NQ2 Direct On-line Starter

1. General

1.1 NQ2 series electromagnetic starter ("starter" for short hereinafter) applies mainly to circuit with AC current of 50Hz (or 60Hz), rated operational voltage of 660V and rated controlled power up to 33kW (current up to 68A) for using to control the direct start and halt of the electromotor to protect the motor from overload and phase failure.

1.2 The starter conforms to standards IEC/EN60947-4-1

2. Type designation

N Q 2-□ □ /□

- Rated control power code (AC-3, 380V): 1~4
- Structure code:
  Blank: non- reversing type without pushbutton
  P: with pushbutton
  N: reversing type
  NB: reversing type without thermal relay
- Frame level power code
- Design sequence No.
- Starter
- Company code

D

3. Technical data

3.1 NQ2-15, 33

Model	Conventional heating current Ith (A)	Rated operational current Ie (A)	Rated power (AC-3) (kW)			Model of matched contactor	Model of matched relay	Range of setting current (A)
			660V	380V	220V			
NQ2-15/1	13	12	7.5	5.5	3	NC1-1210	NR2-25	0.1~0.16 0.16~0.25 0.25~0.4 0.4~0.63 0.63~1 1~1.6 1.25~2 1.6~2.5 2.5~4 4~6 5.5~8 7~10 9~13
NQ2-15/2	18	18	10	7.5	4	NC1-1810		12~18
NQ2-15/3	25	25	15	11	5.5	NC1-2510		17~25
NQ2-15/4	36	32	18.5	15	7.5	NC1-3210	NR2-36	23~32 28~36
NQ2-33/1	52	52	33	25	15	NC1-6511	NR2-93	23~32 30~40 37~50 48~65
NQ2-33/2	68	68	37	33	25	NC1-9511		55~70 63~80

3.2 NQ2-15P, 33P

Model	Conventional heating current Ith (A)	Rated operational current Ie (A)	Rated power (AC-3) (kW)			Model of matched contactor	Model of matched relay	Model of matched pushbutton	Range of setting current (A)
			660V	380V	220V				
NQ2-15P/1	13	12	7.5	5.5	3	NC1-1210	NR2-25	Start: NP2-EA31 Stop: NP2-EA42	0.1~0.16 0.16~0.25 0.25~0.4 0.4~0.63 0.63~1 1~1.6 1.25~2 1.6~2.5 2.5~4 4~6 5.5~8 7~10
NQ2-15P/2	18	18	10	7.5	4	NC1-1810			9~13 12~18
NQ2-15P/3	25	25	15	11	5.5	NC1-2510			17~25
NQ2-15P/4	36	32	18.5	15	7.5	NC1-3210	NR2-36		23~32 28~36
NQ2-33P/1	52	52	33	25	15	NC1-6511	NR2-93		23~32 30~40 37~50 48~65
NQ2-33P/2	68	68	37	33	25	NC1-9511			55~70 63~80

3.3 NQ2-15 N

Model	Conventional heating current Ith (A)	Rated operational current Ie (A)	Rated power (AC-3) (kW)			Model of matched contactor	Model of matched relay	Range of setting current (A)
			660V	380V	220V			
NQ2-15N/1	13	12	7.5	5.5	3	NC1-1210	NR2-25	0.1~0.16
								0.16~0.25
								0.25~0.4
								0.4~0.63
								0.63~1
								1~1.6
								1.25~2
								1.6~2.5
								2.5~4
								4~6
								5.5~8
								7~10
								9~13
NQ2-15N/2	18	18	10	7.5	4	NC1-1810		12~18
NQ2-15N/3	25	25	15	11	5.5	NC1-2510		17~25
NQ2-15N/4	36	32	18.5	15	7.5	NC1-3210	NR2-36	23~32
								28~36

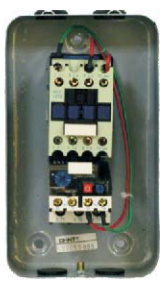
3.4 NQ2-15NB

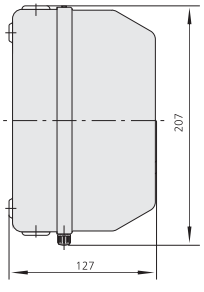
Model	Conventional heating current Ith (A)	Rated operational current Ie (A)	Rated power (AC-3) (kW)			Model of matched contactor
			660V	380V	220V	
NQ2-15NB/1	13	12	7.5	5.5	3	NC1-1201N
NQ2-15NB/2	18	18	10	7.5	4	NC1-1801N
NQ2-15NB/3	25	25	15	11	5.5	NC1-2501N
NQ2-15NB/4	36	32	18.5	15	7.5	NC1-3201N

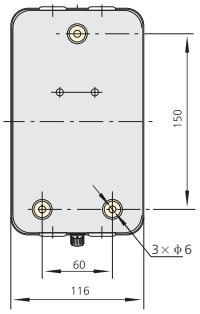
Altitude: not exceeding 2000m; Temperature of ambient air: -5℃～+40℃
Rated control supply voltage (AC 50Hz): 24V, 36V, 48V, 110V, 127V, 220V, 380V, 415V
Mechanical life: 1,000,000 circles; Electric life: 500,000 circles; IP40

4. Overall and mounting dimensions (mm)

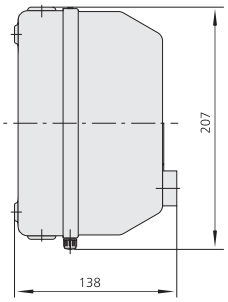
NQ2-15

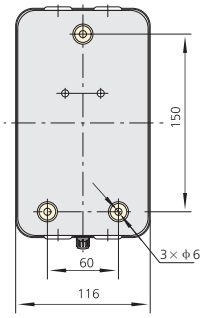




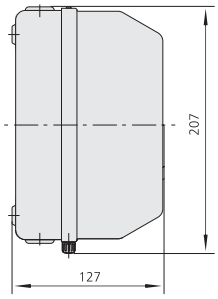


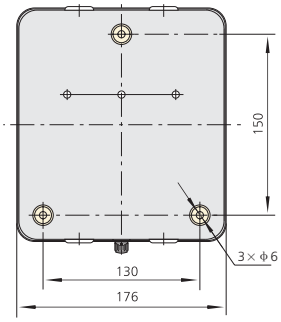
NQ2-15P



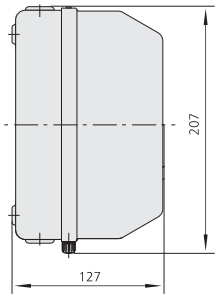


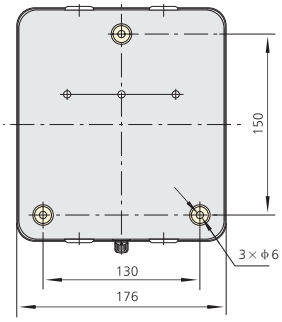
NQ2-15N



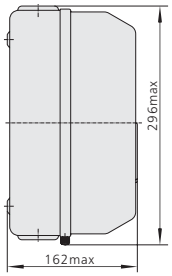


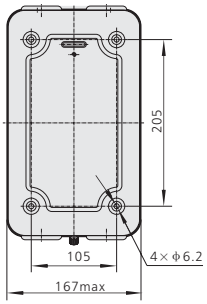
NQ2-15NB



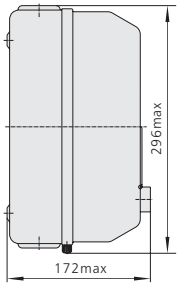


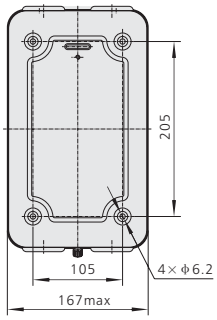
NQ2-33





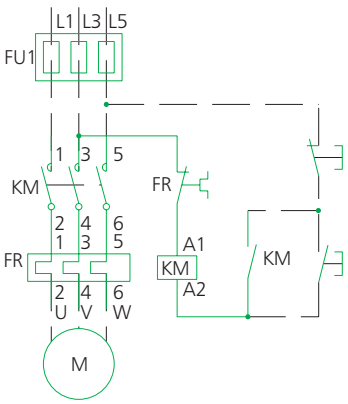
NQ2-33P



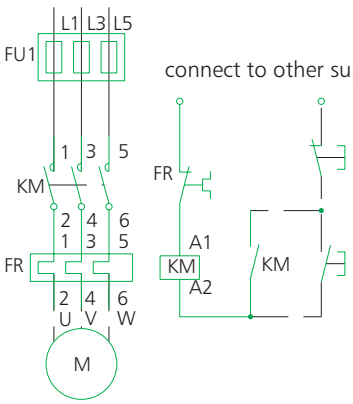


D

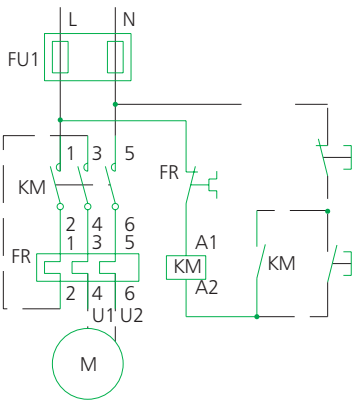
5. Wiring Diagram



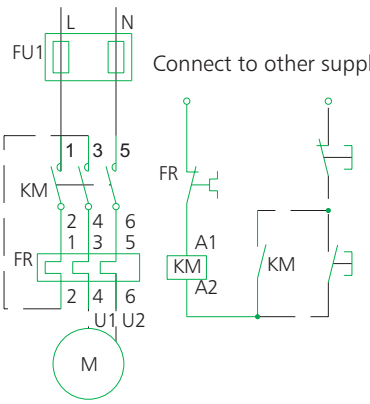
Control supply voltage is as the same as the main circuit voltage (three-phrase)



Control supply voltage is not as the same as the main circuit voltage (three-phrase)



Control supply voltage is as the same as the main circuit voltage (single-phrase)



Control supply voltage is not as the same as the main circuit voltage (single-phrase)