### DATASHEET - T0-2-1/E



On-Off switch, T0, 20 A, flush mounting, 2 contact unit(s), 3 pole, with black thumb grip and front plate



Part no. Catalog No.

**EL-Nummer** 

(Norway)

0001456244

T0-2-1/E

024639

### **Delivery program**

Product range			On-Off switch
Part group reference			ТО
			with black thumb grip and front plate
Number of poles			3 pole
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			
Switching angle		o	90
Switching performance			maintained
Design number			1
Front plate no.			<b>FS 908</b>
front plate			0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	l <sub>u</sub>	А	20
Note on rated uninterrupted current !u			Rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	2

### **Technical data**

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000

Mechanical shock resistance		g	15
Mounting position		y	As required
Contacts			
Mechanical variables			
Number of poles			3 pole
Electrical characteristics			
Rated operational voltage	Ue	V AC	690
Rated uninterrupted current	lu	A	20
Note on rated uninterrupted current !u	-		Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.
Load rating with intermittent operation, class 12			u se
AB 25 % DF		x l <sub>e</sub>	2
AB 40 % DF		x l <sub>e</sub>	1.6
AB 60 % DF		x l <sub>e</sub>	1.3
		x Ie	
Short-circuit rating		A = 0/=1	20
Fuse	1	A gG/gL	
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	320
Note on rated short-time withstand current low		1.4	Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	6
Switching capacity cos φ rated making capacity as per IEC 60947-3		А	130
Rated breaking capacity cos $\phi$ to IEC 60947-3		A	
230 V		A	100
400/415 V		A	110
500 V		A	80
690 V		A	60
Safe isolation to EN 61140		^	
between the contacts		V AC	440
Current heat loss per contact at l <sub>e</sub>		W	0.6
Current heat loss per auxiliary circuit at $I_e$ (AC-15/230 V)		CO	0.6
Lifespan, mechanical	Operations		> 0.4
	Operations	x 10 <sup>6</sup>	
Maximum operating frequency	Operations/h		1200
AC			
AC-3	2		
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	3
230 V Star-delta	P	kW	5.5
400 V 415 V	P	kW	5.5
400 V Star-delta	P	kW	7.5
500 V	P P	kW	5.5
500 V Star-delta 690 V	P P	kW kW	4
690 V Star-delta	P P	kW	
	r	KVV	5.5
Rated operational current motor load switch 230 V		٨	11.5
	l <sub>e</sub>	A	11.5
230 V star-delta	le	A	20
400V 415 V	l <sub>e</sub>	A	11.5
400 V star-delta	l <sub>e</sub>	A	20
500 V	l <sub>e</sub>	А	9
500 V star-delta	l <sub>e</sub>	А	15.6
690 V	l <sub>e</sub>	А	4.9
690 V star-delta	I <sub>e</sub>	А	8.5
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Ρ	kW	
230 V	Р	kW	3

400 V 415 V	Р	kW	5.5
500 V	Р	kW	7.5
690 V	Р	kW	5.5
Rated operational current motor load switch			
230 V	l <sub>e</sub>	A	13.3
400 V 415 V	۱ <sub>e</sub>	А	13.3
500 V	l <sub>e</sub>	А	13.3
690 V	۱ <sub>e</sub>	А	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I <sub>e</sub>	A	10
Voltage per contact pair in series		V	60
DC-21A	le	A	
Rated operational current	l <sub>e</sub>	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l <sub>e</sub>	A	10
Contacts		Quantity	1
48 V			
Rated operational current	l <sub>e</sub>	A	10
Contacts		Quantity	2
60 V			
Rated operational current	l <sub>e</sub>	A	10
Contacts		Quantity	3
120 V			
Rated operational current	le	A	5
Contacts		Quantity	
240 V		,	
Rated operational current	I <sub>e</sub>	A	5
Contacts	0	Quantity	
DC-13, Control switches L/R = 50 ms		addinity	
Rated operational current	l <sub>e</sub>	A	10
Voltage per contact pair in series	0	v	32
Control circuit reliability at 24 V DC, 10 mA	Fault	Н <sub>F</sub>	< 10 <sup>-5</sup> ,< 1 failure in 100,000 switching operations
	probability		< ru ,< r randre in ruo,000 switching operations
Terminal capacities		-	
Solid or stranded		mm <sup>2</sup>	1 x (1 - 2,5) 2 x (1 - 2,5)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	1 x (0.75 - 2.5)
			2 x (0.75 - 2.5)
Terminal screw			M3.5
Tightening torque for terminal screw		Nm	1
Technical safety parameters: Notes			$B10_d$ values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	Ue	V AC	600
Rated uninterrupted current max.	-		
Main conducting paths			
General use		A	16
Auxiliary contacts			
General Use	۱ <sub>Ս</sub>	A	10
Pilot Duty	5		A 600
			P 300
Switching capacity			

Maximum motor rating		
Single-phase		
120 V AC	HP	0.5
200 V AC	HP	1
240 V AC	HP	1.5
Three-phase		
200 V AC	HP	3
240 V AC	HP	3
480 V AC	HP	7.5
600 V AC	HP	7.5
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	A	50
High fault rating	kA	10
max. Fuse	A	20, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	18 - 14
Terminal screw		M3.5
Tightening torque	lb-in	8.8

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	20
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0.6
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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.

#### **Technical data ETIM 7.0**

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as aftery switch         Image: severating switch         Image: severating switch           Version as energency stop installation         No           Version as coverating switch         Image: severating switch         No           Max: rated operation voltage Ue AC         Image: severating switch         Sel           Rated operation voltage Ue AC         Image: severating sever	Version as main switch		No
Version as energency stop installation         No           Version as rowesing switch         No           Number of switches         No           Number of switches         No           Rate operation votage Ue AC         80           Rated permanent current I         A           Rated operation power at AC-2, 400 V         A           Rated operation power at AC-3, 400 V         C           Rated short-time withstand current Icw         A           Rated short-time withstand current Icw         C           Number of auxiliary contacts as normally closed contact         No           Number of auxiliary contacts as normally coper contact         No           Number of auxiliary contacts as normally coper contact         No           Number of auxiliary contacts as normally coper contact         No           Number of auxiliary contacts as normally coper contact         No           Number of auxiliary contacts as normally coper contact         No           Number of auxiliary contacts as normally coper contact         No           Sutable for front mounting enthe	Version as maintenance-/service switch		No
Variation as reversing which         No           Number of switches         1           Max. rated operation voltage U&AC         V         60           Rated operation voltage UAAC         V         60           Rated permanent current IAAC-23,400 V         V         60           Rated operation power at AC-23,400 V         V         60           Rated operation power at AC-23,400 V         V         60           Suitade operation power at AC-23,400 V         V         60	Version as safety switch		No
Number of switches         I         I           Max. rated operation voltage Ue AC         80         80           Rated operation voltage         60         80           Rated operation voltage         60         80           Rated operation voltage         60         80           Rated operation yoltage         60         80           Rated operation power at AC-23, 400 V         60         80           Rated operation power at AC-23, 400 V         60         80           Rated operation power at AC-23, 400 V         60         80           Rated operation power at AC-23, 400 V         60         80           Rated operation power at AC-23, 400 V         60         80           Switching power at AC-23, 400 V         80         90           Switching power at AC-24, 400 V         80         90           Switching power at AC-25, 400 V         80         90 <t< td=""><td>Version as emergency stop installation</td><td></td><td>No</td></t<>	Version as emergency stop installation		No
Name, rated operation voltage U A A         60           Rated operation voltage U A A         600           Rated operation tournent U         A         0           Rated permanent current A AC-23, 400 V         A         0           Rated operation power at AC-3, 400 V         A         0           Rated operation power at AC-3, 400 V         KW         5           Rated operation power at AC-3, 400 V         KW         5           Rated operation power at AC-3, 400 V         KW         5           Switching power at AC-3, 400 V         KW         5           Switching power at AC-3, 400 V         KW         5           Number of power at AC-3, 400 V         KW         5           Switching power at AC-3, 400 V         KW         5           Number of power at AC-3, 400 V         KW         5           Number of auxiliary contacts as normally closed contact         KW         6           Number of auxiliary contacts as normally closed contact         KM         0           Number of auxiliary contacts as normally closed contact         KM         No           Number of auxiliary contacts as normally closed contact         KM         No           Number of auxiliary contacts as normally closed contact         KM         No	Version as reversing switch		No
Number of auxiliary contage         N<	Number of switches		1
Rade permanent current lu         Rade permanent current at AC-23, 400 V         Image permanent current at AC-23, 400 V <td>Max. rated operation voltage Ue AC</td> <td>V</td> <td>690</td>	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V       A       3.3         Rated operation power at AC-3, 400 V       KW       5.5         Rated operation power at AC-3, 400 V       KA       0.3         Rated operation power at AC-3, 400 V       KA       0.3         Rated operation power at AC-3, 400 V       KA       0.3         Rated short-time withstand current two       KA       0.3         Switching power at 400 V       KW       5.5         Conditioned rated short-tircuit current 10       KW       5.5         Number of bas/liary contacts as nomally closed contact       KW       6         Number of auxiliary contacts as change-over contact       KM       0         Number of auxiliary contacts as change-over contact       KM       0         Notor drive prioral       KM       No       No         Suitable for from nounting contre       KM       No       No         Suitable for from nounting centre       KM       No       No         Suitable for intermediate mounting       Sistable for int	Rated operating voltage	V	690 - 690
And operation power at AC-31,400 V         Image: A construction power at AC-3,400 V         Sole           Rated operation power at AC-3,400 V         Image: A construction power at AC-3,400 V         Sole           Rated operation power at AC-23,400 V         Image: A construction power at AC-23,400 V         Sole           Switch ime withstand current low         Image: A construction power at AC-23,400 V         Sole           Switch imp power at 400 V         Image: A construction power at 400 V         Sole           Conditioned rated short-circuit current low         Image: A construction power at 400 V         Sole           Number of poles         Image: A construction power at AC-23,400 V         Sole           Number of poles         Image: A construction power at AC-23,400 V         Image: A construction power at AC-23,400 V           Number of poles         Image: A construction power at AC-23,400 V         Image: A construction power at AC-23,400 V           Number of poles         Image: A construction power at AC-23,400 V         Image: A construction power at AC-23,400 V           Number of poles         Image: A construction power at AC-23,400 V         Image: A construction power at AC-23,400 V           Notor drive pointal         Image: A construction power at AC-23,400 V         Image: A construction power at AC-23,400 V           Suitable for front mounting 4-hole         Image: A construction power at AC-23,400 V         Image: A	Rated permanent current lu	А	20
Anard operation power at AC-3, 400 V         Image: Add operation power at AC-33, 400 V         Si           Bated operation power at AC-23, 400 V         Si         Si           Switching power at 400 V         Si         Si           Conditioned rated short-circuit current Iq         Image: Add Operation power at AC-33, 400 V         Si           Number of poles         Si         Si         Si           Number of poles         Image: Add Operation power at AC-33, 400 V         Si         Si           Number of poles         Image: Add Operation power at AC-33, 400 V         Si         Si           Number of auxiliary contacts as normally closed contact         Image: Add Operation Power at AC-33, 400 V         Si         Si           Number of auxiliary contacts as normally closed contact         Image: Add Operation Power at AC-33, 400 V         Image: Add Operation Power AD-400 V           Number of auxiliary contacts as normally closed contact         Image: Add Operation Power AD-400 V         Image: Add Operation Power AD-400 V           Number of auxiliary contacts as normally closed contact         Image: Add Operation Power AD-400 V         Image: Add Operation Power AD-400 V           Number of auxiliary contacts as normally closed contact         Image: Add Operation Power AD-400 V         Image: Add Operation Power AD-400 V           Number of auxiliary contacts as normally closed contact         Image: Add Opera	Rated permanent current at AC-23, 400 V	А	13.3
Rated short-time withstand current low       kA       0.32         Rated operation power at AC-23, 400 V       kW       5.5         Switching power at 400 V       kA       6         Conditioned rated short-circuit current lq       kA       6         Number of poles       7       3         Number of auxiliary contacts as normally open contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       0         Number of auxiliary contacts as change-over contact       7       No         Number of auxiliary contacts as change-over contact       8       8       No         Number of auxiliary contacts as change-over contact       8       No       No         Suitable for fort mounting -thele       7       No       No         Suitable for first mount	Rated permanent current at AC-21, 400 V	А	20
Reted operation power at AC-23, 400 V       KW       5.         Switching power at 400 V       KW       5.         Conditioned rated short-circuit current Iq       KM       6.         Number of poles       3.       3.         Number of auxiliary contacts as normally closed contact       0.       0.         Number of auxiliary contacts as normally closed contact       M       0.         Number of auxiliary contacts as normally closed contact       M       0.         Number of auxiliary contacts as normally closed contact       M       0.         Number of auxiliary contacts as normally closed contact       M       M         Number of auxiliary contacts as normally closed contact       M       M         Number of auxiliary contacts as normally closed contact       M       M         Number of auxiliary contacts as normally closed contact       M       M         Number of auxiliary contacts as normally closed contact       M       M         Number of auxiliary contacts as normally closed contact       M       M         Notor divisitiary contacts as normally closed contact       M       M         Suitable for divisitiary contacts       M       M       M         Suitable for fort mounting centre       M       M       M         Suitab	Rated operation power at AC-3, 400 V	kW	5.5
Writeing power at 400 VKW5.5Conditioned rated short-circuit current lqKA6Number of poles33Number of auxiliary contacts as normally closed contact00Number of auxiliary contacts as change-over contactM0Number of auxiliary contacts as change-over contactM0Number of auxiliary contacts as change-over contactMMNumber of auxiliary contacts as change-over contactMMNotar drive optionalMNoNotar drive optionalMMNotar drive integratedMNoSuitable for ground mountingMMSuitable for front mounting 4-holeMNoSuitable for drivin thistaltationMMSuitable for intermediate mountingMNoSuitable for intermediate mountingMNoSuitable for intermediate mountingMNoSuitable for intermediate mountingMMSuitable for intermediate mountingMM </td <td>Rated short-time withstand current lcw</td> <td>kA</td> <td>0.32</td>	Rated short-time withstand current lcw	kA	0.32
Conditioned rated short-circuit current lq       KA       6         Number of poles       3       3         Number of auxiliary contacts as normally closed contact       0       0         Number of auxiliary contacts as normally closed contact       0       0         Number of auxiliary contacts as change-over contact       0       0         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       Mo       No         Number of auxiliary contacts as change-over contact       No       No         Suitable for fort mounting centre       No       No         Suitable for intermediate mounting       No       No         Suitable for intermediate mounting       No       No         Colour control element       No       No         Type of control element       No       No	Rated operation power at AC-23, 400 V	kW	5.5
Number of poles         Second Se	Switching power at 400 V	kW	5.5
Number of auxiliary contacts as normally closed contact         0           Number of auxiliary contacts as normally open contact         0           Number of auxiliary contacts as normally open contact         0           Number of auxiliary contacts as change-over contact         0           Motor drive optional         0           Motor drive integrated         0           Voltage release optional         0           Device construction         0           Suitable for ground mounting         0           Suitable for front mounting 4-hole         0           Suitable for first mounting centre         0           Suitable for instruction of main instruct         0           Suitable for instruction of mainting         0           Suitable for instruction of main instruct	Conditioned rated short-circuit current Iq	kA	6
Number of auxiliary contacts as normally open contact       0         Number of auxiliary contacts as normally open contact       0         Motor drive optional       0         Motor drive optional       No         Notar drive optional       No         Votage release optional       No         Device construction       No         Suitable for ground mounting       No         Suitable for front mounting 4-hole       No         Suitable for front mounting centre       No         Suitable for intermediate mounting       So         Suitable for intermediate mounting       So         Suitable for intermediate mounting       So<	Number of poles		3
Number of auxiliary contacts as change-over contact         Image: space optional         Imag	Number of auxiliary contacts as normally closed contact		0
Motor drive optional         No           Motor drive integrated         No           Voltage release optional         No           Device construction         So           Device construction         So           Suitable for ground mounting         So           Suitable for fort mounting entre         So           Suitable for fort mounting centre         So           Suitable for intermediate mounting         So           So         So           So         So           So         So           So         So           So         So	Number of auxiliary contacts as normally open contact		0
Motor drive integrated         Moder drive integrated<	Number of auxiliary contacts as change-over contact		0
Voltage release optional         No           Device construction         Built- in device fixed built-in technique           Suitable for ground mounting         No           Suitable for front mounting 4-hole         No           Suitable for front mounting centre         No           Suitable for distribution board installation         Mo           Suitable for intermediate mounting         Mo           Colour control element         Mo           Type of centrel for main circuit         Mo           Type of electrical connection of main circuit         Mo           Bugee of protection (IP), front side         Mo	Motor drive optional		No
Device construction       Built-in device fixed built-in technique         Suitable for ground mounting       No         Suitable for front mounting 4-hole       Yes         Suitable for front mounting centre       No         Suitable for fixed built-in technique       No         Suitable for fixed built-in technique       Yes         Suitable for fixed built-in technique       No         Suitable for intermediate mounting       No         Colour control element       Suitable         Type of control element       Suitable         Type of electrical connection of main circuit       Suitable         Type of electrical connection of main circuit       Suitable         Suitable       Screw connection         Suitable       Screw connection	Motor drive integrated		No
Suitable for ground mounting       Mo         Suitable for front mounting 4-hole       Yes         Suitable for front mounting centre       No         Suitable for distribution board installation       Yes         Suitable for intermediate mounting       Yes         Colour control element       Yes         Type of control element       Yes         Type of electrical connection of main circuit       Yes         Back       No         Suitable for intermediate       Yes         Suitable for intermediate mounting	Voltage release optional		No
Suitable for front mounting 4-hole       Image: Solutable for front mounting centre       Yes         Suitable for front mounting centre       Image: Solutable for distribution board installation       No         Suitable for intermediate mounting       Image: Solutable for intermediate mounting       No         Colour control element       Image: Solutable for front mounting centre       No         Type of control element       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Type of control element       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Type of control element       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Type of electrical connection of main circuit       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Type of electrical connection of main circuit       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Type of electrical connection of main circuit       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Type of electrical connection of main circuit       Image: Solutable for intermediate mounting       Image: Solutable for intermediate mounting         Solutable for intermediate mounting       Image: Solutable for intermediate mounting       Image: Solutable for	Device construction		Built-in device fixed built-in technique
Suitable for front mounting centre       Image: Solutable for first liabilition       No         Suitable for distribution board installation       Image: Solutable for intermediate mounting       No         Suitable for intermediate mounting       Image: Solutable for intermediate mounting       No         Colour control element       Image: Solutable for intermediate mounting       No         Type of control element       Image: Solutable for intermediate mounting centre       Image: Solutable for intermediate mounting         Type of electrical connection of main circuit       Image: Solutable for intermediate mounting centre       No         Type of protection (IP), front side       Image: Solutable for intermediate mounting centre       Image: Solutable for intermediate mounting centre	Suitable for ground mounting		No
Suitable for distribution board installation       Mo         Suitable for intermediate mounting       No         Colour control element       Black         Type of control element       Toggle         Interlockable       No         Type of electrical connection of main circuit       Mo         Degree of protection (IP), front side       Image: State Sta	Suitable for front mounting 4-hole		Yes
Suitable for intermediate mounting       Mo         Colour control element       Black         Type of control element       Mo         Interlockable       Mo         Type of electrical connection of main circuit       Mo         Degree of protection (IP), front side       Mo	Suitable for front mounting centre		No
Colour control element     End     Black       Type of control element     Toggle     Toggle       Interlockable     Interlockable     Screw connection       Type of protection (IP), front side     Image: Strew connection     Screw connection	Suitable for distribution board installation		No
Type of control element     Togle       Interlockable     No       Type of electrical connection of main circuit     Corew connection       Degree of protection (IP), front side     Image: Corew connection circuit	Suitable for intermediate mounting		No
Interlockable     No       Type of electrical connection of main circuit     Mo       Degree of protection (IP), front side     Image: Street Connection of Connectio	Colour control element		Black
Type of electrical connection of main circuit     Connection       Degree of protection (IP), front side     Connection	Type of control element		Toggle
Degree of protection (IP), front side	Interlockable		No
	Type of electrical connection of main circuit		Screw connection
Degree of protection (NEMA) 12	Degree of protection (IP), front side		IP65
	Degree of protection (NEMA)		12

## **Approvals**

••	
Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, with an alternative front plate and/or terminal markings to those of the IEC type in combination with "+NA" (105864)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12



