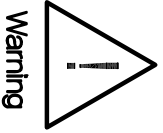


Thank you for choosing the Metasol Contactor and Overload Relay.
Please read this instruction manual carefully for proper and safe usage.
The instruction manual should be given to the person who actually uses the products and is responsible for their maintenance.



Warning

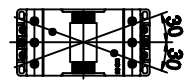
- 1) Before installation or inspection of sequence, please make sure to turn off the upstream circuit breakers.
- 2) Be sure to tighten the terminal screws to the torque specified in the instruction manual, otherwise fire may be occurred due to temperature rise.
- 3) Do not modify the device unless it is permitted.
- 4) Do not use the product after removing its arc-extinguishing chamber, electric shock or burns may be resulted if.
- 5) After the power interruption of coil for magnetic contactor caused by a trip operation of overload relays, please make sure to remove the cause and reset operation.
- 6) Installation maintenance and inspection should be performed by qualified engineers having special knowledge.
- 7) When disposing, dispose the product as industrial waste.

Check point before installation

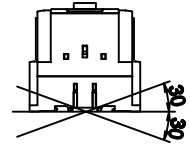
Please check whether the product meets the rated capacity, voltage, current and frequency for the load.

Handling Instruction

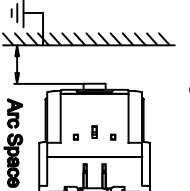
- 1) Install onto the place where it is free vibration and humidity.
- 2) It is normal to set contactor upright to panel but it is suggested to set contactor with an inclination of 30 degrees to panel in case of Fig.1
- 3) Keep the arc distance more than 15mm with MC-6a~40a, 25mm with MC-50a~150a space shown in Fig.2. When installing magnetic contactors in panel.



(Fig.1)



(Fig.2)



Size of Wire and Tightening Torque

FRAME	WIRE TYPE	[mm ² AWG]				mm		mm		TORQUE [mm N·m]	
		1	2	3	4	1	2	1	2		
MC-18a		mm0.75/mm18	0.75-6/18-10	0.75-4/18-10	0.75-28	—	—	—	—	1.25-55	0.8-2.5/7-22
MC-22a		mm0.75/mm18	0.75-6/18-10	0.75-4/18-10	0.75-32	—	—	—	—	1.25-55	0.8-2.5/7-22
MC-40a		mm0.75/mm18	1-6/18-10	0.75-4/18-10	0.75-32	—	—	—	—	1.25-55	0.8-2.5/7-22
MC-63a		mm1/mm18	1-25/18-4	1-16/18-6	1-32	—	—	—	—	2-22	3-4.5/26-38
MC-100a		mm2.5/mm12	2.5-50	2.5-35	2.6-32	—	—	—	—	2-38	4-6/35-53
MC-150a		mm2.5/mm12	2.5-50	2.5-50	2.6-32	—	—	—	—	2-80	4-6/35-53
COIL TER		—	0.5-2.5/20-14	—	1.25-2	—	—	—	—	1.25-35	1.2-1.8

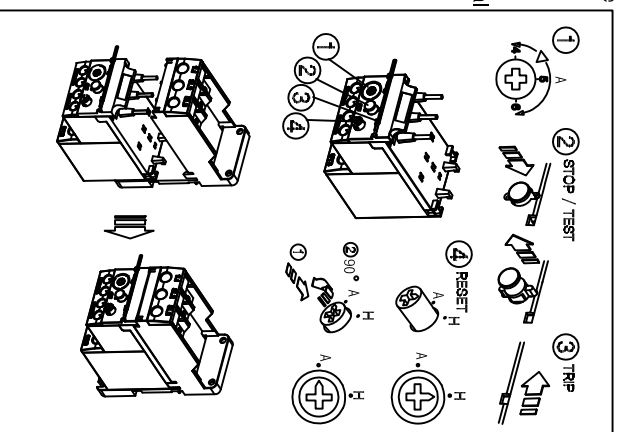
Thermal Overload Relay

- 1) Open the safety cover and set the full load current value of motor by rotating the triangle point.
- 2) Please rotate the current adjustment dial within the range of arrow.
- 3) In the manual reset mode, reset operation can be achieved by pushing the reset button, and to change from the manual reset-mode to automatic reset mode turn the adjustment dial to the left while depressing the reset button and then fix the arrow to the automatic reset mode(A).
- 4) Push the red button for stopping and pull it for testing.

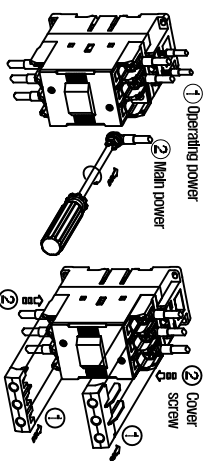
	STOP	TEST/TRIP	RESET
NC 95-96			
NO 97-99			

Caution of reversing Contactors and Switches

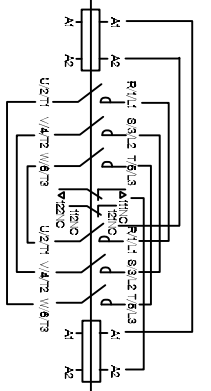
- 1) In case of forward & reverse operation of motor using 2 contactor(switches) Please use the reversible magnetic contactor(switches) : R-type
- 2) In case of using in electric reversible mode which may cause arc short by sudden change, recommend to use the relay.



SCREW TYPE



R-TYPE Wiring Diagram



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