



Step switch, 1p, Ie=25A, 1-7, 45°, maintained, 48x48 mm, replacement switch, base fixing

EATON®
Powering Business Worldwide™

Part no. T3-4-8234/XZ
Article no. 020559

Delivery program

Product range		Control switches
Part group reference		T3
Contacts		7
Design		rear mounting Basic switch
Contact sequence		
Switching angle	°	45
Front plate no.		 FS 412
Motor rating AC-23A, 50 - 60 Hz		
400 V	P	kW 15
Rated uninterrupted current	I _u	A 32
Number of contact units		contact unit(s) 4

Technical data

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204 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	
Oversupply 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

Electrical characteristics			
Rated operational voltage	U _e	V AC 690	
Rated uninterrupted current	I _u	A 32	
Note on rated uninterrupted current I _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 35	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms} 650	
Note on rated short-time withstand current I _{cw}			Current for a time of 1 second

Rated conditional short-circuit current	I _q	kA	1
Switching capacity			
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 per contact at I _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	P	kW	
220 V 230 V	P	kW	5.5
230 V Star-delta	P	kW	7.5
400 V 415 V	P	kW	11
400 V Star-delta	P	kW	15
500 V	P	kW	15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	P	kW	22
Rated operational current motor load switch			
230 V	I _e	A	23.7
230 V star-delta	I _e	A	32
400V 415 V	I _e	A	23.7
400 V star-delta	I _e	A	32
500 V	I _e	A	23.7
500 V star-delta	I _e	A	32
690 V	I _e	A	14.7
690 V star-delta	I _e	A	25.5
AC-21A			
Rated operational current switch			
440 V	I _e	A	32
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	7.5
400 V 415 V	P	kW	15
500 V	P	kW	15
690 V	P	kW	15
Rated operational current motor load switch			
230 V	I _e	A	32
400 V 415 V	I _e	A	32
500 V	I _e	A	26.4
690 V	I _e	A	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	A	25
Voltage per contact pair in series		V	60
DC-21A	I _e	A	
Rated operational current	I _e	A	1

Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	A	25
Contacts		Quantity	1
48 V			
Rated operational current	I _e	A	25
Contacts		Quantity	2
60 V			
Rated operational current	I _e	A	25
Contacts		Quantity	3
120 V			
Rated operational current	I _e	A	12
Contacts		Quantity	3
240 V			
Rated operational current	I _e	A	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	A	20
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations

Terminal capacities

Solid or stranded		mm ²	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 4) 2 x (0.75 - 4)
Terminal screw			M4
Max. tightening torque		Nm	1.6

Technical safety parameters:

Notes		B10 _d values as per EN ISO 13849-1, table C1
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Rating data for approved types

Terminal capacity		
Terminal screw		M4

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Control switch (EC002611)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss8.1-27-37-14-14 [ACN998008])		
Type of switch		Level switch
Number of poles		1
Max. rated operation voltage Ue AC	V	690
Rated permanent current I _u	A	32
Number of switch positions		7
With 0 (off) position		No
With retraction in 0-position		No
Device construction		Built-in device
Width in number of modular spacings		0
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Complete device in housing		No
Type of control element		-
Front shield size		-
Degree of protection (IP), front side		IP00

Additional product information (links)

IL03801006Z (AWA1150-1686) Cam switches: service distribution board

IL03801006Z (AWA1150-1686) Cam switches: service distribution board ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801006Z2016_09.pdf

Display flip catalog page. <http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=76>