

# 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.

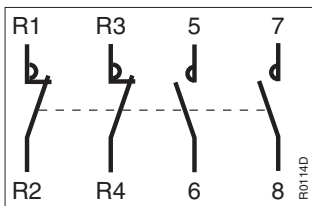
The breaking and making capacities of the N.C. poles are identical to those of the N.O. poles.

## Other variants

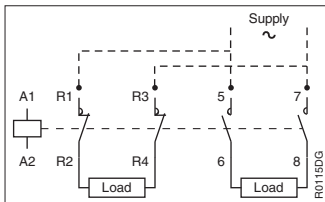
Please consult us for :

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

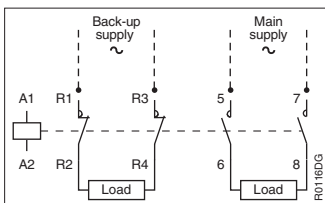
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2 N.C. poles + 2 N.O. poles



Single supply and 2 separate loads



2 separate supplies and 2 separate loads

# NORR, NORE, NORR..MT and NORE..MT contactors

## Power circuit up to 690 V AC

## Control circuit 120V 50/60 Hz



NORR125-02-MT

### Description

NORR..MT and NORE..MT contactors with N.O. and N.C. main poles are used for controlling AC power circuits up to 690 V AC.

NORR400 ... NORR800 and NORE400 ... NORE800 contactors with N.O. and N.C. main poles are used for controlling AC power circuits up to 500 V AC.

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 $\theta \leq 40^\circ\text{C}$ AC-1 A	voltage (3) V AC	Number of poles (4) 	Rated control circuit voltage $U_c$ (1) V 50/60 Hz	Auxiliary contacts fitted (2) 	Type	Order code	Weight pkg (1 pce) kg
63	690	0 2 2 1 3 1	120V	2 2 2 2 2 2	NORR63-02-MT NORR63-21-MT NORR63-31-MT	FPL7155216R2113 FPL7155516R2113 FPL7155716R2113	4.2 3.9 4.9
125	690	0 2 2 1 3 1	120V	2 2 2 2 2 2	NORR125-02-MT NORR125-21-MT NORR125-31-MT	FPL7455215R2113 FPL7455515R2113 FPL7455715R2113	6.2 8.2 9
200	690	0 2 2 1 3 1	120V	2 2 2 2 2 2	NORR200-02-MT NORR200-21-MT NORR200-31-MT	FPL7655215R2113 FPL7655515R2113 FPL7655715R2113	9.6 10 12.2
315	500	0 2 2 1 3 1	120V	2 2 2 2 2 2	NORR400-02 NORR400-21 NORR400-31	FPL9445215R2113 FPL9445515R2113 FPL9445715R2113	12 15 18
800	500	0 2 2 1 3 1	120V	2 2 2 2 2 2	NORR800-02 NORR800-21 NORR800-31	FPL8645215R2113 FPL8645515R2113 FPL8645715R2113	38 48 58
	690	0 2 2 1 3 1	120V	2 2 2 2 2 2	NORR800-02-MT NORR800-21-MT NORR800-31-MT	FPL8655215R2113 FPL8655515R2113 FPL8655715R2113	40 51 62

(1) Other control voltages, please consult us.

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

(3) Power circuit above 690 V AC, please consult us.

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