DATASHEET
Contactors



Main Features

Reference	: CWM
Product code	: 11747363
Rated current Ie AC-3 (Ue ≤ 440 V)	: 400 A
Main contacts (power)	: 3 NO
Auxiliary contacts	: 2 NO + 2 NC
Control voltage	: 100-240V 50/60Hz/100-220V 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)		: 1000 V / 600 V
- IEC / UL		
Standard voltages for 50/60 Hz		:
Comand 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	:
Comand circuit operation limits	
- pick up	:
- drop out	:
Average consumption	
- closed magnetic circuit	:
- closing the magnetic circuit	:
Thermal power dissipated	:
Average time of operation	
- closing the NO contacts	:
- opening the NO contacts	:

Main contacts (power)

Rated utilization current Ie	
- AC-3 (Ue ≤ 440 V)	: 400 A

- AC-4 (Ue ≤ 440 V) : 300 A
- AC-1 (θ ≤ 55 °C, Ue ≤ 690 V) : 520 A

Rated utilization voltage Ue
- IEC / UL : 690 V / 600 V

Number of main contacts : 3 NO
Establishment capacity (IEC 60947) : 4000 A
Breaking capacity (IEC/EN 60947)
- Ue≤400V : 4000 A
- Ue=500V : Not available
- Ue=690V : Not available

Temporary permissible current (without previously current conduction during 15 min at θ ≤ 40 ºC)
- 1 sec : 4600 A
- 10 sec : 4400 A
- 10 sec : 4400 A
- 1 min :
- 10 min : 760 A

Protection against short circuit of the contacts main fuse (gL/gG)
- @600V - UL/CSA : 10 kA
- type 1 coordenation : Not available
- type 2 coordenation : 630 A

Average power dissipated per pole
AC-1 (θ ≤ 55 °C, Ue ≤ 690 V) : Not available
AC-3 (Ue ≤ 440 V) : Not available

Utilization category AC-3

Rated current Ie (θ ≤ 55 ºC)
- Ue ≤ 440V : 400 A
- Ue ≤ 500V : 350 A
- Ue ≤ 690V : 300 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	110 kW	150 cv
380 / 400 V	200 kW	270 cv
415 / 440 V	200 kW	270 HP
500 V	220 kW	300 cv
660 / 690 V	250 kW	335 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 Ie (θ ≤ 55 ºC)
- Ue ≤ 440V : 300 A
- Ue ≤ 500V : Not available
- Ue ≤ 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	75 kW	100 HP
380 / 400 V	150 kW	200 HP
415 / 440 V	150 kW	200 HP
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

Maximum power operation θ ≤ 55ºC (three resistors)	
Voltage	Power
220 / 240 V	171 kW
380 / 400 V	296 kW
415 / 440 V	296 kW
500 V	390 kW
660 / 690 V	538 kW

Auxiliary contacts

Standards compliance : Not available
Insulation voltage Ui
- IEC / UL : Not available / Not available

Rated utilization voltage Ue
- IEC / UL : Not available / Not available
Conventional thermal current Ith (θ ≤ 55ºC) : Not available
Rated current Ie - 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 Ie - 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 Ue ≤ 690V 50/60Hz) : Not available
Interruption capacity - (AC-15 and Ue ≤ 400V 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 : M12 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 avaliable	2 x
Flexible cable with terminal	1 x Not contain	1 x
	2 x Not contain	2 x

Tightening torque (IEC/UL) : 22.6 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 mm²	2 x
Flexible cable without terminal	1 x Not contain	1 x
	2 x 1...2,5 mm²	2 x
Flexible cable with terminal	1 x Not contain	1 x
	2 x 1...2,5 mm²	2 x

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

Direct current application

Utilization category DC-1 (L/R ≤ 1 ms)

	Rated utilization current (Ie)			
	Pole(s) in series			
Voltage	1	2	3	4
Ue ≤ 24V	430 A	430 A	430 A	Not available
Ue ≤ 48V	430 A	430 A	430 A	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	350 A	430 A	Not available
Ue ≤ 440V	Not available	Not available	Not available	Not available
Ue ≤ 600V	Not available	Not available	Not available	Not available

Utilization category DC-3 (L/R ≤ 2.5 ms)

	Rated utilization current (Ie)			
	Pole(s) in series			
Voltage	1	2	3	4
Ue ≤ 24V	Not available	Not available	Not available	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	Not available	Not available	Not available
Ue ≤ 440V	Not available	Not available	Not available	Not available
Ue ≤ 600V	Not available	Not available	Not available	Not available

Operation category DC-5 (L/R ≤ 15ms)

	Rated utilization current (Ie)			
	Pole(s) in series			
Voltage	1	2	3	4
Ue ≤ 24V	430 A	430 A	430 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	310 A	350 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 :
Width :
Depth :
Weight :

Standards

IEC 60947-1
UL 508

Certifications

CE, UL and 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).