DATASHEET - T0-1-8201/E

ON-OFF switches, T0, 20 A, flush mounting, 1 contact unit(s), Contacts: 2, 60 °, maintained, With 0 (Off) position, 0-1, Design number 8201

009476



Part no. T0-1-8201/E

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Product Type Image: Product Type On-Off switch Product Sub Type None Catalog Noiss Rated Short-time Withstand Current (lew) for a time of 1 second Features & Functions Image: Product Sub Type Fitted with: Image: Product Sub Type Inscription Image: Product Sub Type Inscription Image: Product Sub Type Inscription Image: Product Sub Type Bages of protection Image: Product Sub Type Degree of protection (If ront side) Image: Product Sub Type Infegration Image: Product Sub Type Mounting method Image: Product Sub Type Number of contact units Image: Product Sub Type Operation of grote category Image: Product Category Number of contact units Image: Product Category Number of contact units Image: Product Category Product Category Image: Product Category Rated Impulse withstand Voltage (Uimp) Image: Product Category Safety parameter (EN ISO 1384-1) Image: Product Category Safety parameter (EN ISO 1384-1) Image: Product Prod		IEC/EN 60204 VDE 0660 UL Category Control No.: NLRV UL 60947-4-1 CSA CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-3 CSA-C22.2 No. 94 CSA File No.: 012528 CE IEC/EN 60947 CSA Class No.: 3211-05 UL File No.: E36332
Product Sub Type None Catalog Notes Rated Short-time Withstand Current (icw) for a time of 1 second Fatures & Functions Image: Status and Current (icw) for a time of 1 second Fitted with: Image: Status and Current (icw) for a time of 1 second Inscription Image: Status and Foot plate Inscription 0-1 Number of poles 0-1 General information Image: Status and Foot plate Degree of protection (front side) Image: Status and Foot plate Degree of protection (front side) Image: Status and Foot plate Mounting method Image: Status and Foot plate Mounting position Image: Status and Foot plate Number of contact units Image: Status and Foot plate Mounting position Image: Status and Foot plate Number of contact units Image: Status and Foot plate Overvoltage category Image: Status and Foot plate Politicin degree Image: Status and Foot plate Politicin degree Image: Status and Foot plate Status grameter (Fit ISO 13849-1) Image: Status and Foot plate Status grameter (Fit ISO 13849-1) Image: Status and Foot plates and foot plate and foot plate		
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Mounting methodFush mountingMounting positionAs requiredNumber of contact units1Operating frequency1200 Operations/hOvervoltage categoryIIIPollution degree3Product categoryControl switchesRated impulse withstand voltage (Uimp)6000 V ACSafe isolationHold Y AC, Between the contacts, According to EN 61140Safety parameter (EN ISD 13849-1)B10d values as per EN ISD 13849-1, table C.1Shock resistanceIs g, Mechanical, According to IEC/EN 60082-227, Half-sinusoidal shock 20 msSwitching angle60°Type0N-OFF switchClimatic environmental conditionsIs Gettered	Degree of protection (front side)	
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Number of contact units Image: Contact units Image: Contact units Operating frequency Image: Contact units Image: Contact units Overvoltage category Image: Contact units Image: Contact units Pollution degree Image: Control switches Image: Control switches Product category Control switches 6000 V AC Safe isolation Image: Control switches End of Values as per EN ISD 13849-1, table C.1 Shock resistance Image: Control switches End of Values as per EN ISD 13849-1, table C.1 Switching angle Image: Contend units, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle Image: Contend units, suitable as motor disconnect, (UL/CSA) Type ON-OFF switch Clinetic environmental conditions Image: Contact units	Mounting method	Flush mounting
Operating frequency Identify 1200 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 ISD 13849-1) B10d values as per EN ISD 13849-1, table C.1 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type On-OFF switch Climatic environmental conditions Image: State of the switches	Mounting position	As required
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 Shock resistance 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type ON-OFF switch	Number of contact units	1
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 53 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type ON-OFF switch Climatic environmental conditions Event Set	Operating frequency	1200 Operations/h
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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type ON-OFF switch Climatic environmental conditions Event Handle Conditions	Overvoltage category	III III
Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 6000 V AC Safe isolation 440 V AC, Between the contacts, According to EN 61140 Safety parameter (EN ISO 13849-1) E100 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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type 60 ° Climatic environmental conditions E100 el E100 el E100	Pollution degree	3
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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type ON-OFF switch Climatic environmental conditions Image: Condition in the condit in the condition in the condition in the condit in the conditic	Product category	Control switches
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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type ON-OFF switch Climatic environmental conditions Image: Condition state stat	Rated impulse withstand voltage (Uimp)	6000 V AC
Shock resistance I5 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 60 ° Type ON-OFF switch Climatic environmental conditions Image: Condition state	Safe isolation	440 V AC, Between the contacts, According to EN 61140
Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Switching angle 60 ° Type ON-OFF switch Climatic environmental conditions Image: Climatic environmental condition set of the set o	Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Switching angle 60 ° Type 0N-OFF switch Climatic environmental conditions Image: Climatic environmental condition state	Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Type ON-OFF switch ON-OFF switch	Suitable for	
Climatic environmental conditions	Switching angle	60 °
	Туре	ON-OFF switch
Ambient operating temperature - min -25 °C	Climatic environmental conditions	
	Ambient operating temperature - min	-25 °C

	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
erminal capacities	
Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm², ferrules to DIN 46228 1 x (0.75 - 2.5) mm², ferrules to DIN 46228
Terminal capacity (solid/flexible with ferrule AWG)	18 - 14
Terminal capacity (solid/stranded)	1 x (1 - 2.5) mm ² 2 x (1 - 2.5) mm ²
Screw size	M3.5, Terminal screw
Tightening torque	1 Nm, Screw terminals 8.8 lb-in, Screw terminals
lectrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	100 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	110 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	80 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	60 A
Rated operating voltage (Ue) at AC - max	690 V
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V	11.5 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	11.5 A
Rated operational current (Ie) at AC-3, 500 V	9 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	4.9 A
Rated operational current (Ie) at AC-21, 440 V	20 A
Rated operational current (Ie) at AC-23A, 230 V	13.3 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	13.3 A
Rated operational current (Ie) at AC-23A, 500 V	13.3 A
Rated operational current (Ie) at AC-23A, 690 V	7.6 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	10 A
Rated operational current (Ie) at DC-13, control switches L/R = 50 ms	10 A
Rated operational current (Ie) at DC-21, 240 V	1 A
Rated operational current (le) at DC-23A, 24 V	10 A
Rated operational current (Ie) at DC-23A, 48 V	10 A
Rated operational current (le) at DC-23A, 60 V	10 A
Rated operational current (le) at DC-23A, 120 V	5 A
Rated operational current (Ie) at DC-23A, 240 V	5A
Rated operational current (Ie) star-delta at AC-3, 230 V	20 A
Rated operational current (Ie) star-delta at AC-3, 400 V	20 A
Rated operational current (Ie) star-delta at AC-3, 500 V	15.6 A
• • • • • • • • • • • • • • • • • • • •	
Rated operational current (Ie) star-delta at AC-3, 690 V	8.5 A
Rated operational power at AC-3, 415 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	4 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	3 kW
Rated operational power at AC-23A, 400 V, 50 Hz	5.5 kW
Rated operational power at AC-23A, 500 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 690 V, 50 Hz	5.5 kW
Rated operational power star-delta at 220/230 V, 50 Hz	5.5 kW
Rated operational power star-delta at 380/400 V, 50 Hz	7.5 kW
Rated operational power star-delta at 500 V, 50 Hz	7.5 kW
Rated operational power star-delta at 690 V, 50 Hz	5.5 kW
Rated uninterrupted current (Iu)	20 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.

Rated short-time withstand current (Icw)	320 A, Contacts, 1 second
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA)
	50A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault)	10 kA, SCCR (UL/CSA) 20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating	20 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	1.3 x I# (with intermittent operation class 12, 60 % duty factor) 1.6 x I# (with intermittent operation class 12, 40 % duty factor) 2 x I# (with intermittent operation class 12, 25 % 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)	16 A, Rated uninterrupted current max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P300 (UL/CSA) A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	130 A
Voltage per contact pair in series	60 V
Notor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 HP
Assigned motor power at 200/208 V, 60 Hz, 1-phase	1 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	1.5 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	7.5 HP
Contacts	
Control circuit reliability	1 failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)
Number of contacts	2
Actuator	
Actuator function	Maintained With 0 (Off) position
Actuator type	Toggle
Number of switch positions	2
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.6 W
Rated operational current for specified heat dissipation (In)	20 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.
10.4 Clearances and cleepage distances	

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])

Type of switch		On/Off switch
Number of poles		2
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	А	20
Number of switch positions		2
With zero (off) position		Yes
With retraction in 0-position		No
Device construction		Built-in device
Width in number of modular spacings		0
Suitable for floor mounting		No
Suitable for front mounting		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		No
Type of control element		Toggle
Front shield size		48x48 mm
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		12