## DATASHEET - T3-2-8211/I2



Changeoverswitches, Contacts: 4, 32 A, front plate: 1-0-2, 60 °, maintained, surface mounting



Catalog No. 207178 **EL-Nummer** 

Part no.

(Norway)

0001456809

T3-2-8211/I2

#### **Delivery program**

Product range			Control switches
Part group reference			ТЗ
Basic function			Changeoverswitches
			with black thumb grip and front plate
Contacts			4
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			
Switching angle		0	60
Switching performance			maintained With 0 (Off) position
Design number			8211
Front plate no.			FS 684
front plate			1-0-2
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	lu	А	32
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ 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		
Enclosed	°C	-25 - +40

Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
	Oimp		
Mechanical shock resistance		g	12
Mounting position			As required
Contacts Electrical characteristics			
		V AC	200
Rated operational voltage	Ue		690
Rated uninterrupted current	Iu	A	32
Note on rated uninterrupted current !u			Rated uninterrupted current ${\boldsymbol{I}}_{u}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I <sub>e</sub>	2
AB 40 % DF		x l <sub>e</sub>	1.6
AB 60 % DF		x l <sub>e</sub>	1.3
Short-circuit rating			
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	650
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	l.	kA	
Switching capacity	Iq		
cos φ rated making capacity as per IEC 60947-3		A	320
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	260
400/415 V		A	260
500 V		A	240
690 V		A	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss nor contest at l			
Current heat loss per contact at l <sub>e</sub>		W	1.1
Current heat loss per contact at I <sub>e</sub> Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)		CO	1.1
	Operations		
Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V)	Operations Operations/h	CO	1.1
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) Lifespan, mechanical		CO	1.1 > 0.5
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) Lifespan, mechanical Maximum operating frequency		CO	1.1 > 0.5
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC		CO	1.1 > 0.5
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3	Operations/h	CO × 10 <sup>6</sup>	1.1 > 0.5
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch	Operations/h	CO x 10 <sup>6</sup> kW	1.1 > 0.5 1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) Lifespan, mechanical Maximum operating frequency AC AC-3 Rating, motor load switch 220 V 230 V	Operations/h P P	CO × 10 <sup>6</sup> kW kW	1.1         > 0.5         1200         5.5         7.5
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V	Operations/h P P P	CO x 10 <sup>6</sup> kW kW kW kW	1.1         > 0.5         1200         5.5         7.5         11
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta	Operations/h P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V	Operations/h P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW	1.1         > 0.5         1200         -         -         5.5         7.5         11         15         15
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V Star-delta	Operations/h P P P P P P P P	CO × 10 <sup>6</sup> kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V	Operations/h P P P P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V Star-delta	Operations/h P P P P P P P P	CO × 10 <sup>6</sup> kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V Star-delta         Rated operational current motor load switch	Operations/h P P P P P P P P P P P P P P P P P P P	CO × 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V Star-delta         230 V         300 V         500 V         230 V Star-delta         690 V         690 V Star-delta         230 V	Operations/h P P P P P P P P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         690 V         230 V Star-delta         230 V Star-delta         200 V Star-delta         200 V Star-delta         200 V Star-delta         200 V         200 V Star-delta	Operations/h P P P P P P P P P P P P P P P P P P P	CO × 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200         100         5.5         7.5         11         15         15         15         15         16         17         20         21         22         23.7         32
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V Star-delta         230 V         300 V         500 V         230 V Star-delta         690 V         690 V Star-delta         230 V	Operations/h P P P P P P P P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         690 V         230 V Star-delta         230 V Star-delta         200 V Star-delta         200 V Star-delta         200 V Star-delta         200 V         200 V Star-delta	Operations/h P P P P P P P P P P P P P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200         100         5.5         7.5         11         15         15         15         15         16         17         20         21         22         23.7         32
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         690 V Star-delta         230 V Star-delta         400 V Star-delta         400 V Star-delta         400 V Star-delta         500 V         230 V Star-delta         690 V         690 V Star-delta         400 V Star-delta         400 V Star-delta         690 V         690 V Star-delta         400 V Star-delta         AC         230 V         230 V         230 V Star-delta         400V 415 V	Operations/h P P P P P P P P P P P P P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         690 V         230 V Star-delta         400 V 415 V         400 V 415 V         400 V 5tar-delta         500 V         500 V         500 V Star-delta         690 V         230 V Star-delta         400 V 415 V	Operations/h P P P P P P P P P P P P P P P P P P P	CO × 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200         1200         5.5         7.5         11         15         15         15         16         17         22         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V Star-delta         690 V Star-delta         230 V Star-delta         690 V Star-delta         690 V Star-delta         400 V Star-delta         690 V         690 V Star-delta         400 V Star-delta         690 V Star-delta         690 V Star-delta         400 V Star-delta         690 V Star-delta         400 V star-delta         500 V         230 V         230 V star-delta         400V 415 V         400 V star-delta         400 V star-delta         500 V	Operations/h P P P P P P P P P P P P P P P P P P P	CO × 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         230 V Star-delta         400 V Star-delta         500 V         500 V Star-delta         690 V         230 V Star-delta         400 V Star-delta         690 V         230 V Star-delta         690 V         690 V Star-delta         500 V Star-delta         690 V         230 V star-delta         500 V star-delta         400 V star-delta         400 V star-delta         500 V         500 V star-delta         500 V         500 V star-delta         500 V         500 V star-delta         690 V	Operations/h P P P P P P P P P P P I e I e I e I e I	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200         -         -         5.5         7.5         11         15         15         15         16         17         18.5         11         22         23.7         24.1
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         230 V Star-delta         690 V         230 V Star-delta         690 V         690 V Star-delta         230 V         230 V Star-delta         690 V         500 V Star-delta         690 V         230 V         230 V         230 V         230 V star-delta         690 V         500 V Star-delta         690 V         690 V Star-delta         500 V         500 V star-delta         690 V         500 V star-delta         690 V         690 V         690 V         690 V star-delta         690 V         690 V star-delta            690 V star-delta	Operations/h P P P P P P P P P P P P P P P P P P P	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V Star-delta         690 V         690 V Star-delta         690 V         230 V Star-delta         690 V         500 V Star-delta         690 V         500 V Star-delta         690 V         690 V Star-delta         690 V         500 V Star-delta         690 V         500 V star-delta         690 V         230 V         500 V star-delta         600 V         500 V star-delta         690 V         690 V star-delta         690 V star-delta         690 V star-delta         690 V star-delta <t< td=""><td>Operations/h P P P P P P P P P P P I e I e I e I e I</td><td>CO x 10<sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW</td><td>1.1         &gt; 0.5         1200         -         -         5.5         7.5         11         15         15         15         16         17         18.5         11         22         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24.         25.         26.         27.         28.         29.         20.         21.         22.         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24.</td></t<>	Operations/h P P P P P P P P P P P I e I e I e I e I	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200         -         -         5.5         7.5         11         15         15         15         16         17         18.5         11         22         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24.         25.         26.         27.         28.         29.         20.         21.         22.         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24.
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)         Lifespan, mechanical         Maximum operating frequency         AC         AC-3         Rating, motor load switch         220 V 230 V         230 V Star-delta         400 V 415 V         400 V Star-delta         500 V         500 V         690 V         690 V         230 V Star-delta         690 V         230 V Star-delta         690 V         400 V 415 V         400 V Star-delta         690 V         690 V Star-delta         230 V         230 V         230 V         230 V         230 V         230 V star-delta         690 V Star-delta         690 V         230 V star-delta         600 V         500 V star-delta         500 V Star-delta         690 V         500 V star-delta         690 V         690 V star-delta         690 V         690 V star-delta         690 V         690 V star-delta	Operations/h P P P P P P P P P P P I e I e I e I e I	CO x 10 <sup>6</sup> kW kW kW kW kW kW kW kW kW kW kW kW kW	1.1         > 0.5         1200         -         -         5.5         7.5         11         15         15         15         16         17         18.5         11         22         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24.         25.         26.         27.         28.         29.         20.         21.         22.         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         23.7         24.

AC-23A			
	Р	kW	
Motor rating AC-23A, 50 - 60 Hz 230 V	r P		76
		kW	7.5
400 V 415 V	P	kW	15
500 V	P	kW	15
690 V	Р	kW	15
Rated operational current motor load switch			
230 V	l <sub>e</sub>	A	32
400 V 415 V	l <sub>e</sub>	A	32
500 V	le	A	26.4
690 V	l <sub>e</sub>	А	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l <sub>e</sub>	А	25
Voltage per contact pair in series		V	60
DC-21A	I <sub>e</sub>	А	
Rated operational current	I <sub>e</sub>	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	le	A	25
Contacts		Quantity	1
48 V			
Rated operational current	l <sub>e</sub>	A	25
Contacts		Quantity	2
60 V		,	
Rated operational current	le	A	25
Contacts	-	Quantity	3
120 V		,	
Rated operational current	le	A	12
Contacts	C .	Quantity	
240 V		Luunity	
Rated operational current	le	A	5
Contacts	e	Quantity	
DC-13, Control switches L/R = 50 ms		Quantity	
Rated operational current	le	A	20
Voltage per contact pair in series	·e	V	24
Control circuit reliability at 24 V DC, 10 mA	Foult		
Control of Call renability at 24 ¥ DC, 10 IIIA	Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> , $<$ 1 fault in 100000 operations
Terminal capacities			
Solid or stranded		mm <sup>2</sup>	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrules to DIN 46228		2	1 x (0.75 - 4)
		mm <sup>2</sup>	2 x (0.75 - 4)
Terminal screw			M4
Tightening torque for terminal screw		Nm	1.6
Technical safety parameters:			
Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts		14.4.0	con
Rated operational voltage	Ue	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use		A	25
Auxiliary contacts			
General Use	lu	Α	10

Pilot Duty		A 600 P 600
Switching capacity		
Maximum motor rating		
Single-phase		
120 V AC	HP	1.5
200 V AC	HP	3
240 V AC	HP	3
Three-phase		
200 V AC	HP	3
240 V AC	HP	3
480 V AC	HP	7.5
600 V AC	HP	10
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	A	40
High fault rating	kA	10
max. Fuse	A	40, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	14 - 10
Terminal screw		M4
Tightening torque	lb-in	17.7

# Design verification as per IEC/EN 61439

besign vermeation as per indy nites			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	32
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	1.1
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	40
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.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### **Technical data ETIM 7.0**

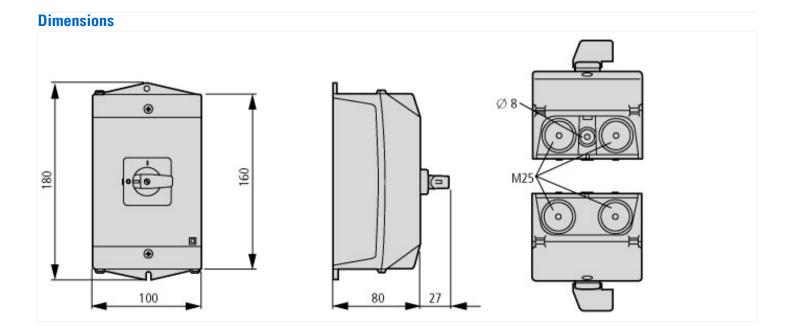
Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

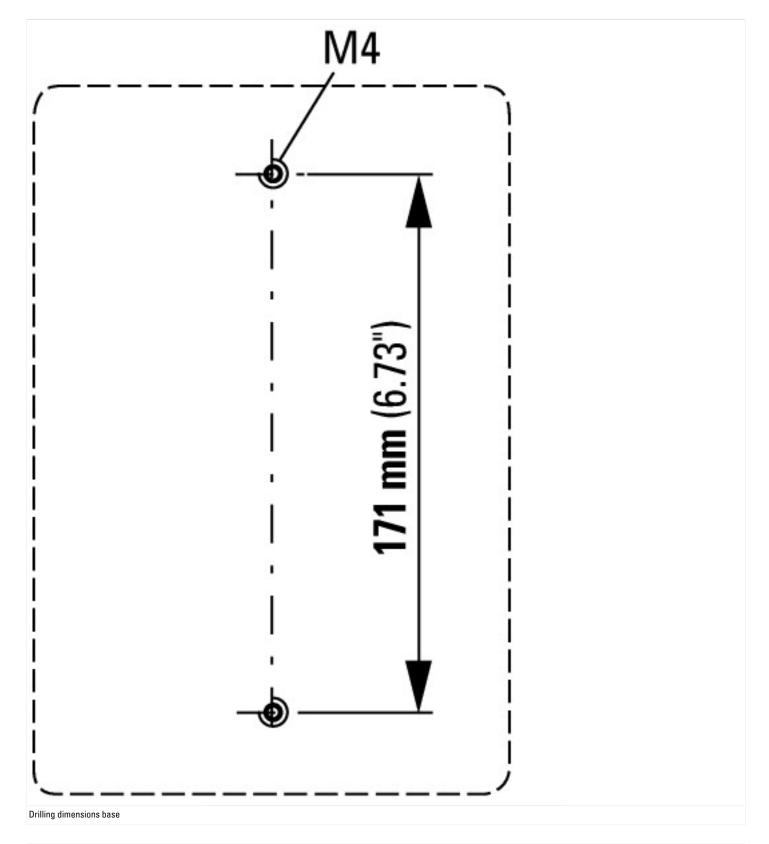
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

Model		Reverser
Number of poles		2
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	А	32
Rated operation current le at AC-3, 400 V	А	23.7
Rated operation power at AC-3, 400 V	kW	12
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		12
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		Yes
Material housing		Plastic
Type of control element		Toggle
Type of electrical connection of main circuit		Screw connection

### **Approvals**

UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
E36332
NLRV
12528
3211-05
UL listed, CSA certified
Yes, additional labeling according to UL on the enclosure in combination with "+NA- I2" (105866)
Branch circuits, suitable as motor disconnect
IEC: IP65; UL/CSA Type 1, 12





### Assets (links)

Declaration of CE Conformity 00003074 Instruction Leaflets IL03801008Z2018\_05