Changeoverswitches, T0, 20 A, flush mounting, 3 contact unit(s), Contacts: 6, 45 $^{\circ}$, maintained, With 0 (Off) position, HAND-0-AUTO, Design number 15433



Part no. T0-3-15433/E

048348

EL Number 1456298

(Norway)

Froduct rame Far no Far no For 1952SE For No. Froduct Length Usage Froduct Length Usage Froduct Length Usage Froduct was get Froduct Tradenum	Product name Part no. Part no. Part no. Post NSSSE BM Product Length Depth Product Length Depth Product Weight Product Tradename Product Story Product	(Norway)	
Product Target Version 10-3-15/35SE EAN 61350-00014989 Product height 9 59 millimeter 9 Product height 9 69 millimeter 9 Product without 6 69 millimeter 8 Product without 6 69 millimeter 8 Product Windows 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Part no.	General specifications	
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Certifications Circles 192014 CSA 192214 CS	Certifications Case	Product width	48 millimetre
CSA CVD GOOD CSA-CVD 27 No. 94 CICKN 00947-3 CSA-CVD CSA	CSA CYPE MOST CSA CYPE MOS	Product weight	0.127 kilogram
Product Type Product Sub Type Catalog Notes Rated Short-time Withstand Current (lew) for a time of 1 second Fitted with: Biscription Number of poles General information Degree of protection (front side) Degre	Product Type Product Sub Type Catalog Notes Rated Short-time Withstand Current (lew) for a time of 1 second Features & Functions Fitted with: Inscription Rouge of protection Rouge of protection Rouge of protection (Iront side) Roug	Certifications	CSA VDE 0660 CSA-C22.2 No. 94 IEC/EN 60947-3 UL CSA-C22.2 No. 60947-4-1-14 UL Category Control No.: NLRV CSA File No.: 012528 UL 60947-4-1 CE IEC/EN 60947 CSA Class No.: 3211-05
Product Sub Type Catalog Notes Features & Functions Fitted with: Inscription Number of poles General information Degree of protection (front side) Degree of protection (front side) Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting position Number of contact units Operating frequency Operating frequency Overvoltage category Product category Rated Short-time Withstand Current (lcw) for a time of 1 second Mounting method 1 Ple5 NEMA 12 Life span, mechanical As required Mounting method Operating position Number of contact units 3 Operating frequency Overvoltage category Ill Product category Rated impulse withstand voltage (Uimp) Safe isolation Safe isolation Safe isolation Safe isolation Safe isolation Safe isolation Subable for Evitable as motor disconnect, (UJCSA) Front curroults, suitable as motor disconnect, (UJCSA) Front mounting.	Product Sub Type Catalog Notes Rated Short-time Withstand Current (Icw) for a time of 1 second Features & Functions Fitted with: Catalog Notes Catalog Cat	Product Tradename	ТО
Catalog Notes Features & Functions Fitted with: Inscription Number of poles General information Degree of protection (front side) Lifespan, mechanical Mounting method Mounting method Mounting position Number of contact units Operating frequency Overokage category Product category Product category Rated Short-time Withstand Current ((cw)) for a time of 1 second Brack Units of parameter (EN ISO 13849-1) Shock resistance Suitable for Fitted with: O (off) position Black thumb grip and front plate NamDer of particular (NamDer of Contact units) NamDer of Contact units 400,000 Operations NamDer of Contact units 3 Operating frequency 1200 Operations/h Degree of protection degree 3 Product category 111 Pollution degree 3 Rated impulse withstand voltage (Uimp) 6000 V AC Safe isolation 400 V AC, Between the contacts, According to EN 61140 Safety parameter (EN ISO 13849-1) 510 devalues as per EN ISO 13849-1, table C.1 Shock resistance 15 g, Mechanical, According to EIC/EN 60068-2-27, Helf-sinusoidal shock 20 ms Front mounting Front mounting Front mounting	Catalog Notes Rated Short-time Withstand Current (lcw) for a time of 1 second Fietd with: 0 loffl position Black thumb grip and front plate Inscription "HAND-0-AUTO" Number of poles Three-pole General information NEMA 1 Position NetWal 12 Degree of protection (front side) IP85 NEMA 12 Lifespan, mechanical 400,000 Operations Mounting method Flush mounting Mounting position As required Number of contact units 3 Operating frequency 1200 Operations/h Overvoltage category III Pollution degree 3 Product category Control switches Rated impulse withstand voltage (Uimp) 6000 V AC Sate isolation 440 V AC, Between the contacts, According to EN 61140 Safety parameter (EN ISO 13849-1) Blod values as per EN ISO 13849-1, table C.1 Shock resistance Biranch circuits, suitable as motor disconnect, (UI/CSA) Front mounting Switching angle 45 °	Product Type	Changeover switch
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Number of contact units Operating frequency 1200 Operations/h 1200 Operations/h Overvoltage category III Pollution degree 3 Product category Rated impulse withstand voltage (Uimp) Safe isolation Safety parameter (EN ISO 13849-1) Shock resistance Suitable for Switching angle 3 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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting 45°	Number of contact units Operating 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 3 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 Front mounting Switching angle	Mounting method	Flush mounting
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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 Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 45 °	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 45 °	Operating frequency	1200 Operations/h
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Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 45 °	Suitable for Branch circuits, suitable as motor disconnect, (UL/CSA) Front mounting Switching angle 45 °		
Switching angle Front mounting 45 °	Switching angle Front mounting 45 °	Shock resistance	
			Front mounting
	Type Changeover switch	Switching angle	

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Climatic environmental conditions	
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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm², ferrules to DIN 46228 2 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
Electrical 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 (Ie) at AC-3, 220 V, 230 V, 240 V	11.5 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	11.5 A
Rated operational current (le) at AC-3, 500 V	9 A
Rated operational current (le) at AC-3, 660 V, 690 V	4.9 A
Rated operational current (le) at AC-21, 440 V	20 A
Rated operational current (le) at AC-23A, 230 V	13.3 A
Rated operational current (le) 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 (le) at AC-23A, 690 V	7.6 A
Rated operational current (le) at DC-1, load-break switches I/r = 1 ms	10 A
Rated operational current (le) at DC-13, control switches L/R = 50 ms	10 A
Rated operational current (le) at DC-21, 240 V	1A
Rated operational current (Ie) at DC-23A, 24 V	10 A
Rated operational current (Ie) at DC-23A, 48 V	10 A
Rated operational current (Ie) 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	5 A
Rated operational current (le) star-delta at AC-3, 230 V	20 A
Rated operational current (le) star-delta at AC-3, 200 V	20 A
Rated operational current (le) star-delta at AC-3, 500 V	15.6 A 8.5 A
Rated operational current (le) star-delta at AC-3, 690 V	
Rated operational power at AC-3, 415 V, 50 Hz Rated operational power at AC-3, 500 V, 50 Hz	5.5 kW 5.5 kW
Rated operational power at AC 32A 320/320 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.

Short-circuit rating	
Rated conditional short-circuit current (Iq)	6 kA
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	1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 2 x l# (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)	A600 (UL/CSA) P300 (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
Motor 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	6
Actuator	
Actuator function	Maintained With 0 (Off) position
Actuator type	Toggle
Number of switch positions	3
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.

10.5 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])

p server server		
Type of switch		Reverser
Number of poles		3
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	Α	20
Number of switch positions		3
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