



Part no. Article no.	T0-5-SOND*/XZ 907832
Alucie IIU.	JU/0JZ

Delivery program

Product range			Non-standard switch
Part group reference			то
Notes			customized version according to form
Design			rear mounting Basic switch
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	I _u	А	20
Number of contact units		contact unit(s)	5

Technical data

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EncloseNote <th< td=""><td>Ambient temperature</td><td></td><td></td><td></td></th<>	Ambient temperature			
New object of the sector of	Open		°C	-25 - +50
Reter injuste withstand voltage Vacuum 600 Machanical shock resistance g 5 Mauting position Figer and back-of-hand proof Protection against direct contact when actuated from from (EN 5027.4) Figer and back-of-hand proof Contracts Figer and back-of-hand proof Contract and informite figer and proof Figer and back-of-hand proof Contract and information figer and proof Figer and proof Soft And Diago Figer	Enclosed		°C	-25 - +40
Mehanical shock resistanceMark A requiredMechanical shock resistanceSigner and back-of-hand proofContractSigner and back-of-hand proofSigner and back-of-hand proofSigner and back-of-hand proofContractSigner and back-of-hand proofContractSigner and back-of-hand proofSigner and back-of-hand proofSigner and back-of-hand proofContractSigner and back-of-hand proofSigner and back-of-hand proofSigner and Signer	Overvoltage category/pollution degree			111/3
Notiting positionImage: sequence of the sequence of t	Rated impulse withstand voltage	U _{imp}	V AC	6000
Protection against direct contact when actuated from front IEN 50274) Image and back-of-hand proof Contacts Image and back-of-hand proof Electical characteristics Image and back-of-hand proof Rated operational voltage Image and back-of-hand proof Note on rated winterrupted current I Image and back-of-hand proof Load rating with itermittent operation, class 12 Image and back-of-hand proof AB 40 % DF Image and back-of-hand proof AB 60 % DF Image and back-of-hand proof Short-circuit rating Image X Image and back-of-hand proof Fuse Image X	Mechanical shock resistance		g	15
Characteristics Image: Second Sec	Mounting position			As required
Electrical characteristics Image: status	Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Rated operational voltageUeVAC90Rated uniterrupted current I uI IA0Note on rated uninterrupted current I uI I II I I II I I I ILoad rating with intermittent operation, class 12I I I II I<	Contacts			
Rated uninterrupted current Iu Iu A A Note on rated uninterrupted current Iu Rated uninterrupted current Iu is specified for max. cross-section. Load rating with intermittent operation, class 12 Rated uninterrupted current Iu is specified for max. cross-section. A B 25 % DF Kale Identifierrupted current Iu is specified for max. cross-section. A B 40 % DF Kale Identifierrupted current Iu is specified for max. cross-section. A B 40 % DF Kale Identifierrupted current Iu is specified for max. cross-section. A B 40 % DF Kale Identifierrupted current Iu is specified for max. cross-section. A B 40 % DF Kale Identifierrupted current Iu is specified for max. cross-section. A B 40 % DF Kale Identifierrupted current Iu is specified for max. cross-section. Short-circuit rating Kale Kale Identifierrupted current Iu is specified for max. cross-section. Rated short-circuit current Is current) Kale A Identifierrupted current Iu Identifierrupted current Iu Rated short-circuit current Iu Identifierrupted current Iu A Identifierrupted current Iu Identifierrupted current Iu Identifierrupted current Iu Rated short-circuit current	Electrical characteristics			
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Load rating with intermittent operation, class 12 Image: class of the second seco	Rated uninterrupted current	Iu	А	20
AB 2% DF Xe Xe Xe AB 40 % DF x le 1.6 AB 60 % DF x le 1.6 AB 60 % DF x le 1.6 Short-circuit rating x le 1.6 Fue Red short-time withstand current (1 s current) Rew Reg 20 Note on rated short-time withstand current (1 s current) Rew Reg 20 Current for a time of 1 second Note on rated short-time withstand current (1 s current) Internet for a time of 1 second Current for a time of 1 second Note on rated short-time withstand current (1 s current) Internet for a time of 1 second Current for a time of 1 second Note on rated short-time withstand current (1 s current) Internet for a time of 1 second Current for a time of 1 second Note on rated short-time withstand current (1 s current) Internet for a time of 1 second Current for a time of 1 second State of the ability cap set IEC 60947-3 Internet for a time of 1 second Current for a time of 1 second State of the ability cap set IEC 60947-3 Internet for a time of 1 second Current for a time of 1 second State of the ability cap set IEC 60947-3 Internet for	Note on rated uninterrupted current !u			Rated uninterrupted current lu is specified for max. cross-section.
AB 40 % DF Image: Second	Load rating with intermittent operation, class 12			
AB 60 % DF AB 60 %	AB 25 % DF		x l _e	2
Short-circuit rating Fuse A g6/gl A g6/gl 20 Rated short-time withstand current (1 s current) New Arms 320 Note on rated short-time withstand current (1 s current) Iq KA 6 Rated conditional short-circuit current Iq KA 6 Switching capacity Specific C60947-3 Iq Arms 30 Rated breaking capacity cos qs to IEC 60947-3 Immediate Immediat Immediate Immediat <td>AB 40 % DF</td> <td></td> <td>x l_e</td> <td>1.6</td>	AB 40 % DF		x l _e	1.6
FuseA g6/gA g6/g<	AB 60 % DF		x l _e	1.3
Rated short-time withstand current (1 s current)IcwArms30Note on rated short-time withstand current lowIqKatoCurrent for a time of 1 secondRated conditional short-circuit currentIqKato6Switching capacitycos or rated making capacity as per IEC 60947-3IARated breaking capacity cos of to IEC 60947-3IA10230 VIIII400/415 VIIII500 VIIII690 VIIIISafe isolation to EN 61140IIIIbetween the contactsIIIIVACVAC	Short-circuit rating			
Note on rated short-time withstand current low In Rated conditional short-circuit current Iq KA Switching capacity Iq KA Switching capacity Iq KA Switching capacity as per IEC 60947-3 I I Rated breaking capacity cos φ to IEC 60947-3 I I 230 V I I I 400/415 V I I I 500 V I I I 690 V I I I Safe isolation to EN 61140 I I I between the contacts V V I	Fuse		A gG/gL	20
Rated conditional short-circuit currentIqKABated conditional short-circuit currentIqKASwitching capacityA10Cos \u03c6 rated making capacity cos \u03c6 to IEC 60947-3A10230 VA10400/415 VA10500 VAA10690 VAA60Safe isolation to EN 61140ACAbetween the contactsVACVAC40	Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Switching capacity Switching capacity as per IEC 60947-3 A 30 Rated breaking capacity cos of to IEC 60947-3 A A 230 V A 10 400/415 V A 10 500 V A A 690 V A A Safe isolation to EN 61140 A A between the contacts A A	Note on rated short-time withstand current lcw			Current for a time of 1 second
cos φ rated making capacity as per IEC 60947-3A30Rated breaking capacity cos φ to IEC 60947-3AA230 VAN400/415 VAN500 VAA500 VAA690 VAASafe isolation to EN 61140AAbetween the contactsV ACA	Rated conditional short-circuit current	lq	kA	6
Rated breaking capacity cos of to IEC 60947-3 A 230 V A A 10 400/415 V A A 10 500 V A A 80 690 V A A 60 Safe isolation to EN 61140 Y AC VAC	Switching capacity			
230 VA10400/415 VA10500 VA8690 VA6Safe isolation to EN 61140Cbetween the contactsV AC40	$\cos\phi$ rated making capacity as per IEC 60947-3		А	130
400/415 VA10500 VAA690 VAASafe isolation to EN 61140	Rated breaking capacity $\cos \phi$ to IEC 60947-3		А	
500 V A 80 690 V A 60 Safe isolation to EN 61140	230 V		А	100
690 VA A60Safe isolation to EN 61140between the contactsV AC440	400/415 V		А	110
Safe isolation to EN 61140 V AC between the contacts V AC	500 V		А	80
between the contacts VAC 440	690 V		А	60
	Safe isolation to EN 61140			
Current heat loss per contact at I _e W 0.6	between the contacts		V AC	440
	Current heat loss per contact at ${\rm I}_{\rm e}$		W	0.6

Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	0.6
Lifespan, mechanical	Operations	x 10 ⁶	>0.4
Maximum operating frequency	Operations/h	X IU	1200
AC	operations/in		
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	۱ _e	А	11.5
230 V star-delta	Ι _e	Α	20
400V 415 V	Ι _e	А	11.5
400 V star-delta	Ι _e	А	20
500 V	Ie	А	9
500 V star-delta	۱ _e	А	15.6
690 V	۱ _e	А	4.9
690 V star-delta	۱ _e	Α	8.5
AC-21A			
Rated operational current switch			
440 V	۱ _e	Α	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	I _e	A	13.3
400 V 415 V	le	A	13.3
500 V	l _e	A	13.3
690 V	Ie	A	7.6
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	le	A	10
Voltage per contact pair in series		V	60
DC-21A	le	Α	
Rated operational current	le	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V		٨	10
Rated operational current	le	A	10
Contacts		Quantity	1
48 V Betad operational current		٨	10
Rated operational current	le	A	10
Contacts 60 V		Quantity	2
		٨	10
Rated operational current	۱ _e	А	10

Contacts		Quantity	3
120 V			
Rated operational current	۱ _e	А	5
Contacts		Quantity	3
240 V			
Rated operational current	le	А	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	۱ _e	А	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
Terminal 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)
Terminal screw			M3.5
Max. tightening torque		Nm	1
Technical safety parameters:			
Notes			$\rm B10_{d}$ 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

Design vernication as per 120/214 01455			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	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
EC/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)

Low-voltage industrial components (EGUUUUT/) / Switch disconnector (ECUUU216)		
Electric engineering, automation, process control engineering / Low-voltage switch te [AKF060010])	echnology / Off-load s	witch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03
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
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-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		0
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		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting center		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP00