

## RADE KONCAR CONTACTOR CNN9 9A/4.5kW (AC3, 400V/50Hz); 25A(AC1)

| Contactor type  |  | 406              | CNN 9               |
|---|--|------------------|---------------------|
| Mechanical endurance nsulation rating   | make/brake operations                          | x10 <sup>6</sup> | 5<br>690            |
|   | n a vatura                                     | °C               | from -25 to +55     |
| Permissible ambient tem   | nagnet in cold state with Un                   | C                | 110111 -25 10 +55   |
| AC operated   | closing  | VA               | 62                  |
| 710 operated  | P.F.   | V/1              | 0,75                |
|   | closed   | VA               | 7                   |
|   | P.F.   |                  | 0,3                 |
| DC operated   | closing  | W                | -                   |
|   | closed   | W                | -                   |
| Coil voltage tolerances   |  |                  | 0.85-1.1Un          |
| 0.8 to 1.1 Un for each in c   | oltages of electromagnet from                  |                  |                     |
| AC aparatad   | aloging time                                   | ma               | 12 to 22            |
| AC operated   | closing time opening time                      | ms<br>ms         | 12 to 22<br>4 to 19 |
|   | duration of electric arc                       | ms               | 10                  |
| Frequency of switching without thermal reley                                      |  | mo               | 10                  |
| _   | on category AC1                                | s/h              | 1000                |
|   | AC2, AC3                                       | s/h              | 750                 |
|   | AC4  | s/h              | 250                 |
| vith thermal relay  |  | s/h              | 15                  |
|   |  |                  | 7/5                 |
| Resistivity to shocks   | (square shock)                                 | g/ms             | and<br>4.2/10       |
| Main circuit<br>With fuse links<br>acc. To IEC 60947-4-1<br>DIN VDE 0660 Part 102 | Type of coord. "1" gl/gG<br>Type of coord. "2" | A<br>A           | 25<br>20            |
| Sizes of connection con   |  |                  |                     |
| or contact without therma   | relay  |                  |                     |
| nain circuit  | single-wire conductors                         | mm <sup>2</sup>  | 1.5-6               |
|   | multi-wire conductir with cable shoe           | mm <sup>2</sup>  | 1.5-6               |
|   | Screw  |                  | M4                  |
|   | Screw head                                     |                  | PZ2                 |
|   | Tightening torque                              | Nm               | 1,2                 |
| uxiliary circuit  |  | 2                | 4.0.5               |
|   | single-wire conductor                          | mm <sup>2</sup>  | 1-2.5               |
|   | multi-wire conductor with cable shoe           | mm <sup>2</sup>  | 0.75-1.5            |
|   | Screw  |                  | M3.5                |
|   | Screw head Tightening torque                   | Nm               | PZ2<br>0.8          |
| oadability of auxiliary o   |  | INIII            | 0,0                 |
| Reated continuous current   |  | А                | 10                  |
| rated operational current le/AC15 for 24V   |  | A                | 6                   |
|   | 230V   | A                | 6                   |
|   | 400V   | A                | 4                   |
|   | 500V   | A                | 2                   |
|   | 690V   | A                | 1                   |
| rated operational current le  |  | A                | 4                   |
|   | 110V   | A<br>A           | 0,6<br>0,3          |
|   | 230V   |                  |                     |

| rated continuus current ith  |          |    |      |
|--|----------|----|------|
| AC1 utilization category   |          | A  | 25   |
| rated operational current le/AC1   |          | A  | 25   |
| AC2 and AC3 utilization categories   | for 230V | kW | 3,2  |
| (slip-ring and cage motors at 50Hz)  | 400V     | kW | 4,5  |
|  | 690V     | kW | 5,5  |
| AC4 utilization category   |          |    | _    |
| (electrical endurance of contacts:120.000  |          |    |      |
| rated curent   | le/AC4   | A  | 4,5  |
| ratings of squirrel-cage motors at 50Hz  | for 230V | kW | 0,75 |
|  | 400V     | kW | 1,9  |
|  | 500V     | kW | 1,9  |
|  | 690V     | kW | 1,5  |
| Loadability by direct current  |          |    |      |
| DC1 utilization category, non-inductive loads  | L/R1 ms  |    |      |
| rated operational current le   | for 24V  | A  | 20   |
| through one pole   | 48V      | A  | 20   |
|  | 110V     | A  | 2,1  |
|  | 220V     | A  | 0,8  |
|  | 440V     | A  | 0,6  |
|  | 600V     | A  | 0,6  |
| through three poles connected in series  | for 24V  | A  | 20   |
|  | 48V      | A  | 20   |
|  | 110V     | A  | 20   |
|  | 220V     | A  | 20   |
|  | 440V     | A  | 1,3  |
|  | 600V     | A  | 1    |
| utilization category DC3 to DC5  |          |    |      |
| series and shunt motors (L/R15 ms)   |          |    |      |
|  |          |    |      |
| rated operational current le   | for 24V  | A  | 20   |
| through one pole   | 48V      | A  | 5    |
|  | 110V     | A  | 1,5  |
|  | 220V     | A  | 0,75 |
|  | 440V     | A  | -    |
| diament the control of the control o | 600V     | A  | -    |
| through three poles connected in series  | for 24V  | A  | 20   |
|  | 48V      | A  | 20   |
|  | 110V     | A  | 20   |
|  | 220V     | A  | 1,5  |
|  | 440V     | A  | 0,2  |
|  | 600V     | A  | 0,2  |

