

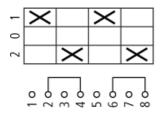
Type: **T0-2-8211/l1** Article No.: **207102**



With black thumb-grip and grey front plate

Ordering information			
Design			Surface mounting
Description			With 0 (Off) position
No. of poles		M	2
Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz AC-3 400/415 V 50-60 Hz	Р	kW	11
Rated uninterrupted current	<i>I</i> _u	Α	20
Description			With 0 (Off) position

Contact sequence



Front plate no.



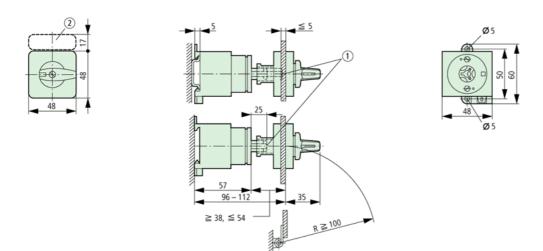
General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60947-3
Lifespan, mechanical	Operations	× 10 ⁶	1
Maximum operating frequency	Operations/h		3000
Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclical, to IEC 60068–2–30
Ambient temperature			
Open		°C	-25/50
Enclosed		°C	-25/40
Mounting position			As required
Documentation			Main catalogue HPL
Mechanical shock resistance (shock duration 20 ms)		g	> 15
Contacts			
Rated operational voltage	<i>U</i> e	V AC	690
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current			
open	<i>I</i> _u	Α	20
Enclosed	<i>I</i> _u	Α	20
Load-carrying capacity in intermittent operation, Class 12			
AB 25 % DF		× Ie	2
AB 40 % DF		× Ie	1,6
AB 60 % DF		× Ie	1,3
Short-circuit rating			
Fuse		A gG/gL	20
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		0	90 60 45

			30
Contact units			11
Double-break contacts			max. 22
Current heat loss per contact at <i>l</i> _e		W	0,6
Terminal capacities			
Solid or stranded		mm ²	1 × (1 – 2.5) 2 × (1 – 2.5)
Flexible with ferrule to DIN 46228		mm ²	$1 \times (0.75 - 1.5)$ $2 \times (0.75 - 1.5)$
Terminal screw			M3.5
Tightening torque		Nm	1
Switching capacity			
AC			
Rated making capacity $cos = 0.35$		Α	130
Rated breaking capacity, motor load switch cos = 0.35			
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	<i>l</i> e	Α	20
AC-3 motor load switch motor rating			
230 V	Р	kW	2,2
230 V Star-delta	Р	kW	4
400 V	Р	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
690 V	Р	kW	4
690 V Star-delta	Р	kW	5,5
AC-23A Motor load switches (main switches maintenance switches)			
230 V	Р	kW	3,5
400 V	Р	kW	11
500 V	Р	kW	7,5
Rated operational current control switch AC-15			

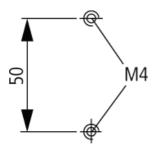
230 V				
500 V	230 V	<i>l</i> e	Α	6
DC DC-1, Load-break switches L/R = 1 ms Rated operational current Voltage per contact pair in series DC-21A Rated operational current 240 V 240 V Contacts Quantity DC-23A, Motor load switches L/R = 15 ms 24 V Rated operational current le A 10 Contacts Quantity Rated operational current le A 5 Contacts Quantity Rated operational current le A 5 Contacts Quantity Sate operational current le A 5 Contacts Quantity 3 Contacts Quantity 5 Contacts PC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series V 32 Control circuit reliability at 24 V PC, 10 mA Notes For mechanical shock resistance: T3l > 12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	400 V	<i>l</i> e	Α	4
DC-1, Load-break switches L/R = 1 ms Rated operational current	500 V	<i>I</i> e	Α	2
1 ms Rated operational current I _e A 10 Voltage per contact pair in series V 60 DC-21A A 1 Rated operational current 240 V I _e A 1 240 V Contacts Quantity 1 DC-23A, Motor load switches L/R = 15 ms — A 10 24 V Rated operational current I _e A 10 Contacts Quantity 1 48 V A 10 Rated operational current I _e A 10	DC			
Voltage per contact pair in series DC-21A Rated operational current 240 V 240 V Contacts DC-23A, Motor load switches L/R = 15 ms 24 V Rated operational current le A 10 Contacts Quantity Rated operational current le A 5 Contacts Quantity Falted operational current Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Notes For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Utor rated				
DC-21A	Rated operational current	<i>l</i> e	Α	10
Rated operational current 240 V 240 V Contacts DC-23A, Motor load switches L/R = 15 ms 24 V Rated operational current Reated operational c	Voltage per contact pair in series		V	60
240 V Contacts DC-23A, Motor load switches L/R = 15 ms 24 V Rated operational current le A 10 Contacts 48 V Rated operational current le A 10 Contacts Quantity Rated operational current le A 5 Contacts Quantity Fault probability Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V probability Notes For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	DC-21A			
DC-23A, Motor load switches L/R = 15 ms 24 V Rated operational current	Rated operational current 240 V	<i>l</i> e	Α	1
= 15 ms 24 V Rated operational current e	240 V Contacts		Quantity	1
Rated operational current $I_{\rm e}$ A 10 Contacts Quantity 1 Rated operational current $I_{\rm e}$ A 10 Contacts Quantity 2 60 V Rated operational current $I_{\rm e}$ A 10 Contacts Quantity 3 120 V Rated operational current $I_{\rm e}$ A 5 Contacts Quantity 3 240 V Rated operational current $I_{\rm e}$ A 5 Contacts Quantity 3 Contacts Quantity 5 DC-13, Control switches L/R = 50 ms Rated operational current $I_{\rm e}$ A 10 Voltage per contact pair in series Control circuit reliability at 24 V pault probability $I_{\rm e}$ A 10 Notes For mechanical shock resistance: $I_{\rm e}$ A, $I_{\rm e}$ B, $I_{\rm e}$ A, $I_{\rm e}$ B, $I_{$				
Contacts 48 V Rated operational current 60 P Rated operational current 70 P 80	24 V			
Rated operational current Contacts Quantity Rated operational current Ie A 10 Contacts Quantity Rated operational current Ie A 10 Contacts Quantity Rated operational current Ie A 5 Contacts Quantity Fallt For mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	Rated operational current	<i>l</i> e	Α	10
Rated operational current Contacts Quantity Rated operational current Ie A 10 Contacts Quantity Rated operational current Ie A 5 Contacts Contacts Quantity The contacts Contacts Control circuit reliability at 24 V DC, 10 mA Notes For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	Contacts		Quantity	1
Contacts 60 V Rated operational current le A 10 Contacts 120 V Rated operational current le A 5 Contacts 240 V Rated operational current le A 5 Contacts 240 V Rated operational current le A 5 Contacts DC-13, Control switches L/R = 50 ms Rated operational current le A 10 Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Notes For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	48 V			
Rated operational current Patter P	Rated operational current	<i>l</i> e	Α	10
Rated operational current Contacts Quantity Rated operational current le A 5 Contacts Quantity 3 240 V Rated operational current le A 5 Contacts Quantity Rated operational current le A 5 Contacts Quantity DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V probability DC, 10 mA Notes For mechanical shock resistance: T3/l > 12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Utor rated	Contacts		Quantity	2
Contacts 120 V Rated operational current Ie A 5 Contacts Quantity 3 240 V Rated operational current Ie A 5 Contacts Quantity 5 DC-13, Control switches L/R = 50 ms Rated operational current Ie A 10 Voltage per contact pair in series Control circuit reliability at 24 V pc, 10 mA Notes For mechanical shock resistance: T3/I > 12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	60 V			
Rated operational current I_e	Rated operational current	<i>l</i> e	Α	10
Rated operational current I_{e} A 5 Contacts Quantity 3 240 V Rated operational current I_{e} A 5 Contacts Quantity 5 DC-13, Control switches L/R = 50 ms Rated operational current I_{e} A 10 Voltage per contact pair in series I_{e} V 32 Control circuit reliability at 24 V Fault probability I_{e} I	Contacts		Quantity	3
Contacts 240 V Rated operational current Pack A 5	120 V			
Rated operational current Pack Pack Pack	Rated operational current	<i>l</i> e	Α	5
Rated operational current Contacts DC-13, Control switches L/R = 50 ms Rated operational current Ie A 10 Voltage per contact pair in series Control circuit reliability at 24 V probability Notes For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	Contacts		Quantity	3
Contacts DC-13, Control switches L/R = 50 ms Rated operational current Voltage per contact pair in series Control circuit reliability at 24 V probability Notes Fault probability For mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated	240 V			
DC-13, Control switches L/R = 50 ms Rated operational current I _e A 10 Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Notes Fault probability H _F For mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	Rated operational current	<i>I</i> e	Α	5
Rated operational current I_e	Contacts		Quantity	5
Voltage per contact pair in series Control circuit reliability at 24 V DC, 10 mA Fault probability H _F Control circuit reliability at 24 V DC, 10 mA H _F For mechanical shock resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated				
Control circuit reliability at 24 V	Rated operational current	<i>l</i> e	Α	10
DC, 10 mA probability operations Notes For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 Ufor rated	Voltage per contact pair in series		V	32
For mechanical shock resistance: T3/l >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated			H _F	
resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated	Notes			
				resistance: T3/I >12g Applies to T0(3)/SVB: isolating characteristics to IEC/EN 60947 <i>U</i> for rated

	V AC Applies to rated uninterrupted current I_u of the contact: with T5–4–8344/I5 max. 95 A For terminal capacity solid, stranded and flexible: T0(3), (6), (8): Maximum of 2 cross–section sizes difference admissible between 2 conductors T5(B)–: Maximum of 1 cross–section size difference admissible between 2 conductors For type T8–3–8342/ the following applies: switching angle = 90° and flat connection = 1 busbar 25 × 5 or 2 busbars 20 × 3
Dimensions	
	Extension possible with ZVV-T0, max. 4 × 25 = 100 mm
	Diameter of drilled hole Bottom
	Diameter of drilled hole Door
Explaination	For utilisation category AC–4 (extreme load: 100 % inching, reversing or plugging) The blocked rotor current of the motor should not exceed the rated current of the switch for AC–21A to ensure a reasonable device lifespan.

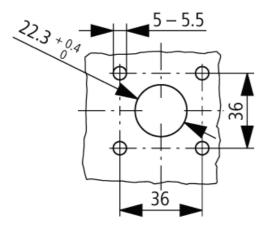
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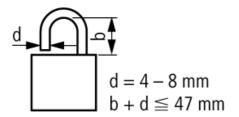
Dimensions



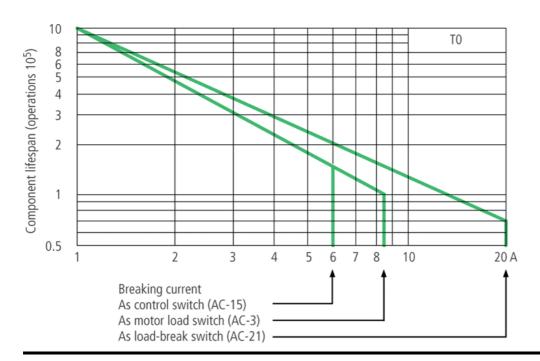
Dimensions



Dimensions



Characteristic curve



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