

# Cod. IBK10016120AB



# Standard and Approvals

• Switch according to IEC 60947-3:2021

CE

## Technical features: Enclosure

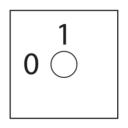
- ABS double insulation thermoplastic enclosure, UV resistant
- Grey plate 36x36 mm and black padlockable knob (up to 3 padlocks)
- Switching angle: 90°
- Cover interlock in "ON" position
- Front drive
- IP65 Protection degree
- Fixing enclosure: 4 screws at 60x115 mm or 97x142 mm
- Cover fixing screws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



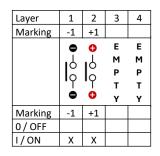
## Technical features: DC disconnect switch

- Rated operational current in the enclosure (le): 16 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**

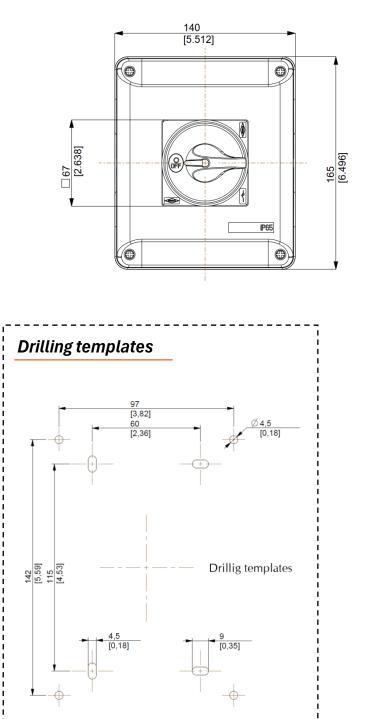


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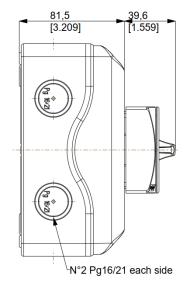
## Dimensions

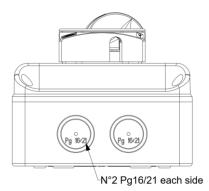
measures in mm [in]





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## IBK10016120AB

#### Technical data of the DC disconnect switch

#### Technical data according to IEC 60947-3:2021

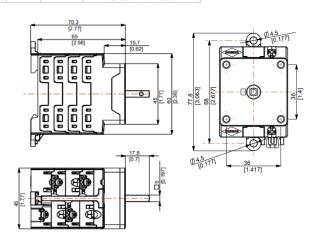
Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	V dc	1000	1000
Rated operational current	le	A dc	16	6
Rated operational voltage (second rating)	Ue	V dc	750	750
Rated operational current (second rating)	le	A dc	32	12
Rated operational voltage (third rating)	Ue	V dc	700	700
Rated operational current (third rating)	le	A dc	-	16
Rated operational voltage (fourth rating)	Ue	V dc	500	500
Rated operational current (fourth rating)	le	A dc	50	-
Rated operational voltage (fifth rating)	Ue	V dc	-	-
Rated operational current (fifth rating)	le	A dc	-	-
Rated operational voltage (sixth rating)	Ue	V dc	-	-
Rated operational current (sixth rating)	le	A dc	-	-
Rated thermal current	lth	A	50	
DC Poles		Nr.	2	
Rated conditional short-circuit current		kA	5	
Rated insulation voltage	Ui	V dc	1500	
Rated impulse withstand voltage	Uimp	kV	8	
Rated short-time withstand current (1 s)	Icw	A	780	
Rated short-circuit making capacity	Icm	kA	1,4	
Power loss per layer at 20 A / 50 A		W	0,2/1,25	
Maximum size of the fuse for the short-circuit protection	gPV	A	50	
Mechanical characteristics				
Type of mounting			Double 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.	mm² AWG	2x 6 2x 10	
Cross-section of wires with fork lug	Max.	mm <sup>2</sup> AWG	1x 16 1x 6	
Minimum required fine wire cross-section: IEC 60947-1, tab	le 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	120	
Protection degree IEC 529 EN 60529				
To the terminal			IP20	
Ambient conditions	·			
				2
-		°C	-30 ÷ +50	
		-	-30 ÷ +85	
Damp heat test IEC 60068-2-30			90-100% RH at +55 °C	
To the terminal Ambient conditions Pollution degree ins. Operational ambient temperature Storage ambient temperature		⊃° ⊃°	-30 ÷ -30 ÷	2 · +50 · +85

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#### Screwdriver orientation for terminal fixing



# Dimensions



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