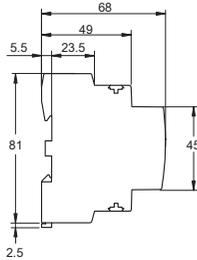
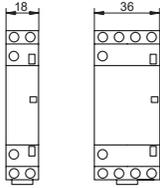


# Contactor Instructions

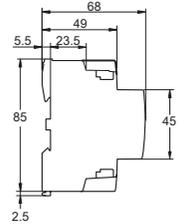
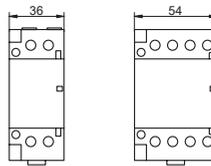
## Installation Instruction for Contactor.

This product **MUST** be installed by a licensed electrician.

25A  
Contactor



40A 63A  
Contactor



## WOCON225NO, WOCON240NO, WOCON425NO, WOCON440NO & WOCON463NO

### Installation, Use and Maintenance

#### 1. Installation

- Prior to installation confirm the selected contactor has the correct parameters and coil voltage for the application required.
- Ensure the contactor is installed in an appropriate enclosure that is IP rated and double insulated for applications where a 35mm DIN rail is used for securing circuit protection equipment such as a small DIN enclosure or larger switchboard.
- Assemble to 35mm DIN rail by pulling down the clip and assembling over the rail, ensuring the clip is returned to the locked position and the contactor is secure on the rail.

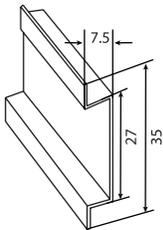
#### 2. Wiring

- Assemble the bared cable into the terminals (Ensuring the correct size is used for the load in accordance with AS/NZS3000 wiring rules) and tighten following the torque specifications in the attached table.
- Do not overtighten as it may damage the case or compromise the connection or insulation
- When wiring is completed, energise/de-energise the coil several times to ensure the contactor is working correctly when and the system shows normal function.

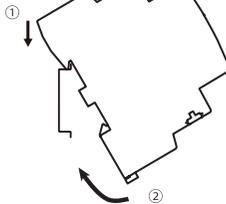
#### 3. Maintenance

- While conducting maintenance it is suggested to check and tests the terminal screws and contactor function.

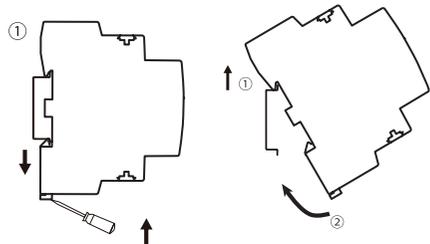
### Mounting



TH35-7.5 DIN rail



### Dismounting



## Use

Trader's Wolverine AC contactor is a controller used for connecting and breaking non-inductive or low inductive load, resistance furnace, household appliances, low-inductive load with similar use and household electro motor in a long distance.

## Scope of application

The contactor is mainly used under the power system with AC 50/60Hz, rated operational voltage of 400V and rated operational current of 63A, and also can be used as remote switch and control circuit under the circumstance of AC-1, AC-7a and AC-7b.

As the contactor is not used for breaking short circuit current, a proper short-circuit protective device is required at the same time.

## Conditions of normal Use and installation

1. The ambient temperature ranges between -5°C and +60°C. If installed in a distribution box, distance pieces are required to be assembled on both sides, so as to help thermal dissipation.
2. Altitude: ≤2000m.
3. The atmospheric relative humidity does not exceed 50% when the maximum ambient temperature is +60°C. It is allowed to have relative higher humidity under lower temperature, e.g. up to 90% for +20°C. For the occasional condensation due to changes of the temperature, preventive measures shall be taken.
4. Contactor to be installed vertical, with inclination at all directions not exceeding ±5°.
5. To be installed in a place without shock and vibration.
6. Pollution class: 2.
7. Installation category: II.
8. Use of steel DIN Rail 35-7.5 for installation.

## Technical characteristics

**Table 1 Use category and relevant code**

Use Category	Typical Use
AC-7a	Household appliances and other low-inductive load with similar use
AC-7b	Household motor load.
AC-1	Resistance load
AC-3	Motor load
*AC-7b/AC3 category can be applied for accidental dense breaking (jog) or reversed braking in a limited time, during which operations shall not be conducted for more than 5 times per minute or 10 times in minutes.	

## Rated duty

### Eight-hour duty

The conventional free air thermal current Ith of a contactor is determined by this basic duty.

### Intermittent periodic duty

Under this duty, the rated operation frequency shall be 30 times/h and load factor shall be 40% for a contactor.

### Action (operation) conditions

As the ambient temperature ranges between -5°C and 60°C apply rated control power voltage Us to the magnetic coil of a contactor until it reaches a stable heat condition, when the contactor can be closed up under any voltage within 85%-110% Us with a release voltage of (20%~75%)Us.

**Table 2 Basic parameters of a contactor**

Parameter / Specification		25A	40A	63A	
Rated Current In(A)	AC-7a	25	40	63	
	AC-7b	9	18	25	
Conventional Free Air Thermal Current Ith(A)		25	40	63	
Rated Insulation Voltage Ui(V)		500			
Rated Voltage Ue(V)		250V( 2P)		400V(3P 4P)	
Main Contacts	2P	2NO			
	3P	3NO			
	4P	4NO			
Controlled power (kW)	AC-7a	250V	5	7.5	12
		400V	16	26	40
	AC-7b	250V	1.2	3	4
		400V	4	7.5	11
Electrical durability(times)		10x10 <sup>4</sup>			
Mechanical durability(times)		100 x 10 <sup>4</sup>			
Operation frequency /1h		30			
Coil Voltage Us(V)		AC230V			
Wiring Ability (mm <sup>2</sup> )	Control circuit	Rigid wire	1.5 - 2.5 2 x 1.5		
		Flexible wire	1.5 - 2.5 2 x 2.5		
	Main Circuit	Rigid wire	1.5 - 6	6 - 25	
		Flexible wire	1.5 - 4	6 - 16	
Fastening torque (Nm)	Main circuit terminal	0.8	3.5		
	Control circuit terminal	0.8			