## **DATASHEET - T3-11-8367/Z**



Changeoverswitches, T3, 32 A, rear mounting, 11 contact unit(s), Contacts: 22, 45  $^{\circ}$ , maintained, With 0 (Off) position, 1-0-2, design no. 8367



Part no. T3-11-8367/Z Catalog No. 003914

Similar to illustration

Product range Part group reference Part group refer	Delivery program	
Beate function  Centracts  Degree of Protection  Design  Contact sequence  Contact s		Control switches
Contacts  Design  Contact sequence  Contact sequ	Part group reference	T3
Contacts   Degree of Protection   Print PES	Basic function	Changeoverswitches
Degree of Protection  Design  Contact sequence  Contact sequence  To a sequence		with black thumb grip and front plate
Design  Contact sequence  Contact sequence  To 2 2 0 X X X X X X X X X X X X X X X X X	Contacts	22
Contact sequence  1 0 2 3 0 X X 3 0 0 X 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Degree of Protection	Front IP65
10	Design	rear mounting
10		
Switching angle ° 45		1 0

Switching performance			maintained With 0 (Off) position
Design number			8367
Front plate no.			FS 684
front plate			1-0-2
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 $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.
Number of contact units		contact unit(s)	11

IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3

# **Technical data**

#### **General** Standards

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 <sub>imp</sub>	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	Iu	Α	32
Note on rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$			Rated uninterrupted current $\boldsymbol{I}_{\boldsymbol{u}}$ 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			
$\cos \phi$ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity $\cos\phi$ 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	X 10	1200
AC	Ореганопа/п		1200
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	Р	kW	5.5
230 V Star-delta	P	kW	7.5
400 V 415 V	P	kW	11
400 V Star-delta	Р	kW	15
500 V	Р	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>	A	23.7
230 V star-delta	I <sub>e</sub>	A	32
400V 415 V		A	23.7
400 V star-delta	l <sub>e</sub>		
	l <sub>e</sub>	A	32
500 V	l <sub>e</sub>	A	23.7
500 V star-delta	I <sub>e</sub>	Α	32
690 V	l <sub>e</sub>	Α	14.7
690 V star-delta	l <sub>e</sub>	Α	25.5
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	Р	kW	7.5
400 V 415 V	Р	kW	15
500 V	Р	kW	15
690 V	Р	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	I <sub>e</sub>	Α	25
Voltage per contact pair in series		V	60
DC-21A	I <sub>e</sub>	Α	
Rated operational current	l <sub>e</sub>	Α	1
Contacts		Quantity	1
DC-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	I <sub>e</sub>	Α	25
Contacts		Quantity	2
60 V			
Rated operational current	I <sub>e</sub>	Α	25
Contacts		Quantity	
120 V			
Rated operational current	I <sub>e</sub>	Α	12
Contacts	Ü	Quantity	
240 V		_aamaty	
*			

Contacts         Cuantity	Rated operational current	I <sub>e</sub>	Α	5
0C-13, Centrol switches LR = 50 ms         Natio operational current         I.e.         A 20           Voltage per contact spair in series         V 24           Control crouter failability at 24 V DC, 10 mA         Fault probability         IP v 10 <sup>-</sup> , < 1 failure in 100,000 switching operations		'e		
Rated operational current         Iq         A         20           Voltage per contract pair in series         V         24           Control circuit reliability at 24 VD C, 10 mA         Fault probability         He         10 5 × 1 failure in 100,000 switching operations           Flexible with ferrules to DIN 46228         mm²         1 × (1 - E)         2 × (1 - E)           Flexible with ferrules to DIN 46228         mm²         1 × (1 - E)         4 × (2 - E)           Flexibility with ferrules to DIN 46228         mm²         2 × (20.75 - 4)         4 × (2 - E)           Cerbnical Series         w         Ma         4 × (2 - E)         4 × (2 - E)           Cerbnical Series         w         Ma         5 × (2 - E)         4 × (2			Quantity	5
Worldage per contact pair in series         V         24           Control circuit reliability at 24 V D.C.10 mA         Fault probability         %         4 10 % 1 failure in 100,000 switching operations           Fleminal capacities         X X 1 - 6)           Flewble with ferrules to DIN 46228         mm²         1 x 10 5 - 4)           Fleminal screw         Ma         14           Floridating for parameters:         With parameters         M4           Floridation Safety parameters:         With parameters         M5 (20)           Contracts         Bitug values as per EN ISO 18849-1, table C1         Amm²           Related animetrupted current max.         With parameters         M5 (20)           General use         With parameters         A 25           Auditory contacts         M5 (20)         M5 (20)           General use         M5 (20)         M5 (20)           Maximum motor rating         M5 (20)         M5 (20)           Switching capacity         M6 (20)         M6 (20)           Maximum motor rating         M6 (20)         M7 (20)         M7 (20)           Single-phase         M6 (20)         M6 (20)         M6 (20)           Three-phase         M6 (20)         M7 (20)         M6 (20)           QUAC				
		I <sub>e</sub>		
Probability   Probability				
			H <sub>F</sub>	< 10 <sup>-5</sup> ,< 1 failure in 100,000 switching operations
	Solid or stranded		mm <sup>2</sup>	1 x (1 - 6) 2 x (1 - 6)
Name	Flexible with ferrules to DIN 46228		mm <sup>2</sup>	
Notes	Terminal screw			M4
Notes         Blody values as per EN ISO 13849-1, table C1           Rating tar for approved types         Value VAC         Isomorphism (and conducting paths)         Isomorphism (and conducti	Tightening torque for terminal screw		Nm	1.6
Rated operational voltage	Technical safety parameters:			
Contacts         V AC         600           Rated uninterrupted toage         A         600           Rated uninterrupted votage         A         25           Main conducting paths         A         25           Auxiliary contacts         B         A         10           Pilot Duty         A         800           Switching capacity         A         800           Maximum motor rating         B         A         800           Single-phase         B         B         A         800           200 V AC         BP         1.5         B           200 V AC         BP         3         B           Three-phase         B         BP         3         B           200 V AC         BP         3         B           480 V AC         BP         3         B           480 V AC         BP         3         B           600 V AC         BP         3         B           Basic Rating         B         B         B         B           Basic Rating         B         A         B           Basic Rating         B         A         B           B	Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
Rated operational voltage         U <sub>n</sub> VAC         600           Rated uninterrupted current max.         VAC         600           Main conducting paths         A         25           Auxiliary contacts         Iu         A         10           General Use         Iu         A         10           Pilot Duty         A         600           Switching capacity         A         600           Maximum motor rating         HP         1.5           Single-phase         HP         3           200 V AC         HP         3           200 V AC         HP         3           200 V AC         HP         3           480 V AC         HP         3           480 V AC         HP         5           600 V AC         HP         5           Short Circuit Current Rating         KA         5           Basic Rating         KA         5           max. Fuse         KA         10           High fault rating         KA         10           max. Fuse         KA         10           High fault rating         KA         10           Max. Fuse         KA         <				
Rated uninterrupted current max.         Head of Control use         A 2         Example of Control use         Auxiliary contacts         Auxiliary contacts         A 5         Example of Control use         Auxiliary contacts         A 600         Auxiliary control use         A 600	Contacts			
Main conducting paths         A         25           Auxiliary contacts         I         A         10           Pilot Duty         A         600           Switching capacity         A         600           Maximum motor rating         B	Rated operational voltage	U <sub>e</sub>	V AC	600
General use         A         25           Auxiliary contacts         Iu         A         10           General Use         Iu         A         10           Pilot Duty         A600         A600           Switching capacity         A600         A600           Maximum motor rating         A600         A600           Single-phase         HP         1.5           200 V AC         HP         3           240 V AC         HP         3           200 V AC         HP         3           240 V AC         HP         5.5           480 V AC         HP         5.5           480 V AC         HP         7.5           880 V AC         HP         7.5           880 V AC         HP         1.0           980 V AC         HP         1.0           199 V AC         1.0         1.0           190 V AC         1.0         1.0           190 V AC         1.0         1.0           190 V AC         1.0	Rated uninterrupted current max.			
Auxiliary contacts  General Use  Pilot Duty  Switching capacity  Maximum motor rating  Single-phase  120 V AC 200 V AC 200 V AC 200 V AC 200 V AC 40 HP 200 V AC 40 HP 3 3 Three-phase  200 V AC 40 HP 3 3 40 HP 40 A	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           200 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	Auxiliary contacts			
Switching capacity         Image: Control of the properties of the pro	General Use	I <sub>U</sub>	Α	10
Maximum motor rating         Here         1.5           120 V AC         HP         3           240 V AC         HP         3           240 V AC         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           Terminal capacity         AWG         4-10	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         41-10	Switching capacity			
120 V AC       HP       1.5         200 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       AW6       41-10	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       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 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  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       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       A       40, Class J         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		HP	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		HP	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		HP	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		Α	40, Class J
	Terminal capacity			
Terminal screw M4			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	$P_{\text{vid}}$	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
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 to observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must lobserved.
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])

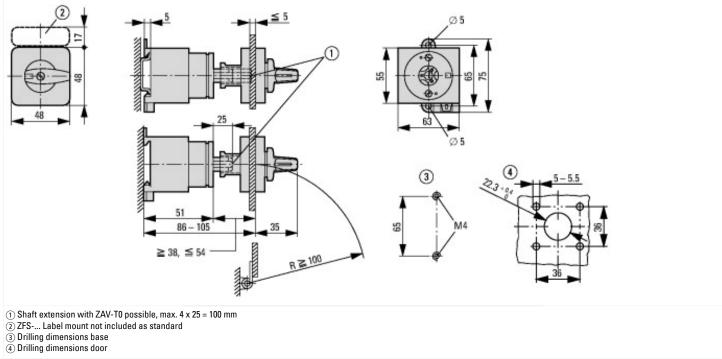
Model		Reverser
Number of poles		11
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	Α	32
Rated operation current le at AC-3, 400 V	Α	23.7
Rated operation power at AC-3, 400 V	kW	12
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		12
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		Toggle
Type of electrical connection of main circuit		Screw connection

# 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.	1	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=114
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