DATASHEET - T0-3-8342/V/SVB



Main switch, T0, 20 A, rear mounting, 3 contact unit(s), 6 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no.T0-3-8342/V/SVBCatalog No.034128

0001417030

EL-Nummer (Norway)

Delivery program

Product range			Main switch maintenance switch Repair switch
Part group reference			то
Stop Function			Emergency switching off function
			With red rotary handle and yellow locking ring
Number of poles			6 pole
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			rear mounting
Contact sequence			
Switching angle		0	90
Design number			8342
Function			
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	kW	5.5
Rated uninterrupted current	lu	A	20
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Number of contact units		contact unit(s)	3

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			111/3
Rated impulse withstand voltage	U _{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required

Contacts

Mechanical variables			
			6 polo
Number of poles			6 pole
Electrical characteristics			200
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	lu	A	20
Note on rated uninterrupted current !u			Rated uninterrupted current I _u 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 l _e	1.3
Short-circuit rating			
Fuse		A gG/gL	20
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	lq	kA	6
Switching capacity			
$\cos\phi$ rated making capacity as per IEC 60947-3		А	130
Rated breaking capacity $\cos \phi$ to IEC 60947-3		А	
230 V		А	100
400/415 V		А	110
500 V		А	80
690 V		А	60
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at l _e		W	0.6
Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V)		C0	0.6
Lifespan, mechanical	Operations	x 10 ⁶	> 0.4
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	3
230 V Star-delta	Р	kW	5.5
400 V 415 V	Р	kW	5.5
400 V Star-delta	Р	kW	7.5
500 V	Р	kW	5.5
500 V Star-delta	Р	kW	7.5
690 V	Р	kW	4
690 V Star-delta	Р	kW	5.5
Rated operational current motor load switch			
230 V	l _e	A	11.5
230 V star-delta	l _e	A	20
400V 415 V	l _e	A	11.5
400 V star-delta		A	20
400 V Stat-deita 500 V	l _e		9
	l _e	A	
500 V star-delta	l _e	A	15.6
690 V	le	A	4.9
690 V star-delta	le	A	8.5
AC-21A			
Rated operational current switch			
440 V	le	А	20
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	Ρ	kW	

200.1/	D	134/	
230 V	P	kW	3
400 V 415 V	Р	kW	5.5
500 V	P	kW	7.5
690 V	P	kW	5.5
Rated operational current motor load switch			
230 V	le	А	13.3
400 V 415 V	Ie	А	13.3
500 V	le	A	13.3
690 V	le	A	7.6
DC	-		
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _e	A	10
	'e		
Voltage per contact pair in series		V	60
DC-21A	le	A	
Rated operational current	le	A	1
Contacts		Quantity	1
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	Ie	А	10
Contacts		Quantity	1
48 V			
Rated operational current	le	A	10
Contacts	-	Quantity	2
60 V		addinity)	
Rated operational current		A	10
	l _e		
Contacts		Quantity	3
120 V			
Rated operational current	l _e	A	5
Contacts		Quantity	3
240 V			
Rated operational current	Ι _e	А	5
Contacts		Quantity	5
DC-13, Control switches L/R = 50 ms			
Rated operational current	le	A	10
Voltage per contact pair in series		V	32
Control circuit reliability at 24 V DC, 10 mA	Fault	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
	probability		
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	1 x (0.75 - 2.5)
		IIIIN	2 x (0.75 - 2.5)
Terminal screw			M3.5
Tightening torque for terminal screw		Nm	1
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		A	16
Auxiliary contacts			
General Use	IU	A	10
Pilot Duty	ů do na		A 600
, not buy			P 300

Switching capacity		
Maximum motor rating		
Single-phase		
120 V AC	HP	0.5
200 V AC	HP	1
240 V AC	HP	1.5
Three-phase		
200 V AC	HP	3
240 V AC	HP	3
480 V AC	HP	7.5
600 V AC	HP	7.5
Short Circuit Current Rating	SCCR	
Basic Rating	kA	5
max. Fuse	А	50
High fault rating	kA	10
max. Fuse	А	20, Class J
Terminal capacity		
Solid or flexible conductor with ferrule	AWG	18 - 14
Terminal screw		M3.5
Tightening torque	lb-in	8.8

Design verification as per IEC/EN 61439

besign vermeation as per indy into the			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0.6
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			UV resistance only in connection with protective shield.
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 switchgear must be observed.

10.13 Mechanical function

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 leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

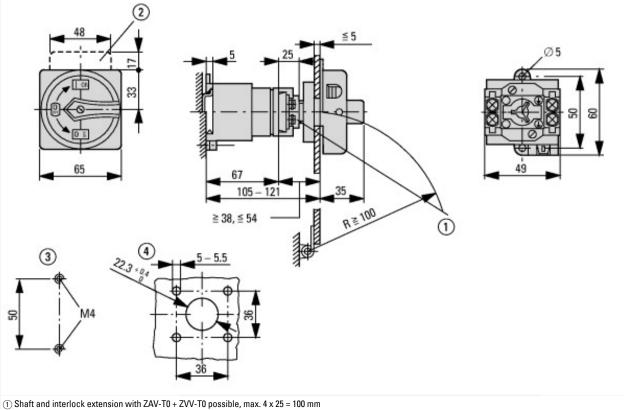
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as maintanance-/service switch Yes Version as servery stop installation No Version as emergency stop installation Yes Version as reversing switch No Number of switchs No Number of switchs No Rate operation voltage UAC Version Rate operation power at AC-23, 400 V A Rate operation power at AC-3, 400 V A Natch operation power at AC-3, 400 V No Solichling work at 400 V Solichling work at 400 V Number of audiary contacts anomally collect contact No Number of audiary contacts anomally collect contact No Number of audiary contacts anomally collect contact No Number of audiary contacts anomally collect contact No <t< th=""><th>Version as main switch</th><th></th><th>Yes</th></t<>	Version as main switch		Yes
Version as energency stop installation Yee Version as reversing switch No Number of switches I Nac, rated operation voltage Ue AC SPO Rated operation voltage Ue AC A Rated operation voltage Ue AC A Rated operation power at AC-23, 400 V A Nated operation power at AC-23, 400 V A Rated operation power at AC-23, 400 V S So thiching power at AC-23, 400 V A Number of poles A Number of poles A Number of auxiliary contacts as normally open contact A Number of auxiliary contacts as normally open contact A Noder Arive integrated A	Version as maintenance-/service switch		Yes
Version as reversing switchNoNumber of switches1Max. rated operation voltage Ue AC600Rated operating voltageVRated operation power at AC-23, 400 VARated operation power at AC-31, 400 VVRated operation power at AC-31, 400 VVRated operation power at AC-31, 400 VVRated operation power at AC-32, 400 VSRated operation power at AC-33, 400 VSRated operation power at AC-33, 400 VSRated operation power at AC-34, 400 VSRated operation power at AC-34, 400 VSRated operation power at AC-34, 400 VSNumber of polesSNumber of auxiliary contacts as normally closed contactONumber of auxiliary contacts as normally closed contactONumber of auxiliary contacts as change-over contactONumber of auxiliary contacts as change-over contactNoNumber of auxiliary contacts as change-over contactNoNotact chire dottering at ContactNoNotact chire dottering at ContactNoNotact chire dottering at ContactNo<	Version as safety switch		No
Number of switchesIMax. rated operation voltage Ue AC90Rated operating voltage90Rated operating voltage90Rated operating voltage90Rated permanent current Iu0Rated permanent current at AC-23, 400 V90Rated operation power at AC-3, 400 V90Number of poles90Number of poles90Number of auxiliary contacts as normally closed contact90Number of auxiliary contacts as change-over contact90Number of auxiliary contacts as change-over contact90Number of auxiliary contacts as change-over contact90Notor drive integrated90Voltage release optional90Notor drive integrated90Voltage release optional90Device construction90Suitable for ground mounting90Suitable for ground mounting90Suitable for ground mounting90Suitable for ground mounting90Suitable for ground mounting <td>Version as emergency stop installation</td> <td></td> <td>Yes</td>	Version as emergency stop installation		Yes
Max. rated operation voltage Ue AC Velocity 90 Rated operating voltage Velocity 90-900 Rated operating voltage Velocity 90-900 Rated permanent current lu 0 3.3 Rated permanent current at AC-23, 400 V Velocity 5.5 Rated permanent current at AC-23, 400 V Velocity 5.5 Rated operation power at AC-30, 400 V Velocity 5.5 Rated operation power at AC-23, 400 V Sold 3.2 Rated operation power at AC-23, 400 V Sold 3.2 Rated operation power at AC-23, 400 V Sold 3.2 Rated operation power at AC-23, 400 V Sold 3.2 Soltching power at 400 V Sold Sold Conditioned rated short-circuit current lq Keloky Sold Number of poles Gold Gold Number of auxiliary contacts as normally closed contact Monordrive optional No Number of auxiliary contacts as change-over contact No No Notor drive integrated No No Notact chared built-in technique	Version as reversing switch		No
Rated operating voltage V 600 600 Rated permanent current lu A 0 Rated permanent current at AC-23, 400 V A 13.3 Rated permanent current at AC-21, 400 V A 0 Rated permanent current at AC-21, 400 V K 0 Rated permanent current at AC-21, 400 V K 0 Rated permanent current at AC-21, 400 V K 0 Rated permanent current at AC-21, 400 V K 0 Rated permanent current at AC-21, 400 V K 0 Rated permanent current low K 0 Switching power at 400 V K 0 Conditioned rated short-circuit current lq K 0 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as change-over contact No 0 Notor drive aptional K No No Not	Number of switches		1
Rated permanent current lu A 0 Rated permanent current at AC-23, 400 V A 13.3 Rated permanent current at AC-21, 400 V A 0 Rated permanent current at AC-23, 400 V KW 5.5 Rated permanent current lcw KW 5.5 Switching power at AC-23, 400 V KW 5.5 Switching power at 400 V KW 5.5 Conditioned rated short-circuit current lq KW 6 Number of poles 6 6 Number of auxiliary contacts as normally cosed contact MC 0 Number of auxiliary contacts as change-over contact No 0 Motor drive integrated No No 1 Voltage release optional No No 1 Voltage release optional No No 1 Voltage release	Max. rated operation voltage Ue AC	V	690
Rated permanent current at AC-23, 400 V A 3.3 Rated permanent current at AC-21, 400 V A 0 Rated operation power at AC-3, 400 V KW 5.5 Rated operation power at AC-23, 400 V C A Rated operation power at AC-23, 400 V S 5.5 Switching power at AC-23, 400 V KW 5.5 Switching power at 400 V KW 5.5 Conditioned rated short-circuit current lq KW 5.5 Number of poles G G Number of auxiliary contacts as normally closed contact G G Number of auxiliary contacts as change-over contact G G Number of auxiliary contacts as change-over contact G G Number of auxiliary contacts as change-over contact G G Number of auxiliary contacts as change-over contact G G Number of auxiliary contacts as change-over contact G G Number of auxiliary contacts as change-over contact G G Not chrive optional G G G Not chrive optional G G G Not chrive optional	Rated operating voltage	V	690 - 690
Rated permanent current at AC-21,400 V A A Rated operation power at AC-3,400 V KW 5.5 Rated short-time withstand current lcw KA 0.32 Rated operation power at AC-23,400 V KW 5.5 Switching power at AC-30,400 V KW 5.5 Switching power at AC-23,400 V KW 5.5 Switching power at AC-23,400 V KW 5.5 Switching power at AC-23,400 V KW 6 Switching power at AC-23,400 V KW 5.5 Switching power at AC-23,400 V KW 6 Switching power at AC-23,400 V KW 6 Switching power at AC-23,400 V KW 5.5 Switching power at AC-23,400 V KW 6 Switching power at AC-23,400 V KW 6 Number of auxiliary contacts as normally closed contact Motor drive optional 0 Number of auxiliary contacts as change-over contact Motor drive optional No Notor drive optional No No No Voltage release optional Switchin device fixed built-in technique No Switable for ground mounting Swi	Rated permanent current lu	А	20
Rated operation power at AC-3, 400 V KW 5. Rated short-time withstand current lcw KM 0.32 Rated operation power at AC-23, 400 V KW 5.5 Switching power at 400 V KM 5.5 Conditioned rated short-circuit current lq KM 6 Number of poles G 6 Number of auxiliary contacts as normally closed contact G 0 Number of auxiliary contacts as change-over contact G 0 Notor drive optional KM No 0 Notor drive integrated No No 0 Voltage release optional KM No No Device construction Soff Soff Soff Suitable for ground mounting KM Soff Soff	Rated permanent current at AC-23, 400 V	А	13.3
Rated short-time withstand current lcw KA 0.32 Rated operation power at AC-23, 400 V KW 5.5 Switching power at 400 V KW 5.5 Conditioned rated short-circuit current lq KA 6.4 Number of poles 6 6.4 Number of auxiliary contacts as normally closed contact 0 0.4 Number of auxiliary contacts as normally open contact 0 0.4 Number of auxiliary contacts as change-over contact No 0.4 Notor drive optional Voltage release optional No Notage release optional No No Device construction Soltable for ground mounting No	Rated permanent current at AC-21, 400 V	А	20
Rated operation power at AC-23, 400 V KW 5.5 Switching power at 400 V KW 5.5 Conditioned rated short-circuit current lq KA 6 Number of poles 6 6 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 0 0 Number of auxiliary contacts as normally open contact No 0 Number of auxiliary contacts as normally open contact No No Number of auxiliary contacts as normally open contact No No Number of auxiliary contacts as change-over contact No No Notor drive optional No No Notor drive integrated No No Voltage release optional No No Device construction Suit-in device fixed built-in technique Suitable for ground mounting Yes Yes	Rated operation power at AC-3, 400 V	kW	5.5
Switching power at 400 V KW 5.5 Conditioned rated short-circuit current Iq KA 6 Number of poles 6 6 Number of auxiliary contacts as normally closed contact 9 0 Number of auxiliary contacts as normally open contact 9 0 Number of auxiliary contacts as change-over contact 9 0 Motor drive optional 6 0 Notar drive integrated 9 0 Voltage release optional 9 0 Device construction 9 9 0 Suitable for ground mounting 9 9 0	Rated short-time withstand current lcw	kA	0.32
Conditioned rated short-circuit current Iq KA 6 Number of poles 6 6 Number of auxiliary contacts as normally closed contact 0 0 Number of auxiliary contacts as normally open contact 6 0 Number of auxiliary contacts as normally open contact 6 0 Number of auxiliary contacts as change-over contact 6 0 Motor drive optional 6 0 0 Notor drive integrated 6 No 0 Voltage release optional 6 No 0 Device construction 6 6 No Suitable for ground mounting 6 6 0	Rated operation power at AC-23, 400 V	kW	5.5
Number of poles6Number of auxiliary contacts as normally closed contact<	Switching power at 400 V	kW	5.5
Number of auxiliary contacts as normally closed contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Number of auxiliary contacts as normally open contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Number of auxiliary contacts as change-over contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Number of auxiliary contacts as change-over contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Notor drive optional Image: Contact is a normally closed contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Notor drive integrated Image: Contact is a normally closed contact Image: Contact is a normally closed contact Image: Contact is a normally closed contact Notage: release optional Image: Contact is a normal	Conditioned rated short-circuit current Iq	kA	6
Number of auxiliary contacts as normally open contact Memory open contact 0 Number of auxiliary contacts as change-over contact 0 0 Motor drive optional Motor drive integrated No Voltage release optional Motor drive integrated No Device construction Motor drive integrated No Suitable for ground mounting Motor drive integrated No	Number of poles		6
Number of auxiliary contacts as change-over contact Image: Contacts as change-over contact Image: Contacts as change-over contact Motor drive optional Image: Contacts as change-over contact Image: Contacts as change-over contact Image: Contacts as change-over contact Motor drive optional Image: Contacts as change-over contact Image: Contacts as change-over contact Image: Contacts as change-over contacts Voltage release optional Image: Contacts as change-over contacts Image: Contacts as change-over contacts Image: Contacts as change-over contacts Device construction Image: Contacts as change-over contacts Image: Contacts as change-over contacts Image: Contacts as change-over contacts Suitable for ground mounting Image: Contacts as change-over contacts Image: Contacts as change-over contacts Image: Contacts as change-over contacts	Number of auxiliary contacts as normally closed contact		0
Motor drive optional Moder No Motor drive integrated Moder No Voltage release optional Moder No Device construction Moder No Suitable for ground mounting Moder Moder	Number of auxiliary contacts as normally open contact		0
Motor drive integrated No Voltage release optional Motor drive integrated Device construction Motor drive integrated Suitable for ground mounting Motor drive integrated	Number of auxiliary contacts as change-over contact		0
Voltage release optional Mo Device construction Mo Suitable for ground mounting Mo	Motor drive optional		No
Device construction Mail Construction Suitable for ground mounting Mail Construction	Motor drive integrated		No
Suitable for ground mounting Yes	Voltage release optional		No
	Device construction		Built-in device fixed built-in technique
Suitable for front mounting 4-hole No	Suitable for ground mounting		Yes
	Suitable for front mounting 4-hole		No
Suitable for front mounting centre No	Suitable for front mounting centre		No
Suitable for distribution board installation No	Suitable for distribution board installation		No
Suitable for intermediate mounting Yes	Suitable for intermediate mounting		Yes
Colour control element Red	Colour control element		Red
Type of control element Door coupling rotary drive	Type of control element		Door coupling rotary drive
Interlockable Yes	Interlockable		Yes
Type of electrical connection of main circuit Screw connection	Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side IP65	Degree of protection (IP), front side		IP65
Degree of protection (NEMA) 12	Degree of protection (NEMA)		12

Approvals

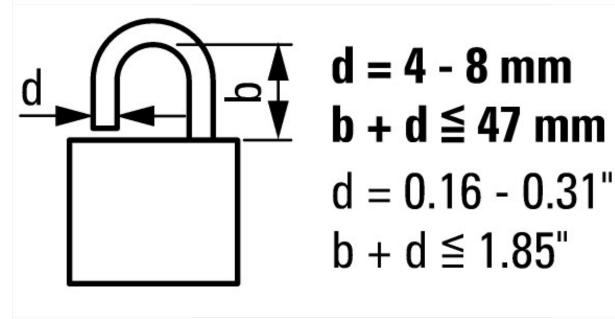
Product Standards	UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL Category Control No.	NLRV
CSA File No.	12528
CSA Class No.	3211-05
North America Certification	UL listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions



2 ZFS-... Label mount not included as standard $\stackrel{\scriptstyle{\scriptstyle{\frown}}}{\scriptstyle{\scriptstyle{\odot}}}$ Drilling dimensions base

(4) Drilling dimensions door



≦ 3 padlocks