DATASHEET - T3-5-8346/XZ



On-Off switch, T3, 32 A, rear mounting, Basic switch, 5 contact unit(s), 10-pole $\frac{1}{2}$



Part no. T3-5-8346/XZ Catalog No. 020714

Similar to illustration

Delivery program			
Product range			On-Off switch
Part group reference			Т3
Number of poles			10-pole
Design			rear mounting Basic switch
Contact sequence			0 1 1 0
Switching angle		0	90
Design number			8346
Front plate no.			FS 908
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	I _u	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current I_u is specified for max. cross-section.
Number of contact units		contact unit(s)	

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			Bump near, cyclic, to 120 00000 2 00
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	- IIIIp	g	15
Mounting position		9	As required
Contacts			7.6.1646.164
Mechanical variables			
Number of poles			10-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	32
Note on rated uninterrupted current !u			Rated uninterrupted current $I_{\rm u}$ 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		6	
Fuse		A gG/gL	35
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	650
Note on rated short-time withstand current lcw	CVV	11113	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 _e		W	1.1
Current heat loss per auxiliary circuit at $I_{\rm e}$ (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations	x 10 ⁶	> 0.5
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	Р	kW	5.5
230 V Star-delta	Р	kW	7.5
400 V 415 V	Р	kW	11
	Г		
400 V Star-delta	P	kW	15
400 V Star-delta 500 V		kW kW	15 15
	P		
500 V	P P	kW	15
500 V 500 V Star-delta	P P P	kW kW	15 18.5
500 V 500 V Star-delta 690 V	P P P	kW kW kW	15 18.5 11
500 V 500 V Star-delta 690 V 690 V Star-delta	P P P	kW kW kW	15 18.5 11

400 V star rednita	400V 415 V		Α	23.7
500 y san-dela				
NO Valar-delia		l _e		
### Part		l _e	Α	
Rue of operational current switch	690 V star-delta	le	Α	25.5
ACOUNT				
ACC 27A Motor rating AC 27A 50 - 19 142 P				
Motion rating AC 23A, 51-60 Hz	440 V	l _e	Α	32
P				
March Marc				
SOUN				
Figure Part				
Rated operational current motor load avoitch				
230		Р	KVV	15
			٨	32
1				
Part				
DC-1_tood-break switches L/R = 1 ms Image: Contact of the contact pair in series Image: Contact pair in serie				
DC-1, Losd-break switches L/R = 1 ms		le	А	17
Rated operational current Inc. A 25 Voltage per contact pair in series Inc. A Contact Risted operational current Inc. A Contacts Contacts Unamity Inc. Contacts Rated operational current Inc. A 25 Contacts Unamity 25 Contacts				
Voltage per contact pair in series V 60 DC-21A Ie A Rated operational current Ie A Contacts V Ununtive DC-23A, motor load switch L/R = 15 ms V V 2A V V V Rated operational current Ie A 2 Contacts Ununtive 2 48 V Contacts V 2 Rated operational current Ie A 2 60 V V 2 Contacts Contacts W 2 Contacts Rated operational current Ie A 2 Rated operational current Ie A 12 PC-13, control switches I/R = 50 ms Ie A<				
DC-21A		I _e		
Rated operational current Incompany of the problems of				60
Contacts Quantity 1 DC-23A, motor load switch L/R = 15 ms 1 4 4 Rated operational current Ia A 25 Contacts Quantity 1 Rated operational current Ia A 25 Contacts Quantity 2 60 V V 2 Rated operational current Ia A 25 Contacts Quantity 3 Contacts Quantity 3 Rated operational current Ia A 12 Contacts Quantity 3 Rated operational current Ia A 12 Contacts Quantity 3 Contacts Quantity 5 Contacts Quantity 5 PC-13, Control switches L/R = 50 ms V 2 Rated operational current Ia A 20 Voltage per contact pair in series V 2 Control circuit reliability at 24 V DC, 10 mA				
DC-23A, motor load switch L/R = 15 ms	Rated operational current	l _e		
24 \			Quantity	1
Rated operational current Image				
Contacts				
AB TRAIN FRANCE		I _e		
Rated operational current Ia			Quantity	1
Contacts 60 V Rated operational current Contacts 120 V Rated operational current Rated operational current Contacts 120 V Rated operational current Contacts 240 V Rated operational current Rated operational current Contacts 240 V Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Pault Probability Fault Probability Fau				or.
Rated operational current		I _e		
Rated operational current Contacts 120 V Rated operational current PDC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Refined Capacities Terminal capacities Mm² 2 1× (1 - 6) 2×			Quantity	2
Contacts Rated operational current Contacts Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Pault probability Fault (1-6) 2 x (1-6) 2 x (1-6) 2 x (0.75 - 4)			^	OF.
120 V Rated operational current Contacts Quantity 240 V Rated operational current Rated operational current Rated operational current Contacts Contacts Contacts Contacts Contacts DC-13, Control switches L/R = 50 ms Rated operational current Rated operational current Voltage per contact pair in series Fault probability R + F	,	I _e		
Rated operational current Contacts Quantity A 5 Contacts Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault pr			Quantity	3
Contacts 240 V Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Terminal capacities Solid or stranded Flexible with ferrules to DIN 46228 Terminal screw Quantity 5 Quantity 6 Quantity 7 Quantity			٨	12
Rated operational current Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded Terminal capacities Mm² I x (1 - 6) 2 x (1 - 6) 2 x (1 - 6) 4 x (0.75 - 4) 2 x		1e		
Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability			quantity	3
Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded Flexible with ferrules to DIN 46228 Terminal screw Control circuit reliability at 24 V DC, 10 mA Fault probability F			Δ	5
Rated operational current Voltage per contact pair in series Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Terminal capacities Solid or stranded Mm² 1 x (1 - 6) 2 x (1 - 6) 1 x (0.75 - 4) 2 x (0.75 - 4) Terminal screw M4		'e		
Rated operational current Voltage per contact pair in series Vontrol circuit reliability at 24 V DC, 10 mA Fault probability Fault probability Fault probability Terminal capacities Solid or stranded Flexible with ferrules to DIN 46228 Terminal screw A 20 24 In 10 ⁻⁵ ,< 1 failure in 100,000 switching operations Ix (1 - 6) / 2x (1 - 6) x (1 - 6) / 2x (1 - 6) x (0.75 - 4) / 2x (0.75 - 4) x (0.75 - 4) / 2x (0.75 -			quantity	J
Voltage per contact pair in series Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability Terminal capacities Solid or stranded Flexible with ferrules to DIN 46228 Terminal screw Voltage per contact pair in series Voltage per con		I.	Δ	20
Control circuit reliability at 24 V DC, 10 mA Fault probability Fault probability HF < 10 ⁻⁵ ,< 1 failure in 100,000 switching operations Terminal capacities Solid or stranded mm² 1x (1 - 6) 2x (1 - 6) Flexible with ferrules to DIN 46228 mm² 1x (0.75 - 4) 2x (0.75 - 4) 4x		'e		
Terminal capacities Solid or stranded mm² 1x (1 - 6) 2x (1 - 6) 2x (1 - 6) 2x (0.75 - 4) Terminal screw M4		Fault		
Solid or stranded $mm^2 = \frac{1 \times (1-6)}{2 \times (1-6)}$ Flexible with ferrules to DIN 46228 $mm^2 = \frac{1 \times (0.75-4)}{2 \times (0.75-4)}$ Terminal screw $M4$			···F	< 10 ⁻ ,< 1 failure in 100,000 switching operations
2 x (1 - 6) Flexible with ferrules to DIN 46228	Terminal capacities			
Flexible with ferrules to DIN 46228 mm² 1 x (0.75 - 4) 2 x (0.75 - 4) Terminal screw M4	Solid or stranded		mm ²	
2 x (0.75 - 4) Terminal screw M4	Flexible with ferrules to DIN 46228		mm ²	1 x (0.75 - 4)
			ana	2 x (0.75 - 4)
Tightening torque for terminal screw Nm 1.6				
	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

Design verification as per IEC/EN 61439			
Technical 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
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			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) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as maintenance-/service switch Version as safety switch Version as emergency stop installation Version as reversing switch No No Number of switches 1 Max. rated operation voltage Ue AC Rated operating voltage V 690 - 690	[ANFU00U13])		
Version as safety switch Version as emergency stop installation Version as reversing switch No Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690	Version as main switch		No
Version as emergency stop installation Version as reversing switch No Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690	Version as maintenance-/service switch		No
Version as reversing switch No Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690	Version as safety switch		No
Number of switches 1 Max. rated operation voltage Ue AC V 690 Rated operating voltage VV 690 - 690	Version as emergency stop installation		No
Max. rated operation voltage Ue AC V 690 Rated operating voltage V 690 - 690	Version as reversing switch		No
Rated operating voltage V 690 - 690	Number of switches		1
	Max. rated operation voltage Ue AC	V	690
Rated permanent current lu A 32	Rated operating voltage	V	690 - 690
	Rated permanent current lu	Α	32

Rated permanent current at AC-23, 400 V	Α	32
Rated permanent current at AC-21, 400 V	Α	32
Rated operation power at AC-3, 400 V	kW	11
Rated short-time withstand current lcw	kA	0.65
Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	1
Number of poles		10
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 centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		Yes
Colour control element		Black
Type of control element		Toggle
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP00
Degree of protection (NEMA)		Other

Assets (links)

Declaration of CE Conformity

00003074

Instruction Leaflets

IL03801006Z2018_04

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/IL03801006Z2018_04.pdf			
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=41			
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf			
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/D0CUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf			