DATASHEET
Contactors



Main Features

Reference	: CWCA0
Product code	: 12487362
Rated current Ie AC-3 (Ue ≤ 440 V)	: 10 A
Main contacts (power)	: No main contacts
Auxiliary contacts	: 2 NO + 2 NC
Control voltage	: 12V 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		: 690 V / 600 V
Rated impulse withstand voltage Uimp		: 4 kV
- Frequency limits [1]		: 25 Hz ... 400 Hz
- Mechanical lifespan		
AC-operated contactor		: 10 million
DC-operated contactor		: 12 million
Electrical lifespan - Ie AC3		: Not available
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		: 6 g
closed contactor		: 10 g
Installation		: Screw
Degree of protection (IEC 60529)		
Main circuit		: IP20
Control circuit		: IP20

Alternating current - control circuit

Isolation voltage Ui (pollution degree 3)		: 690 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	: 12...440 V
Comand circuit operation limits	
- pick up	: 0,4...0,7xUs
- drop out	: 0,15...0,7xUs
Average consumption	
- closed magnetic circuit	: 2,6...3,7 W
- closing the magnetic circuit	: 2,6...3,7 W
Thermal power dissipated	: 2.6...3.7 W
Average time of operation	
- closing the NO contacts	: 35...45 ms
- opening the NO contacts	: 7...12 ms

Main contacts (power)

Rated utilization current Ie	
- AC-3 (Ue ≤ 440 V)	: 10 A

- AC-4 (Ue ≤ 440 V) : Not available
- AC-1 (θ ≤ 55 °C, Ue ≤ 690 V) : 10 A

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

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

Temporary permissible current (without previously current conduction during 15 min at θ ≤ 40 ºC)
- 1 sec : Not available
- 10 sec : Not available
- 10 sec : Not available
- 1 min :
- 10 min : Not available

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

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 : 10 A
- Ue ≤ 500V : Not available
- Ue ≤ 690V : Not available

Maximum percentage (600 ops./h) : 100 %

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

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 : Not available
- 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	Not available	Not available
380 / 400 V	Not available	Not available
415 / 440 V	Não contém	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) : Not available

Maximum power operation θ ≤ 55ºC (three resistors)	
Voltage	Power
220 / 240 V	Not available
380 / 400 V	Not available
415 / 440 V	Not contain
500 V	Not available
660 / 690 V	Not contain

Auxiliary contacts
Standards compliance : IEC 600947-5-1
Insulation voltage Ui
- IEC / UL : 690 V / 600 V

Rated utilization voltage Ue	
- IEC / UL	: 690 V / 690 V
Conventional thermal current Ith (θ ≤ 55ºC)	: 10 A
Rated current Ie - IEC 60947-5-1/AC-15	
- 220 / 240 V	: 10 A
- 380 / 440 V	: 6 A
- 500 V	: 4 A
- 660 / 690 V	: 2 A
Rated current Ie - IEC 60947-5-1/DC-13	
- 24 V	: 6 A
- 48 V	: 4 A
- 110 V	: 2 A
- 220 V	: 0,7 A
- 440 V	: Not available
Establishment capacity - (AC-15 and Ue ≤ 690V 50/60Hz)	: 10 x Ie
Interruption capacity - (AC-15 and Ue ≤ 400V 50/60Hz)	: 10 x Ie
Protection against short circuit of the contacts main fuse (gL/gG)	: 10 A
Control circuit reliability	: 17/5 V/mA
Electrical lifespan	: 1 Million
Mechanical lifespan	: 10 million
Non-overlapping time between NO and NC contacts	: Not available
Impedance per pole	: Not available

Connection

Main contacts

Type of the screw : M3 Flat/Phillips

Section of the conductors

Type of the conductor	Section (IEC)	Section (UL)
Rigid cable	1 x 0,5...2,5 mm²	1 x
	2 x 0,5...2,5 mm²	2 x
Flexible cable without terminal	1 x 0,75...2,5 mm²	1 x
	2 x 0,75...2,5 mm²	2 x
Flexible cable with terminal	1 x 0,5...2,5 mm²	1 x
	2 x 0,5...1,5 mm²	2 x

Tightening torque (IEC/UL) : 1.1 Nm / 10 lb.in

Control circuit

Type of the screw : M3 Flat/Phillips

Section of the conductors

Type of the conductor	Section (IEC)	Section (UL)
Rigid cable	1 x 0,5...2,5 mm²	1 x
	2 x 0,5...2,5 mm²	2 x
Flexible cable without terminal	1 x 0,75...2,5 mm²	1 x
	2 x 0,75...2,5 mm²	2 x
Flexible cable with terminal	1 x 0,5...2,5 mm²	1 x
	2 x 0,5...1,5 mm²	2 x

Tightening torque (IEC/UL) : 1,1 Nm / 10 lb.in

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	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

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	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

Ambient temperature

Operation : -25 °C ... +55 °C
Storage : -55 °C ... +80 °C
Maximum altitude with no change of rated values [2] : 3000 m

Dimensions

Height : 58 mm (2.28 in)
Width : 45 mm (1.77 in)
Depth : 52 mm (2.05 in)
Weight : 229 g

Standards

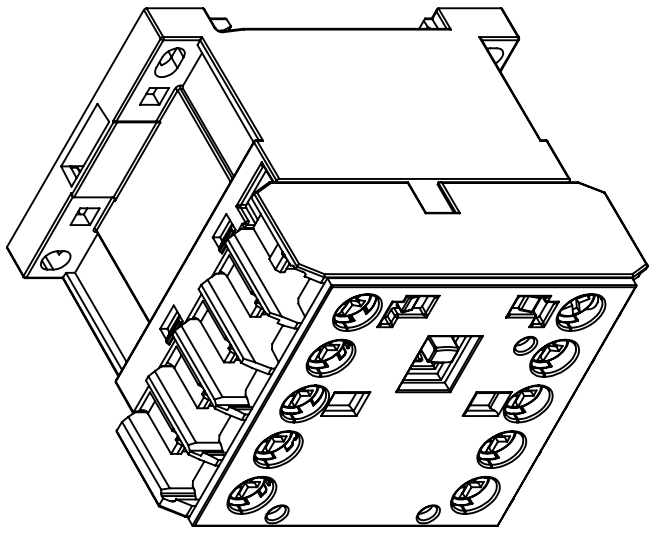
IEC 60947-1
UL 508

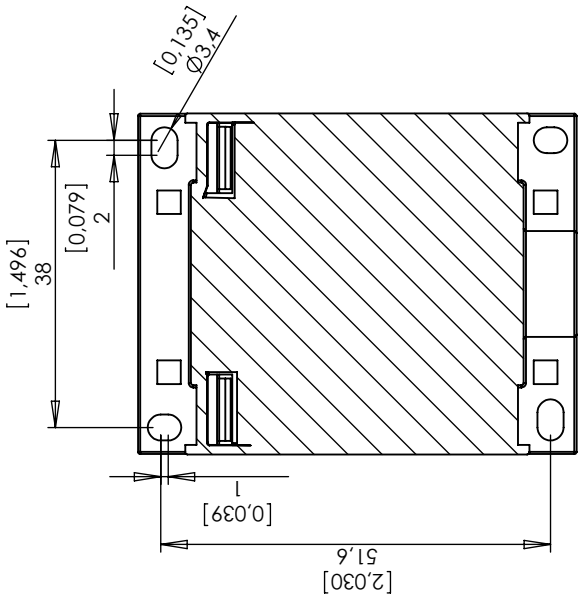
Certifications

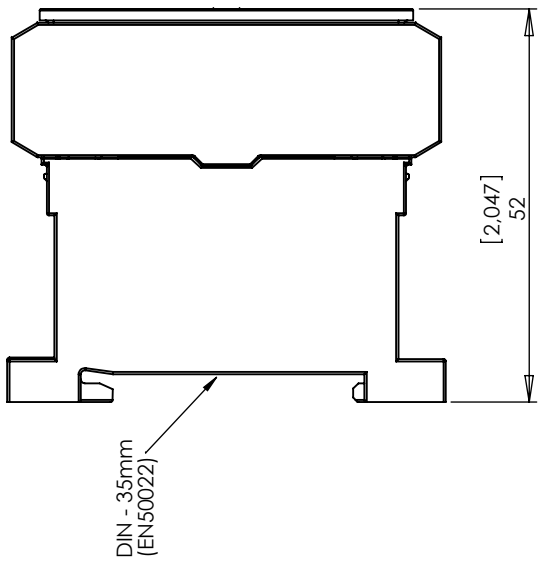
CE, UL, IRAM and EAC

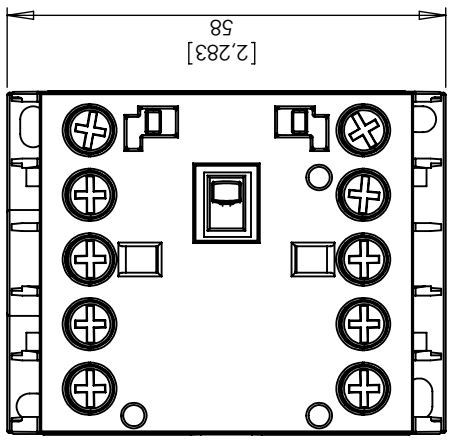
Notes

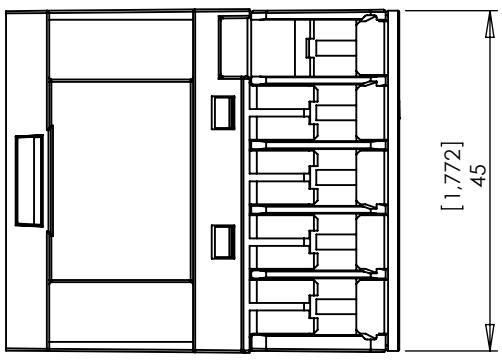
1) Values above 60 Hz should have current reduction;
2) For altitudes of 3000 to 4000 m (0.90 x 0.80 x Ie and Ui) and from 4000 to 5000 m (0.80 x 0.75 x Ie and Ui).











CWC07...16-CWCA0	
24/02/2012	1 : 1
	mm [inches]

A3 Sujeito a alteração sem aviso prévio. As informações contidas são valores de referência.
The values shown are subject to change without prior notice. The information is for reference only.
Los valores demostrados pueden ser cambiados sin aviso previo. La información és de referencia solamente.