## DATASHEET - DILM170(RAC24)

Part no.



Contactor, 3 pole, 380 V 400 V 90 kW, RAC 24: 24 V 50/60 Hz, AC operation, Screw terminals

DILM170(RAC24)



| EL Number<br>(Norway)                  | DILM170(RAC24)<br>107010<br>4130422 |   |
|--|-------------------------------------|---|
| General specifications                 |                                     |   |
| Product name                           |                                     | Eaton Moeller® series DILM contactor  |
| Part no.                               |                                     | DILM170(RAC24)  |
| EAN                                    |                                     | 4015081064182   |
| Product Length/Depth                   |                                     | 160 millimetre  |
| Product height                         |                                     | 170 millimetre  |
| Product width                          |                                     | 90 millimetre   |
| Product weight                         |                                     | 2.25 kilogram   |
| Certifications                         |                                     | CSA Class No.: 2411-03, 3211-04<br>VDE 0660<br>UL File No.: E29096<br>IEC/EN 60947<br>CSA File No.: 012528<br>CSA-C22.2 No. 60947-4-1-14<br>CE<br>UL 60947-4-1<br>UL<br>CSA<br>IEC/EN 60947-4-1<br>UL<br>CSA  |
| Product Tradename                      |                                     | DILM  |
| Product Type                           |                                     | Contactor   |
| Product Sub Type                       |                                     | None  |
| Catalog Notes                          |                                     | Contacts according to EN 50012  |
| Features & Functions                   |                                     |   |
| Fitted with:                           |                                     | Suppressor circuit in actuating electronics   |
| General information                    |                                     |   |
| Application                            |                                     | Contactors for Motors   |
| Connection                             |                                     | Screw terminals   |
| Degree of protection                   |                                     | IP00  |
| Frame size                             |                                     | FS4   |
| Lifespan, mechanical                   |                                     | 10,000,000 Operations (AC operated)   |
| Operating frequency                    |                                     | 3000 mechanical Operations/h (AC operated)  |
| Overvoltage category                   |                                     | III   |
| Pollution degree                       |                                     | 3   |
| Product category                       |                                     | Contactors  |
| Protection                             |                                     | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)  |
| Rated impulse withstand voltage (Uimp) |                                     | 8000 V AC   |
| Residual current                       |                                     | 1 mA (with actuation of A1 - A2 by the electronics with "0" signal)   |
| Resistance per pole                    |                                     | 0.6 mΩ  |
| Utilization category                   |                                     | AC-1: Non-inductive or slightly inductive loads, resistance furnaces<br>AC-3: Normal AC induction motors: starting, switch off during running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching   |
| Voltage type                           |                                     | AC  |
| Ambient conditions, mechanical         |                                     |   |
| Shock resistance                       |                                     | 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-<br>sinusoidal shock 10 ms<br>5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when<br>tabletop-mounted, Half-sinusoidal shock 10 ms<br>7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when<br>tabletop-mounted, Half-sinusoidal shock 10 ms<br>10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-<br>sinusoidal shock 10 ms<br>7 a, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- |

7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-

sinusoidal shock 10 ms

|   | 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when<br>tabletop-mounted, Half-sinusoidal shock 10 ms   |
|---|--|
| Climatic environmental conditions   |  |
| Altitude  | Max. 2000 m  |
| Ambient operating temperature - min   | -25 °C   |
| Ambient operating temperature - max   | 60 °C  |
| Ambient operating temperature (enclosed) - min  | 25 °C  |
| Ambient operating temperature (enclosed) - max  | 40 °C  |
|   | 40 °C  |
| Ambient storage temperature - min   | 40 °C  |
| Ambient storage temperature - max   |  |
| Climatic proofing   | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78   |
| Electro magnetic compatibility  |  |
| Emitted interference  | According to EN 60947-1  |
| Interference immunity   | According to EN 60947-1  |
| Terminal capacities   |  |
| Terminal capacity (copper band)   | 2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables  |
| Terminal capacity (flexible with ferrule)   | 1 x (10 - 95) mm <sup>2</sup> , Main cables<br>2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables<br>2 x (10 - 70) mm <sup>2</sup> , Main cables<br>1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables |
| Terminal capacity (solid)   | 1 x (0.75 - 4) mm², Control circuit cables<br>2 x (0.75 - 2.5) mm², Control circuit cables   |
| Terminal capacity (solid/stranded AWG)  | 18 - 14, Control circuit cables<br>Single 83/0, double 82/0, Main cables   |
| Terminal capacity (stranded)  | 1 x (16 - 95) mm², Main cables<br>2 x (16 - 70) mm², Main cables   |
| Stripping length (main cable)   | 24 mm  |
| Stripping length (control circuit cable)  | 10 mm  |
| Screw size  | M3.5, Terminal screw, Control circuit cables<br>5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables<br>M10, Terminal screw, Main cables  |
| Screwdriver size  | 2, Terminal screw, Control circuit cables, Pozidriv screwdriver<br>0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver  |
| Tightening torque   | 1.2 Nm, Screw terminals, Control circuit cables<br>14 Nm, Screw terminals, Main cables   |
| Electrical rating   |  |
| Rated breaking capacity at 220/230 V  | 1500 A   |
| Rated breaking capacity at 380/400 V  | 1500 A   |
| Rated breaking capacity at 500 V  | 1500 A   |
| Rated breaking capacity at 660/690 V  | 1320 A   |
| Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V                                       | 225 A  |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V                                       | 170 A  |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V                                       | 170 A  |
| Rated operational current (Ie) at AC-3, 440 V   | 170 A  |
| Rated operational current (Ie) at AC-3, 500 V   | 170 A  |
| Rated operational current (Ie) at AC-3, 660 V, 690 V  | 100 A  |
| Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V                                       | 65 A   |
| Rated operational current (Ie) at AC-4, 440 V   | 65 A   |
| Rated operational current (Ie) at AC-4, 500 V   | 65 A   |
| Rated operational current (Ie) at AC-4, 660 V, 690 V  | 50 A   |
| Rated operational current (Ie) at DC-1, 60 V  | 160 A  |
| Rated operational current (Ie) at DC-1, 110 V   | 160 A  |
| Rated operational current (Ie) at DC-1, 220 V   | 90 A   |
| Rated insulation voltage (Ui)   | 690 V  |
| Rated making capacity up to 690 V (cos phi to IEC/EN 60947)                                       | 2100 A   |
| Rated operational power at AC-3, 240 V, 50 Hz   |  |
|   | 57 kW  |
| Rated operational power at AC-3, 380/400 V, 50 Hz   | 57 kW<br>90 kW   |
| Rated operational power at AC-3, 380/400 V, 50 Hz   Rated operational power at AC-3, 415 V, 50 Hz |  |

10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when

| Rated operational power at AC-3, 500 V, 50 Hz  | 120 144   |
|--|---|
|  | 120 kW  |
| Rated operational power at AC-3, 690 V, 50 Hz  | 96 kW   |
| Rated operational power at AC-4, 220/230 V, 50 Hz  | 20 kW   |
| Rated operational power at AC-4, 240 V, 50 Hz  | 22 kW   |
| Rated operational power at AC-4, 415 V, 50 Hz  | 39 kW   |
| Rated operational power at AC-4, 440 V, 50 Hz  | 41 kW   |
| Rated operational power at AC-4, 500 V, 50 Hz  | 47 kW   |
| Rated operational power at AC-4, 660/690 V, 50 Hz  | 48 kW   |
| Rated operational voltage (Ue) at AC - max   | 690 V   |
| Short-circuit rating   |   |
| Short-circuit current rating (basic rating)  | 600 A, max. Fuse, SCCR (UL/CSA)<br>10 kA, SCCR (UL/CSA)<br>600 A, max. CB, SCCR (UL/CSA)  |
| Short-circuit current rating (high fault at 480 V)   | 300/300 A, Class J, max. Fuse, SCCR (UL/CSA)<br>30/100 kA, Fuse, SCCR (UL/CSA)<br>250 A, max. CB, SCCR (UL/CSA)<br>65 kA, CB, SCCR (UL/CSA) |
| Short-circuit current rating (high fault at 600 V)   | 300/600 A, Class J, max. Fuse, SCCR (UL/CSA)<br>350 A, max. CB, SCCR (UL/CSA)<br>30 kA, CB, SCCR (UL/CSA)<br>30/100 kA, Fuse, SCCR (UL/CSA) |
| Short-circuit protection rating (type 1 coordination) at 400 V   | 250 A gG/gL   |
| Short-circuit protection rating (type 1 coordination) at 690 V   | 250 A gG/gL   |
| Short-circuit protection rating (type 2 coordination) at 400 V   | 250 A gG/gL   |
| Short-circuit protection rating (type 2 coordination) at 690 V   | 250 A gG/gL   |
| Conventional thermal current Ith   |   |
| Conventional thermal current ith (1-pole, enclosed)  | 415 A   |
| Conventional thermal current ith (3-pole, enclosed)  | 166 A   |
| Conventional thermal current ith at 55°C (3-pole, open)  | 190 A   |
| Conventional thermal current ith at 60°C (3-pole, open)  | 185 A   |
| Conventional thermal current ith of main contacts (1-pole, open)   | 460 A   |
| Switching capacity   |   |
| Switching capacity (main contacts, general use)  | 225 A, Maximum motor rating (UL/CSA)  |
| Magnet system  |   |
| Arcing time  | 15 ms   |
| Drop-out voltage   | AC operated: 0.6 - 0.25 x UC, AC operated   |
| Duty factor  | 100 %   |
| Pick-up voltage  | 0.8 - 1.15 V AC x Uc  |
| Power consumption, pick-up, 50 Hz  | 180 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz  |
| Power consumption, pick-up, 60 Hz  | 170 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz  |
| Power consumption, sealing, 50 Hz  | 2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz   |
| Power consumption, sealing, 60 Hz  | 3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz<br>3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz    |
|  | 2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz   |
| Rated control supply voltage (Us) at AC, 50 Hz - min   | 24 V  |
| Rated control supply voltage (Us) at AC, 50 Hz - max   | 24 V  |
| Rated control supply voltage (Us) at AC, 60 Hz - min   | 24 V  |
|  | 24 V  |
| Rated control supply voltage (Us) at AC, 60 Hz - max   |   |
| Rated control supply voltage (Us) at DC - min  | 0 V   |
| Rated control supply voltage (Us) at DC - min<br>Rated control supply voltage (Us) at DC - max   | 0 V   |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   | 0 V<br>28 ms  |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max  | 0 V<br>28 ms<br>33 ms   |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - min  | 0 V<br>28 ms<br>33 ms<br>35 ms  |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - max   Switching time (AC operated, make contacts, opening delay) - max   | 0 V<br>28 ms<br>33 ms   |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - min  | 0 V<br>28 ms<br>33 ms<br>35 ms  |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - max   Switching time (AC operated, make contacts, opening delay) - max   | 0 V<br>28 ms<br>33 ms<br>35 ms  |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - max   Motor rating   | 0 V<br>28 ms<br>33 ms<br>35 ms<br>41 ms   |
| Rated control supply voltage (Us) at DC - min   Rated control supply voltage (Us) at DC - max   Switching time (AC operated, make contacts, closing delay) - min   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, closing delay) - max   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - min   Switching time (AC operated, make contacts, opening delay) - max   Motor rating   Assigned motor power at 115/120 V, 60 Hz, 1-phase | 0 V<br>28 ms<br>33 ms<br>35 ms<br>41 ms<br>10 HP  |

| Assign and program at 484/881 (25 Mp. 5-plane   15 MP     Assign and program at 484/881 (25 Mp. 5-plane)   15 MP     Communication   15 MP     Communication   0     Feature of a collery contracts (commany gene contracts)   0     Section   0     Section   0     Section   0     Section   0     Section and program at 484/881 (contracts)   0     Section   000 / ////////////////////////////////  |  |   |
|---|--|---|
| Construction   Construction   Construction   Construction     Outsoft of analyty: contack (somally closed contact)   0   0     Purcher of analyty: contack (somally closed contact)   0   0     Select of analyty: contack (somally closed contact)   00 V.A. Barware on all not contacts. According to FA 1100     Special propose artings   00 V.A. Barware on all not contacts. According to FA 1100     Special propose artings of allower control   00 V.A. Barware on all not contacts. According to FA 1100     Special propose artings of allower control   00 V.A. Barware on all not contacts. According to FA 1100     Special propose artings of allower control   00 V.A. Barware on all not contacts. According to FA 1100     Special propose artings of allower control   00 V.A. Barware on allower contacts. According to FA 1100     Special propose artings of allower control   00 V.A. Barware on allower contacts. According to FA 1100     Special propose artings of allower control   00 V.A. Barware on allower contacts. According to FA 1100     Special propose arting of allower control (SDA owy)   00 V.A. Barware on allower contacts. According to FA 1100     Special propose arting of allower control (SDA owy)   00 V.A. Barware on allower contacts. According to FA 1100     Special propose arting of allower contact. Control (SDA owy)   00 V   | Assigned motor power at 460/480 V, 60 Hz, 3-phase                                | 125 HP  |
| Contraction to Simulfive 6T   No     Contraction to Simulfive 6T   0     Marker of excelling vortices (semilling construction)   0     Subtraction of excelling vortices (semilling construction)   0     Subtraction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling construction of excelling vortices (semilling construction)   0     Special purposes rating of excelling constructions (semilling construction)   0     Special purposes rating of relations construction (SA construction)   0     Special purposes rating of relations construction (SA construction)   0     Special purposes rating of relations constructin (SA construction)  | Assigned motor power at 575/600 V, 60 Hz, 3-phase                                | 125 HP  |
| Contracts   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Miniter of maximum contracts (contract)   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Select process ratings   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract (contract)   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract control   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract control   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract control   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract control   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract control   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of contract control   Image: a maximum contract (contract)   Image: a maximum contract (contract)     Special purposes rating of resistance at leasing   Image: a maximum contract (contract)   Image: a maximum contrant contract (contract)     <   | Communication  |   |
| Number of auxiliary contacts informally quee contacts)   Image: contact informally quee contacts)     Seley   Image: contact informally quee contacts)   Image: contact informally quee contacts)     Seley   Image: contact informally quee contacts)   Image: contact informally quee contacts)     Seley   Image: contact informally quee contacts)   Image: contact informally quee contacts)     Special purpose nitring of halfshie purpose nitring   Image: contact informally quee cont   | Connection to SmartWire-DT   | No  |
| Number of auxiliary contacts inounsily space catacts in   Image: Contact in the contact         | Contacts   |   |
| Number of auxiliary contacts inounsily space catacts in   Image: Contact in the contact         | Number of auxiliary contacts (normally closed contacts)                          | 0   |
| Shirty   Shirts   Shirts<   |  |   |
| She is location   BD V 4C. Browsen that contracts, According to CB B100     Special purpose rating of balast detactical displaying barges   USA 600 V 6017 Splass, STV 6017 (plass)     Special purpose rating of dishter purpose rating   USA 600 V 6017 Splass, STV 6017 (plass)     Special purpose rating of dishter purpose rating   USA 600 V 6017 Splass, STV 6017 (plass)     Special purpose rating of diverser control   Splass, STV 6017 Splass, STV 6017 (plass)     Special purpose rating of diverser control   Splass, STV 6017 Splas   |  |   |
| But VAC Between the contracts. According to EN B1100     Special purpose rating of builts detering tistecharge langes   Built of the SPN 0001 Sphese, STY 0001 (these)     Special purpose rating of definite purpose rating   TIDA LED VIGIT Sphese, STY 0001 (these)     Special purpose rating of definite purpose rating   TIDA LED VIGIT Sphese, STY 0001 (these)     Special purpose rating of definite purpose rating   Bit A 4007 VIGIT Sphese, STY 0001 (these)     Special purpose rating of definite purpose rating   Bit A 4007 VIGIT Sphese, STAN 0000 (cycles e.ct. ULU SPA)     Special purpose rating of definite purpose rati  |  | COONAC Detuces call and contents According to EN \$1140   |
| Special purpose rating of balast selectical discharge lamps   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of definite purpose rating   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of definite purpose rating   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of definite purpose rating   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of devotor control   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. 20V 601: (bits)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants ocotrol   If 6.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants   If 7.4.000 V601: Qhases. (CSA)     Special purpose rating of relayants   If 7.4.000 V601: Qhases. (CSA)     Special purpose r  |  |   |
| Special purpose rating of definite purpose rating   IMA (4007 definit sphase, 7277 defits 1 (hask) (hask)     Special purpose rating of delivetor control   IMA (4007 definit sphase, 7277 defits 1 (hask) (hull)SSA)     Special purpose rating of delivetor control   IMA (4007 definit sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of delivetor control   IMA (4007 definit sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating of refrigeration control (ISA only)   Image: Final Addition (Final Sphase, 7277 defits 1 (hull)SSA)     Special purpose rating  | Special purpose ratings  |   |
| Special purpose rating of lefinite purpose rating of refinite ratio in State Purpose rating of resistance all heading   Image: Purpose rating of refinite ratio in State Purpose rating of resistance all heading   Image: Purpose rating of refinite ratio in State Purpose rating of resistance all heading   Image: Purpose rating of resistance (SAA out)   Image: Purpose rating of resistance all heading   Image: Purpose rating of resistance (SAA out)   Image: Purpose rating of resistance all heading   Image: Purpose rating of resistance (SAA out)   Image: Purpose rating of resistance all heading   Image: Purpose rating of resistance all heading   Image: Purpose rating of Purpose Purpo   | Special purpose rating of ballast electrical discharge lamps                     | 160 A (600V 60Hz 3phase, 347V 60Hz 1phase)  |
| Special purpose rating of elevator control Special purpose rating of elevator control<   |  | 160 A (480V 60Hz 3phase, 277V 60Hz 1phase)  |
| 94. A 680 V 91 H: 3-bi, LUCSA)   Special purpose rating of rafrigeration control (LSA only)   Special purpose rating of resistance air heating   Special purpose rating of tresistance air heating   | Special purpose rating of definite purpose rating                                |   |
| Special purpose rating of resistance air heating   So A, F.A, 480 V 60 Hz Sphase; (CSA)     Special purpose rating of resistance air heating   So A, F.A, 480 V 60 Hz Sphase; 277 V 60 Hz Iphase, IUUCSA)     Special purpose rating of tungsten incandescont lamps   ISO A, 460 V 60 Hz Sphase; 277 V 60 Hz Iphase, IUUCSA)     Design verification   ISO A, 460 V 60 Hz Sphase; 277 V 60 Hz Iphase, IUUCSA)     Head dissipation genoty charmed periodent Pvid   ISO A, 460 V 60 Hz Sphase; 277 V 60 Hz Iphase, IUUCSA)     Head dissipation genoty charmed periodent Pvid   ISO A, 460 V 60 Hz Sphase; 277 V 60 Hz Iphase, IUUCSA)     Head dissipation genoty charmed periodent Pvid   ISO A, 490 V 60 Hz Sphase; 277 V 60 Hz Iphase, IUUCSA)     Head dissipation genoty, current-dependent Pvid   ISO A     Head dissipation, non-current-dependent Pvid   ISO A     ID2.2 Groation resistance   ISO A     ID2.2 Averation of nermal stability of enclosures   Meets the product standard's requirements.     ID2.3 Verification of thermal stability of enclosures   Meets the product standard's requirements.     ID2.4 Dystatus diverse d   | Special purpose rating of elevator control                                       | 99 A, 600 V 60 Hz 3-ph, (UL/CSA)<br>104 A, 240 V 60 Hz 3-ph, (UL/CSA)<br>92 A, 200 V 60 Hz 3-ph, (UL/CSA)<br>40 HP, 240 V 60 Hz 3-ph, (UL/CSA)<br>100 HP, 600 V 60 Hz 3-ph, (UL/CSA)<br>30 HP, 200 V 60 Hz 3-ph, (UL/CSA) |
| 100 A, 000 V 00 Hz sphase, 277 V 00 | Special purpose rating of refrigeration control (CSA only)                       | 540 A, LRA 600 V 60 Hz 3phase; (CSA)<br>90 A, FLA 480 V 60 Hz 3phase; (CSA)   |
| Besign verification 160 A, 480 V 60 Hz 2ghase, 277 V 60 Hz 1ghase, (U/CSA)   Equipment hast dissipation, current-dependent Pvid 41.1 W   Heat dissipation per pole, current-dependent Pvid 0   Heat dissipation per pole, current-dependent Pvid 13.7 W   Rated operational current for specified heat dissipation (In) 170 A   Static heat dissipation, non-current-dependent Pvs 2.3 W   10.2.2.2 Orroisin resistance Meets the product standard's requirements.   10.2.2.2 Vorification of thermal stability of enclosures Meets the product standard's requirements.   10.2.2.3 Virification of resistance of insultang materials to normal heat Meets the product standard's requirements.   10.2.2.4 Statistance to ultra-violet (UV) radiation Meets the product standard's requirements.   10.2.2.4 Resistance to ultra-violet (UV) radiation Dees not apply, since the entire switchger needs to be evaluated.   10.2.5 Ithing Dees not apply, since the entire switchger needs to be evaluated.   10.2.7 Inscriptors Dees not apply, since the entire switchger needs to be evaluated.   10.8 Green of protection of assemblies Dees not apply, since the entire switchger needs to be evaluated.   10.9 There in electrica elicitica inductors Endower the entire switchger needs to be evaluated.   10.8 Comporation of switching devices and comp  | Special purpose rating of resistance air heating                                 |   |
| Equipment heat dissipation, current-dependent Pvid   41.1 W     Heat dissipation capacity Pdiss   0W     Heat dissipation capacity Pdiss   0W     Rated operational current-dependent Pvid   13.7 W     Rated operational current for specified heat dissipation (In)   170 A     Static heat dissipation, non-current-dependent Pve   23 W     102.2 Corosion resistance   Meets the product standard's requirements.     102.2.3 Verification of thermal stability of enclosures   Meets the product standard's requirements.     102.3.2 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     102.3.2 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     102.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects   Meets the product standard's requirements.     102.5 Mechanical impact   Does not apply, since the entire switchgear needs to be evaluated.     102.5 Mechanical impact   Does not apply, since the entire switchgear needs to be evaluated.     103.2 Meets the product standard's requirements.   Does not apply, since the entire switchgear needs to be evaluated.     103.2 Meets the product standard's requirements.   Does not apply, since the entire switchgaar needs to be evaluated.  | Special purpose rating of tungsten incandescent lamps                            |   |
| Heat dissipation capacity Pdiss   OW     Heat dissipation capacity Pdiss   0W     Rated operational current for specified heat dissipation (In)   13.7 W     Static heat dissipation, non-current-dependent Pvs   23.0 V     102.2 Corrosion resistance   Meets the product standard's requirements.     102.2.1 Verification of themal stability of enclosures   Meets the product standard's requirements.     102.2.2 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     102.2.1 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     102.2.2 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     102.2.1 Verification of assemblies   Does not apply, since the entire switchgear needs to be evaluated.     102.2 Nechanical impact   Does not apply, since the entire switchgear needs to be evaluated.     10.2 Borgere of protection against electric shock   Does not apply, since the entire switchgear needs to be evaluated.     10.4 Peratoreces and compage distances   Is the panel builder's responsibility.     10.4 Dearnoces and compage distances   Is the panel builder's responsibility.     10.4 Peratoreces and compage distances   Is the panel builder's responsibility.   | Design verification  |   |
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| Rated operational current for specified heat dissipation (In) 170 A   Static heat dissipation, non-current-dependent Pvs 23 W   10.2.2 Corrosion resistance Meets the product standard's requirements.   10.2.3.1 Varification of thermal stability of enclosures Meets the product standard's requirements.   10.2.3.2 Varification of resistance of insulating materials to normal heat Meets the product standard's requirements.   10.2.3.3 Resist of insul, mat, to abnormal heat/fire by internal elect. effects Meets the product standard's requirements.   10.2.4 Resistance to ultra-violet (UV) radiation Dees not apply, since the entire switchgear needs to be evaluated.   10.2.5 Inscriptions Dees not apply, since the entire switchgear needs to be evaluated.   10.2.7 Inscriptions Dees not apply, since the entire switchgear needs to be evaluated.   10.2.6 Machanical inpact Dees not apply, since the entire switchgear needs to be evaluated.   10.3 Degree of protection of assemblias Dees not apply, since the entire switchgear needs to be evaluated.   10.4 Internal electrical circuits and connections Meets the product standard's requirements.   10.8 Connections for external conductors Employ and the apply since the entire switchgear needs to be evaluated.   10.7 Internal electrical circuits and connections Employ and the apploy and the evaluated.   10.8 Co   | Heat dissipation capacity Pdiss  | 0 W   |
| Static heat dissipation, non-current-dependent Pvs 2.3 W   102.2 Corrosion resistance Meets the product standard's requirements.   102.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.   102.3.2 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements.   102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects Meets the product standard's requirements.   102.4 Resistance to ultra-violet (UV) rediation Does not apply, since the entire switchgear needs to be evaluated.   102.5 Rechances lingart Does not apply, since the entire switchgear needs to be evaluated.   103.1 Bergies of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated.   104.Clearances and creepage distances Meets the product standard's requirements.   105.Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated.   105.Protection against electric strength Endem product standard's requirements.   103.8 Connections for external conductors Endem product standard's requirements.   103.8 Connections for external conductors Endem product standard's requirements.   103.8 Connections for external conductors Endem product standard's requirements.   103.8 Connections for external conducto   | Heat dissipation per pole, current-dependent Pvid                                | 13.7 W  |
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| 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.   10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.   10.10 Temperature rise Is the panel builder's responsibility.   10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed.   10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.   10.13 Mechanical function The device meets the requirements, provided the information in the instruction   |  |   |
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| 10.10 Temperature rise The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.   10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed.   10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.   10.13 Mechanical function The device meets the requirements, provide the information in the instruction  |  |   |
| 10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must be observed.   10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must be observed.   10.13 Mechanical function The device meets the requirements, provided the information in the instruction   |  | The panel builder is responsible for the temperature rise calculation. Eaton will   |
| 10.13 Mechanical function The device meets the requirements, provided the information in the instruction  | 10.11 Short-circuit rating   | Is the panel builder's responsibility. The specifications for the switchgear must be  |
| 10.13 Mechanical function The device meets the requirements, provided the information in the instruction  | 10.12 Electromagnetic compatibility  | Is the panel builder's responsibility. The specifications for the switchgear must be  |
|   | 10.13 Mechanical function  | The device meets the requirements, provided the information in the instruction  |

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)

| Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066) |                    |   |  |  |  |
|---|--------------------|---|--|--|--|
| Electric engineering, automation, process control engineering / Low-voltage switch tech | nology / Contactor | (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020]) |  |  |  |
| Rated control supply voltage AC 50 Hz   | V                  | 24 - 24   |  |  |  |
| Rated control supply voltage AC 60 Hz   | V                  | 24 - 24   |  |  |  |
| Rated control supply voltage DC   | V                  | 0 - 0   |  |  |  |
| Voltage type for actuating  |                    | AC  |  |  |  |
| Number of normally closed contacts as main contact                                      |                    | 0   |  |  |  |
| Number of normally open contacts as main contact  |                    | 3   |  |  |  |
| Type of electrical connection of main circuit   |                    | Screw connection  |  |  |  |
| Operating voltage AC 50 Hz  | V                  | 230 - 690   |  |  |  |
| Operating voltage AC 60 Hz  | V                  | 230 - 690   |  |  |  |
| Rated operation current le at AC-1, 400 V   | А                  | 225   |  |  |  |
| Rated operation current le at AC-3, 400 V   | А                  | 170   |  |  |  |
| Rated operation power at AC-3, 400 V  | kW                 | 90  |  |  |  |
| Rated operation current le at AC-4, 400 V   | А                  | 65  |  |  |  |
| Rated operation power at AC-4, 400 V  | kW                 | 33  |  |  |  |
| Rated operation power NEMA  | kW                 | 93  |  |  |  |
| Number of auxiliary contacts as normally open contact                                   |                    | 0   |  |  |  |
| Number of auxiliary contacts as normally closed contact                                 |                    | 0   |  |  |  |
| Modular version   |                    | No  |  |  |  |
| Width   | mm                 | 90  |  |  |  |
| Height  | mm                 | 170   |  |  |  |
| Depth   | mm                 | 160   |  |  |  |