

Multi-speed switches, Contacts: 6, 63 A, 2 speeds, front plate: 2-0-1, 60 °, maintained, rear mounting

Powering Business Worldwide[™]

Part no. Article no. T5B-3-7/Z 092391



Similar to illustration

Similar to illustration			
Delivery program			
Product range			Control switches
Part group reference			T5B
Basic function			Multi-speed switches
			with black thumb grip and front plate
Contacts			6
Degree of Protection			Front IP65
Design			rear mounting
Contact sequence			
switching function			2 speeds
Switching angle		o	60
Switching performance			maintained With 0 (Off) position
Front plate no.			FS 621
front plate			2-0-1
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	30
Rated uninterrupted current	I _u	A	63
Number of contact units		contact unit(s)	

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

		III/3
U _{imp}	V AC	6000
•	q	15
	J	As required
		Finger and back-of-hand proof
U _e	V AC	690
I_{u}	Α	63
		Rated uninterrupted current lu is specified for max. cross-section.
	x I _e	2
	x I _e	1.6
	x I _e	1.3
	A gG/gL	80
I _{cw}	A _{rms}	1300
		Current for a time of 1 second
Iq	kA	2
		800
		- F00
		520
		600
		480 340
	^	340
	VΔC	440
		4.5
		4.5
Operations		> 0.5
	X IU	1200
орегация»/п		1200
P	kW	
P		15
P		18.5
Р	kW	22
P	kW	30
P	kW	22
Р	kW	37
P	kW	15
Р	kW	22
le	Α	51
le	Α	63
l _e	Α	41
I _e	Α	63
I _e	Α	33
l _e	Α	57.2
I _e	Α	17
I _e	Α	29.4
	Ue Iu Icw Iq Operations Operations/h P P P P P P P P P P Ie Ie Ie Ie Ie Ie Ie Ie	

440 V	l _e	Α	63
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Р	kW	
230 V	Р	kW	18.5
400 V 415 V	Р	kW	30
500 V	Р	kW	22
690 V	Р	kW	22
Rated operational current motor load switch			
230 V	I _e	Α	63
400 V 415 V	l _e	Α	63
500 V	l _e	Α	33
690 V	l _e	Α	23.8
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	63
Voltage per contact pair in series		V	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	Α	50
Contacts	-	Quantity	1
48 V			
Rated operational current	I _e	Α	50
Contacts	·e	Quantity	
60 V		Quantity	2
Rated operational current		Α	50
	l _e		
Contacts		Quantity	3
120 V			as a
Rated operational current	l _e	Α	25
Contacts		Quantity	3
240 V			
Rated operational current	l _e	Α	20
Contacts		Quantity	6
DC-13, Control switches L/R = 50 ms			
Rated operational current	le	Α	25
Voltage per contact pair in series		V	24
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	$<$ 10 $^{-5}$, $<$ 1 fault in 100000 operations
Terminal capacities	probability		
Solid or stranded		mm ²	1 x (2,5 - 35)
			2 x (2,5 - 16)
Flexible with ferrules to DIN 46228		mm^2	1 x (1 - 25) 2 x (1.5 - 10)
Terminal screw			M6
Max. tightening torque		Nm	4
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use	I _U	Α	63
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		НР	3
120 7 7 70			ı*

200 V AC	HP	7.5
240 V AC	HP	10
Three-phase		
200 V AC	HP	15
240 V AC	HP	15
480 V AC	HP	40
600 V AC	HP	40
Short Circuit Current Rating	SCCR	
High fault rating	kA	10
max. Fuse	А	100, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	12 - 4
Terminal screw		M6
Tightening torque	lb-in	35.4

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	4.5
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			Please enquire
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 switch gear must be observed. $\label{eq:constraint}$
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			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Off-load switch (EC001105)

Electric engineering, automation, process control engineering / Low-voltage switch [AKF062010]) $$	technology / Off-load s	switch, circuit breaker, control switch / Changeover switch (ecl@ss8.1-27-37-14-05
Model		Pole switch
Number of poles		3
With 0 (off) position		Yes
With retraction in 0-position		No
Rated permanent current lu	Α	63
Rated operation current le at AC-3, 400 V	Α	41
Rated operation power at AC-3, 400 V	kW	22
Degree of protection (IP), front side		IP65
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

Approvals

Complete device in housing Type of control element

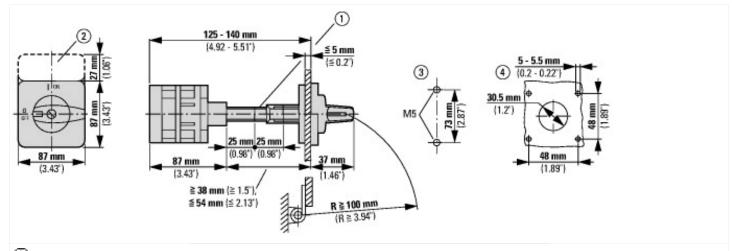
Type of electrical connection of main circuit

- ipprovate	
Product Standards	UL 508; CSA-C22.2 No. 14-05; 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

Toggle

Screw connection

Dimensions



- Shaft extension with ZAV-P3 possible, max. 4 x 25 = 100 mm
- ZFS-... Label mount not included as standard
- lacksquare Drilling dimensions base

Additional product information (links)

IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors	
IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2016_07.pdf
Display flip catalog page.	http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=135

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