

Bremas Ersce S.p.A. Via Castellazzo 9 – 20040 Cambiago (MI)

Via Castellazzo 9 – 20040 Cambiago (MI) Tel +39 02 95651611 Fax +39 02 95651639 www.bremas.it info@bremas.it ISO 9001 Certified Quality System

Cod. IBM10020220AR



Standard and Approvals

Switch according to IEC 60947-3:2021



Technical features: Enclosure

- ABS double insulation thermoplastic enclosure, UV resistant
- Yellow plate 36x36 mm and red 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)

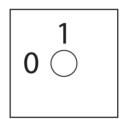




Technical features: DC disconnect switch

- Rated operational current in the enclosure (le): 20 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

Layer	1	2	3	4
Marking	-2	+2	-1	+1
Marking	-2	+2	-1	+1
0 / OFF				
I/ON	Х	Х	Χ	Χ



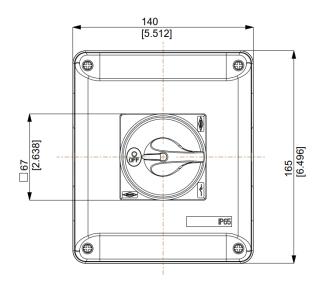
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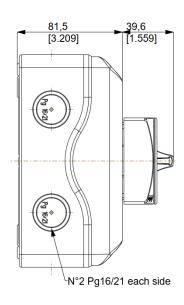
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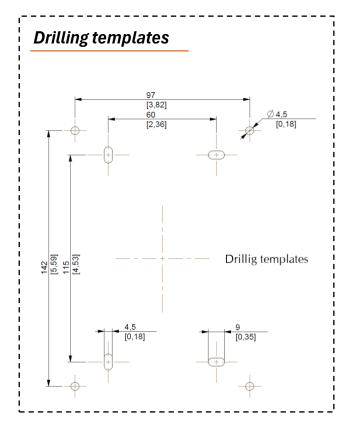
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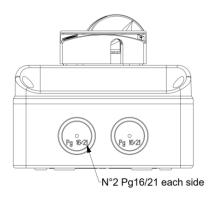
Dimensions

measures in mm [in]











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Technical data of the DC disconnect switch

Utilization category			PV1 (DC-21B)	PV2	
Rated operational voltage	Ue	V dc	1100	1100	
Rated operational current	le	A dc	12	5	
Rated operational voltage (second rating)	Ue	V dc	1000	1000	
Rated operational current (second rating)	le	A dc	20	10	
Rated operational voltage (third rating)	Ue	V dc	750	750	
Rated operational current (third rating)	le	A dc	32	18	
Rated operational voltage (fourth rating)	Ue	V dc	700	700	
Rated operational current (fourth rating)	le	A dc	40	20	
Rated operational voltage (fifth rating)	Ue	V dc	500	-	
Rated operational current (fifth rating)	le	Adc	50	-	
Rated operational voltage (sixth rating)	Ue	V dc	-		
Rated operational current (sixth rating)	le	Adc	-	-	
Rated thermal current	Ith	A	50		
DC Poles	14.1	Nr.	4		
Rated conditional short-circuit current		kA	5		
Rated insulation voltage	Ui	Vdc	1500		
Rated impulse withstand voltage	Uimp	kV	8		
		A	780		
Rated short-time withstand current (1 s)	lcw				
Rated short-circuit making capacity	Icm	kA W	1,4		
Power loss per layer at 20 A / 50 A			0,2 / 1,25 50		
Maximum size of the fuse for the short-circuit protection	gPV	Α	50		
Mechanical characteristics			5		
Type of mounting				Double mounting Fixing with 4 screws 36x36 mm	
Type of mounting			Back-side for DIN rail or 2 screw		
Layers		Nr.	4		
Terminal screws orientation			Head up		
External metal parts (screws, shaft)			Stainless steel		
			2x 6		
Cross-section of flexible/solid wires	Max.	mm² AWG	2x 0 2x 10		
		mm²	1x 16		
Cross-section of wires with fork lug	Max.	AWG	1x 6		
Minimum required fine wire cross-section: IEC 60947-1, tab	le 9				
Terminal screws type			M4 – F	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		ь	100	-	
To the terminal			IP2	0	
			IPZ	U	
Ambient conditions					
Pollution degree ins.			2		
Operational ambient temperature		°C	-30 ÷ +50		
Storage ambient temperature Damp heat test IEC 60068-2-30		°C	-30 ÷ ·		





Screwdriver orientation for terminal fixing



Dimensions

