DATASHEET - T3-5-8346/E



On-Off switch, T3, 32 A, flush mounting, 5 contact unit(s), 10-pole, with black thumb grip and front plate



Part no. T3-5-8346/E Catalog No. 057090

Similar to illustration

Delivery program		
Product range		On-Off switch
Part group reference		Т3
		with black thumb grip and front plate
Number of poles		10-pole
Degree of Protection		Front IP65
Design		flush mounting
Contact sequence		0 1 1 0
Switching angle	0	90
Switching performance		maintained
Design number		8346

Front plate no.			FS 908
front plate			0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	l _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.
Number of contact units		contact unit(s)	5

Technical data

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Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL 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			
Mechanical variables			
Number of poles			10-pole
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	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 I _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
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			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	1
Switching capacity			
$\cos \phi$ 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 _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	Р	kW	
220 V 230 V	Р	kW	5.5
230 V Star-delta	Р	kW	7.5
400 V 415 V	Р	kW	11
400 V Star-delta	P	kW	15
500 V	Р	kW	15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	Р	kW	22
Rated operational current motor load switch			
230 V	l _e	Α	23.7
230 V star-delta	l _e	Α	32
400V 415 V	I _e	Α	23.7
400 V star-delta	l _e	Α	32
500 V	I _e	Α	23.7
500 V star-delta	I _e	Α	32
690 V	I _e	Α	14.7
690 V star-delta	I _e	Α	25.5
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	7.5
400 V 415 V	Р	kW	15
500 V	Р	kW	15
690 V	P	kW	15
Rated operational current motor load switch			
230 V	l _e	Α	32
400 V 415 V	l _e	Α	32
500 V	l _e	Α	26.4
690 V	I _e	Α	17
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	25
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 $L/R=15~\text{ms}$			
24 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	2
60 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	3
120 V			
Rated operational current	l _e	Α	12
Contacts		Quantity	3
240 V			

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 Flexible with ferrules to DIN 46228 Terminal screw Terminal	Rated operational current	I _e	Α	5
DC-13. Cantrol switches UR = 50 ms		·e		
Ruted operational current I			Quantity	· ·
Voltage per contact pair in series V 24 Control circular reliability at 24 V D.10 mA Fault probability No. 10 % 1 failure in 100,000 switching operations Terminal capacities V 2 x 11 - 51 cm 100,000 switching operations Flexible with ferrules to DIN 48298 Inm² 2 x 10.75 - 40 cm 20 cm			^	20
Control circuit reliability at 24 VDC, 10 mA Fault probability Pault probability		1 _e		
Terminal Capacities				
Solid or stranded nm² 2/1 (- 5) 11 (- 5) 2 (- 1			HF	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Fiecible with forrules to DIN 49228				
Feminal screw	Solid or stranded		mm ²	1 x (1 - 6) 2 x (1 - 6)
Tighteening torque for terminal screw Nm 1.6 Totalisafety parameters: Notes a bite values as per EN ISO 13849-1, table C1 Ratating data for approved types VAC 600 Rated operational voltage VAC 600 Rated uninterrupted current max. A 25 Auxiliary contacts A 25 General Use Iu A bite of the conduction of the contact of the co	Flexible with ferrules to DIN 46228		mm ²	
Technical safety parameters: Notes Blog values as per EN ISO 13849-1, table C1 Rating dats for approved types Contacts Rated operational voltage Ug VAC Rated uninterrupted current max. Main conducting paths General use Maximary contacts A 55 Auxiliary contacts A 600 Pilot Duty A 600 Switching capacity Maximar motor rating B 7 A 55 Single-phase HP 3 A 5 200 V AC HP 3 A 5 200 V AC HP 3 A 5 200 V AC HP 3 A 5 400 V AC HP 5 A 5 800 V AC HP 5 A 5 800	Terminal screw			M4
Roting data for approved types Home data for approved types Contacts Vac 90 Rated quarterinal voltage Vac 90 Rated quarteringted current max. Walk producting paths 20 General Use Vac 25 Auxiliary contacts Vac 400 Switching capacity A00 400 Switching capacity A00 400 Maximum motor rating Vac 400 200 VAC 40 3 200 VAC 40 3 200 VAC 40 3 200 VAC 40 3 400 VAC 40 3 400 VAC 40 3 400 VAC 40 3 400 VAC 40 4 800 VAC 40 4 81sic Fasting	Tightening torque for terminal screw		Nm	1.6
Rating data for approved types Contacts	Technical safety parameters:			
Contacts VAC 600 Rated uninterrupted current max. 4 5 Main conducting paths A 25 Auxiliary contacts M 10 Pilot Duty A 6000 Switching capacity A 6000 Maximum motor rating B 4600 Single-phase B 120 VAC 200 V AC HP 1.5 200 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 3 480 V AC HP 3 480 V AC HP 3 600 V AC HP 7.5 600 V AC HP 7.5 600 V AC HP 7.5 Basic Rating KA 5 max Fuse KA 10 High fault rating KA 10 max Fuse KA 10 High fault rating KA 10 <td></td> <td></td> <td></td> <td>B10_d values as per EN ISO 13849-1, table C1</td>				B10 _d values as per EN ISO 13849-1, table C1
Rated perational voltage U _n VAC 600 Rated uninterrupted current max. ————————————————————————————————————	Rating data for approved types			
Rated uninterrupted current max. Main conducting paths A 25 General use Auxiliary contacts Iu A 10 General Use Iu A 10 Pilot Duty A600 A600 Switching capacity Flag A500 Maximum motor rating Flag 15 Single-phase HP 15 200 V AC HP 3 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 3 480 V AC HP 7.5 600 V AC HP 7.5 Short Circuit Current Rating SCCR HP Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40 High fault rati				
Main conducting paths A 25 Auxiliary contacts Iu A 10 General Use Iu A 10 Pilot Duty A 600 Switching capacity F F Maximum motor rating F F Single-phase HP 1.5 200 V AC HP 3 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 3 480 V AC HP 3 600 V AC HP 10 Short Circuit Current Rating SCCR HP Basic Rating A 5 max. Fuse A 40 High fault rating A 40 High fault rating A 40 max. Fuse A 40 High fault rating A 40 High fault rating A 40 High fault r	Rated operational voltage	U _e	V AC	600
	Rated uninterrupted current max.			
Auxiliary contacts Iu A 10 General Use Pilot Duty A 600 Switching capacity Permitting Capacity Permitting Capacity Permitting Capacity Single-phase Permitting Capacity Permitting Capacity Permitting Capacity 200 V AC Permitting Capacity Permitting Capacity Permitting Capacity 200 V AC Permitting Capacity Permitting Capacity Permitting Capacity Short Circuit Current Rating Permitting Capacity Permitting Capacity Permitting Capacity Terminal capacity AUX 4 10 Solid or flexible conductor with ferrule Permitting Capacity Permitting Capacity	Main conducting paths			
	General use		Α	25
Pilot Duty A 600 Switching capacity A 600 Maximum motor rating A 600 Single-phase B 7 120 V AC HP 1.5 200 V AC HP 3 240 V AC HP 3 240 V AC HP 3 480 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity A 40, Class J Solid or flexible conductor with ferrule AWG 14 - 10	Auxiliary contacts			
Switching capacity Heading capacity Heading capacity Single-phase HP 1.5 200 V AC HP 3 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 240 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity AWG 14-10	General Use	I _U	Α	10
Maximum motor rating Single-phase HP 1.5 200 V AC HP 3 240 V AC HP 3 Three-phase Three-phase 200 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity AUG, Class J	Pilot Duty			A 600
Single-phase HP 1.5 200 V AC HP 3 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 44-10 Solid or flexible conductor with ferrule AWG 14-10	Switching capacity			
120 V AC HP 1.5 200 V AC HP 3 Three-phase	Maximum motor rating			
200 V AC	Single-phase			
240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity A 40, Class J Solid or flexible conductor with ferrule AWG 14 - 10	120 V AC		HP	1.5
Three-phase HP 3 200 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10	200 V AC		HP	3
200 V AC HP 3 240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity A 40, Class J Solid or flexible conductor with ferrule AWG 14 - 10	240 V AC		HP	3
240 V AC HP 3 480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity A 40, Class J Solid or flexible conductor with ferrule AWG 14 - 10	Three-phase			
480 V AC HP 7.5 600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10 Solid or flexible conductor with ferrule AWG 14 - 10	200 V AC		HP	3
600 V AC HP 10 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10	240 V AC		НР	3
Short Circuit Current Rating Basic Rating KA 5 max. Fuse A 40 High fault rating KA 10 max. Fuse A 40, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	480 V AC		НР	7.5
Basic Rating kA 5 max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity AWG 14 - 10	600 V AC		НР	10
max. Fuse A 40 High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	Short Circuit Current Rating		SCCR	
High fault rating kA 10 max. Fuse A 40, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	Basic Rating		kA	5
max. Fuse A 40, Class J Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	max. Fuse		Α	40
Terminal capacity Solid or flexible conductor with ferrule AWG 14 - 10	High fault rating		kA	10
Solid or flexible conductor with ferrule AWG 14 - 10	max. Fuse		А	40, Class J
	Terminal capacity			
Terminal screw M4	Solid or flexible conductor with ferrule		AWG	14 - 10
	Terminal screw			M4

Design verification as per IEC/EN 61439

Tightening torque

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			

lb-in

17.7

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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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])

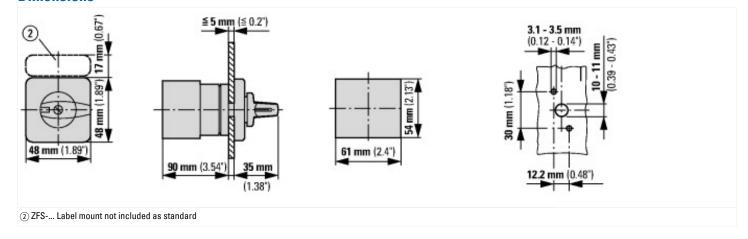
Device construction Suitable for ground mounting			Built-in device fixed built-in technique No
Voltage release optional			No
Motor drive integrated			No
Motor drive optional			No
Number of auxiliary contacts as change-over contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Number of poles			10
Conditioned rated short-circuit current Iq	k#	A	1
Switching power at 400 V	kV	N	15
Rated operation power at AC-23, 400 V	kV	N	15
Rated short-time withstand current lcw	k.A	4	0.65
Rated operation power at AC-3, 400 V	kV	N	11
Rated permanent current at AC-21, 400 V	А		32
Rated permanent current at AC-23, 400 V	А		32
Rated permanent current lu	А		32
Rated operating voltage	V		690 - 690
Max. rated operation voltage Ue AC	V		690
Number of switches			1
Version as reversing switch			No No
Version as safety switch Version as emergency stop installation			No
Version as maintenance-/service switch			No No
Version as main switch			No .
[AKFUBUU 13])			N.

Suitable for front mounting 4-hole	Yes
Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	No
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	IP65
Degree of protection (NEMA)	12

Approvals

Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



Additional product information (links)

Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=41
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html