



### MODULAR CONTACTOR DEMONSTRATION AND USERS MANUAL

Thank you for choosing Modular Contactor. Please read this manual before installation, operation and maintenance.

#### OVERVIEW

Modular contactors can be used to automate processes in buildings and facilities. Common usage scenarios for modular contactors: Modular contactors are chiefly used in the field of facilities installations to switch and control lighting systems, heating, ventilation, pumps, heat pumps or air conditioning and other building automation requirements.

To select the suitable modular contactor it is necessary to know the required operating load and currents. It is also important to note whether direct current or alternating current applies.

#### STANDARD AND QUALITY CERTIFICATES

IEC-61095



#### TECHNICAL DATA

Voltage rating(Ue)	1P, 2P 3P, 4P	250V AC 400V AC
Frequency	50/60Hz	
Endurance(C-C)	100,000	
Maximum number of switching operation a day	100	
Additional characteristics		
Insulation voltage(Ui)	500V AC	
Pollution degree (IEC 60529)	2	
Rated impulse withstand voltage (Uimp)	2.5kV (4kV@ 12/24/48VAC)	
Degree of protection (IEC 60529)	IP 20, IP 40	
Operating temperature	-5--+60 °(1)	
Storage temperature	-40--+70	
Tropicalization (IEC 60068-1)	Treatment 2(relative humidity 95 % at 55)	
ELSV compliance(Extra Low Safety Voltage)for	12/24/48VAC versions	

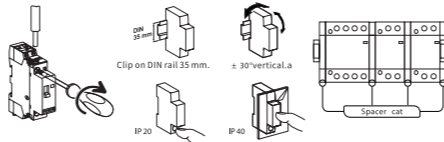
<sup>(1)</sup>In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50 and 60, it is necessary to use a spacer, between each contactor.

#### CONSUMPTION

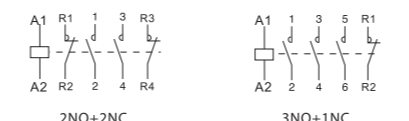
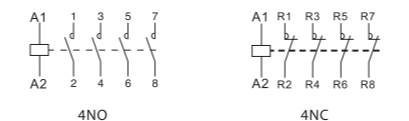
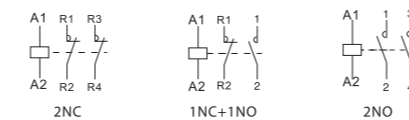
Rating (In)	Control Voltage (VAC) (50/60 Hz)	Consumption			Max. Power
		AC-7a	AC-7b	Holding	
16A	6A	220...240	2.7VA	9.2VA	1.2W
20A	7A	220...240	2.7VA	9.2VA	1.2W
25A	9A	220...240	3.6VA	15VA	1.2W
40A	18A	220...240	4.6VA	34VA	1.6W
63A	25A	220...240	4.6VA	34VA	1.6W
100A	-	220...240	6.5VA	53VA	2.1W
16A	6A	220...240	4.6VA	34VA	1.6W
25A	9A	220...240	4.6VA	34VA	1.6W
32A	12A	220...240	6.5VA	53VA	2.1W
40A	18A	220...240	6.5VA	53VA	2.1W
63A	25A	220...240	6.5VA	53VA	2.1W
100A	-	220...240	13VA	106VA	4.2W

#### CONNECTION

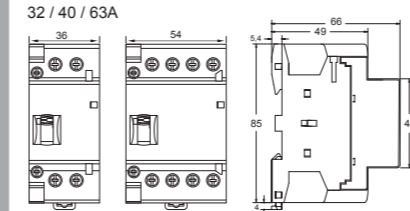
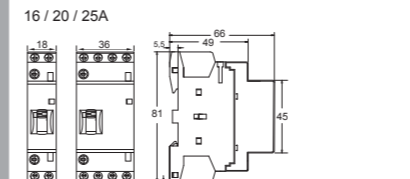
Rating	Length	Tripping	Circuit	Tightening Torque	Copper Cables	
					Rigid	Flexible or Ferule
16-105A	9mm	Control	0.8 N.m	1.5-2.5mm <sup>2</sup> 2x1.5mm <sup>2</sup>	1.5-2.5mm <sup>2</sup> 2x2.5mm <sup>2</sup>	
16-25A	9mm	Power	0.8 N.m	1.5-2.5mm <sup>2</sup> 1-4mm <sup>2</sup>	1-4mm <sup>2</sup> 2x2.5mm <sup>2</sup>	
40-63A	14mm	Power	3.5 N.m	6-25mm <sup>2</sup> 6-25mm <sup>2</sup>	6-25mm <sup>2</sup> 6-35mm <sup>2</sup>	
100A	14mm	Power	3.5 N.m	6-25mm <sup>2</sup> 6-35mm <sup>2</sup>	6-35mm <sup>2</sup> 6-35mm <sup>2</sup>	



#### CIRCUIT DIAGRAM



#### DIMENSIONS(mm)



#### WARRANTY CONDITIONS

- Warranty period starts as of the delivery date of the product and it is 2 years.
- Warranty covers the malfunctions likely to occur due to the manufacturing defects of the product and within the warranty period.
- The product including all of its parts is under warranty as a whole. If the product turns out to be defective, the consumer can use one of the following rights stipulated in Article 11 of Consumer Protection Law no. 6502:
  - Withdrawal from the contract
  - Demanding discount from sales fee
  - Demanding free repair,
  - Demanding the replacement of the sold one with a fungible one free from defects.
- In case the consumer chooses the right of free repair among those rights; the dealer is obliged to repair the product or have the product repaired without claiming any fee under the name of replaced part fee, labor cost or for any other reasons. The consumer can also use the right of free repair against the manufacturer or exporter. The dealer, manufacturer and exporter are jointly and severally liable for the usage of this right by the consumer.
- In case the consumer uses the right of free repair and if the product fails within the warranty period again and the maximum period required for the repair is exceeded and Authorized service station, dealer, manufacturer or exporter state that it's not possible to repair the product in a report, the consumer can demand the return of the product fee, fee discount at the ratio of the defect or the replacement with the one free of defects, if possible, from the dealer. The dealer can not reject the demand of the consumer. In case this demand is not met, the dealer, manufacturer and exporter shall jointly and severally be held responsible.

#### WARRANTY CONDITIONS

- The repair period of the product can not exceed 20 business days. This period starts on the notification of the failure on the product to the authorized service station or the dealer within the warranty period and from the date of delivery of the product to the authorized service station out of warranty period. In case of not eliminating the product malfunction within 10 business days, manufacturer or importer is obliged to dedicate another product with similar characteristics to the use of the consumer until the completion of the product repair. In case the product fails within the warranty period, elapsed time is added to the warranty period.
- Usage of the product contrary to the rules stipulated in user's manual, operating out of determined voltage, current and environmental conditions, damage on the cable connection due to the user's fault and failure of the product due to the facts arising from the fire, flood, earthquake, lightning and similar disasters are not under warranty.
- The consumer can apply to the arbitration committee for consumers or the consumer court where the consumer operations are made or in the residential area for the disputes to be occurred regarding the usage of the rights arising from the warranty.
- In case the dealer doesn't provide this certificate of warranty, the consumer can apply to the General Directorate of Consumer Protection and Market Surveillance of Ministry of Customs and Trade<sup>\*</sup>

#### WARNING

- Ensure that the power is cut off before the assembly of the products
- Connection and assembly of the electrical devices should be carried out only by the technical personnel having certificate of competency.
- No responsibility is assumed for the entire of the malfunction, accident and loss arising from the assembly or interference of the persons not having the competency certificate.
- Never use alcohol, cologne, detergent or other similar chemicals for cleaning. Do not perform wet cleaning do not contact the product with water when the product is energized.
- Keep the product away from the damp or wet environment during the transportation and shipping.

#### PANASONIC AND ENVIROMENT

As Panasonic, we are aware of the contribution of a balanced relation established between human and nature to the sustainable life. Thanks to our continuous innovation and R&D studies, we prefer materials and technologies that are not affecting the environment in a negative way during the production and usage of the products starting from the designing phase. We take necessary measures to use energy and natural sources in a more efficient way.

#### PANASONIC CUSTOMER RELATIONS

**Dear Customer,**  
We believe in providing quality service to your as well as offering quality products.



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