# **DATASHEET - T3-4-8223/XZ**



Changeoverswitches, T3, 32 A, rear mounting, Basic switch, 4 contact unit(s), Contacts: 8, 90  $^{\circ}$ , Design number 8223



Part no. T3-4-8223/XZ Catalog No. 020557

<b>Delivery program</b>	4

		Control switches
		T3
		Changeoverswitches
		8
		rear mounting Basic switch
	0	90
		8223
		1 2 FS 943
P	kW	15
Iu	Α	32
		Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.
	contact unit(s)	4
		P kW Iu A

## **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			111/3
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 <sub>e</sub>	V AC	690
Rated uninterrupted current	I <sub>u</sub>	Α	32
Note on rated uninterrupted current $\boldsymbol{!}_{\boldsymbol{u}}$			Rated uninterrupted current $I_{\text{u}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I <sub>e</sub>	2
AB 40 % DF		x I <sub>e</sub>	1.6
AB 60 % DF		x I <sub>e</sub>	1.3
Short-circuit rating			

Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	650
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	1
Switching capacity	ч		
cos φ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	260
400/415 V		Α	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 I <sub>e</sub>		W	1.1
Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	> 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	Р	kW	11
400 V Star-delta	P	kW	15
500 V	P	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	I <sub>e</sub>	Α	23.7
230 V star-delta	I <sub>e</sub>	Α	32
400V 415 V	l <sub>e</sub>	A	23.7
400 V star-delta	I <sub>e</sub>	A	32
500 V			23.7
	le	A	
500 V star-delta	l <sub>e</sub>	Α	32
690 V	I <sub>e</sub>	Α	14.7
690 V star-delta	I <sub>e</sub>	Α	25.5
AC-21A			
Rated operational current switch			
440 V	l <sub>e</sub>	Α	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	l <sub>e</sub>	Α	32
400 V 415 V	l <sub>e</sub>	Α	32
500 V	I <sub>e</sub>	Α	26.4
690 V	I <sub>e</sub>	Α	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l <sub>e</sub>	Α	25

Voltage per contact pair in series IC-21A		V	60
70-21A	1	Α	
D. I. d. I. d.	l <sub>e</sub>		
Rated operational current	I <sub>e</sub>	Α	1
Contacts		Quantity	1
IC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l <sub>e</sub>	Α	25
Contacts		Quantity	1
48 V			
Rated operational current	l <sub>e</sub>	Α	25
Contacts		Quantity	2
60 V			
Rated operational current	I <sub>e</sub>	Α	25
Contacts		Quantity	3
120 V			
Rated operational current	I <sub>e</sub>	Α	12
Contacts		Quantity	3
240 V			
Rated operational current	I <sub>e</sub>	Α	5
Contacts		Quantity	5
OC-13, Control switches L/R = 50 ms			
Rated operational current	I <sub>e</sub>	Α	20
Voltage per contact pair in series		V	24
rol circuit reliability at 24 V DC, 10 mA	Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> ,< 1 failure in 100,000 switching operations
ninal capacities			
l or stranded		mm <sup>2</sup>	1 x (1 - 6) 2 x (1 - 6)
ble with ferrules to DIN 46228		mm <sup>2</sup>	1 x (0.75 - 4) 2 x (0.75 - 4)
inal screw			M4
tening torque for terminal screw		Nm	1.6
nnical safety parameters:			
s ng data for approved types			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1

Terminal capacity

Terminal screw

10.2.5 Lifting

echnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	32
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	1.1
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	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 $ \frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left($			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			UV resistance only in connection with protective shield.

M4

Does not apply, since the entire switch gear needs to be evaluated.  $\label{eq:constraint}$ 

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) / Off-load switch (EC001105)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Changeover switch (ecl@ss10.0.1-27-37-14-05 [AKF062013])

Number of poles		3
With 0 (off) position		No
With retraction in 0-position		No
Rated permanent current lu	А	32
Rated operation current le at AC-3, 400 V	А	23.7
Rated operation power at AC-3, 400 V	kW	12
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		Other
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
Material housing		Plastic
Type of control element		Other
Type of electrical connection of main circuit		Screw connection

## **Assets (links)**

**Declaration of CE Conformity** 

00003074

**Instruction Leaflets** 

IL03801006Z2018\_04

## **Additional product information (links)**

ILU38011006Z (AWAT150-1686) Cam switches: service distribution board					
IL03801006Z (AWA1150-1686) Cam switches: service distribution board	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801006Z2018_04.pdf				
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=43				
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf				