Step switches, T3, 32 A, rear mounting, 5 contact unit(s), Contacts: 9, 45 °, maintained, With 0 (Off) position, 0-3, Design number 8281



Part no. T3-5-8281/Z 064237

Poduct rum	eneral specifications	
EAN TOWAS TRANSPORT OF THE STATE OF THE STAT	Product name	Eaton Moeller® series T3 Step switch
Product LanghVBepth 5 millimetre Product weight 5 millimetre Product weight 6 25 Mogram Cerificasions CSA Cosh Lasa No.217 - LB CSA CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.217 - LB CSA Cash Lasa No.218 - LB CSA Cash Lasa No.218 - LB Cash Dana No.218 - LB Cash Lasa No	Part no.	T3-5-8281/Z
Product Neight Product Weight Product Weight Careffications Careff	EAN	4015080642374
Product vaejuit Cartifications Carti	Product Length/Depth	167 millimetre
Product Youling the Cardineatens Cardineaten	Product height	54 millimetre
Cardications CSA CSA Class No. 221-105 UL File No. 28324 CSA C722 No. 384 CSA C722 No. 384 VILE 6987-141 UL	Product width	61 millimetre
CSA Cisas Na. 221.146 Life Nac. 258.252 CSA C22.2 No. 594 Cell CSA C	Product weight	0.29 kilogram
Product Type Product Sub Type Product Sub Type Rated Short-ime Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Short-time Withstand Current (Icw) for a time of 1 second Rated Information Rated Impulse withstand voltage (Utimp) Rated Short - Impulse Withstand Current (Utimp) Rated Short - Impulse Short - Impulse Short - Impulse Short - Im	Certifications	CSA Class No.: 3211-05 UL File No.: E36332 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 IEC/EN 60204 CSA-C22.2 No. 94 CE UL IEC/EN 60947 UL Category Control No.: NLRV IEC/EN 60947-3 CSA File No.: 012528
Product Sub Type Catalog Notes Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a time of 1 second Batter James Short-time Withstand Current (lcw) for a second for a time of 1 second f	Product Tradename	T3
Catalog Notes Rated Short-time Withstand Current (Icw) for a time of 1 second Beatures & Functions A Cloff position Fitted with: 0 (off) position Inscription 0-3 Number of poles Three-pole Inscription Image: Company of the poles of protection Inscription Image: Company of poles of protection (Front side) Degree of protection (Front side) IPES NEMA 1 IPES NEMA 12 Lifespan, mechanical S00,000 Operations Mounting method Rear mounting Mounting position As required Number of contact units 5 Operating frequency 1200 Operations/h Overvoltage category III Pollution degree 3 Product category Control switches Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 400 V AC selveen the contacts, According to EN 61140 Safety parameter (EN ISO 13849-1) 8100 values as per EN ISO 13849-1, table C.1 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Intermediate mounting Ground	Product Type	Step switch
Fitted with: Fitted with: Inscription Ins	Product Sub Type	None
Fitted with: Inscription Inscription Number of poles Nemeral information Degree of protection Degree of protection (front side) Mounting method Mounting method Mounting position Number of contact units Degree of protection (front side) Degree of protection (front side) Degree of protection (front side) Mounting position Nemeral 1988 As required As required Degree of protection (front side) Degree of protection (front side) Degree of protection (front side) NEMA 12 Segmentation Segment (Front side) Degree of protection (Front side) Degree of prot	Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Inscription Number of poles Pere of protection Pegree of protection (Ifont side) Degree of protection (Ifont	eatures & Functions	
Number of poles Pegree of protection Degree of protection Degree of protection (front side) Degree of protection (fro	Fitted with:	
Degree of protection (front side) Number of contact units Degree of protection (front side) Degree of protection (front side) Number of contact units Degree of protection (front side) Degree of protection (front side) Degree of protection (front side) NEMA 1 PRES PRES Degree of protection NEMA 1 PRES NEMA 12 Source of protection NemA 1 PRES NEMA 12 Source of protection NEMA 1 PRES NEMA 12 Source of protection (front side) NEMA 12 Source of protection (front side	Inscription	0-3
Degree of protection NEMA 1 1P65 NEMA 12 Degree of protection (front side) IP65 NEMA 12 Lifespan, mechanical 500,000 Operations Mounting method Rear mounting Mounting position As required Number of contact units 5 Operating frequency 1200 Operations/h Outrol sing frequency 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 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Intermediate mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 45°	Number of poles	Three-pole
Degree of protection (front side) Degree of protection (front side) Lifespan, mechanical Mounting method Mounting position Mounting position Number of contact units Operating frequency Overvoltage category Ill Pollution degree Product category Rated impulse withstand voltage (Uimp) Safe isolation Safe yarameter (EN ISO 13849-1) Shock resistance Suitable for Witching angle Lifespan, mechanical Society of the service of	eneral information	
Lifespan, mechanical Mounting method Mounting position As required 5 Operating frequency 1200 Operations/h 100 Operations/h Pollution degree 3 Product category Rated impulse withstand voltage (Uimp) Safe isolation Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Suitable for Switching angle Methanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Branch circuits, suitable as motor disconnect, (UL/CSA) Store would mounting Branch circuits, suitable as motor disconnect, (UL/CSA)	Degree of protection	IP65
Mounting method Rear mounting Mounting position As required Number of contact units 5 Operating frequency 1200 Operations/h Overvoltage category III Pollution degree 3 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 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 45°	Degree of protection (front side)	
Mounting positionAs requiredNumber of contact units5Operating frequency1200 Operations/hOvervoltage categoryIIIPollution degree3Product categoryControl switchesRated impulse withstand voltage (Uimp)6000 V ACSafe isolation440 V AC, Between the contacts, According to EN 61140Safety parameter (EN ISO 13849-1)B10d values as per EN ISO 13849-1, table C.1Shock resistance15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 msSuitable forIntermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA)Switching angle45 °	Lifespan, mechanical	500,000 Operations
Number of contact units Derating frequency 1200 Operations/h Overvoltage category III Pollution degree 3 Product category Control switches Rated impulse withstand voltage (Uimp) Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Switching angle 5 1200 Operations/h III Allow Control switches Control switches 6000 V AC 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO 13849-1, table C.1 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle	Mounting method	Rear mounting
Operating frequency Overvoltage category III Pollution degree 3 Product category Control switches Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Switching angle 1200 Operations/h 111 11200 Operations/h 111 113 114 115 115 115 115 115	Mounting position	As required
Overvoltage category Pollution degree 3 Product category Control switches Rated impulse withstand voltage (Uimp) Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Switching angle III Control switches 6000 V AC 440 V AC, Between the contacts, According to EN 61140 B 10d values as per EN ISO 13849-1, table C.1 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle	Number of contact units	5
Pollution degree 3 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 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Intermediate mounting Ground mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 45°	Operating frequency	1200 Operations/h
Product category Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Suitable for Switching angle Control switches 6000 V AC 440 V AC, Between the contacts, According to EN 61140 810d values as per EN ISO 13849-1, table C.1 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) 45°	Overvoltage category	III
Rated impulse withstand voltage (Uimp) Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Suitable for Switching angle 6000 V AC 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO 13849-1, table C.1 B10d values as per EN ISO 13849-1, table C.1 Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) 45°	Pollution degree	3
Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Suitable for Switching angle 440 V AC, Between the contacts, According to EN 61140 B10d values as per EN ISO 13849-1, table C.1 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) 45°	Product category	Control switches
Safety parameter (EN ISO 13849-1) Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Suitable for Switching angle 45°	Rated impulse withstand voltage (Uimp)	6000 V AC
Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 45 °	Safe isolation	440 V AC, Between the contacts, According to EN 61140
Suitable for Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 45°	Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 45 °	Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
	Suitable for	Ground mounting
Type Step switch	Switching angle	45 °
	Туре	Step switch

Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 4) mm², ferrules to DIN 46228 2 x (0.75 - 4) mm², ferrules to DIN 46228
Terminal capacity (solid/flexible with ferrule AWG)	2 x (0.75 - 4) fillin , lettules to DNN 40220
Terminal capacity (solid/stranded)	2 x (1 - 6) mm ²
reminal capacity (solid/stranded)	1 x (1 - 6) mm ²
Screw size	M4, Terminal screw
Tightening torque	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 operating voltage (Ue) at AC - max	690 V
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 (le) 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 (le) at AC-21, 440 V	32 A
Rated operational current (le) at AC-23A, 230 V	32 A
Rated operational current (le) at AC-23A, 400 V, 415 V	32 A
Rated operational current (le) at AC-23A, 500 V	26.4 A
Rated operational current (le) at AC-23A, 690 V	17 A
Rated operational current (le) at DC-1, load-break switches I/r = 1 ms	25 A
Rated operational current (le) at DC-13, control switches L/R = 50 ms	20 A
Rated operational current (le) at DC-21, 240 V	1 A
Rated operational current (le) at DC-23A, 24 V	25 A
Rated operational current (Ie) at DC-23A, 48 V	25 A
Rated operational current (le) at DC-23A, 60 V	25 A
Rated operational current (le) at DC-23A, 120 V	12 A
Rated operational current (Ie) at DC-23A, 240 V	5 A
Rated operational current (Ie) star-delta at AC-3, 230 V	32 A
Rated operational current (Ie) star-delta at AC-3, 400 V	32 A
Rated operational current (le) star-delta at AC-3, 500 V	32 A
Rated operational current (le) star-delta at AC-3, 690 V	25.5 A
Rated operational power at AC-3, 415 V, 50 Hz	11 kW
Rated operational power at AC-3, 500 V, 50 Hz	15 kW
Rated operational power at AC-3, 690 V, 50 Hz	11 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	15 kW
Rated operational power at AC-23A, 500 V, 50 Hz	15 kW
Rated operational power at AC-23A, 690 V, 50 Hz	15 kW
Rated operational power star-delta at 220/230 V, 50 Hz	7.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	15 kW
Rated operational power star-delta at 500 V, 50 Hz	18.5 kW
Rated operational power star-delta at 690 V, 50 Hz	22 kW
Rated uninterrupted current (Iu)	32 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	nated annital appear out on the opposited for must cross sociality

Rated conditional short-circuit current (Iq) Rated short-time withstand current (Icw)	1 kA
Short-circuit current rating (basic rating)	650 A, Contacts, 1 second 40A, max. Fuse, SCCR (UL/CSA)
Short-en curt current rating (basic rating)	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
Switching capacity	
Load rating	1.6 x l# (with intermittent operation class 12, 40 % duty factor) $2 \times l\#$ (with intermittent operation class 12, 25 % duty factor) $1.3 \times l\#$ (with intermittent operation class 12, 60 % duty factor)
Number of contacts in series at DC-21A, 240 V	1
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
Number of contacts in series at DC-23A, 120 V	3
Number of contacts in series at DC-23A, 240 V	5
Switching capacity (main contacts, general use)	25 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	320 A
Voltage per contact pair in series	24 V
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	1.5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	7.5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	10 HP
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, mA) $$
Number of contacts	9
Actuator	
Actuator function	Maintained With 0 (Off) position
Actuator type	Toggle
Number of switch positions	4
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	1.1 W
Rated operational current for specified heat dissipation (In)	32 A
Static heat dissipation, non-current-dependent Pvs	0 W
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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss13-27-37-14-14 [ACN998016])

	Level switch
	3
V	690
А	32
	4
	Yes
	No
	Built-in device
	0
	Yes
	No
	No
	Yes
	No
	Toggle
	48x48 mm
	IP65
	12