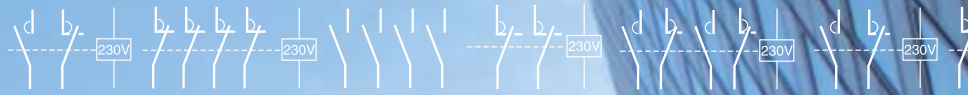
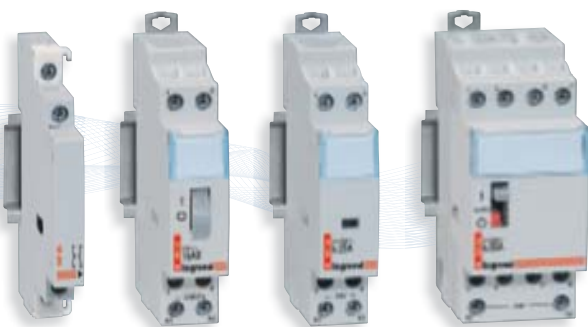


Reliability & freedom for commercial buildings



NEW PULSE OPERATED LATCHING RELAYS AND 25 A CONTACTORS

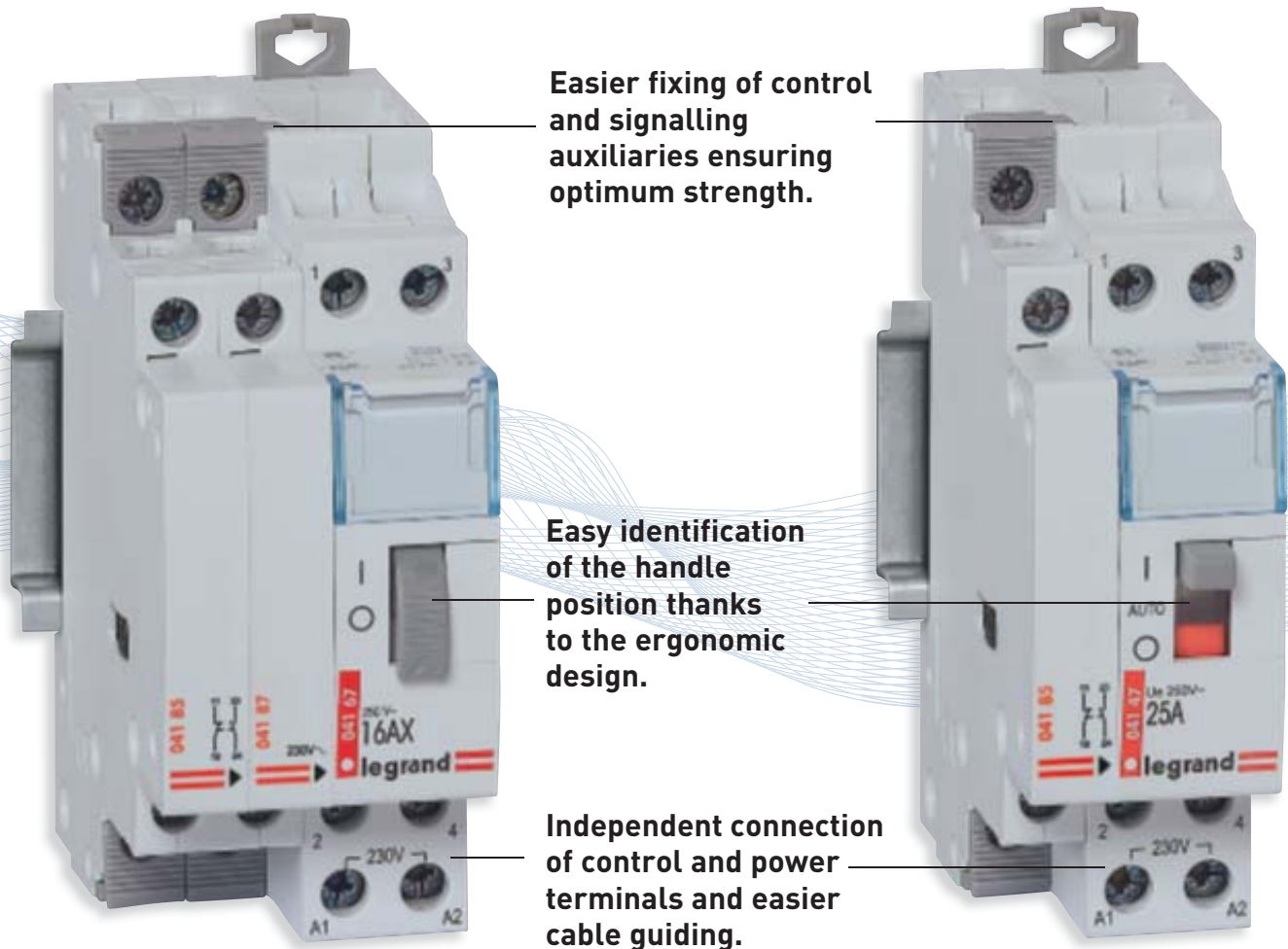


 **legrand**[®]

The 3 strong points of the new ranges

Freedom, reliability and performance! These are the 3 strong points which Legrand has developed on its new range of pulse operated latching relays and 25 A contactors. Simple and safe installation, new control functions and increased maximum load (for power contactors).

Common features...



Easier fixing of control and signalling auxiliaries ensuring optimum strength.

Easy identification of the handle position thanks to the ergonomic design.

Independent connection of control and power terminals and easier cable guiding.

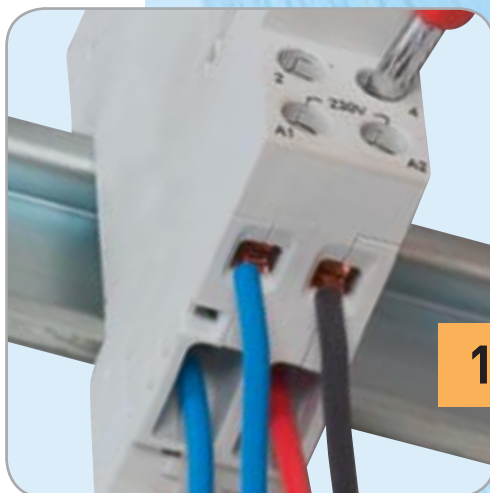
Pulse operated latching relays

Contactors

Independent screw connection.

Allows independent wiring of control and power terminals at any time, whether in the workshop or on site

Easier cable guiding.



1 Freedom

Fixing add-on modules

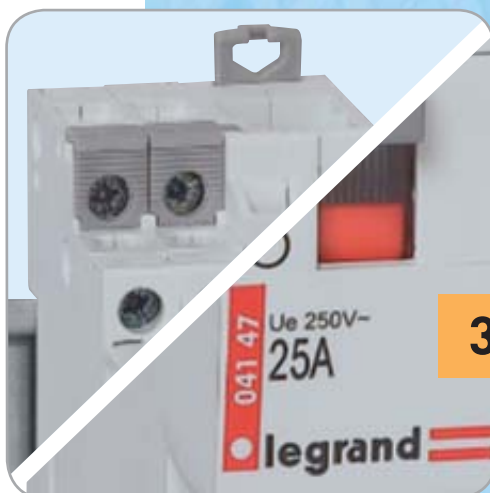
Ease of assembly ensures maximum strength.



2 Reliability

Up to 2 add-on modules can be combined on the same appliance at the same time.

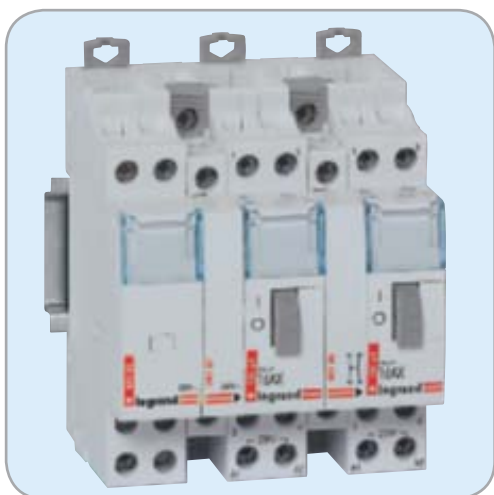
Higher loads, up to 25 A, for the new range of power contactors.



3 Performance

Total control of the installation: pulse operated latching relays

The new range of Legrand pulse operated latching relays incorporates new functions, including the centralised general control auxiliary which can be used for simultaneous control of all zones of the installation

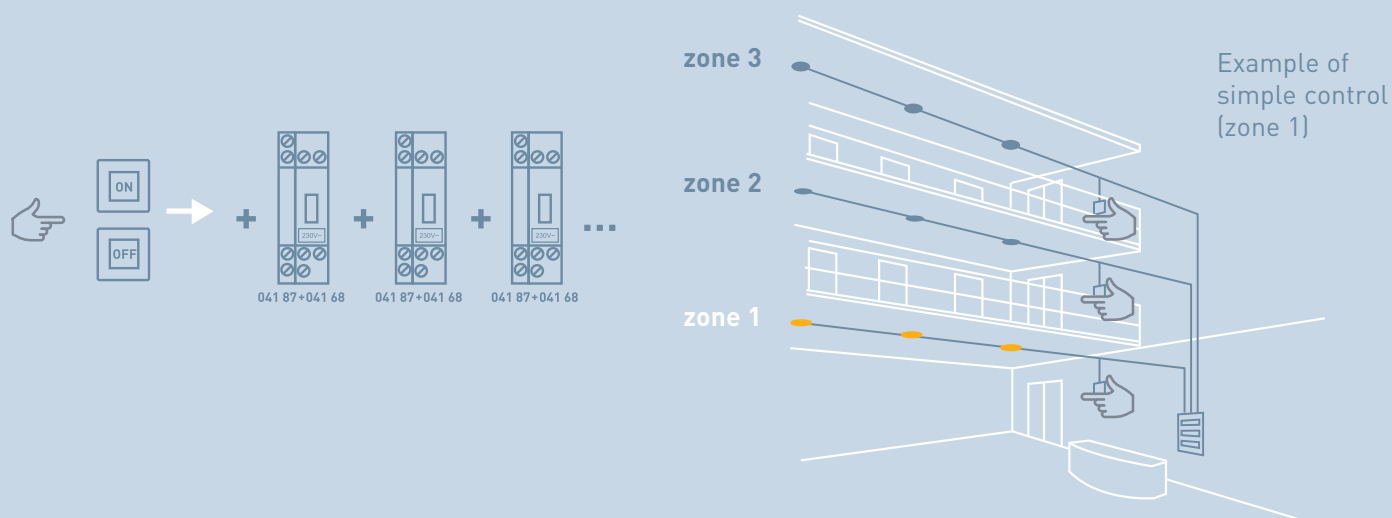


Centralised general control auxiliary



Ergonomic handle

1 Simple control principle (1 zone)

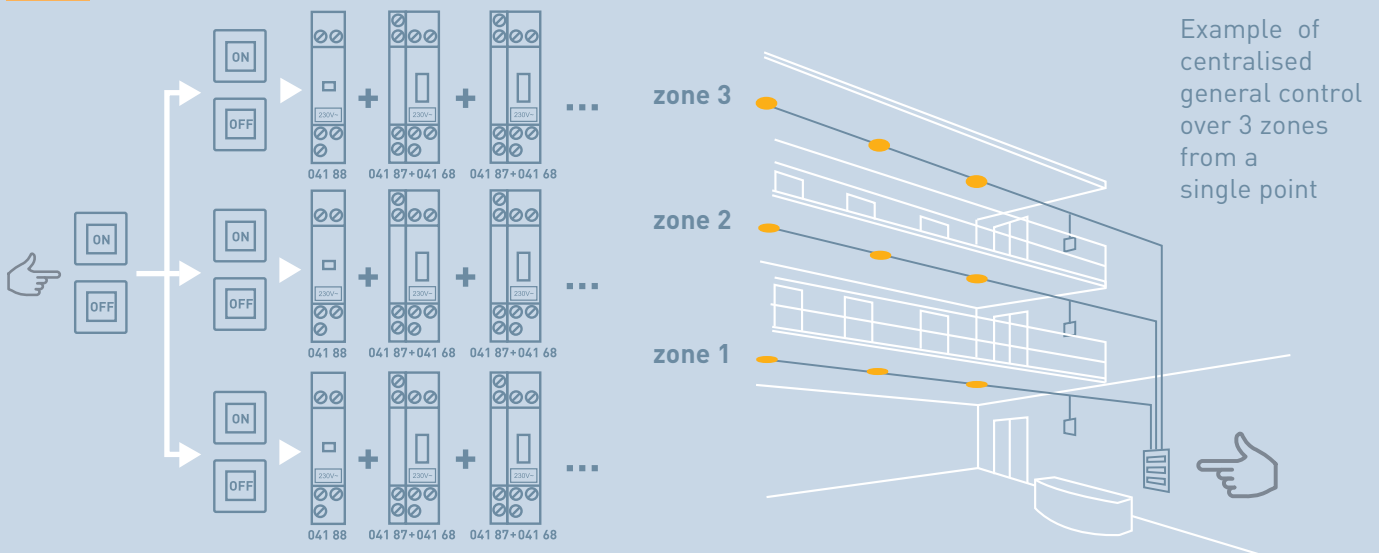


Pulse operating latching relays

Control voltage	In	Type of contacts	Cat. No	Signalling auxiliary	Auxiliary device for centralised control	Auxiliary device for general centralised control
12 V	16 A 250 V ~	1 N/O	041 60	041 85	041 86	
24 V		1 N/O	041 61			
48 V		2 N/O	041 65			
		2 N/O	041 66			
230 V	16 A 250 V ~	1 N/O	041 62	041 85	041 87	041 88
230 V		2 N/O	041 68			
	230 V	16 A 400 V ~	4 N/O			

Red catalogue numbers : New products

2 Centralised general control principle (several zones)



Optimum adaptability: 25 A contactors

The new range of 25 A Legrand power contactors maximises performance by increasing the maximum load power (number of lamps, motors, etc).

The new range is available in two versions: with or without handle, providing maximum flexibility and ease of use



Maximum load power



With or without visible handle

Power contactors without handle

Control voltage	I _{max}	Type of contacts	Cat. No	No of modules	Signalling auxiliary
24 V	16 A - 250 V ~	N/C + N/O	041 14	1	041 85
	25 A - 250 V ~	2 N/O	041 16	1	041 85
	25 A - 400 V ~	4 N/O	041 17	2	041 83
230 V ~	16 A - 250 V ~	N/C + N/O	041 26	1	041 85
	25 A - 250 V ~	2 N/O	041 49 ⁽¹⁾	1	041 85
		2 N/O	041 58	1	041 85
		2 N/C	041 29	1	041 85
	25 A - 400 V ~	4 N/O	041 31	2	041 83
		4 N/C	041 32	2	041 83
		2 N/O + 2 N/C	041 33	2	041 83
	63 A - 250 V ~	2 N/O	040 95	2	040 85
	63 A - 400 V ~	4 N/O	040 98	3	040 85
100 A - 400 V ~	4 N/O	040 99	6	035 45	

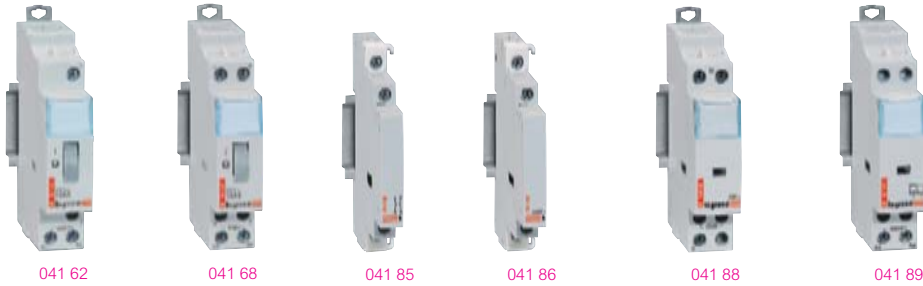
Power contactors with handle

Control voltage	I _{max}	Type of contacts	Cat. No	No of modules	Signalling auxiliary
24 V	25 A - 250 V ~	2 N/O	041 23	1	041 85
	25 A - 400 V ~	4 N/O	041 24	2	041 83
	40 A - 250 V ~	2 N/O	040 94	2	040 85
	40 A - 400 V ~	4 N/O	040 67	3	040 85
	63 A - 250 V ~	2 N/O	040 73	2	040 85
	63 A - 400 V ~	4 N/O	040 74	3	040 85
230 V ~	25 A - 250 V ~	2 N/O	041 47	1	041 85
	25 A - 400 V ~	4 N/O	041 48	2	041 83
	40 A - 250 V ~	2 N/O	040 68	2	040 85
	40 A - 400 V ~	3 N/O	040 69	3	040 85
		4 N/O	040 70	3	040 85
	63 A - 250 V ~	2 N/O	040 75	2	040 85
		2 N/C	040 76	2	040 85
	63 A - 400 V ~	3 N/O	040 77	3	040 85
		4 N/O	040 78	3	040 85
4 N/C		040 79	3	040 85	

(1) Low noise version

Red catalogue numbers : New products

pulse operated latching relays



Pack	Cat.Nos	Pulse operated latching relays				
		Conform to standard EN 60669-2-2 Maximum 2 auxiliary devices per latching relay				
		Single pole - 16 A - 250 V\sim				
		Control voltage	Type of contact	Connection	Number of modules	
1	041 60	12 V	1 N/O		1	
1	041 61	24 V	1 N/O			1
10	041 62	230 V	1 N/O			1
		2-pole - 16 A - 250 V\sim				
1	041 65	24 V	2 N/O		1	
1	041 66	48 V	2 N/O			1
1	041 68	230 V	2 N/O			1
		4-pole - 16 A - 400 V\sim				
1	041 71	Can be used for 3-pole assembly 230 V 4 N/O			2	

Pack	Cat.Nos	Compensator module	
		Used to control 230 V \sim - 50 Hz pulse operated latching relays via illuminated push-buttons without malfunctions Connects to the terminals of the pulse operated latching relay coil Compensation: - 1 compensator module for a total consumption of 3 to 6 mA (example: 6 to 11 illuminated push-buttons consuming 0.55 mA each) - 2 compensators modules for a total consumption of 6 to 9 mA (example: 12 to 17 illuminated push-buttons with consuming 0.5 mA each)	
1	041 89	Impedance compensator for 230 V \sim pulse operated latching relays	Number of modules 1

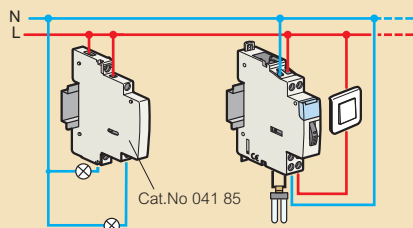
Pack	Cat.Nos	Signalling auxiliary			
		Fitted on left-hand side of latching relay (equipped or not with control auxiliary) Maximum 2 auxiliaries per latching relay Used to signal the status of the contacts on the associated product			
		Auxiliary changeover switch			
1	041 85	I max. 5 A	Voltage 250 V \sim	Contact N/C + N/O	Number of modules 0.5

Pack	Cat.Nos	Control auxiliary		
		Fitted on left-hand side of latching relay Maximum 1 control auxiliary per latching relay Compatible with signalling auxiliary Cat.No 041 85		
		Auxiliary device for centralized control		
		For a centralized control of different latching relays from one single point		
1	041 86	For latching relays 24 V \sim to 48 V \sim	Number of modules 0.5	
1	041 87	For latching relays 230 V \sim	0.5	
		Auxiliary device for general centralized control		
1	041 88	For simultaneous control of different groups of latching relays, already fitted with auxiliary device for centralised control 230 V \sim Cat.No 041 87		1
		Auxiliary device for maintained contact		
1	041 84	Allows the control of a latching relay via one maintained contact (i.e. time switches)		0.5

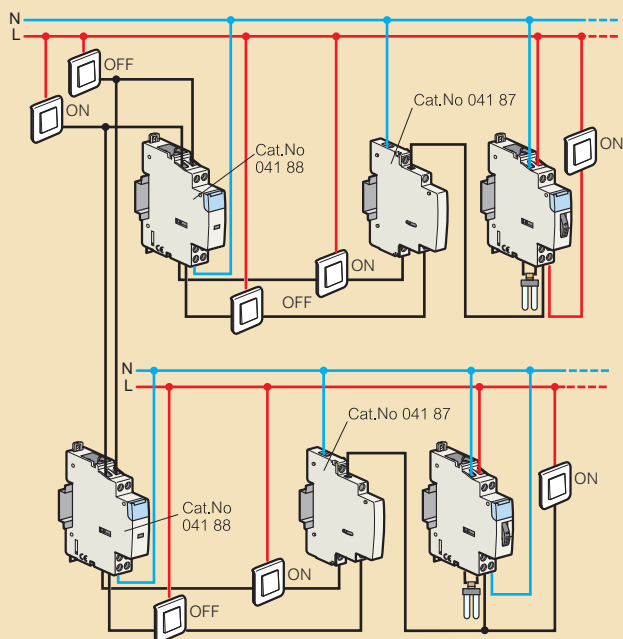
pulse operated latching relays

■ Schemas

Signalling with auxiliary Cat.No 041 85

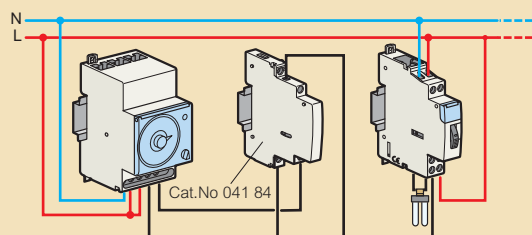


Centralized control at one point using auxiliary devices Cat.Nos 041 87 and 041 88



Use only non illuminated push-buttons

Control via maintained contact using auxiliary device Cat.No 041 84 and time switch



■ Technical characteristics

Power consumption

Control voltage	12 V~	24 V~	48 V~	230 V~	230 V~
Nominal current	16 A	16 A	16 A	16 A	16 A
Connection	1 N/O	1 N/O 2 N/O	2 N/O	1 N/O 2 N/O	4 N/O
Number of modules	1	1	1	1	2
Holding	720 mA	330 mA	200 mA	35 mA	65 mA
Inrush	2500 mA	1200 mA	700 mA	130 mA	250 mA

Connection cross section mm²

Type of conductors	Cross section
Rigid	1 x 6 mm ² or 2 x 2,5 mm ²
Flexible	1 x 6 mm ² or 2 x 2,5 mm ²
Flexible with single ferrule	6 mm ²
Flexible with double ferrule	1 x 6 mm ²

Cross reference list old range / new range

Old range Cat.No	New range Cat.No	Designation
040 00	041 60	16 A - 12 V - 1 N/O
040 05	041 61	16 A - 24 V - 1 N/O
040 15	041 62	16 A - 230 V - 1 N/O
040 06	041 65	16 A - 24 V - 2 N/O
040 11	041 66	16 A - 48 V - 2 N/O
040 16	041 68	16 A - 230 V - 2 N/O
040 19	041 71	16 A - 230 V - 4 N/O
040 85	041 85	Auxiliary changeover switch
040 86	041 86	Auxiliary devices for centralized control 24 V~ - 48 V~
040 87	041 87	Auxiliary devices for centralized control 230 V~
040 89	041 89	Compensation module
-	041 88	Auxiliary device for general centralized control
-	041 84	Auxiliary device for maintained contact

power contactors
from 16 A to 100 A



Conform to IEC/EN 61095
Space for power supply busbar on top (up to 25 A)

Power contactors with 24 V~ coil

Pack	Cat.Nos	Type of contact	Number of modules
1	041 14	2-pole - 250 V~ 16 A N/C + N/O	1
1	041 16	2-pole - 250 V~ 25 A 2 N/O	1
1	041 17	4-pole - 400 V~ 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

Pack	Cat.Nos	Type of contact	Number of modules
1	041 23	2-pole - 250 V~ 25 A 2 N/O	1
1	040 94 ⁽¹⁾	2-pole - 250 V~ 40 A 2 N/O	2
1	040 73 ⁽¹⁾	2-pole - 250 V~ 63 A 2 N/O	2
1	041 24	4-pole - 400 V~ 25 A 4 N/O	2
1	040 67 ⁽¹⁾	4-pole - 400 V~ 40 A 4 N/O	3
1	040 74 ⁽¹⁾	4-pole - 400 V~ 63 A 4 N/O	3

Low noise power contactors with 230 V~ coil

Pack	Cat.Nos	Type of contact	Number of modules
1	041 49	2-pole - 250 V~ 25 A 2 N/O	1

Power contactors with 230 V~ coil

Pack	Cat.Nos	Type of contact	Number of modules
4	041 26	2-pole - 250 V~ 16 A N/C + N/O	1
10	041 58	2-pole - 250 V~ 25 A 2 N/O	1

Power contactors with 230 V~ coil (continued)

Pack	Cat.Nos	Type of contact	Number of modules
1	041 29	2-pole - 250 V~ 25 A 2 N/C	1
1	040 95	2-pole - 250 V~ 63 A 2 N/O	2
5	041 31	4-pole - 400 V~ 25 A 4 N/O	2
1	041 32	4-pole - 400 V~ 25 A 4 N/C	2
1	041 33	2-pole - 250 V~ 25 A 2 N/O + 2 N/C	2
1	040 98	4-pole - 400 V~ 63 A 4 N/O	3
1	040 99	4-pole - 400 V~ 100 A 4 N/O	6

Power contactors with 230 V~ coil and handle

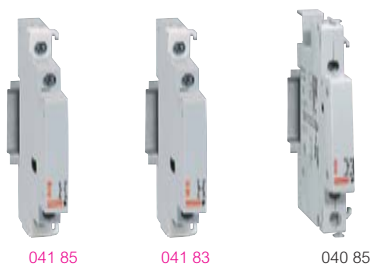
Manual override for test and repair function, carried out via the handle
Permanent "ON" or "OFF" without automatic closing of the contactor

Pack	Cat.Nos	Type of contact	Number of modules
4	041 47	2-pole - 250 V~ 25 A 2 N/O	1
1	040 68 ⁽¹⁾	2-pole - 250 V~ 40 A 2 N/O	2
1	040 75 ⁽¹⁾	2-pole - 250 V~ 63 A 2 N/O	2
1	040 76 ⁽¹⁾	2-pole - 250 V~ 63 A 2 N/C	2
1	040 69 ⁽¹⁾	3-pole - 400 V~ 40 A 3 N/O	3
1	040 77 ⁽¹⁾	3-pole - 400 V~ 63 A 3 N/O	3
2	041 48	4-pole - 400 V~ 25 A 4 N/O	2
1	040 70 ⁽¹⁾	4-pole - 400 V~ 40 A 4 N/O	3
1	040 78 ⁽¹⁾	4-pole - 400 V~ 63 A 4 N/O	3
1	040 79	4-pole - 400 V~ 63 A 4 N/C	3

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

power contactors

from 16 A to 100 A (continued)



Pack	Cat.Nos	Signalling auxiliaries for contactors				
1	041 85	<p>Auxiliary changeover switch Used to signal the position status of the contacts on the product to which it is connected</p> <p>For 1 module contactors 16 A to 25 A Maximum 2 auxiliary devices per contactor Fitted on left-hand side of contactor</p> <table border="1"> <tr> <td>I max. 5 A</td> <td>Voltage 250 V\sim</td> <td>Changeover switch N/C + N/O</td> <td>Number of modules 0.5</td> </tr> </table>	I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5
I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5			
1	041 83	<p>For 2 module contactors 25 A Maximum 2 auxiliary devices per contactor Fitted on left-hand side of contactor</p> <table border="1"> <tr> <td>I max. 5 A</td> <td>Voltage 250 V\sim</td> <td>Changeover switch N/C + N/O</td> <td>Number of modules 0.5</td> </tr> </table>	I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5
I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5			
1	040 85	<p>For 40 and 63 A contactors Maximum 1 auxiliary device per contactor Fitted on left-hand side of contactor</p> <table border="1"> <tr> <td>I max. 5 A</td> <td>Voltage 250 V\sim</td> <td>Changeover switch N/C + N/O</td> <td>Number of modules 0.5</td> </tr> </table>	I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5
I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5			
1	035 45	<p>For 100 A contactors Maximum 1 auxiliary device per contactor Fitted on right-hand side of contactor</p> <table border="1"> <tr> <td>I max. 5 A</td> <td>Voltage 250 V\sim</td> <td>Changeover switch N/C + N/O</td> <td>Number of modules 0.5</td> </tr> </table>	I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5
I max. 5 A	Voltage 250 V \sim	Changeover switch N/C + N/O	Number of modules 0.5			

power contactors

from 16 A to 100 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
- ≤ 100 A for 100 A rating

Control coil consumption

Control voltage	Power contactors 16 A and 25 A				
	24 V \sim		230 V \sim low noise	230 V \sim	
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

Control voltage	Power contactors 40 A, 63 A and 100 A				
	24 V \sim		230 V \sim		
Nominal current	40 and 63 A	40 and 63 A	40 and 63 A	40 and 63 A	100 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	4 N/O
Number of modules	2	3	2	3	6
Holding	250 mA	270 mA	15 mA	30 mA	60 mA
Inrush	1750 mA	1500 mA	150 mA	200 mA	460 mA

Recommendations

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

Contactors 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	Ratings 100 A
Rigid	1 x 6 ² or 2 x 2.5 ²	1 x 25 ² or 2 x 10 ²	50 ²
Flexible	1 x 6 ² or 2 x 2.5 ²	1 x 25 ² or 2 x 10 ²	2 x 35 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



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