

CT modular contactors

Multi 9 Merlin Gerin

Modular contactors are not only used in the residential sector but in the tertiary sector or in industrial utilities for the control of single or three-phase loads up to 100 A.

They act as an interface between the order giver (e.g. power utility signal, load-shedding device, pushbutton, thermostat, programmable time switch, centralised technical management,...) and the power circuit for final circuits: lighting, utility motors: ventilation, heat pumps, watering system,..., hot water, heating, ovens, climatic chambers...

Operation

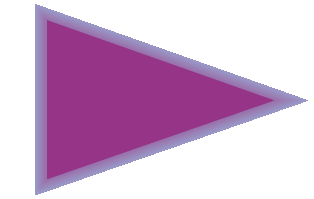
The range includes two types of contactors:

- Contactors with no manual operating mechanism:
 - with closing poles, pole closing is controlled by the presence of voltage on the coil and pole opening by the disappearance of this voltage,
 - with opening poles, the poles are closed with the coil de-energized and open when the coil is fed with power. Mainly used for load-shedding,
 - with mixed poles (closing and opening).
- Contactors with manual operating mechanism: they additionally allow closing or opening of the poles using the selector switch on the front panel during maintenance operations, or are used to override an automatic system. The selector switch has 3 positions: OFF/automatic operation/manual or permanent operation.

Advantages

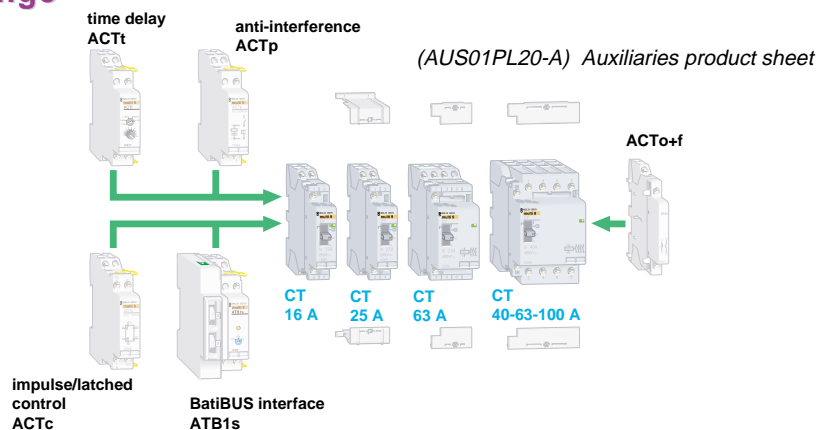
A complete range of modular contactors:

- 16 to 100 A ratings in single, two, three or four-pole.
- Closing, opening or mixed poles with or without manual operating mechanism.
- Comply with the standards in force in residential and tertiary applications: IEC61095.
- Silent (< 20 dB).
- With an adaptable indication auxiliary for 25 to 100 A contactors.
- With control auxiliaries compatible with the reverser relay range and remote control of the C60 circuit-breaker.
- Anti-interference filter.
- With accessories: screw cover, clip-on markers, spacers.
- Homogenous with the entire Multi 9 offer:
 - matching design,
 - same profile,
 - identical connections.



CT: 15962

The range



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IMPLEMENTATION

- Designed to be installed in modular switch boxes and switchboards.
- Optimised dimensions: in accordance with the rating and number of poles.
- Easy symmetrical rail mounting using a two-state latch.
- Easy connection using grooved tunnel terminals with flap.
- Mixed +/- socket screws which cannot be lost.
- Auxiliaries simply clipped on to contactors.

SPECIFICATIONS

Electrical specifications

- Power circuit:
 - rating at 40°C: 16 to 100 A (AC7a category).
- Control circuit:
 - operating voltage:
 - 24 V AC \pm 10%
 - 230/240 V AC: -15% +6%,
 - coil frequency: 50 Hz.
- Electrical endurance:
 - AC1 and AC7a categories:
 - 16 A ratings, 100,000 operations
 - 25 A ratings, 250,000 operations
 - 40-63-100 A ratings, 200,000 operations.

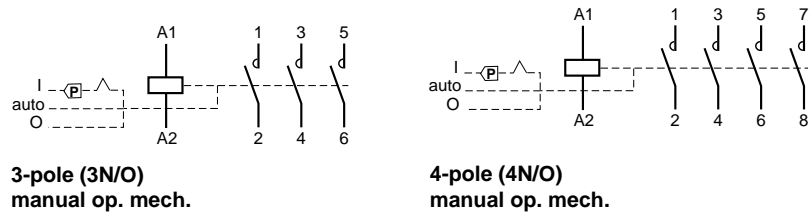
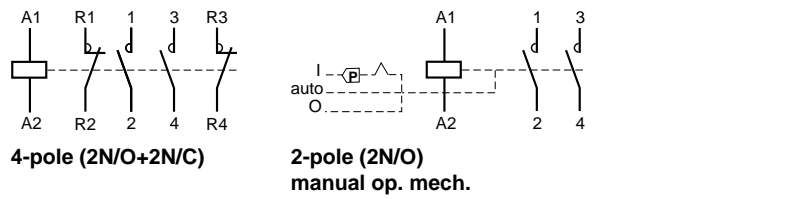
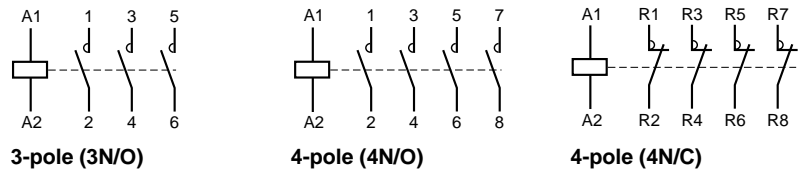
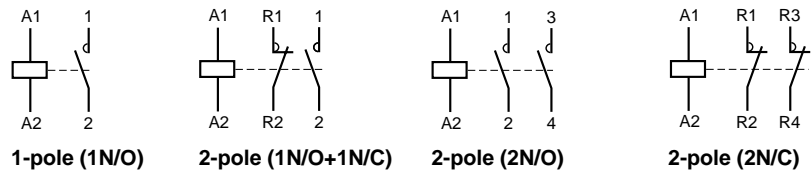
Mechanical specifications

- Visualisation of contactor state on front panel (coil fed or manual operation).
- Mechanical endurance: 1,000,000 operations.
- Connections:
 - control circuit:
 - rigid cable: 2 x 1.5 mm²
 - supple cable: 2 x 2.5 mm²,
 - power circuit:
 - rigid cable:
 - 6 mm 2 up to 25 A
 - 25 mm 2 for 40 and 63 A
 - 50 mm 2 for 100 A
 - supple cable:
 - 2 x 2.5 mm² up to 25 A
 - 2 x 10 mm² for 40 and 63 A
 - 2 x 35 mm² for 100 A.820.

ENVIRONMENT

- Tropicalisation:
 - treatment 2 (relative humidity: 95% at 55°C).
- Protection class:
 - IP 201 (front panel: IP 4).
- Operating temperature:
 - 5°C to +60°C.
- Storage temperature:
 - 40°C to +70°C.
- Complies with the strictest regulations and directives in the area of «environmental protection».

SCHEMATIC DIAGRAMS



SELECTION TABLE

number of poles	power circuit rating (A)	width voltage (V AC)	type of in mod. (9 mm)	control contacts	references circuit voltage (V AC)	man. op. with	mech. without			
1P	25	250	2	1N/O	230/240		15958			
2P	16	250	2	1N/O+N/C	230/240		15956			
			2	2N/O	230/240		15957			
	25	250	2	2N/O	230/240	15981	15959			
			2	2N/O	24		16020			
			2	2N/C	230/240		15960			
			4	2N/O	230/240	15984	15966			
			4	2N/O	230/240	15987	15971			
			4	2N/O	24		16024			
3P	25	250	6	2N/O	230/240		15977			
			4	3N/O	230/240	15982	15961			
			6	3N/O	230/240		15967			
4P	25	400	4	3N/O	230/240		15972			
			4	4N/O	230/240	15983	15962			
			4	4N/O	24		16022			
	40	400	4	4N/C	230/240		15963			
			4	4N/C	24		16023			
			4	2N/O+N/C	230/240		15964			
			6	4N/O	230/240	15986	15968			
			6	4N/C	230/240		15969			
			63	400	400	6	4N/O	230/240	15988	15973
						6	4N/O	24		16025
						6	4N/C	230/240		15974
						6	4N/C	24		16026
			100	400	400	6	2N/O+2N/C	230/240		15975
12	4N/O	230/240					15978			

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