

Star-delta switchSurface mounting

T0-4-8410/I1



Part no.

Article no.

207140

Delivery programme			
Product range			Switch-disconnectors
Basic function			Star-delta switches
Part group reference			то
Design			Surface mounting
Protection type			IP65
			totally insulated
Emergency stop			without emergency switching off/emergency stop function
			with black thumb grip and front plate
Contact sequence			
Front plate no.			0 ↓ △ FS 635
Main conducting paths			
No. of poles		М	3
Max. motor rating			
AC-23A			
400/415 V 50-60 Hz	Р	kW	6.5
Rated uninterrupted current	lu	А	20

General

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Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60947-3
Lifespan, mechanical	Operations	x 10 ⁶	0.5
Maximum operating frequency		Operatio h	on <i>\$</i> 7000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Ambient temperature		°C	
Open		°C	- 25 - 50
Enclosed		°C	- 25 - 40
Mounting position			As required

Mechanical shock resistance to IEC 60068-2-27	Half- sinusoidal shock 20 ms	g	> 15
Contacts			
Rated operational voltage	U _e	V AC	690
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current	lu	А	
open	lu	А	20
Enclosed	lu	А	20
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x l _e	1.3
Short-circuit rating		e	
Fuse		A	20
		gG/ gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between the contacts		V AC	440
Switching angles		o	90 60 45 30
Contact units			11
Double-break contacts			max. 22
Current heat loss per contact at I _e		W	0.6
Terminal capacities			
Solid or stranded		mm ²	1 x (1 - 2.5) 2 x (1 - 2.5)
Flexible with ferrule to DIN 46228		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Terminal screw			M3.5
Tightening torque		Nm	1
Switching capacity			
AC		x U _s	
Rated making capacity $\cos \phi = 0.35$		А	130
Rated breaking capacity, motor load switch cos ϕ = 0.35		A	
230 V		A	100
400 V		А	110
500 V		A	80
690 V		A	60
Rated operational current 440 V load-break switch AC-21A	l _e	Α	20
Rating, AC-3 motor load switch	P	kW	
220 V 230 V	P	kW	4
230 V Star-delta	P	kW	4
380 V 400 V	P	kW	5.5
400 V Star-delta 500 V	P P	kW kW	5.5
500 V Star-delta	P	kW	7.5
660 V 690 V	P	kW	5.5
690 V Star-delta	P	kW	5.5
AC-23A Motor load switches (main switches maintenance switches)	P	kW	
230 V	P	kW	3.5
400 V	P	kW	6.5
TUU V	r	NVV	U.J

500 V	Р	kW	7.5
Rated operational current control switch AC-15			
220 V 230 V 240 V	l _e	А	6
380 V 400 V 415 V	l _e	А	4
500 V	I _e	А	2
DC		x U _s	
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	А	10
Voltage per contact pair in series		V	60
DC-21A	l _e	А	
Rated operational current 240 V	l _e	А	1
240 V Contacts		Quantity	/ 1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	Ι _e	А	10
Contacts		Quantity	(1
48 V			
Rated operational current	Ι _e	А	10
Contacts		Quantity	· 2
60 V			
Rated operational current	Ι _e	А	10
Contacts		Quantity	/ 3
120 V			
Rated operational current	Ι _e	А	5
Contacts		Quantity	/ 3
240 V			
Rated operational current	le	А	5
Contacts		Quantity	/ 5
DC-13, Control switches L/R = 50 ms			
Rated operational current	Ι _e	А	10
Voltage per contact pair in series		۷	32
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	$<$ 10 $^{-5},<$ 1 fault in 100000 operations

Notes

Notes The following applies for solid, multiwire, and flexible terminal capacities: If 2 conductors are being used, a max. difference of 2 cross-section categories is permissible

Technical data ETIM 4.0

Number of auxiliary contacts as N/Cs		0
With 0 (off) position		YES
Туре		Star-delta switches
Motor rating at AC-3, 400 V	kWh	5.5
Number of auxiliary contacts as N/Os		0
Suitable for front mounting		No
Protection type (IP), at front		IP65
Rated uninterrupted current lu	А	20
Suitable for base fixing		YES
Number of auxiliary contacts as changeover contacts		0
Suitable for distribution board installation		No
Suitable for rear mounting		No
Complete device in housing		YES
Type of control element		Toggle
Number of poles		3
Connection type main circuit		Screw connection



Dimensions



Depth of a contact unit: 9.5 mm



Additional product information (links)

IL03801007Z (AWA1150-1687) Cam switch: Surface mounting enclosure

IL03801007Z (AWA1150-1687) Cam switch: Surface mounting enclosure

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801007Z2011_06.pdf

http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=49