# DK100165M0AEDSG

# BREMAS BETTER SWITCHES

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ISO 9001 Certified Quality System

# Disconnect switch

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Vide	Disconnect switch				
Lated operational voltage   Ue	Technical data according to IEC 60947-3:2021				
Lated operational current   Ie	Utilization category			PV1 (DC-21B)	PV2
Acted operational voltage (second rating)   Ue	Rated operational voltage	Ue	V dc	1200	-
Interest	Rated operational current	le	Α	8	-
Lated operational voltage (third rating)	Rated operational voltage (second rating)	Ue	V dc	1000	1000
Letted operational current (third rating)   Letted operational current (third rating)   Letted operational voltage (fourth rating)   Letted operational current (orth rating)   Letted operational current (firth rating)   Letted operational current (firth rating)   Letted operational current (fifth rating)   Letted operational current (sixth rating)   Letted operational c	Rated operational current (second rating)	le	Α	16	6
Acted operational voltage (fourth rating)   Ue	Rated operational voltage (third rating)	Ue	V dc	750	750
Let a deperational current (fourth rating)   Let   A   -   16	Rated operational current (third rating)	le	Α	32	12
Acted operational voltage (fifth rating)	Rated operational voltage (fourth rating)	Ue	V dc	-	700
Interest	Rated operational current (fourth rating)	le	Α	-	16
Learned operational voltage (sixth rating)   Learned operational current (sixth rating)   Learned of the conditional short-circuit current   Learned on the conditional short-circuit making capacity   Learned on the conditional current (1 s)   Learned on the current (1 s)   Learned on	Rated operational voltage (fifth rating)	Ue	V dc	500	-
Ie	Rated operational current (fifth rating)	le	Α	50	-
Stated thermal current   Ith	Rated operational voltage (sixth rating)	Ue	V dc	-	-
Nr.   10	Rated operational current (sixth rating)	le	Α	-	-
State   Stat	Rated thermal current	Ith	Α	50	
Vic	DC Poles		Nr.	10	
Acted impulse withstand voltage  Acted short-time withstand current (1 s)  Acted short-time withstand current (1 s)  Acted short-circuit making capacity  Base mounting  Back-side for Din rail or 2 screws fixing  For direct operation  With pre-mounted status indicator  Acted short-circuit making capacity  Acted short-circuit making capacity  Acted short-circuit making capacity  Base mounting  Back-side for Din rail or 2 screws fixing  For direct operation  With pre-mounted screws fixing  For direct operation  With pre-mounting  Back-side for Din rail or 2 screws fixing  For direct operation  With pre-mounting  Back-side for Din rail or 2  Acted short-circuit protection  And up acted short-circuit protecti	Rated conditional short-circuit current		kA	5	
lated short-time withstand current (1 s) lated short-circuit making capacity lated short-circuit protection la	Rated insulation voltage	Ui	V dc	1500	
lated short-circuit making capacity lated short-circuit making capacity lower loss per layer at 20 A / 50 A Adaximum size of the fuse for the short-circuit protection    W	Rated impulse withstand voltage	Uimp	kV	8	
Advision of the fuse for the short-circuit protection gPV A 50  Maximum size of the fuse for the short-circuit protection gPV A 50  Mechanical characteristics  We for mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator With pre-mounted status indicator and protection of flexible/solid wires Parameter of the short of the status indicator and protection of flexible/solid wires Parameter of the short of th	Rated short-time withstand current (1 s)	lcw	Α	780	
Askimum size of the fuse for the short-circuit protection  Mechanical characteristics  Base mounting  Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator With pre-mounted status indicator  Average Nr. 12  Ferminal screws orientation  Aware Head up  Stainless steel  Cross-section of flexible/solid wires  Max. Aware 2x 6  Aware 2x 10  Cross-section of wires with fork lug  Max. Aware 1x 6  Aware 1x 6  Alinimum required fine wire cross-section: IEC 60947-1, table 9  Ferminal screws tightening torque  Nm 1,7 ±10%  Let weight  Protection degree IEC 529 EN 60529  o the terminal  Ambient conditions  Pollution degree ins.  2  Cross-section degree ins.  Cross-section	Rated short-circuit making capacity	Icm	kA	1,4	
Age chanical characteristics  Base mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator agers  Aperim and screws orientation  Aperim and screws, shaft)  Cross-section of flexible/solid wires  Awax. Away  Cross-section of wires with fork lug  Awax. Away	Power loss per layer at 20 A / 50 A		W	0,2 / 1,25	
Base mounting   Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator appears   Nr.   12	Maximum size of the fuse for the short-circuit protection	gPV	Α	50	
Back-side for DIN rail or 2 Screws fixing For direct operation With pre-mounted status indicator agers   Nr.   12	Mechanical characteristics				
erminal screws orientation         Head up           external metal parts (screws, shaft)         Stainless steel           Cross-section of flexible/solid wires         Max.         AWG         2x 10           Cross-section of wires with fork lug         Max.         Max         1x 16           Alminium required fine wire cross-section: IEC 60947-1, table 9         WG         1x 6           Ferminal screws type         M4 - PH2         WM4 - PH2           Ferminal screws tightening torque         Nm         1,7 ±10%           Net weight         g         620           Protection degree IEC 529 EN 60529         IP20           or the terminal         IP20           Ambient conditions         2           Pollution degree ins.         2           Operational ambient temperature         °C         -30 ÷ +50           Storage ambient temperature         °C         -30 ÷ +85	Type of mounting			Back-side for DIN rail or 2 screws fixing For direct operation	
Stainless steel   Stainless	Layers		Nr.	· · · · · · · · · · · · · · · · · · ·	
Max.   mm²   2x 6   AWG   2x 10	Terminal screws orientation			Head up	
Max.   AWG   2x 10	External metal parts (screws, shaft)			Stainless steel	
Max.   AWG   1x 6	Cross-section of flexible/solid wires	Max.			
M4 - PH2	Cross-section of wires with fork lug	Max.			
Serminal screws tightening torque	Minimum required fine wire cross-section: IEC 60947-1, table 9				
Ret weight   g   620	Terminal screws type			M4 – PH2	
Protection degree IEC 529 EN 60529         IP20           Ambient conditions         IP20           Pollution degree ins.         2           Operational ambient temperature         °C         -30 ÷ +50           Storage ambient temperature         °C         -30 ÷ +85	Terminal screws tightening torque		Nm	1,7 ±10%	
fo the terminal         IP20           Ambient conditions         2           Pollution degree ins.         2           Operational ambient temperature         °C         -30 ÷ +50           Storage ambient temperature         °C         -30 ÷ +85	Net weight		g	620	
fo the terminal         IP20           Ambient conditions         2           Pollution degree ins.         2           Operational ambient temperature         °C         -30 ÷ +50           Storage ambient temperature         °C         -30 ÷ +85	Protection degree IEC 529 EN 60529				
Pollution degree ins.         2           Operational ambient temperature         °C         -30 ÷ +50           Storage ambient temperature         °C         -30 ÷ +85	To the terminal			IP20	
Pollution degree ins.         2           Operational ambient temperature         °C         -30 ÷ +50           Storage ambient temperature         °C         -30 ÷ +85	Ambient conditions				
Operational ambient temperature     °C     -30 ÷ +50       Storage ambient temperature     °C     -30 ÷ +85	Pollution degree ins.			2	
storage ambient temperature °C -30 ÷ +85	Operational ambient temperature		°C	<del>_</del>	
v .	Storage ambient temperature				
	Damp heat test IEC 60068-2-30			90-100% RH at +55 °C	

# Motor driven actuator

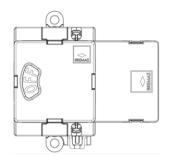
Ue	V dc	24 ±5%	
le	Α	0,4	
Max.	Α	1,4	
	Α	0,10	
Max.	rpm	20 ±3	
	Α	0,15	
	rpm	17,6 ±2	
	W	1,55	
		Solder (supplied with wiring)	
	mm	300	
		IP00*	
Clockwise (90deg)			
Rotary disc with static window at 09:00 o'clock			
	le Max.	le A Max. A Max. rpm A rpm W  mm	

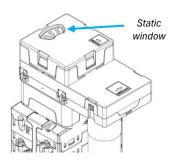
<sup>\*</sup> Pre soldered wiring with heat-shrink sheath

### Status indicator



Rotary disc





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# Screwdriver orientation for terminal fixing



# Electrical Diagram

