DATASHEET - T3-3-8212/I2



Changeoverswitches, Contacts: 6, 32 A, front plate: 1-0-2, 60 °, maintained, surface mounting



Part no. T3-3-8212/I2 Catalog No. 207183

EL-Nummer 0001456811 (Norway)

Delivery program

Delivery program			
Product range			Control switches
Part group reference			Т3
Basic function			Changeoverswitches
			with black thumb grip and front plate
Contacts			6
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			~ X X X X
Switching angle		o	60
Switching performance			maintained With 0 (Off) position
Design number			8212
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	Iu	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Number of contact units		contact unit(s)	3

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		111/3

Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance	Oimp		12
		g	
Mounting position Contacts			As required
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	A	32
Note on rated uninterrupted current !u	·u	,,	Rated uninterrupted current I_u is specified for max. cross-section.
Load rating with intermittent operation, class 12			nated difficent upled current i _U is specified for max. cross-section.
AB 25 % DF		v I	2
		x l _e	
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	650
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	1
Switching capacity		٨	220
cos φ rated making capacity as per IEC 60947-3		A	320
Rated breaking capacity cos φ to IEC 60947-3		A	260
230 V		A	260
400/415 V		A	260
500 V		A	240
690 V		Α	170
Safe isolation to EN 61140		V/ A C	440
between the contacts		V AC	440
Current heat loss per contact at l _e		W	1.1
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	5.5
230 V Star-delta	Р	kW	7.5
400 V 415 V	Р	kW	11
400 V Star-delta	Р	kW	15
500 V	Р	kW	15
500 V Star-delta	Р	kW	18.5
690 V	P	kW	11
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	l _e	Α	23.7
230 V star-delta	l _e	Α	32
400V 415 V	le	Α	23.7
400 V star-delta	l _e	Α	32
500 V	l _e	Α	23.7
500 V star-delta	I _e	Α	32
690 V	l _e	Α	14.7
690 V star-delta	I _e	Α	25.5
AC-21A			
Rated operational current switch			
440 V	I _e	Α	32
AC-23A	-		

P P P P	kW kW kW kW	7.5 15 15
P P	kW kW	15
P P	kW	
P		15
	kW	
l _e		15
l _e		
·	Α	32
l _e	Α	32
l _e	Α	26.4
l _e	Α	17
ام	Α	25
		60
1 _e		1
	Quantity	1
le	Α	25
	Quantity	1
l _e	Α	25
	Quantity	2
l _e	Α	25
	Quantity	3
	,	
اه	Α	12
C		
	Quantity	
	٨	5
¹e		
	Quantity	5
I _e		20
		24
	H _F	$< 10^{-5}$, < 1 fault in 100000 operations
,		
	mm ²	1 x (1 - 6)
		2 x (1 - 6)
	mm ²	1 x (0.75 - 4) 2 x (0.75 - 4)
		M4
	Nm	1.6
	14111	
		B10 _d values as per EN ISO 13849-1, table C1
U _e	V AC	600
	Α	25
lu	Δ	10
·u	,,	A 600
	Ie Ie Ie Ie Ie Ie Fault probability	Ie A V Ie A Ie A Quantity In A

		P 600
Switching capacity		
Maximum motor rating		
Single-phase		
120 V AC	HP	1.5
200 V AC	НР	3
240 V AC	НР	3
Three-phase		
200 V AC	НР	3
240 V AC	НР	3
480 V AC	НР	7.5
600 V AC	НР	10
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	Α	40
High fault rating	kA	10
max. Fuse	Α	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

2001gii 1011110441011 40 poi 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P _{vid}	W	1.1
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	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)

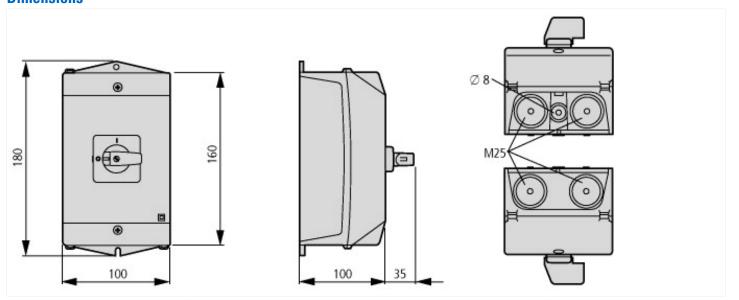
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

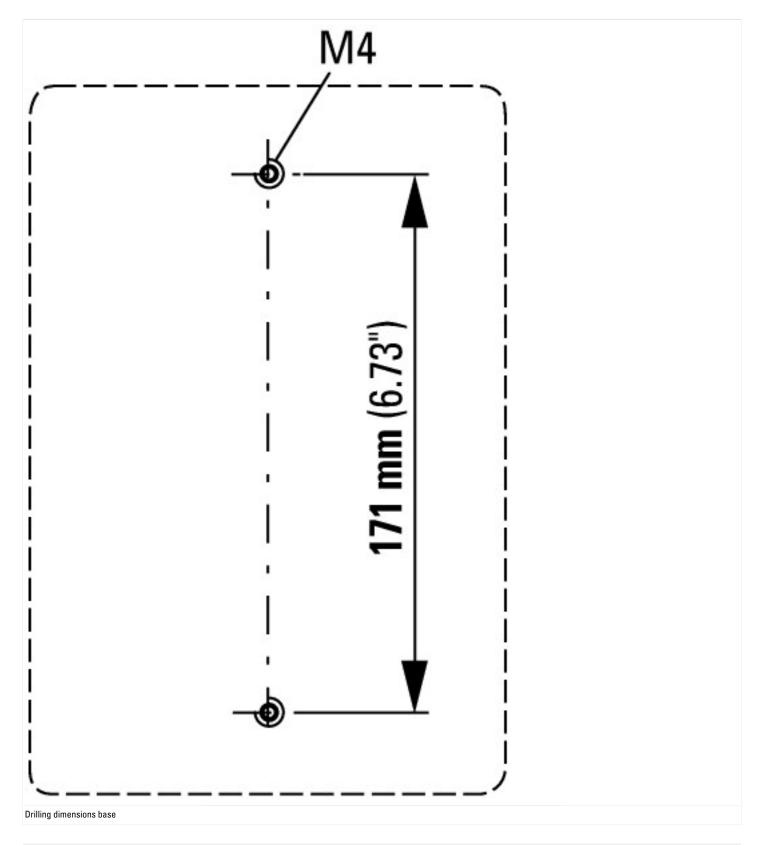
		Reverser
		3
		Yes
		No
А	4	32
А	4	23.7
k¹	(W	12
		IP65
		12
		0
		0
		0
		Yes
		No
		No
		No
		Yes
		Plastic
		Toggle
		Screw connection
	A	A A kW

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, additional labeling according to UL on the enclosure in combination with "+NA- 12" (105866)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions





Assets (links)

Declaration of CE Conformity 00003074

Instruction Leaflets

IL03801008Z2018_05