DATASHEET - T3-4-8234/XZ



T3, 32 A, rear mounting, Basic switch, 4 contact unit(s), Contacts: 7, 45 $^{\circ}$, design no. 8234



Part no. T3-4-8234/XZ Catalog No. 020559

Delivery program
Product range
Part group reference

Product range			Control switches
Part group reference			T3
Contacts			7
Design			rear mounting Basic switch
Contact sequence			1 1 2 3 4 5 6 7 3 1
Switching angle		0	45
Design number			8234
Front plate no.			$ \begin{array}{c c} & 3 & 4 \\ & 1 & 5 & 5 \\ & 7 & 6 \end{array} $ FS 412
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	15
Rated uninterrupted current	I _u	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.
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
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	32
Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ 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			

New	Fuse		A gG/gL	35
Name of security property or part EC 0847-3 All property propert	Rated short-time withstand current (1 s current)	I _{cw}		
Name	Note on rated short-time withstand current lcw			Current for a time of 1 second
Switching capacity as per EC 896-9	Rated conditional short-circuit current	l _o	kA	1
	Switching capacity	Ч		
1980 1980			Α	320
Marchal S	Rated breaking capacity cos φ to IEC 60947-3		Α	
500 V	230 V		Α	260
Selection Sele	400/415 V		Α	260
Safe isolation to TM 61140 Series with the cartacted in Carrant base for contract at I ₄ VAC 40 1.1 Current hear loss porr cauditary circuit at I ₄ (AC-15220 V) CO 1.1 <	500 V		Α	240
Detroven the contacts	690 V		Α	170
Current heat loss per contact at 1 ₂	Safe isolation to EN 61140			
Currown host fusion per auxiliarry circuit of 1, (AC-15/2019/1) Cleapan, inchancial Coperations 1, 100 Coperations 1, 100	between the contacts		V AC	440
Literapart, mechanical Operations progonary 2 (1) 2 (2) AC C C C Resinan, motor load switch P 6 (2) 1 (2) 220 V 220 V P 6 (2) 1 (2) 230 V Stan-delte P 6 (2) 1 (2) 400 V Stan-delte P 6 (2) 1 (2) 500 V Stan-delte P 6 (2) 1 (2) 500 V Stan-delte P 6 (2) 1 (2) 600 V P 6 (2) 2 (2) 500 V Stan-delte P 6 (2) 2 (2) 500 V Stan-delte P 6 (2) 2 (2) 200 V P 6 (2) 2 (2) 300 V Stan-delte P 6 (2) 2 (2) 400 V Stan-delte P 6 (2) <	Current heat loss per contact at I _e		W	1.1
Maximum operating frequency Operations by the content of	Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	1.1
Maximum operating frequency Operations by the content of	Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
AC-3 Resing, motor load switch P			X 10	1200
Reting, motor load switch P		Operations/ii		1200
Rating, motor load switch				
220 V 230 V P		P	k\//	
230 V Star-delta				5.5
### ACO V 15 V P WW 15 500 V Sur-delta P WW 15 500 V Sur-delta P WW 15 500 V Sur-delta P WW 165 500 V Sur-delta P WW 165 500 V Sur-delta P WW 22 Rated operational current motor load switch 230 V Lar-delta P WW 22 Rated operational current motor load switch 230 V Lar-delta I A 22.7 220 V Lar-delta I A 22.7 400 V star-delta I A 22.7 500 V Sur-delta I A 25.5 699 V I A 25.5 ### A 26.4 ### A 32.5 ### A 32.5				
MOU V Star-delta				
S00 V Star-delta				
500 V Star-delte P kW 18.5 680 V P kW 11 680 V Star-delte P kW 22 Rated operational current motor load switch 230 V Ie A 23.7 230 V star-delte Ie A 23.7 400 V star-delte Ie A 23.7 500 V Ie A 22.7 500 V star-delte Ie A 32 680 V star-delte Ie A 32 680 V star-delte Ie A 32 680 V star-delte Ie A 32 AC-23A Ie A 32 AC-23A Ie A 14.7 680 V star-delte P kW 7.5 40-23A P kW 7.5 40-23A P kW 15 500 V P kW 15 690 V P kW 15				
F				
Rated operational current motor load switch				
Rated operational current motor load switch 230 V				
			KVV	
230 V star-delta 10		l _o	Δ	23.7
A00V 415 V Ia				
400 V star-delta 500 V 1e A 23.7 500 V star-delta 1e A 32 690 V 690 V star-delta 1e A 14.7 690 V star-delta 1e A 25.5 AC-23A Motor rating AC-23A, 50 - 60 Hz 230 V P KW 230 V P KW 15 500 V P KW 15 690 V P KW 15 Comparisonal current motor load switch 230 V 1e A 32 400 V 415 V 1e A 32 500 V 1e A 32 500 V 1e A 26.4 690 V DC-1, Load-breek switches L/R = 1 ms Rated operational current Rated operational current 1e A 25 Voltage per contact pair in series V 60 DC-21A				
Soul				
S00 V star-delta				
690 V star-delta Ie			Α	
G90 V star-delta	500 V star-delta	l _e	Α	32
AC-23A Motor rating AC-23A, 50 - 60 Hz 230 V P kW 7.5 400 V 415 V P kW 15 500 V P kW 15 Rated operational current motor load switch 230 V le A 32 400 V 415 V le A 32 500 V le A 26.4 690 V le B C DC-1, Load-break switches L/R = 1 ms Rated operational current Rated operational current le A 25 Voltage per contact pair in series DC-21A le A C B C C C C C C C C C C C	690 V	l _e	Α	14.7
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 Rated operational current motor load switch F F 15 230 V Ie A 32 400 V 415 V Ie A 32 500 V Ie A 26.4 690 V Ie A 17 DC DC-1, Load-break switches L/R = 1 ms T T Rated operational current Ie A 25 Voltage per contact pair in series V 60 DC-21A Ie A E	690 V star-delta	l _e	Α	25.5
230 V	AC-23A			
400 V 415 V	Motor rating AC-23A, 50 - 60 Hz	P	kW	
500 V	230 V	P	kW	7.5
690 V P kW 15 Rated operational current motor load switch Ie A 32 230 V Ie A 32 400 V 415 V Ie A 26.4 500 V Ie A 17 DC DC-1, Load-break switches L/R = 1 ms Ie A 25 Voltage per contact pair in series V 60 DC-21A Ie A E	400 V 415 V	Р	kW	15
Rated operational current motor load switch Ie A 32 400 V 415 V Ie A 32 500 V Ie A 26.4 690 V Ie A 17 DC DC-1, Load-break switches L/R = 1 ms Ie A 25 Voltage per contact pair in series V 60 DC-21A Ie A A	500 V	P	kW	15
230 V Ie	690 V	P	kW	15
400 V 415 V	Rated operational current motor load switch			
500 V Ie	230 V	l _e	Α	32
690 V DC DC-1, Load-break switches L/R = 1 ms Rated operational current Voltage per contact pair in series DC-21A Rated operational current Ie A 25 V 60	400 V 415 V	l _e	Α	32
BC-1, Load-break switches L/R = 1 ms Rated operational current Voltage per contact pair in series DC-21A Rated DE-21A Le A 17 C C C C C C C C C C C C C C C C C C	500 V	I _e	Α	26.4
DC-1, Load-break switches L/R = 1 ms Rated operational current Voltage per contact pair in series DC-21A Reference of the contact pair in series V 60	690 V		Α	17
DC-1, Load-break switches L/R = 1 ms Rated operational current Voltage per contact pair in series V 60 DC-21A I _e A	DC			
Rated operational current Ie A 25 Voltage per contact pair in series V 60 DC-21A Ie A				
Voltage per contact pair in series V 60 DC-21A I _e A		ام	Α	25
DC-21A I _e A		Ü		
		lo		
nateu operational current				1
	nateu operauonai varretit	'e	^	

Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	Α	25
Contacts		Quantity	1
48 V			
Rated operational current	I _e	Α	25
Contacts		Quantity	2
60 V			
Rated operational current	I _e	Α	25
Contacts		Quantity	3
120 V			
Rated operational current	le	Α	12
Contacts		Quantity	3
240 V			
Rated operational current	I _e	Α	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	I _e	Α	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 failure in 100,000 switching 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
Tightening torque for terminal screw		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

Fechnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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
C/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			UV resistance only in connection with protective shield.
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 7.0

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@ss10.0.1-27-37-14-14 [ACN998011])

Type of switch		Level switch
Number of poles		1
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	Α	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		Other
Front shield size		Other
Degree of protection (IP), front side		IP00
Degree of protection (NEMA), front side		Other