

# Specifications

## Eaton 207214

Eaton Moeller® series T5

Changeoverswitches, T5, 100 A, surface mounting, 4 contact unit(s), Contacts: 8, 60 °, maintained, With 0 (Off) position, Netz-0-Notstrom, Design number 8902

### General specifications

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series T5<br>Changeover switch                                      |
| <b>CATALOG NUMBER</b>       | 207214                                                                             |
| <b>EAN</b>                  | 4015082072148                                                                      |
| <b>PRODUCT LENGTH/DEPTH</b> | 207 mm                                                                             |
| <b>PRODUCT HEIGHT</b>       | 200 mm                                                                             |
| <b>PRODUCT WIDTH</b>        | 150 mm                                                                             |
| <b>PRODUCT WEIGHT</b>       | 2.238 kg                                                                           |
| <b>CERTIFICATIONS</b>       | IEC/EN 60947-3<br>VDE 0660<br>IEC/EN 60204<br>IEC/EN 60947                         |
| <b>CATALOG NOTES</b>        | Rated Short-time<br>Withstand Current (I <sub>cw</sub> )<br>for a time of 1 second |
| <b>MODEL CODE</b>           | T5-4-8902/I5                                                                       |

## Features & Functions

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| <b>ENCLOSURE MATERIAL</b> | Plastic                                              |
| <b>FEATURES</b>           | Complete device in housing                           |
| <b>FITTED WITH:</b>       | 0 (off) position<br>Black thumb grip and front plate |
| <b>INSCRIPTION</b>        | " Netz-0-Notstrom "                                  |
| <b>NUMBER OF POLES</b>    | 4                                                    |

## General

|                                               |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| <b>DEGREE OF PROTECTION</b>                   | IP65                                                                          |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b>      | IP65<br>NEMA 12                                                               |
| <b>LIFESPAN, MECHANICAL</b>                   | 500,000 Operations                                                            |
| <b>MODEL</b>                                  | Reverser                                                                      |
| <b>MOUNTING METHOD</b>                        | Surface mounting                                                              |
| <b>MOUNTING POSITION</b>                      | As required                                                                   |
| <b>NUMBER OF CONTACT UNITS</b>                | 4                                                                             |
| <b>OPERATING FREQUENCY</b>                    | 1200 Operations/h                                                             |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                           |
| <b>POLLUTION DEGREE</b>                       | 3                                                                             |
| <b>PRODUCT CATEGORY</b>                       | Control switches                                                              |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                     |
| <b>SAFE ISOLATION</b>                         | 440 V AC, Between the contacts, According to EN 61140                         |
| <b>SAFETY PARAMETER (EN ISO 13849-1)</b>      | B10d values as per EN ISO 13849-1, table C.1                                  |
| <b>SHOCK RESISTANCE</b>                       | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms |
| <b>SUITABLE FOR</b>                           | Ground mounting<br>Front mounting                                             |
| <b>SWITCHING ANGLE</b>                        | 60 °                                                                          |
| <b>TYPE</b>                                   | Changeover switch                                                             |

## Climatic environmental conditions

|                                            |        |
|--------------------------------------------|--------|
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -25 °C |
|--------------------------------------------|--------|

|                                            |       |
|--------------------------------------------|-------|
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 40 °C |
|--------------------------------------------|-------|

|                                                       |        |
|-------------------------------------------------------|--------|
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | -25 °C |
|-------------------------------------------------------|--------|

|                                                       |       |
|-------------------------------------------------------|-------|
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °C |
|-------------------------------------------------------|-------|

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| <b>CLIMATIC PROOFING</b> | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
|--------------------------|--------------------------------------------------------------------------------|

## Terminal capacities

|                                                  |                                                                                                               |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b> | 1 x (1 - 25) mm <sup>2</sup> , ferrules to DIN 46228<br>2 x (1.5 - 10) mm <sup>2</sup> , ferrule to DIN 46228 |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------|

|                                           |                                                                  |
|-------------------------------------------|------------------------------------------------------------------|
| <b>TERMINAL CAPACITY (SOLID/STRANDED)</b> | 1 x (2.5 - 35) mm <sup>2</sup><br>2 x (2.5 - 16) mm <sup>2</sup> |
|-------------------------------------------|------------------------------------------------------------------|

|                   |                    |
|-------------------|--------------------|
| <b>SCREW SIZE</b> | M6, Terminal screw |
|-------------------|--------------------|

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| <b>TIGHTENING TORQUE</b> | 4 Nm, Screw terminals<br>35.4 lb-in, Screw terminals |
|--------------------------|------------------------------------------------------|

## Electrical rating

**RATED BREAKING  
CAPACITY AT 220/230 V  
(COS PHI TO IEC 60947-3)** 760 A

**RATED BREAKING  
CAPACITY AT 400/415 V  
(COS PHI TO IEC 60947-3)** 740 A

**RATED BREAKING  
CAPACITY AT 500 V (COS  
PHI TO IEC 60947-3)** 590 A

**RATED BREAKING  
CAPACITY AT 660/690 V  
(COS PHI TO IEC 60947-3)** 420 A

**RATED OPERATIONAL  
CURRENT (IE)** 29.4 A at AC-3, 690 V star-  
delta  
76.2 A at AC-3, 500 V star-  
delta  
100 A at AC-3, 230 V star-  
delta  
95.3 A at AC-3, 400 V star-  
delta

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
220 V, 230 V, 240 V** 71 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
380 V, 400 V, 415 V** 55 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
500 V** 44 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-3,  
660 V, 690 V** 17 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-21,  
440 V** 100 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
230 V** 100 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
400 V, 415 V** 100 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
500 V** 55 A

**RATED OPERATIONAL  
CURRENT (IE) AT AC-23A,  
690 V** 32 A

**RATED OPERATIONAL  
CURRENT (IE) AT DC-1,** 80 A

## Short-circuit rating

**RATED CONDITIONAL  
SHORT-CIRCUIT CURRENT  
(IQ)** 2 kA

**RATED SHORT-TIME  
WITHSTAND CURRENT  
(ICW)** 1,7 kA, Contacts, 1 second

**SHORT-CIRCUIT  
PROTECTION RATING** 100 A gG/gL, Fuse,  
Contacts

|                                                               |                                                                                 |
|---------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>LOAD-BREAK SWITCHES</b>                                    |                                                                                 |
| <b>L/R = 1 MS</b>                                             |                                                                                 |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>      | 30 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>          | 30 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>          | 15 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>    | 30 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>        | 55 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>        | 37 kW                                                                           |
| <b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>        | 30 kW                                                                           |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ</b> | 30 kW                                                                           |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ</b> | 45 kW                                                                           |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ</b>     | 45 kW                                                                           |
| <b>RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ</b>     | 22 kW                                                                           |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>             | 690 V                                                                           |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                       | 100 A                                                                           |
| <b>UNINTERRUPTED CURRENT</b>                                  | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |

## Switching capacity

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| <b>LOAD RATING</b> | 1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor) |
|                    | 1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor) |
|                    | 2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)   |
|                    |                                                                               |

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| <b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b> | 950 A |
|----------------------------------------------------------------------|-------|

|                                           |      |
|-------------------------------------------|------|
| <b>VOLTAGE PER CONTACT PAIR IN SERIES</b> | 60 V |
|-------------------------------------------|------|

## Actuator

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>ACTUATOR FUNCTION</b> | Maintained<br>With 0 (Off) position |
|--------------------------|-------------------------------------|

|                      |                  |
|----------------------|------------------|
| <b>ACTUATOR TYPE</b> | Short thumb-grip |
|----------------------|------------------|

## Contacts

|                                    |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| <b>CONTROL CIRCUIT RELIABILITY</b> | 1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA) |
|------------------------------------|-----------------------------------------------------------------------------------------|

|                                                            |   |
|------------------------------------------------------------|---|
| <b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b> | 0 |
|------------------------------------------------------------|---|

|                                                                |   |
|----------------------------------------------------------------|---|
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0 |
|----------------------------------------------------------------|---|

|                                                              |   |
|--------------------------------------------------------------|---|
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b> | 0 |
|--------------------------------------------------------------|---|

|                           |   |
|---------------------------|---|
| <b>NUMBER OF CONTACTS</b> | 8 |
|---------------------------|---|

## Design verification

|                                                           |     |
|-----------------------------------------------------------|-----|
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b> | 0 W |
|-----------------------------------------------------------|-----|

|                                        |     |
|----------------------------------------|-----|
| <b>HEAT DISSIPATION CAPACITY PDISS</b> | 0 W |
|----------------------------------------|-----|

|                                                          |       |
|----------------------------------------------------------|-------|
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b> | 7.5 W |
|----------------------------------------------------------|-------|

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 100 A |
|----------------------------------------------------------------------|-------|

|                                                           |     |
|-----------------------------------------------------------|-----|
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b> | 0 W |
|-----------------------------------------------------------|-----|

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| <b>10.2.2 CORROSION RESISTANCE</b> | Meets the product standard's requirements. |
|------------------------------------|--------------------------------------------|

|                                                                 |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b> | Meets the product standard's requirements. |
|-----------------------------------------------------------------|--------------------------------------------|

|                                                                                   |                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------|
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b> | Meets the product standard's requirements. |
|-----------------------------------------------------------------------------------|--------------------------------------------|

|                                                                                         |                                            |
|-----------------------------------------------------------------------------------------|--------------------------------------------|
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements. |
|-----------------------------------------------------------------------------------------|--------------------------------------------|

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)</b> | UV resistance only in connection with protective |
|-----------------------------------------------|--------------------------------------------------|

|                                                                 |                                                                                                                                  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>RADIATION</b>                                                | shield.                                                                                                                          |
| <b>10.2.5 LIFTING</b>                                           | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                 | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                                                                           |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                                                                           |
| <b>10.10 TEMPERATURE RISE</b>                                   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                               | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                      | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL</b>                                         | The device meets the                                                                                                             |

**FUNCTION**

requirements, provided the information in the instruction leaflet (IL) is observed.

**Resources**

**BROCHURES** [Brochure - T Rotary Cam switch and P Switch-disconnector](#)

**CATALOGUES** [P Switch-disconnectors and T Rotary cam switches catalogue CA042001EN](#)

**DECLARATIONS OF CONFORMITY** [DA-DC-00004925.pdf](#) [DA-DC-00004897.pdf](#)

**DRAWINGS** [eaton-rotary-switches-t5-changeover-switch-dimensions-002.eps](#)  
[eaton-general-totally-insulated-t0-main-switch-symbol.eps](#)  
[eaton-rotary-switches-surface-mounting-t0-changeover-switch-3d-drawing.eps](#)  
[eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-012.eps](#)  
[eaton-general-rotary-switch-t0-step-switch-symbol.eps](#)

**ECAD MODEL** [ETN.207214.edz](#)

**INSTALLATION INSTRUCTIONS** [IL03801009Z](#)

**INSTALLATION VIDEOS** [Eaton's P Switch-disconnectors used in a factory](#)

**MCAD MODEL** [DA-CS-bauform18](#) [DA-CD-bauform18](#)

**PRODUCT NOTIFICATIONS** [MZ008005ZU Orderform Customized Switch.pdf](#)  
[MZ008006ZU Orderform Customized Switch.pdf](#)

**WIRING DIAGRAMS** [eaton-rotary-switches-changeover-switch-t0-changeover-switch-wiring-diagram-006.eps](#)

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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