

Contacts: 7, 20 A, 90 °, rear mounting, Basic switch

Powering Business Worldwide*

Part no. T0-4-15951/XZ Article no. 013785

Delivery program

Poduct range Part group reference Contacts Design Contact sequence Switching angle Front plate no. Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current August Access Acc	Delivery program			
Contacts Design Contact sequence Contact sequence Switching angle Front plate no. Motor rating AC-23A, 50 - 60 Hz 400 V Augustation P RW S5 Rear mounting Basic switch 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 3 0 4 0 1 FS 621 Motor rating AC-23A, 50 - 60 Hz 400 V P RW S5 Reard uninterrupted current Ju A Z0 Number of contact units Contact 4	Product range			Control switches
Design Contact sequence Switching angle Front plate no. Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current Number of contact units rear mounting Basic switch 2 0 1 1 0 2 0 1 2 0 1 1 0	Part group reference			ТО
Switching angle Front plate no. Motor rating AC-23A, 50 - 60 Hz 400 V Rated uninterrupted current V Number of contact units Basic switch 2 0 1 1 0 2 0 1	Contacts			7
Switching angle Front plate no. Wotor rating AC-23A, 50 - 60 Hz 400 V P W 5.5 Rated uninterrupted current lu A 20 Number of contact units contact 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Design			rear mounting Basic switch
Front plate no. Compared to the contact units Front plate no. Front plate no.	Contact sequence			1 ° 2 ° X X X X X X X X X X X X X X X X X
FS 621 Motor rating AC-23A, 50 - 60 Hz 400 V P kW 5.5 Rated uninterrupted current I _u A 20 Number of contact units contact 4	Switching angle		o	90
400 V P kW 5.5 Rated uninterrupted current I _u A 20 Number of contact units contact 4				2 1
Rated uninterrupted current I _u A 20 Number of contact units contact 4	Motor rating AC-23A, 50 - 60 Hz			
Number of contact units contact 4	400 V	P	kW	5.5
	Rated uninterrupted current	lu	Α	20
	Number of contact units			4

Technical data

General

donoral			
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			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	Α	20
Note on rated uninterrupted current !u			Rated uninterrupted current lu 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			1.3
		x I _e	1.0
Short-circuit rating		4 0/ 1	
Fuse		A gG/gL	
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 φ rated making capacity as per IEC 60947-3		Α	130
Rated breaking capacity cos φ to IEC 60947-3		A	
230 V		A	100
400/415 V		A	110
500 V		A	80
690 V		A	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 I _e (AC-15/230 V)		CO	0.6
	0		
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	I _e	Α	11.5
230 V star-delta	l _e	Α	20
400V 415 V	Ie	Α	11.5
400 V star-delta	I _e	Α	20
500 V	I _e	Α	9
500 V star-delta	I _e	Α	15.6
690 V	I _e	A	4.9
690 V star-delta	I _e	A	8.5
AC-21A	·e	,,	
Rated operational current switch			
440 V		A	20
	l _e	^	20
AC-23A	D	L/M	
Motor rating AC-23A, 50 - 60 Hz 230 V	P P	kW	2
		kW	3
400 V 415 V	P	kW	5.5
500 V	Р		7.5
690 V	Р	kW	5.5
Rated operational current motor load switch			400
230 V	l _e	A	13.3
400 V 415 V	l _e	Α	13.3

500 V	I _e	Α	13.3
690 V	I _e	Α	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	Α	10
Voltage per contact pair in series		V	60
DC-21A	I _e	Α	
Rated operational current	I _e	Α	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	A	10
Contacts		Quantity	1
48 V		,	
Rated operational current	I _e	Α	10
Contacts	v	Quantity	2
60 V			
Rated operational current	I _e	A	10
Contacts	-6	Quantity	
120 V		Quantity	
Rated operational current	l _e	A	5
Contacts	·e	Quantity	
240 V		Quantity	
Rated operational current		A	5
	I _e		
Contacts		Quantity	3
DC-13, Control switches L/R = 50 ms			10
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 probability	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
erminal capacities			
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)
Ferminal screw			M3.5
Max. tightening torque		Nm	1
echnical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Terminal capacity			
Terminal screw			M3.5

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
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 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 lobserved.
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])

Model			On/Off switch
Number of poles			2
With 0 (off) position			Yes
With retraction in 0-position			No
Rated permanent current lu	А		20
Rated operation current le at AC-3, 400 V	А		11.5
Rated operation power at AC-3, 400 V	kV	N	4
Degree of protection (IP), front side			IP65
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
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			-
Type of electrical connection of main circuit			Screw connection

Additional product information (links)

Display flip catalog page. http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=18