



NCH8 Modular AC Contactor

1. General

- 1.1 Electric ratings: up to 20A, 25A, 40A, 63A, 230V, 400V AC50/60Hz;
- 1.2 Utilization category: AC-1, AC-7a, AC-7b;
- 1.3 Standard: IEC/EN 61095

2. Features

- 2.1 Compact design and modularization design;
- 2.2 Insulation material with excellent performances has been adopted to enhance the operation security to a great extent;
- 2.3 Elegant appearance. A mounting instruction diagram is appended for convenient operation;
- 2.4 No noise during operation.

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3. Technical data

3.1 Ratings

| Model | Utilization category | U _i (V) | U _e (V~) | Conventional heating current (A) | I _e (A) | Controlled power (kW) |
|---------|----------------------|--------------------|---------------------|----------------------------------|--------------------|-----------------------|
| NCH8-20 | AC-1, AC-7a | 500 | 230 | 20 | 20 | 4 |
| NCH8-20 | AC-7b | 500 | 230 | 20 | 9 | 1.2 |
| NCH8-25 | AC-1, AC-7a | 500 | 400 | 25 | 25 | 16 |
| NCH8-40 | AC-1, AC-7a | 500 | 400 | 40 | 40 | 40 |
| NCH8-63 | AC-1, AC-7a | 500 | 400 | 63 | 63 | 40 |

3.2 Making and breaking capacity

| Model | Utilization category | Making and breaking conditions | | | Electrification time (s) | Interval time (s) | Operating cycle times |
|---------|----------------------|--------------------------------|--------------------------------|-------|--------------------------|-------------------|-----------------------|
| | | I _c /I _e | U _r /U _e | COS φ | | | |
| NCH8-20 | AC-1, AC-7a | 1.5 | 1.05 | 0.8 | 0.05 | 10 | 50 |
| NCH8-20 | AC-7b | 8 | 1.05 | 0.45 | 0.05 | 10 | 50 |
| NCH8-25 | AC-1, AC-7a | 1.5 | 1.05 | 0.8 | 0.05 | 10 | 50 |
| NCH8-40 | AC-1, AC-7a | 1.5 | 1.05 | 0.8 | 0.05 | 10 | 50 |
| NCH8-63 | AC-1, AC-7a | 1.5 | 1.05 | 0.8 | 0.05 | 10 | 50 |

3.3 Conventional Operating Performances

3.3.1 Conventional operating performances of NCH8-20~25

| Utilization category | Making conditions | | | Breaking conditions | | | Electrification time (s) | Interval time (s) | Operating frequency |
|----------------------|-------------------|------------------|-------|--------------------------------|--------------------------------|-------|--------------------------|-------------------|---------------------|
| | I/I _e | U/U _e | COS φ | I _c /I _e | U _r /U _e | COS φ | | | |
| AC-1 | 1.0 | 1.05 | 0.8 | 1.0 | 1.05 | 0.8 | 0.05 | 10 | 6000 |
| AC-7a | 1.0 | 1.05 | 0.8 | 1.0 | 1.05 | 0.8 | 0.05 | 10 | 30000 |
| AC-7b | 6.0 | 1.0 | 0.45 | 1.0 | 0.17 | 0.45 | 0.05 | 10 | 30000 |

3.3.2 Conventional operating performances of NCH8-40~63

| Utilization category | Making and breaking conditions | | | Electrification time (s) | Interval time (s) | Operating frequency |
|----------------------|--------------------------------|--------------------------------|-------|--------------------------|-------------------|---------------------|
| | I _c /I _e | U _r /U _e | COS φ | | | |
| AC-1 | 1.0 | 1.05 | 0.8 | 0.05 | 10 | 6000 |
| AC-7a | 1.0 | 1.05 | 0.8 | 0.05 | 10 | 30000 |

3.4 Conventional heating current under different ambient temperature

| Rated current | 40°C | 50°C | 60°C | 70°C |
|---------------------|------|------|------|------|
| I _e =20A | 20A | 18A | 16A | 14A |
| I _e =25A | 25A | 22A | 18A | 16A |
| I _e =40A | 40A | 38A | 36A | 32A |
| I _e =63A | 63A | 57A | 50A | 46A |

3.5 Number of appended lamps with voltage up to 230V

| Unit power | Tungsten filament and halogen 230V | | | | | |
|------------|------------------------------------|------|------|------|------|-------|
| | 60W | 100W | 200W | 300W | 500W | 1000W |
| 20A | 20 | 12 | 6 | 4 | 2 | 1 |
| 25A | 36 | 20 | 11 | 7 | 4 | 2 |
| 40A | 85 | 50 | 25 | 17 | 10 | 5 |
| 63A | 115 | 70 | 35 | 23 | 14 | 7 |

4. Overall and mounting dimensions (mm)



| Model | D | | L | L1 | L2 | H | H1 | H2 |
|------------|----|----|----|------|----|------|----|----|
| | 2P | 4P | | | | | | |
| NCH8-20~25 | 18 | 36 | 85 | 35.5 | 45 | 65.5 | 60 | 44 |
| NCH8-40~36 | 36 | 54 | 85 | 35.5 | 45 | 65.5 | 60 | 44 |

5. Ordering information

| Model | Number of contact | Coil voltage |
|----------------|-------------------|------------------|
| NCH8-20 | 2NO | 230V 50Hz |
| NCH8-20 | 2NO | 24V 50Hz |
| NCH8-20 | 1NO+1NC | 220/230V |
| NCH8-20 | 1NO+1NC | 24V 50Hz |
| NCH8-20 | 2NC | 220/230V |
| NCH8-20 | 2NC | 24V 50Hz |
| NCH8-20 | 4NO | 220/230V |
| NCH8-20 | 4NO | 24V 50Hz |
| NCH8-20 | 2NO+2NC | 220/230V |
| NCH8-20 | 2NO+2NC | 24V 50Hz |
| NCH8-25 | 4NO | 220/230V |
| NCH8-25 | 4NO | 24V 50Hz |
| NCH8-25 | 2NO+2NC | 220/230V |
| NCH8-25 | 2NO+2NC | 24V 50Hz |
| NCH8-40 | 4NO | 230V |
| NCH8-40 | 4NO | 24V |
| NCH8-40 | 2NO | 230V |
| NCH8-40 | 2NO | 24V |
| NCH8-40 | 1NO+1NC | 230V |
| NCH8-40 | 1NO+1NC | 24V |
| NCH8-63 | 4NO | 230V 50Hz |
| NCH8-63 | 4NO | 24V 50Hz |
| NCH8-63 | 2NO | 230V 50Hz |
| NCH8-63 | 2NO | 24V 50Hz |
| NCH8-63 | 1NO+1NC | 230V/50Hz |
| NCH8-63 | 1NO+1NC | 24V 50Hz |

