

Power contactors

From 16 A to 63 A



Dimensions (p. 100)

Conform to IEC/EN 61095

Space for power supply busbar on top (up to 25 A)

Pack	Cat. No.	Power contactors with 24 V~ coil			
		2-pole - 250 V~		Type of contact	Number of modules
1	041 14	I max 16 A		N/C + N/O	1
1	041 16	25 A		2 N/O	1
		4-pole - 400 V~			
1	041 17	25 A		4 N/O	2

Power contactors with 24 V~ coil and handle					
Manual override for test and repair function, carried out via the handle Permanent "ON" or "OFF" without automatic reset					
		2-pole - 250 V~		Type of contact	Number of modules
1	041 23	I max 25 A		2 N/O	1
1	040 73 ⁽¹⁾	63 A		2 N/O	2
		4-pole - 400 V~			
1	041 24	25 A		4 N/O	2
1	040 74 ⁽¹⁾	63 A		4 N/O	2

Low noise power contactors with 230 V~ coil					
		2-pole - 250 V~		Type of contact	Number of modules
1	041 49	I max 25 A		2 N/O	1

Power contactors with 230 V~ coil					
		2-pole - 250 V~		Type of contact	Number of modules
4	041 26	I max 16 A		N/C + N/O	1
10	041 58	25 A		2 N/O	1

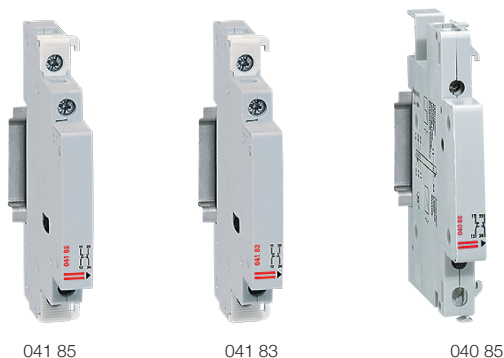
Pack	Cat. No.	Power contactors with 230 V~ coil (continued)			
		2-pole - 250 V~		Type of contact	Number of modules
1	041 29	I max 25 A		2 N/C	1
		4-pole - 400 V~			
5	041 31	25 A		4 N/O	2
1	041 32	25 A		4 N/C	2
1	041 33	25 A		2 N/O + 2 N/C	2

Power contactors with 230 V~ coil and handle					
Manual override for test and repair function, carried out via the handle Permanent "ON" or "OFF" without automatic closing of the contactor					
		2-pole - 250 V~		Type of contact	Number of modules
4	041 47	I max 25 A		2 N/O	1
1	040 68 ⁽¹⁾	40 A		2 N/O	2
1	040 75 ⁽¹⁾	63 A		2 N/O	2
1	040 76 ⁽¹⁾	63 A		2 N/C	2
		3-pole - 400 V~			
1	040 69 ⁽¹⁾	40 A		3 N/O	3
1	040 77 ⁽¹⁾	63 A		3 N/O	3
		4-pole - 400 V~			
2	041 48	25 A		4 N/O	2
1	040 70 ⁽¹⁾	40 A		4 N/O	3
1	040 78 ⁽¹⁾	63 A		4 N/O	3
1	040 79	63 A		4 N/C	3

(1) Handle can be accessed once the blanking plate has been removed

Power contactors

From 16 A to 63 A (continued)



041 85

041 83

040 85

Pack Cat. No. Signalling auxiliaries for contactors

1	041 85	Auxiliary changeover switch Used to signal the position status of the contacts on the product to which it is connected For 1 module contactors 16 A to 25 A Maximum 2 auxiliary devices per contactor Fitted on left-hand side of contactor	I max. 5 A	Voltage 250 V~	Changeover switch N/C + N/O	Number of modules 0.5
1	041 83	For 2 module contactors 25 A Maximum 2 auxiliary devices per contactor Fitted on left-hand side of contactor	I max. 5 A	Voltage 250 V~	Changeover switch N/C + N/O	Number of modules 0.5
1	040 85	For 40 and 63 A contactors Maximum 1 auxiliary device per contactor Fitted on left-hand side of contactor	I max. 5 A	Voltage 250 V~	Changeover switch N/C + N/O	Number of modules 0.5

Power contactors

From 16 A to 63 A

■ Technical characteristics

- rated impulsive resistant current (Uimp): 4 kV
- mechanical life in cycles of operations: 10⁶ cycles
- temperature:
 - operation: - 25° C to + 40° C
 - storage: - 40° C to +70° C

Protection of contactors against short-circuits conforming to IEC EN 61095, conditional short-circuit current I_q = 6 kA
MCB or gG fuse, rating:

- ≤ 16 A for 16 A rating
- ≤ 25 A for 25 A rating
- ≤ 40 A for 40 A rating
- ≤ 63 A for 63 A rating

• Control coil consumption

Power contactors 16 A and 25 A					
Control voltage	24 VA		230 VA low noise	230 VA	
Nominal current	16 - 25 A	25 A	25 A	16 - 25 A	16 - 25 A
Type of contact	N/O + N/C 2 N/C	4 N/O	2 N/O	N/O + N/C 2 N/O 2 N/C	2 N/O + 2 N/C 4 N/O 4 N/C
Number of modules	1	2	1	1	2
Holding	200 mA	300 mA	6 mA	20 mA	20 mA
Inrush	970 mA	300 mA	55 mA	90 mA	200 mA

Power contactors 40 A, 63 A				
Control voltage	24 VA		230 VA	
Nominal current	40 and 63 A	40 and 63 A	40 and 63 A	40 and 63 A
Type of contact	2 N/O	4 N/O	2 N/O 2 N/C	3 N/O 4 N/O 4 N/C
Number of modules	2	3	2	3
Holding	250 mA	270 mA	15 mA	30 mA
Inrush	1750 mA	1500 mA	150 mA	200 mA

• Recommendations

Derating of contactors mounted in modular boxes
if the internal temperature is > 40 °C

Contactor rating	40 °C	50 °C	60 °C	70 °C
I _e = 16 A	16 A	14 A	12 A	10 A
I _e = 25 A	25 A	22 A	20 A	18 A
I _e = 40 A	40 A	36 A	32 A	29 A
I _e = 63 A	63 A	57 A	50 A	45 A

Install a spacing unit every two contactors (Cat. No. 044 40 or 044 41)

• Max. connection cross-section in mm²

Type of conductor	Ratings ≤ 25 A	Ratings 40 and 63 A
Rigid	1 x 6 ² or 2 x 2.5 ²	1 x 25 ² or 2 x 10 ²
Flexible	1 x 6 ² or 2 x 2.5 ²	1 x 25 ² or 2 x 10 ²
Flexible with single ferrule	1 x 6 ²	1 x 16 ²
Flexible with double ferrule	2 x 4 ²	2 x 16 ²

Cross reference list old range / new range

Old range Cat. No.	New range Cat. No.	Designation
040 33	041 14	16 A - 24 V - N/C + N/O
040 41	041 16 ⁽¹⁾ / 041 23 ⁽²⁾	25 A - 24 V - 2 N/O
040 43	041 17 ⁽¹⁾ / 041 24 ⁽²⁾	25 A - 24 V - 4 N/O
040 38	041 26	16 A - 230 V - N/C + N/O
040 49	041 58 ⁽¹⁾ / 041 47 ⁽²⁾	25 A - 230 V - 2 N/O
040 52	041 49	25 A - 230 V - 2 N/O low noise
040 50	041 29	25 A - 230 V - 2 N/C
040 53	041 31 ⁽¹⁾ / 041 48 ⁽²⁾	25 A - 230 V - 4 N/O
040 54	041 32	25 A - 230 V - 4 N/C
040 55	041 33	25 A - 230 V - 2 N/C + 2 N/O
040 85	041 85	Auxiliary changeover switch for 1 module 16 and 25 A contactors
	041 83	Auxiliary changeover switch for 2 modules 25 A contactors
	040 85	Auxiliary changeover switch for 40 A and 63 A contactors

(1) Without handle

(2) With handle