

Cod. IBX1503022UAB



Standard and Approvals

• Switch according to IEC 60947-3:2021

CE

Technical features: Enclosure

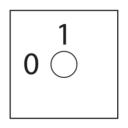
- ABS double insulation thermoplastic enclosure, UV resistant
- Grey plate 36x36 mm and black padlockable knob (up to 3 padlocks)
- Switching angle: 90°
- Cover interlock in "ON" position
- Front drive
- IP65 Protection degree
- Fixing enclosure: 4 screws at 60x115 mm or 97x142 mm
- Cover fixing screws tightening torque: 1,4 Nm ±10%
- 8x Pg 16/21 traces on side of enclosure (2x each side)



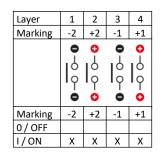
Technical features: DC disconnect switch

- Rated operational current in the enclosure (Ie): 50 A
- Rated operational voltage in the enclosure (Ue): 1000 V
- Rated thermal current (Ith): 50 A
- Rated insulation voltage (Ui): 1500 V
- Switching angle: 90°
- · Class V0 self-extinguishing thermoplastic housing
- Assembled with metal shaft to ensure maximum operating reliability

Position



Electrical diagram

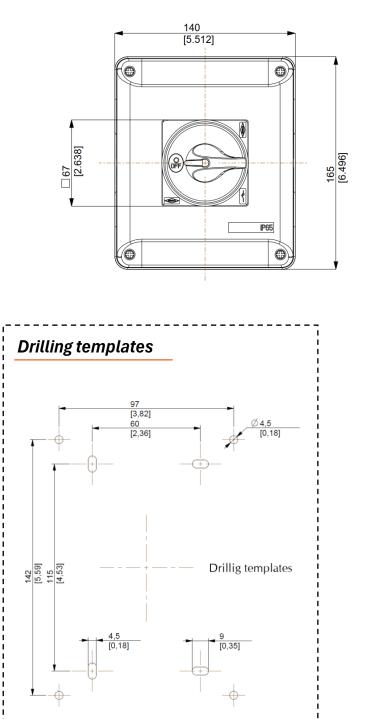


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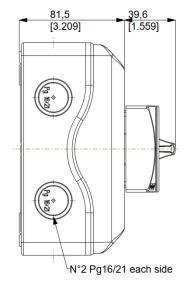
Dimensions

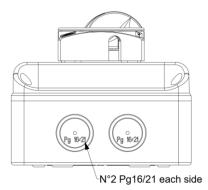
measures in mm [in]





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Screwdriver

orientation for terminal fixing

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Technical data of the DC disconnect switch

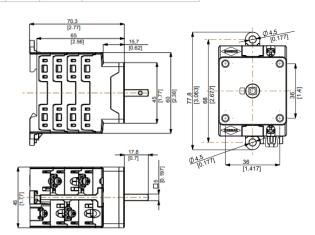
Technical data according to IEC 60947-3:2021

Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1500	1500
Rated operational current	le	A dc	20	8
Rated operational voltage (second rating)	Ue	V dc	1300	1300
Rated operational current (second rating)	le	A dc	25	10
Rated operational voltage (third rating)	Ue	V dc	1250	1250
Rated operational current (third rating)	le	A dc	30	12
Rated operational voltage (fourth rating)	Ue	V dc	1000	1000
Rated operational current (fourth rating)	le	A dc	50	20
Rated operational voltage (fifth rating)	Ue	V dc	800	800
Rated operational current (fifth rating)	le	A dc	-	30
Rated operational voltage (sixth rating)	Ue	V dc	700	700
Rated operational current (sixth rating)	le	A dc	-	40
Rated thermal current	lth	A	50	
DC Poles		Nr.	4	
Rated conditional short-circuit current		kA	5	
Rated insulation voltage	Ui	Vdc	1500	
Rated impulse withstand voltage	Uimp	kV	8	
Rated short-time withstand current (1 s)	lcw	A	780	
Rated short-circuit making capacity	Icm	kA	1,4	
Power loss per layer at 20 A / 50 A	10111	W	0,2/1,25	
Maximum size of the fuse for the short-circuit protection	gPV	A	50	
Mechanical characteristics	51 *	~	0	0
			Double n	nounting
Type of mounting			Fixing with 4 screws 36x36 mm Back-side for DIN rail or 2 screws	
Layers		Nr.	4	
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainless steel	
Cross-section of flexible/solid wires	Max.	mm ²	2x 6	
		AWG	2x	
	Max.	mm ²	1x	16
Cross-section of wires with fork lug		AWG	1x6	
Minimum required fine wire cross-section: IEC 60947-1, tal	ole 9			
Terminal screws type			M4 – PH2	
Terminal screws tightening torque		Nm	1,7±10%	
Actuator operation force		Nm	1,5	
Panel thickness	Max.	mm	4	
Net weight		g	180	
Protection degree IEC 529 EN 60529				
the terminal			IP	20
Ambient conditions				
Pollution degree ins.				, ,
Operational ambient temperature		°C	-30 ÷ +50	
Storage ambient temperature		-0- •C	-30 ÷ +50 -30 ÷ +85	
° 1		-0	-30 ÷ +85 90-100% RH at +55 °C	
Damp heat test IEC 60068-2-30			90-100% KH at +55 °C	

CE



Dimensions



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