

Star-delta switches, Contacts: 7, 63 A, front plate: 0-Y-D, 60 °, maintained, surface mounting, SOND 27 $\,$

Powering Business Worldwide*

Part no. T5B-4-24/14 Article no. 222515

Similar to illustration

Product range			
rrouncerange			Control switches
Part group reference			T5B
Basic function			Star-delta switches
			with black thumb grip and front plate
Notes			SOND 27
Contacts			7
Degree of Protection			IP65
			totally insulated
Design			surface mounting
Contact sequence			
Switching angle		0	60
Switching performance			maintained With 0 (Off) position
Front plate no.			FS 635
front plate			0-Y-D
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	30
Rated uninterrupted current	I _u	Α	63
Number of contact units		contact unit(s)	4

Technical data General

delielai	
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			
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
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Contacts			
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	63
Note on rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$			Rated uninterrupted current lu is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	80
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1300
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	2
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	520
400/415 V		Α	600
500 V		Α	480
690 V		Α	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	4.5
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	4.5
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	15
230 V Star-delta	Р	kW	18.5
400 V 415 V	P	kW	22
400 V Star-delta	P	kW	30
500 V	P	kW	22
500 V Star-delta	P	kW	37
690 V	P	kW	15
690 V Star-delta	Р	kW	22
Rated operational current motor load switch		۸	E1
230 V	l _e	A	51
230 V star-delta	l _e	A	63
400V 415 V	l _e	Α	41
400 V star-delta	l _e	Α	63
500 V	l _e	Α	33
500 V star-delta	l _e	Α	57.2
690 V	le	Α	17

l _e	Α	29.4
I _e	Α	63
P	kW	
P	kW	18.5
Р	kW	30
Р	kW	22
Р	kW	22
ام	A	63
		63
		33
l _e	Α	23.8
l _e	Α	63
	V	60
l _e	Α	50
L	Δ	50
'e		
	uuantity	L
l _e	Α	50
	Quantity	3
l _e	Α	25
	Quantity	3
l _e	Α	20
lo	Δ	25
·e		
F!r		24
Fault probability	HF	< 10 ⁻⁵ , < 1 fault in 100000 operations
	mm ²	1 x (2,5 - 35)
		2 x (2,5 - 16)
	mm^2	1 x (1 - 25) 2 x (1.5 - 10)
		M6
	Nm	
	INIII	4
		B10 _d values as per EN ISO 13849-1, table C1
		2.5g 15.500 do poi 211100 10010 1, table 01
U.	V AC	600
O _e	V AU	
lu	Α	63
10		
	P P P P Ie Ie Ie Ie Ie Iu Ue Iu	P kW P kW P kW P kW P kW I e A

Maximum motor rating		
Single-phase		
120 V AC	HP	3
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	НР	40
600 V AC	HP	40
Short Circuit Current Rating	SCCR	
High fault rating	kA	10
max. Fuse	Α	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

In	Α	63
P _{vid}	W	4.5
P _{vid}	W	0
P _{vs}	W	0
P _{diss}	W	0
	°C	-25
	°C	40
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
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		Please enquire
		Does not apply, since the entire switchgear needs to be evaluated.
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		Meets the product standard's requirements.
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		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		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.
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		The device meets the requirements, provided the information in the instruction
	$\begin{aligned} & P_{vid} \\ & P_{vid} \\ & P_{vs} \end{aligned}$	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

Technical data ETIM 6.0

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@ss8.1-27-37-14-05 [AKF062010])

Model			Star-delta switch
Number of poles			3
With 0 (off) position			Yes
With retraction in 0-position			No
Rated permanent current lu	А	4	63
Rated operation current le at AC-3, 400 V	А	4	41
Rated operation power at AC-3, 400 V	k\	:W	37
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			No
Complete device in housing			Yes
Type of control element			Toggle
Type of electrical connection of main circuit			Screw connection

Approvals

D 1 (0) 1 1	UI 500 00A 000 0N 44 05 00A 000 0N 04 150/5N 00047 0 05
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.	3211-07
North America Certification	UL listed, CSA certified
Specially designed for North America	Yes, additional labeling according to UL on the enclosure in combination with "+NA- I4" (105868)
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Additional product information (links)

IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors IL03801009Z (AWA1150-1692) Cam switches: ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2016_07.pdf switch-disconnectors http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=141 Display flip catalog page. Standard interlock SOND27, 28, 29, 30 ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MZ008001ZU.pdf Technical overview cam switch, switchhttp://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2 disconnector http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4 System overview cam switch T 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