#### **DATASHEET - T3-6-8271/E**



Step switches, T3, 32 A, flush mounting, 6 contact unit(s), Contacts: 12, 45 °, maintained, Without 0 (Off) position, 1-4, design no. 8271



Part no. T3-6-8271/E Catalog No. 028643

Similar to illustration

Delivery program			
Product range			Control switches
Part group reference			Т3
Basic function			Step switches
			with black thumb grip and front plate
Contacts			12
Degree of Protection			Front IP65
Design			flush mounting
Contact sequence			
Switching angle		0	45
Switching performance			maintained Without 0 (Off) position
Design number			8271
Front plate no.			FS 406
front plate			1-4
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	15
Rated uninterrupted current	l <sub>u</sub>	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)	6

# **Technical data**

General			
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			T. B. Toquinos
Electrical characteristics			
Rated operational voltage	U <sub>e</sub>	V AC	690
Rated uninterrupted current	Iu	Α	32
Note on rated uninterrupted current !u	<u> </u>		Rated uninterrupted current $I_u$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			<b>u</b>
AB 25 % DF		x l <sub>e</sub>	2
AB 40 % DF		x l <sub>e</sub>	1.6
AB 60 % DF			
		x l <sub>e</sub>	1.3
Short-circuit rating		A = C/=1	or.
Fuse		A gG/gL	
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 φ rated making capacity as per IEC 60947-3		Α	320
Rated breaking capacity cos φ to IEC 60947-3		A	020
230 V		A	260
400/415 V		A	260
500 V		A	240
690 V		A	170
Safe isolation to EN 61140		Α	
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 <sub>e</sub> (AC-15/230 V)		CO	1.1
Lifespan, mechanical	Operations		> 0.5
		x 10 <sup>6</sup>	
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P P	kW	
220 V 230 V 230 V Star-delta	P	kW	5.5 7.5
400 V 415 V	P	kW	11
400 V Star-delta	P		
400 V Star-delta 500 V	P	kW	15 15
500 V Star-delta	P	kW	18.5
690 V	P	kW	11
690 V Star-delta	P	kW	22
Rated operational current motor load switch		KVV	
230 V	l <sub>e</sub>	A	23.7
230 V 230 V star-delta			32
	le	A	
400V 415 V	l <sub>e</sub>	A	23.7
400 V star-delta	l <sub>e</sub>	Α	32
500 V	le	Α	23.7
500 V star-delta	l <sub>e</sub>	Α	32
690 V	l <sub>e</sub>	Α	14.7
690 V star-delta	I <sub>e</sub>	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	Р	kW	15

Rated operational current motor load switch			
230 V	I <sub>e</sub>	A	32
400 V 415 V	l <sub>e</sub>	A	32
500 V	l <sub>e</sub>	Α	26.4
690 V	l <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		V	60
DC-21A	I <sub>e</sub>	Α	
Rated operational current	I <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	3
120 V			
Rated operational current	I <sub>e</sub>	A	12
Contacts		Quantity	3
240 V		,	
Rated operational current	I <sub>e</sub>	A	5
Contacts	· ·	Quantity	
DC-13, Control switches L/R = 50 ms		Zuumary	
Rated operational current	I <sub>e</sub>	A	20
Voltage per contact pair in series	·e	V	24
Control circuit reliability at 24 V DC, 10 mA	Fault	H <sub>F</sub>	
Control circuit reliability at 24 V DG, 10 IIIA	probability	''F	< 10 <sup>-5</sup> ,< 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 <sup>2</sup>	1 x (0.75 - 4)
100000000000000000000000000000000000000		mm	2 x (0.75 - 4)
Terminal screw			M4
Tightening torque for terminal screw		Nm	1.6
Technical safety parameters:			
Notes			B10 <sub>d</sub> values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts  Pated operational voltage	П	V AC	600
Rated operational voltage	U <sub>e</sub>	v AU	600
Rated uninterrupted current max.  Mein conducting paths			
Main conducting paths		۸	25
General use		Α	25
Auxiliary contacts	L	٨	10
General Use	l <sub>U</sub>	Α	10
Pilot Duty			A 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	1.5
200 V AC		HP	3

240 V AC	НР	3
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	А	40
High fault rating	kA	10
max. Fuse	Α	40, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	14 - 10
Terminal screw		M4
Tightening torque	lb-in	17.7

# Design verification as per IEC/EN 61439

10.2 Strength of materials and parts  10.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of ASSEMBLIES  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Inscription of switching devices and components  10.5 Inscription of switching devices and components  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Insulation properties  10.9.1 Power-frequency electric strength  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9 Insulation properties  10.9.3 Impulse withstand voltage  10.9.1 Short-circuit rating  10.11 Short-circuit rating  Neets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  10.9 Insulation properties  10.9.2 Power-frequency electric strength  Is the panel builder's responsibility.  10.9.1 Temperature rise  The panel builder's responsibility.  10.9.1 Temperature rise  Is the panel builder's responsibility.  10.10 Temperature rise  Lis the panel builder's responsibility. The specifications for the switchgear must be observed.	Technical data for design verification			
Equipment heat dissipation, current-dependent Ped W 0 Static heat dissipation, non-current-dependent Peg W 0 Static heat dissipation, non-current-dependent Peg W 0 Operating ambient temperature min. Operating ambient temperature max.  **C 25 Operating ambient temperature max.  **CC 50  **Meets the product standard's requirements.  **Meets the product standard's requirements.  **Meets the product standard's requirements.  **Does not apply, since the entire swritchgear neads to be evaluated.  **Does not apply, since the entire swritchgear neads to be evaluated.  **Meets the product standard's requirements.  **Does not apply, since the entire swritchgear neads to be evaluated.  **Meets the product standard's requirements.  **Does not apply, since the entire swritchgear neads to be evaluated.  **Meets the product standard's requirements.  **Does not apply, since the entire swritchgear neads to be evaluated.  **Meets the product standard's requirements.  **Does not apply, since the entire swritchgear neads to be evaluated.  **Does not apply, sin	Rated operational current for specified heat dissipation	In	Α	32
Static heat dissipation, non-current-dependent Pess W 0  Operating ambient temperature main. Operating ambient temperature main. Operating ambient temperature max. CEC 95  CEC 100  CE	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	1.1
Heat dissipation capacity  Operating ambient temperature min.  Operating ambient temperature max.  EECR 16139 design verification  10.2 Strongth of materials and parts  10.2.2 Torrosion resistance  10.2.3 Verification of resistance of insulating materials to abnormal heat and fire deut internal electric directs  10.2.3 Verification of resistance of insulating materials to abnormal heat and fire deut internal electric directs  10.2.3 Verification of resistance of insulating materials to abnormal heat and fire deut internal electric directs  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Operating administration of the service product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  UV resistance only in connection with protective shield.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  10.3 Incorporation of switching devices and components  10.4 Clearances and creepage distances  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  10.9 Insulation properties  10.9 Power-frequency electric strength  10.9 Power-frequency electric strength  10.9 Power-frequency electric strength  10.9 P	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
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10.3 Degree of protection of ASSEMBLIES  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction  The device meets the requirements, provided the information in the instruction	10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  10 be evaluated.  11.15 the panel builder's responsibility.  12.16 the panel builder's responsibility.  13.17 the panel builder's responsibility.  14.18 the panel builder's responsibility.  15.19 the panel builder's responsibility.  16.11 Short-circuit rating  17.12 Electromagnetic compatibility  18. The panel builder's responsibility. The specifications for the switchgear must be observed.  18. The panel builder's responsibility. The specifications for the switchgear must be observed.  19.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Electromeents, provided the information in the instruction	10.2.7 Inscriptions			Meets the product standard's requirements.
10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility. The specifications for the switchgear must be observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder is responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.7 Internal electrical circuits and connections  1s the panel builder's responsibility.  10.8 Connections for external conductors  1s the panel builder's responsibility.  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  In the panel builder's responsibility observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction.	10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors  10.9 Insulation properties  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Short-circuit function  10.15 The panel builder's responsibility. The specifications for the switchgear must be observed.  10.15 The device meets the requirements, provided the information in the instruction	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
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10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Is the panel builder's responsibility.  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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	10.9 Insulation properties			
10.9.4 Testing of enclosures made of insulating material  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	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
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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	10.10 Temperature rise			
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	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 switch gear must be observed. $\label{eq:constraint}$
	10.13 Mechanical function			

# **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		3
Max. rated operation voltage Ue AC	V	690
Rated permanent current lu	Α	32
Number of switch positions		4
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		No
Suitable for front mounting 4-hole		Yes
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Complete device in housing		No
Type of control element		Toggle
Front shield size		48x48 mm
Degree of protection (IP), front side		IP65

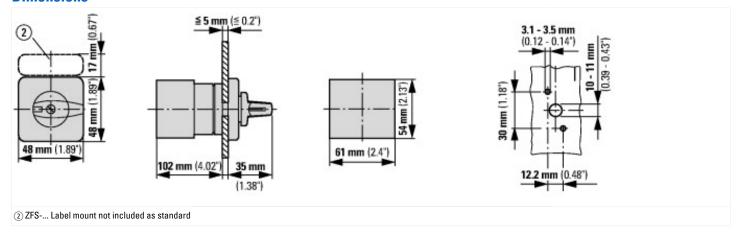
### **Approvals**

Degree of protection (NEMA), front side

PP	
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

12

# **Dimensions**



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

production (minor)	
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=82
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