

Change over switch, 2-way switchServ.dis

Part no. T0-2-8221/IVS Article no. 057832





Catalog No. CT02-8221-SDKBQ

	_					
n	\sim	livo.		-	***	nme
	м	IIVE	1 V II		11 211	

Product range			Switch-disconnectors
Basic function			Changeoverswitches
Part group reference			Т0
Design			Distribution board - assembly
Protection type			Front IP30
Emergency stop			without emergency switching off/emergency stop function
			Without 0 (Off) position with black thumb grip and front plate
Contact sequence			- X X X
Front plate no.			1 v ² FS 943
Main conducting paths			
No. of poles		М	2
Max. motor rating			
AC-23A			
400/415 V 50-60 Hz	Р	kW	6.5

Approvals
Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Specially designed for NA
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332
NLRV
12528
3211-05
UL listed, CSA certified
Yes, in combination with "+NA" (105864)
Branch circuits
IEC: IP30; UL/CSA Type: —

General

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	0.4

Maximum operating frequency		Operati h	on\$4000
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	Iu	Α	
open	Iu	Α	20
Enclosed	I _u	Α	20
Load rating with intermittent operation, class 12	u		
AB 25 % DF		x I _e	2
AB 40 % DF		x l _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating		v i6	
Fuse		Α	20
ruse		gG/ gL	20
Rated short-time withstand current (1 s current)	I _{cw}	A_{rms}	320
Safe isolation to EN 61140			
between the contacts		V AC	440
Switching angles		o	90 60 45
Contractority			30
Contact units			11
Double-break contacts		14/	max. 22
Current heat loss per contact at l _e		W	0.6
Terminal capacities Solid or stranded		mm ²	1 x (1 - 2.5) 2 x (1 - 2.5)
Flexible with ferrules to DIN 46228		mm^2	
Flexible with ferrule		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		xU_{s}	
Rated making capacity $\cos \phi = 0.35$		Α	130
Rated breaking capacity, motor load switch $\cos\phi$ = 0.35		Α	
230 V		Α	100
400 V		Α	110
500 V		Α	80
690 V		Α	60
Rated operational current 440 V load-break switch AC-21A	l _e	Α	20
Rating, AC-3 motor load switch	Р	kW	
220 V 230 V	Р	kW	2.2
230 V Star-delta	Р	kW	4
380 V 400 V	P	kW	2.2

400 V Star-delta	Р	kW	5.5
500 V	Р	kW	5.5
500 V Star-delta	Р	kW	7.5
660 V 690 V	Р	kW	4
690 V Star-delta	Р	kW	5.5
AC-23A Motor load switches (main switches maintenance switches)	Р	kW	
230 V	Р	kW	3.5
400 V	Р	kW	6.5
500 V	Р	kW	7.5
Rated operational current control switch AC-15			
220 V 230 V 240 V	l _e	Α	6
380 V 400 V 415 V	l _e	Α	4
500 V	l _e	Α	2
DC		xU_{s}	
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	Α	10
Voltage per contact pair in series		V	60
DC-21A	l _e	Α	
Rated operational current 240 V	I _e	Α	1
240 V Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I _e	Α	10
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	2
60 V			
Rated operational current	l _e	Α	10
Contacts		Quantity	3
120 V			
Rated operational current	I _e	Α	5
Contacts		Quantity	3
240 V			
Rated operational current	l _e	Α	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	l _e	Α	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ , < 1 fault in 100000 operations
Notes	probability		

Notes

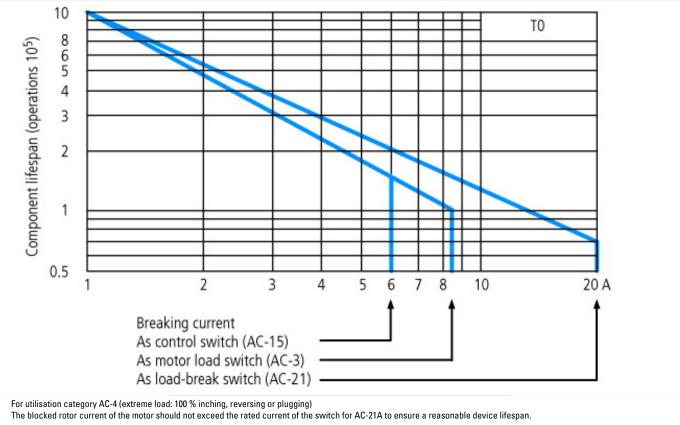
Notes The following applies for solid, multiwire, and flexible terminal capacities: If 2 conductors are being used, a max. difference of 2 cross-section categories is permissible

Technical data ETIM 4.0

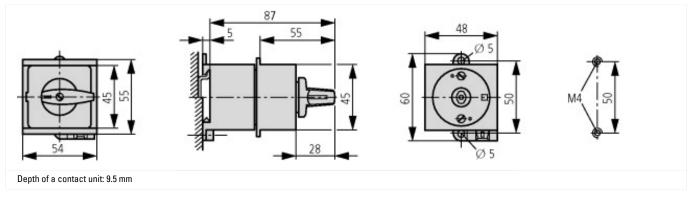
Tooliilour data Errivi 4.0				
Model		Reverser		
Number of poles		2		
With 0 (off) position		No		
Rated permanent current lu	Α	20		
Rated operation power at AC-3, 400 V	kW	4		
Degree of protection (IP), front side		IP30		
Number of auxiliary contacts as normally closed contact		0		
Number of auxiliary 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	Yes
Suitable for intermediate mounting	No
Complete device in housing	No
Type of control element	Toggle
Connection type main current circuit	Screw connection





Dimensions



Additional product information (links)

http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87

http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=43