E-C-W

On-Off switch, 7-pole, 63 A, 90 $^{\circ}$, surface mounting

Part no. T5B-4-8343/l4 Article no. 223016





Similar to illustration

Product range Part group rufference Namber of poles Degree of Protection Design Cantact sequence Cantact sequence Cantact sequence Switching angle Switching and front plate Two purposes and front p		
Part proso reference Number of poles Degree of Protection Page Degree of Protection Design Cartact sequence Cartact	Delivery program	
Numbur of goldes Designer of Protection Surface minurating To 1 TO 1 TO X	Product range	On-Off switch
Number of poles Design Contract sequence Contrac	Part group reference	T5B
Design Design Contact sequence Contact sequen		with black thumb grip and front plate
Design Contact sequence Contact sequence Contact sequence To IX 2 o IX 3 o IX 5 o IX 7 o IX 8 o IX 9 o IX 11 o IX 2 o IX 3 o IX 4 o IX 5 o IX 6 o IX 7 o IX 8 o IX 9 o IX 11 o IX 12 o IX 13 o IX 14 o IX 15 o IX 16 o IX 17 o IX 18 o IX 19 o IX 10 o IX 11 o IX 12 o IX 13 o IX 14 o IX Fort plate no. Fort plate no. Front plate Front plate Front plate	Number of poles	7-pole
Design Contact sequence Cont	Degree of Protection	IP65
Contact sequence 1		totally insulated
Switching angle Switching performance Front plate no. To X 1 0 X 3 0 X 4 0 X 5 0 X 7 0 X 8 0 X 9 0 X 11 0 X 12 0 X 13 0 X 14 0 X TON OFF FS 908 Front plate 0-1	Design	surface mounting
Switching angle Switching performance Front plate no. To X 1 0 X 3 0 X 4 0 X 5 0 X 7 0 X 8 0 X 9 0 X 11 0 X 12 0 X 13 0 X 14 0 X TON OFF FS 908 Front plate 0-1		
Switching performance Front plate no. Front plate and performance Front plate and performance Front plate and performance Front plate To N OFF FS 908 To N OFF OFF OFF OFF OFF OFF OFF O	Contact sequence	1 0 X 2 0 X 3 0 X 5 0 X 7 0 X 8 0 X 9 0 X 11 0 X 12 0 X 13 0 X
Front plate no. Front plate no. FS 908 FOOT plate 0-1		
FS 908 -0.1		maintained
	Front plate no.	O OFF
Motor rating AC-23A, 50 - 60 Hz	front plate	0-1
	Motor rating AC-23A, 50 - 60 Hz	

400 V	P	kW	30
Rated uninterrupted current	I _u	Α	63
Number of contact units		contact unit(s)	4

Technical data

General

delicial			
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 _{imp}	V AC	6000
Mechanical shock resistance	·	g	15
Mounting position			As required
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Contacts			
Mechanical variables			
Number of poles			7-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u	u		Rated uninterrupted current lu is specified for max. cross-section.
Load rating with intermittent operation, class 12			nado animo apod dan on ta lo spodinos los mais disco costioni
AB 25 % DF		v I	2
		x l _e	
AB 40 % DF		x I _e	1.6
AB 60 % DF		x l _e	1.3
Short-circuit rating			
Fuse		A gG/gL	80
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1300
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	520
400/415 V		Α	600
500 V		Α	480
690 V		Α	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	4.5
Current heat loss per auxiliary circuit at I_{e} (AC-15/230 V)		CO	4.5
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	15
230 V Star-delta	P	kW	18.5
400 V 415 V	P	kW	22
400 V Star-delta	P	kW	30
500 V	P	kW	22
500 V Star-delta	P	kW	37
OUU F Oldi dolla		1.44	

690 V	P	kW	15
690 V Star-delta	P	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	51
230 V star-delta	I _e	Α	63
400V 415 V	le	Α	41
400 V star-delta	I _e	Α	63
500 V	l _e	Α	33
500 V star-delta	l _e	Α	57.2
690 V	l _e	Α	17
690 V star-delta	I _e	Α	29.4
AC-21A			
Rated operational current switch			
440 V	I _e	Α	63
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	18.5
400 V 415 V	P	kW	30
500 V	P	kW	22
690 V	P	kW	22
Rated operational current motor load switch			
230 V	l _e	Α	63
400 V 415 V	l _e	Α	63
500 V	l _e	Α	33
690 V	l _e	Α	23.8
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	63
Voltage per contact pair in series		V	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	2
60 V			-
Rated operational current	l _e	Α	50
Contacts		Quantity	3
120 V		Λ	25
Rated operational current	l _e	A	25
Contacts 240 V		Quantity	3
		A	20
Rated operational current	I _e		
Contacts DC-13, Control switches L/R = 50 ms		Quantity	U
Rated operational current	l _e	A	25
Voltage per contact pair in series	·e	V	24
voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA	Fault	v H _F	
	probability		< 10 ⁻⁵ , < 1 fault in 100000 operations
Terminal capacities			. (0.5 00)
Solid or stranded		mm ²	1 x (2,5 - 35) 2 x (2,5 - 16)
Flexible with ferrules to DIN 46228		mm ²	1 x (1 - 25) 2 x (1 5 - 10)
			2 x (1.5 - 10)

Terminal screw			M6
Max. tightening torque		Nm	4
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	lu	Α	63
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	3
200 V AC		HP	7.5
240 V AC		HP	10
Three-phase			
200 V AC		HP	15
240 V AC		HP	15
480 V AC		HP	40
600 V AC		HP	40
Short Circuit Current Rating		SCCR	
High fault rating		kA	10
max. Fuse		Α	100, Class J
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	12 - 4
Terminal screw			M6
Tightening torque		lb-in	35.4

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
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			Please enquire
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 6.0

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@ss8.1-27-37-14-03 [AKF060010])

	No
	No
	No
	No
	No
V	690
V	690 - 690
Α	63
Α	63
kW	22
kA	1.3
kW	30
kW	30
kA	2
	7
	0
	0
	0
	No
	No
	No
	Complete device in housing
	Yes
	No
	No
	No
	No
	Black
	Toggle
	No
	Screw connection
	IP65
	V A A kW kA kW

Approvals

Product Standards	UL 508; CSA-C22.2 No. 14-05; 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.	3211-07
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-I4" (105868)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Additional product information (links)

IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors		
IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2016_07.pdf	
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=130	
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2	
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4	
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6	
K		
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	
Key to part numbers Cam switch Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8 http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8	