DATASHEET - T0-1-8200/E

On-Off switch, 1 pole, 20 A, 90 °, flush mounting Powering Business Worldwide T0-1-8200/E Part no. Catalog No. 067352 **EL-Nummer** 0001456240 (Norway) **Delivery program** On-Off switch Product range TO Part group reference with black thumb grip and front plate Number of poles 1 pole Degree of Protection Front IP65 Design flush mounting Contact sequence 0 0 \sim Switching angle 0 90 Switching performance maintained Design number 8200 Front plate no. ON Ο OFF FS 908 front plate 0 1

front plate			U- I
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	lu	А	20
Note on rated uninterrupted current $\boldsymbol{!}_u$			Rated uninterrupted current \mathbf{I}_{u} is specified for max. cross-section.
Number of contact units		contact unit(s)	1

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	J°	-25 - +50

Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			111/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			1 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 _u is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	20
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	6
Switching capacity			
$\cos\phi$ rated making capacity as per IEC 60947-3		А	130
Rated breaking capacity $\cos\phi$ to IEC 60947-3		А	
230 V		А	100
400/415 V		А	110
500 V		А	80
690 V		А	60
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	0.6
Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V)		C0	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	3
230 V Star-delta	Р	kW	5.5
400 V 415 V	Р	kW	5.5
400 V Star-delta	Р	kW	7.5
500 V	Р	kW	5.5
500 V Star-delta	Р	kW	7.5
690 V	Р	kW	4
690 V Star-delta	Р	kW	5.5
Rated operational current motor load switch			
230 V	l _e	А	11.5
230 V star-delta	l _e	А	20
400V 415 V	l _e	A	11.5
400 V star-delta	l _e	A	20
500 V	l _e	A	9
500 V star-delta	l _e	A	15.6
690 V	l _e	A	4.9
690 V star-delta			8.5
030 V Stat-ueita	l _e	A	0.3

AC 21A			
AC-21A			
Rated operational current switch		•	20
440 V	l _e	A	20
AC-23A	-		
Motor rating AC-23A, 50 - 60 Hz	Р	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	le	A	13.3
400 V 415 V	le	A	13.3
500 V	le	А	13.3
690 V	le	А	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	А	10
Voltage per contact pair in series		V	60
DC-21A	I _e	А	
Rated operational current	le	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	А	10
Contacts		Quantity	1
48 V			
Rated operational current	le	A	10
Contacts		Quantity	2
60 V			
Rated operational current	Ie	A	10
Contacts		Quantity	3
120 V			
Rated operational current	I _e	А	5
Contacts		Quantity	3
240 V			
Rated operational current	le	A	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	l _e	A	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
	probability		
Terminal capacities		•	4 (4 07)
Solid or stranded		mm ²	1 x (1 - 2,5) 2 x (1 - 2,5)
Flexible with ferrules to DIN 46228		mm ²	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	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			

General use		А	16
Auxiliary contacts			
General Use	lu	A	10
	U	~	
Pilot Duty			A 600 P 600
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		А	50
High fault rating		kA	10
max. Fuse		А	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

Rated operational current for specified heat dissipationInA20Heat dissipation per pole, current-dependentPvidWa0.6Equipment heat dissipation, current-dependentPvidWa0.6Static heat dissipation, non-current-dependentPvsWa0.6Heat dissipation capacityPdissWa0.6Operating ambient temperature min.PdissWa0.6Operating ambient temperature max.InInIn				
Heat dissipation per pole, current-dependent Ped Weight Equipment heat dissipation, current-dependent Ped Weight 0 Static heat dissipation, current-dependent Ped Weight 0 Gerating ambient temperature min. Pelas Weight 25 Operating ambient temperature max. Pelas Veight 50 102.2 Krength of materials and parts Veight Meets the product standard's requirements. 102.2 Corrosion resistance Insulating materials to aboremal heat and fire due to internal electric directs Meets the product standard's requirements. 102.3 Verification of resistance of insulating materials to aboremal heat and fire due to internal electric directs Meets the product standard's requirements. 102.3 Lifting UV resistance only in connection with protective shield. Dees not apply, since the entire switchgear needs to be evaluated. 102.5 Lifting Dees not apply, since the entire switchgear needs to be evaluated. Dees not apply, since the entire switchgear needs to be evaluated. 103.2 Great of protection of ASSEMBLIES Dees not apply, since the entire switchgear needs to be evaluated. 103.5 Great of protection of assisted components Dees not apply, since the entrie switchgear needs to be evaluated.	Technical data for design verification			
Equipment heat dissipation, current-dependent Price Weat Price Weat Static heat dissipation, non-current-dependent Price Weat 0 0 Operating ambient temperature min. Price VC 25 0 Operating ambient temperature max. ************************************	Rated operational current for specified heat dissipation	I _n	А	20
Batic heat dissipation, non-current-dependent Pvs Weil Person <	Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
Head dissipation capacity Properties Properis	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. C 25 Operating ambient temperature max. °C 5 EUCKN 61439 design verification °C 5 102.2 Strength of materials and parts Mets the product standard's requirements. 6 102.2 Strength of materials and parts Mets the product standard's requirements. 6 102.2.3 Verification of thermal stability of enclosures Mets the product standard's requirements. 6 102.3.2 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Mets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Mets the product standard's requirements. 10.2.3.1 Verification of resistance of insulating materials to abnormal heat fire due to internal electric effects Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. 10.2.5 Inscriptions Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. 10.3.5 Ortection against electric shock Does not apply, since the entire switchgear needs to be evaluated. </td <td>Static heat dissipation, non-current-dependent</td> <td>P_{vs}</td> <td>W</td> <td>0</td>	Static heat dissipation, non-current-dependent	P _{vs}	W	0
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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.	10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 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) / 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 main switch		No
Version as maintenance-/service switch		No
Version as safety switch		No
Version as emergency stop installation		No
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	20
Rated permanent current at AC-23, 400 V	А	13.3
Rated permanent current at AC-21, 400 V	А	20
Rated operation power at AC-3, 400 V	kW	5.5
Rated short-time withstand current lcw	kA	0.32
Rated operation power at AC-23, 400 V	kW	5.5
Switching power at 400 V	kW	5.5
Conditioned rated short-circuit current Iq	kA	6
Number of poles		1
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
Motor drive optional		No
Motor drive integrated		No
Voltage release 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 distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Black
Type of control element		Toggle
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65

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

Suitable for

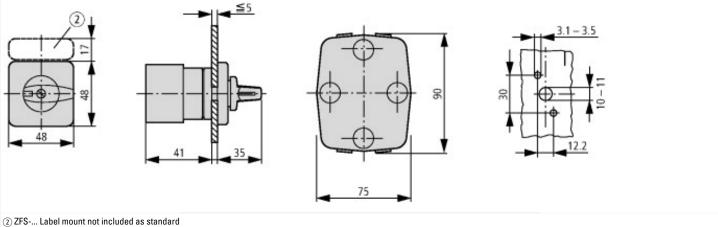
Degree of Protection

Yes, with an alternative front plate and/or terminal markings to those of the IEC type in combination with "+NA" (105864)

Branch circuits, suitable as motor disconnect

IEC: IP65; UL/CSA Type 1, 12





Assets (links)

Declaration of CE Conformity 00003075 Instruction Leaflets IL03801020Z2018_05