

RADE KONCAR CONTACTOR CNM170 170A/90kW (AC3, 400V/50Hz); 200A(AC1)

| Contactor type |  |  | CNM 170 |
| :---: | :---: | :---: | :---: |
| Mechanical endurance | make/brake operations | $\times 10^{6}$ | 3 |
| Insulation rating |  | V | 1000 |
| Permissible ambient te | erature | ${ }^{\circ} \mathrm{C}$ | from -25 to +55 |
| Consumption of electromagnet in cold state with Un |  |  |  |
| AC operated | closing | VA | 580 |
|  | P.F. |  | 0,45 |
|  | closed | VA | 44 |
|  | P.F. |  | 0,24 |
| DC operated | closing | W | 550 |
|  | closed | W | 5 |
| Coil voltage tolerances |  |  | 0.85-1.1Un |
| duration of making and breaking (values are also valid for voltages of electromagnet from 0.8 to 1.1 Un for each in cold and warm state). <br> Total breaking time is addition of opening time and duration of electric arc. |  |  |  |
|  |  |  |  |
|  |  |  |  |
| AC operated | closing time | ms | 20 to 50 |
|  | opening time | ms | 10 to 30 |
|  | duration of electric arc | ms | 10 to 15 |
| DC operated | closing time | ms | 20 to 50 |
|  | opening time | ms | 22 to 35 |
|  | duration of electric arc | ms | 10 to 15 |
| Frequency of switching operations without thermal reley |  |  |  |
| utiliza | category AC1 | $\mathrm{s} / \mathrm{h}$ | 1000 |
|  | AC2, AC3 | s/h | 500 |
|  | AC4 | s/h | 250 |
| with thermal relay |  | $\mathrm{s} / \mathrm{h}$ | 15 |
|  |  |  | 10/5.5 |
| Resistivity to shocks | (square shock) | $\mathrm{g} / \mathrm{ms}$ | and $5 / 12$ |
| Short-circuit protection contactors without overload relays |  |  |  |
|  |  |  |  |
| Main circuit |  |  |  |
| With fuse links |  |  |  |
| acc. To IEC 60947-4-1 | Type of coord. "1" gl/gG | A | 315 |
| DIN VDE 0660 Part 102 | Type of coord. "2" | A | 160 |
| Sizes of connection conductors |  |  |  |
| for contact without thermal relay |  |  |  |
| main circuit | Rigid solid | $\mathrm{mm}^{2}$ |  |
|  | standed | $\mathrm{mm}^{2}$ | - |
|  | multi-wire conductor with cable shoe | $\mathrm{mm}^{2}$ | - |
|  | standed with cable lug | $\mathrm{mm}^{2}$ | 25-70 |
|  |  |  | 50-120 |
|  | flatbar | mm | 15x3 |
|  |  |  | 20x3 |
|  | protective conductor with cable lug | $\mathrm{mm}^{2}$ | 25-70 |
|  | Screw |  | M8 |
|  | Screw head |  |  |
|  | Tightening torque | Nm | 3.5 |
| auxiliary circuit |  |  |  |
|  | single-wire conductor | $\mathrm{mm}^{2}$ | 1-2.5 |
|  | multi-wire conductor with cable shoe | $\mathrm{mm}^{2}$ | 0.75-1.5 |
|  | Screw |  | M3.5 |



| A | 200 |
| :---: | :---: |
| A | 200 |
| A | 200 |
| A | 200 |
| A | 11,5 |
| A | 4 |

utilization categories DC3 to DC5
series and shunt motors ( $\mathrm{L} / \mathrm{R} \leq 15 \mathrm{~ms}$ )

| rated operational current le $55^{\circ} \mathrm{C}$ |  |  |  |
| :--- | ---: | :--- | ---: |
| through one pole | for 24 V | A | 16 |
|  | 60 V | A | 7,5 |
|  | 110 V | A | 2,5 |
|  | 220 V | A | 0,6 |
| through three poles connected in series | 440 V | A | 0,17 |
|  | 600 V | A | 0,12 |
|  |  |  | A |

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