

# Specifications

## Eaton 030992

Eaton Moeller® series T3 Reversing switches, T3, 32 A, flush mounting, 3 contact unit(s), Contacts: 5, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8401

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series T3 Reversing switch
<b>CATALOG NUMBER</b>	030992
<b>EAN</b>	4015080309925
<b>PRODUCT LENGTH/DEPTH</b>	102 mm
<b>PRODUCT HEIGHT</b>	54 mm
<b>PRODUCT WIDTH</b>	61 mm
<b>PRODUCT WEIGHT</b>	0.212 kg
<b>CERTIFICATIONS</b>	CSA File No.: 012528 UL CE VDE 0660 CSA-C22.2 No. 94 CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-3 IEC/EN 60204 UL Category Control No.: NLRV IEC/EN 60947 UL 60947-4-1 UL File No.: E36332 CSA
<b>CATALOG NOTES</b>	Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>MODEL CODE</b>	T3-3-8401/E



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## Features & Functions

<b>ENCLOSURE MATERIAL</b>	Plastic
<b>FITTED WITH:</b>	Black thumb grip and front plate 0 (off) position
<b>INSCRIPTION</b>	1-0-2
<b>NUMBER OF POLES</b>	3

## General

<b>DEGREE OF PROTECTION</b>	NEMA 12 IP65 NEMA 1
<b>DEGREE OF PROTECTION (FRONT SIDE)</b>	IP65 NEMA 12
<b>LIFESPAN, MECHANICAL</b>	500,000 Operations
<b>MODEL</b>	Reversing switch
<b>MOUNTING METHOD</b>	Flush mounting
<b>MOUNTING POSITION</b>	As required
<b>NUMBER OF CONTACT UNITS</b>	3
<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>	Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting
<b>SWITCHING ANGLE</b>	60 °
<b>TYPE</b>	Reversing switch

## Climatic environmental conditions

<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	50 °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 Damp heat, constant, to IEC 60068-2-78

## Terminal capacities

<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x (0.75 - 4) mm <sup>2</sup> , ferrules to DIN 46228 2 x (0.75 - 4) mm <sup>2</sup> , ferrules to DIN 46228
<b>TERMINAL CAPACITY (SOLID/FLEXIBLE WITH FERRULE AWG)</b>	14 - 10
<b>TERMINAL CAPACITY (SOLID/STRANDED)</b>	2 x (1 - 6) mm <sup>2</sup> 1 x (1 - 6) mm <sup>2</sup>
<b>SCREW SIZE</b>	M4, Terminal screw
<b>TIGHTENING TORQUE</b>	1.6 Nm, Screw terminals 17.7 lb-in, Screw terminals

## Electrical rating

**RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)** 260 A

**RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)** 260 A

**RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)** 240 A

**RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)** 170 A

**RATED OPERATIONAL CURRENT (IE)** 32 A at AC-3, 400 V star-delta  
25.5 A at AC-3, 690 V star-delta  
32 A at AC-3, 500 V star-delta  
32 A at AC-3, 230 V star-delta

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V** 23.7 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** 23.7 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V** 23.7 A

**RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V** 14.7 A

**RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V** 32 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V** 32 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V** 32 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V** 26.4 A

**RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V** 17 A

**RATED OPERATIONAL CURRENT (IE) AT DC-1,** 25 A

## Short-circuit rating

**RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** 1 kA

**RATED SHORT-TIME WITHSTAND CURRENT (ICW)** 650 A, Contacts, 1 second

**SHORT-CIRCUIT CURRENT RATING (BASIC RATING)** 40A, max. Fuse, SCCR (UL/CSA)  
5 kA, SCCR (UL/CSA)

**SHORT-CIRCUIT CURRENT RATING (HIGH FAULT)** 10 kA, SCCR (UL/CSA)  
40 A, Class J, max. Fuse, SCCR (UL/CSA)

**SHORT-CIRCUIT PROTECTION RATING** 35 A gG/gL, Fuse, Contacts

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**LOAD-BREAK SWITCHES****L/R = 1 MS**

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<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS</b>	20 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-21, 240 V</b>	1 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V</b>	25 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V</b>	25 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V</b>	25 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V</b>	12 A
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<b>RATED OPERATIONAL CURRENT (IE) AT DC-23A, 240 V</b>	5 A
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<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	12 kW
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<b>RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ</b>	11 kW
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<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	11 kW
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<b>RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ</b>	7.5 kW
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<b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>	15 kW
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<b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>	15 kW
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<b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>	15 kW
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<b>RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ</b>	7.5 kW
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<b>RATED OPERATIONAL POWER STAR-DELTA AT</b>	15 kW
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**380/400 V, 50 HZ**

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<b>RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ</b>	18.5 kW
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<b>RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ</b>	22 kW
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<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
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<b>RATED UNINTERRUPTED CURRENT (IU)</b>	32 A
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<b>UNINTERRUPTED CURRENT</b>	Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
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## Switching capacity

<b>LOAD RATING</b>	2 x I <sub>e</sub> (with intermittent operation class 12, 25 % duty factor)
	1.6 x I <sub>e</sub> (with intermittent operation class 12, 40 % duty factor)
	1.3 x I <sub>e</sub> (with intermittent operation class 12, 60 % duty factor)
<b>NUMBER OF CONTACTS IN SERIES AT DC-21A, 240 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V</b>	1
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V</b>	2
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V</b>	3
<b>NUMBER OF CONTACTS IN SERIES AT DC-23A, 240 V</b>	5
<b>SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)</b>	25 A, Rated uninterrupted current max. (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10A, IU, (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	A600 (UL/CSA) P600 (UL/CSA)
<b>RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)</b>	320 A
<b>VOLTAGE PER CONTACT PAIR IN SERIES</b>	60 V

## Motor rating

<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	1.5 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 1-PHASE</b>	3 HP
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>	3 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	3 HP
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	3 HP
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	7.5 HP
<b>ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE</b>	10 HP

## Contacts

<b>CONTROL CIRCUIT RELIABILITY</b>	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
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<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
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<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
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<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
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<b>NUMBER OF CONTACTS</b>	5
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## Actuator

<b>ACTUATOR FUNCTION</b>	Maintained With 0 (Off) position
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<b>ACTUATOR TYPE</b>	Short thumb-grip
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## 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>	1.1 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	32 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) RADIATION</b>	UV resistance only in connection with protective 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 FUNCTION</b>	The device meets the 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-00004923.pdf](#) [DA-DC-00004894.pdf](#)

### DRAWINGS

[eaton-rotary-switches-mounting-t3-changeover-switch-dimensions-019.eps](#)

[eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps](#)

[eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-002.eps](#)

[eaton-general-rotary-switch-t0-step-switch-symbol-002.eps](#)

**ECAD MODEL** [DA-CE-ETN.T3-3-8401\\_E](#)

**INSTALLATION INSTRUCTIONS** [IL03801020Z](#)

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

**MCAD MODEL** [DA-CS-t3\\_3\\_e](#) [DA-CD-t3\\_3\\_e](#)

**PRODUCT NOTIFICATIONS** [MZ008006ZU\\_Orderform\\_Customized\\_Switch.pdf](#)  
[MZ008005ZU\\_Orderform\\_Customized\\_Switch.pdf](#)

**WIRING DIAGRAMS** [eaton-rotary-switches-reversing-switch-t0-reversing-switch-wiring-diagram-002.eps](#)

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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