not available	Not available	Not available	Not available
Ue ≤ 125V	Not available	Not available	Not available	Not available
Ue ≤ 220V	Not available	680 A	700 A	Not available
Ue ≤ 440V	Not available	Not available	Not available	Not available
Ue ≤ 600V	Not available	Not available	Not available	Not available

### Ambient temperature

Operation : -10 °C ... +40 °C  
 Storage : -30 °C ... +65 °C  
 Maximum altitude with no change of rated values [2] : 3000 m

### Dimensions

Height : 310 mm (12.20 in)  
 Width : 345 mm (13.60 in)  
 Depth : 246,5 mm (9.70 in)  
 Weight : 25.8 kg

### Standards

IEC 60947-1  
 UL 508

### Certifications

EAC

### Notes

- 1) Values above 60 Hz should have current reduction;
- 2) For altitudes of 3000 to 4000 m (0.90 x 0.80 x Ie and Ui) and from 4000 to 5000 m (0.80 x 0.75 x Ie and Ui).

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
L

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

