



Part no.	T3-4-8440/XZ
Article no.	020627

Delivery program

Product range			Control switches
Part group reference			Т3
Basic function			Multi-speed switches
Contacts			8
Design			rear mounting Basic switch
Contact sequence			
switching function			tapped winding
Switching angle		o	45
Front plate no.			FS 644
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	lu	А	32
Number of contact units		contact unit(s)	4

Technical data General

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
Overvoltage category/pollution degree			111/3
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	l _u	А	32
Note on rated uninterrupted current ${\boldsymbol{!}}_{\boldsymbol{u}}$			Rated uninterrupted current lu is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			

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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	lq	kA	1
Switching capacity			
$\cos \phi$ rated making capacity as per IEC 60947-3		А	320
Rated breaking capacity $\cos \phi$ to IEC 60947-3		А	
230 V		А	260
400/415 V		А	260
500 V		Α	240
690 V		Α	170
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at ${\rm I}_{\rm e}$		W	1.1
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		C0	1.1
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
		X 10	
Maximum operating frequency AC	Operations/h		1200
AC-3	P	1.1.47	
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	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	Р	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	А	23.7
400 V star-delta	le	A	32
500 V	le	A	23.7
500 V star-delta	l _e	A	32
690 V	le	A	14.7
690 V star-delta	l _e	A	25.5
AC-21A			
Rated operational current switch			
440 V	le	А	32
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	7.5
400 V 415 V	Р	kW	15
500 V	Р	kW	15
690 V	Р	kW	15
Rated operational current motor load switch			
230 V	le	А	32
400 V 415 V	l _e	A	32
500 V	l _e	A	26.4
690 V			
	le	A	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	А	25

Voltage per contact pair in series		V	60
DC-21A	le	А	
Rated operational current	I _e	А	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	le	A	25
Contacts		Quantity	3
120 V		,	
Rated operational current	le	A	12
Contacts	e	Quantity	
240 V		Quantity	
Rated operational current	l _e	A	5
Contacts	'e		
		Quantity	5
DC-13, Control switches L/R = 50 ms Rated operational current		٨	20
	l _e	A	
Voltage per contact pair in series	F 1	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
Rating data for approved types			
Terminal capacity			
Terminal screw			M4
Design verification as per IEC/EN 61439			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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	50
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			Meets the product standard's requirements.
and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			Please enquire
10.2.5 Lifting			Does not apply since the entire switchnear needs to be evaluated

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) / Off-load switch (EC001105)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss8.1-27-37-14-05 [AKF062010])

	Dahlander switch
	3
	Yes
	No
А	32
А	23.7
kW	12
	IP65
	0
	0
	0
	Yes
	No
	No
	Yes
	No
	•
	Screw connection
	А

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=53		