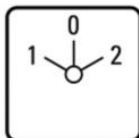


Specifications



Eaton 214781

Eaton Moeller® series T6

Changeoverswitches, T6, 150 A, flush mounting, 3 contact unit(s), Contacts: 9, 60 °, maintained, With 0 (Off) position, 1-0-2, Design number 8212

General specifications

PRODUCT NAME	Eaton Moeller® series T6 Changeover switch
CATALOG NUMBER	214781
MODEL CODE	T6-3-8212/E/HI12
EAN	4015082147815
PRODUCT LENGTH/DEPTH	88 mm
PRODUCT HEIGHT	200 mm
PRODUCT WIDTH	88 mm
PRODUCT WEIGHT	1.162 kg
CERTIFICATIONS	EN 60204 IEC 60947 EN 60947 VDE IEC/EN 60947-3 IEC/EN 60947 VDE 0660 IEC/EN 60204
CATALOG NOTES	Rated Short-time Withstand Current (Icw) for a time of 1 second



Powering Business Worldwide

Actuator

ACTUATOR FUNCTION	With 0 (Off) position Maintained
ACTUATOR TYPE	Short thumb-grip

Contacts

CONTROL CIRCUIT RELIABILITY	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS	9

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Design verification

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, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION 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	UV resistance only in connection with protective shield.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	11 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	160 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Electrical rating

RATED BREAKING CAPACITY AT 220/230 V (COS PHI TO IEC 60947-3)	1280 A
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RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)	900 A
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RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)	880 A
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RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)	340 A
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RATED OPERATIONAL CURRENT (IE)	75 A at AC-3, 230 V star- delta 72.5 A at AC-3, 400 V star- delta 34 A at AC-3, 690 V star- delta 53 A at AC-3, 500 V star- delta
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RATED OPERATIONAL CURRENT (IE) AT AC-21, 440 V	150 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 230 V	126 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V	138 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V	128 A
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RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V	60 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	75 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	72.5 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	53 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	34 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, LOAD-BREAK SWITCHES L/R = 1 MS	125 A
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RATED OPERATIONAL	125 A
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Features & functions

ENCLOSURE MATERIAL	Plastic
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FITTED WITH:	Black thumb grip and front plate 0 (off) position
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INSCRIPTION	1-0-2
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NUMBER OF POLES	3
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CURRENT (IE) AT DC-13, CONTROL SWITCHES L/R = 50 MS	
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 120 V	50 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 24 V	125 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 48 V	125 A
RATED OPERATIONAL CURRENT (IE) AT DC-23A, 60 V	125 A
RATED OPERATIONAL POWER AT AC-23A, 220/230 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ	75 kW
RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ	90 kW
RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	30 kW
RATED OPERATIONAL POWER STAR-DELTA AT 220/230 V, 50 HZ	22 kW
RATED OPERATIONAL POWER STAR-DELTA AT 380/400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER STAR-DELTA AT 500 V, 50 HZ	37 kW
RATED OPERATIONAL POWER STAR-DELTA AT 690 V, 50 HZ	30 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	125 A

UNINTERRUPTED CURRENT	Rated uninterrupted current I _u is specified for max. cross-section.
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General information	
DEGREE OF PROTECTION	IP65
DEGREE OF PROTECTION (FRONT SIDE)	IP65 NEMA 12
LIFESPAN, MECHANICAL	100,000 Operations
MODEL	Reverser
MOUNTING METHOD	Flush mounting
MOUNTING POSITION	As required
NUMBER OF CONTACT UNITS	3
OPERATING FREQUENCY	50 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Control switches
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140
SAFETY PARAMETER (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
SUITABLE FOR	Front mounting
SWITCHING ANGLE	60 °
TYPE	Changeover switch

Short-circuit rating	
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	5 kA
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	2 kA, Contacts, 1 second
SHORT-CIRCUIT PROTECTION RATING	200 A gG/gL, Fuse, Contacts

Switching capacity

LOAD RATING	1.6 x I _e (with intermittent operation class 12, 40 % duty factor)
	2 x I _e (with intermittent operation class 12, 25 % duty factor)
	1.3 x I _e (with intermittent operation class 12, 60 % duty factor)

NUMBER OF CONTACTS IN SERIES AT DC-23A, 120 V

3

NUMBER OF CONTACTS IN SERIES AT DC-23A, 24 V

1

NUMBER OF CONTACTS IN SERIES AT DC-23A, 48 V

2

NUMBER OF CONTACTS IN SERIES AT DC-23A, 60 V

3

RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947-3)

1600 A

VOLTAGE PER CONTACT PAIR IN SERIES

42 V

Terminal capacities

SCREW SIZE

M6, Terminal screw

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)

2 x 16 mm², ferrules to DIN 46228
1 x 50 mm², ferrules to DIN 46228

TERMINAL CAPACITY (SOLID/STRANDED)

2 x 25 mm²
1 x 70 mm²

TIGHTENING TORQUE

39.8 lb-in, Screw terminals
4.5 Nm, Screw terminals

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	eaton-main-switch-declaration-of-conformity-uk251331en.pdf eaton-main-switch-declaration-of-conformity-eu250848en.pdf
DRAWINGS	eaton-rotary-switches-mounting-t6-changeover-switch-dimensions.eps eaton-rotary-switches-mounting-t0-changeover-switch-3d-drawing-002.eps eaton-rotary-switches-front-plate-t0-changeover-switch-symbol-009.eps eaton-general-rotary-switch-t0-step-switch-symbol-002.eps
ECAD MODEL	ETN.T6-3-8212_E_HI12
INSTALLATION INSTRUCTIONS	IL03801018Z2021_10.pdf
INSTALLATION VIDEOS	Eaton's P Switch-disconnectors used in a factory
MCAD MODEL	eaton-cam-switches-mcad-drawings-t6-3-e-hi12.dwg eaton-cam-switches-mcad-3d-models-t6-3-e-hi12.stp
WIRING DIAGRAMS	eaton-rotary-switches-changeover-switch-t8-changeover-switch-wiring-diagram.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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