

# N.O. / N.C. main poles combination NOR contactors



## Description

NOR contactors are built with a combination of N.O. and N.C. poles:

- AC switching: NOR..MT up to 690 V AC
  - DC switching: NOR..CC up to 1500 V DC in standard.
  - For low current breaking, permanent magnet must be added.
- 2 NO + 2 NC auxiliary contacts are fitted as standard. For additional auxiliary contacts refer to “Auxiliary contact fitting details.”

## Example of use :

Change-over contactor with 2 N.C. poles + 2 N.O. poles.

## Block diagrams

These contactors are suitable for controlling 2 separate circuits, i.e. 2 loads with 2 separate supplies, or 1 circuit including 2 separate loads with a single supply (diagrams on left column).

When the contactor operates there is no mechanical overlapping between the N.O. poles and the N.C. poles: BREAK before MAKE operation.

These contactors are not suitable for a reversing starter or star-delta starter, or for controlling a single load from 2 separate supplies.



## Operation

The N.O. and N.C. poles are set-up without any mechanical overlap:

- as the electro-magnet closes, the N.C. pole(s) BREAK before the N.O. pole(s) MAKE
- as the electro-magnet opens, the N.O. pole(s) BREAK before the N.C. pole(s) MAKE.

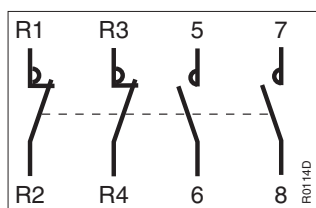
The breaking and making capacities of the N.C. poles are identical to those of the N.O. poles.

## Other variants

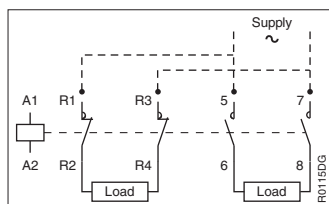
Please consult us for :

- NOR..AMA and NOR..AME with latching
- JOR types: version with overlapping between N.O. and N.C. main poles.

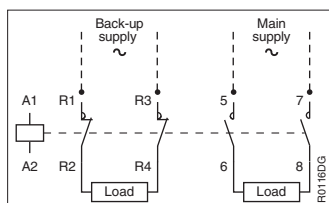
5



2 N.C. poles + 2 N.O. poles



Single supply and 2 separate loads



2 separate supplies and 2 separate loads

# NORR, NORE, NORR..CC and NORE..CC contactors

## Power circuit up to 1500 V DC

## Control circuit 120V 50/60 Hz



NORR125-02-CC

### Description

NORR..CC and NORE..CC contactors with N.O. and N.C. main poles are used for controlling DC power circuits up to 1500 V DC. NORR and NORE400 up to 440 V DC.

These contactors are designed with:

- variable number of poles according to the application
- control circuit: AC or DC operated
- 2 NO + 2 NC auxiliary contacts available, as standard.

### AC operated

IEC		Rated operational current		voltage (3)		Number of poles (4)		Rated control circuit voltage U <sub>c</sub> (1)	Auxiliary contacts fitted (2)	Type	Order code	Weight
A	A	DC-1	DC-3 DC-5	V DC	V DC			V 50/60 Hz				pkg (1 pce)
63	63			-	500	0	1	120V	2 2	NORR63-01-CC	FPL7146116R2113	3.2
				-	1000	0	2		2 2	NORR63-02-CC	FPL7146216R2113	4.2
				1000	500	2	1		2 2	NORR63-21-CC	FPL7146516R2113	3.9
				1000	500	3	1		2 2	NORR63-31-CC	FPL7146716R2113	4.9
125	125			-	500	0	1	120V	2 2	NORR125-01-CC	FPL7446115R2113	4.2
				-	1000	0	2		2 2	NORR125-02-CC	FPL7446215R2113	6.2
				1000	500	2	1		2 2	NORR125-21-CC	FPL7446515R2113	8.2
				1000	500	3	1		2 2	NORR125-31-CC	FPL7446715R2113	9
200	200			-	500	0	1	120V	2 2	NORR200-01-CC	FPL7646115R2113	6.6
				-	1000	0	2		2 2	NORR200-02-CC	FPL7646215R2113	9.6
				1000	500	2	1		2 2	NORR200-21-CC	FPL7646515R2113	10
				1000	500	3	1		2 2	NORR200-31-CC	FPL7646715R2113	12.2
315	315			-	220	0	1	120V	2 2	NORR400-01	FPL9445115R2113	9
				-	440	0	2		2 2	NORR400-02	FPL9445215R2113	12
				440	220	2	1		2 2	NORR400-21	FPL9445515R2113	15
				440	220	3	1		2 2	NORR400-31	FPL9445715R2113	18
800	720			-	500	0	1	120V	2 2	NORR800-01-CC	FPL8646115R2113	28.6
				-	1000	0	2		2 2	NORR800-02-CC	FPL8646215R2113	40
				1000	500	2	1		2 2	NORR800-21-CC	FPL8646515R2113	51
				1500	500	3	1		2 2	NORR800-31-CC	FPL8646715R2113	62

(1) Other control voltages, please consult us.

(2) Other auxiliary contact arrangements, please consult us.

(3) Please consult us for power circuit above:

- 1000 V DC for ratings 63...500 A
- 1500 V DC for ratings 800 A.

(4) Other main pole combinations, please consult us.