# **DC Disconnect Switch**

## **DP** Series

# DP100122M0AWDSG

#### **Disconnect switch**

Technical data according to IEC 60947-3:2015/A2 Annex I Utilization category			PV1 (DC-21B)	PV2
Rated operational voltage	Ue	Vdc		1000
Rated operational corrent	le	A	1000	1000
Rated operational college (second rating)	Ue	Vdc	750	750
Rated operational current (second rating)	le	A	25	10
Rated operational college (third rating)	Ue	Vdc	600	600
Rated operational current (third rating)	le	A	32	16
Rated operational voltage (fourth rating)	Ue	Vdc	52	10
Rated operational current (fourth rating)	le	A	-	
Rated operational voltage (fifth rating)	Ue	Vdc		
Rated operational current (fifth rating)	le	A	-	
Rated operational voltage (sixth rating)	Ue	Vdc	-	
Rated operational current (sixth rating)	le	A	-	
Rated thermal current	lth	A		
DC Poles	101	Nr.	50	
Rated conditional short-circuit current		kA	5	
Rated insulation voltage	Ui	Vdc		
Rated impulse withstand voltage	Uimp	kV	1500	
	· ·		8	
Rated short-time withstand current (1 s)	lcw	A	780	
Rated short-circuit making capacity	lcm	kA W	1,4	
Power loss per layer at 20 A / 50 A	.01/	••	0,2 / 1,25	
Maximum size of the fuse for the short-circuit protection	gPV	A	5	50
Mechanical characteristics			Double	mounting
Type of mounting			Double mounting Fixing with 4 screws 36x36 mm Back-side for DIN rail or 2 screws	
Layers		Nr.		6
Terminal screws orientation			Head up	
External metal parts (screws, shaft)			Stainle	ss steel
Cross-section of flexible/solid wires	Max.	mm²	2x 6	
ST033-Section of nexible/ solid wires	PidA.	AWG	2x	10
Cross-section of wires with fork lug	Max.	mm²		16
	TIUX.	AWG	1x 6	
Minimum required fine wire cross-section: IEC 60947-1, table 9				
Terminal screws type			M4 – PH2	
Terminal screws tightening torque		Nm	1,7 ±10%	
		Nm	1,1±10%	
Fixing screws tightening torque				
	Max.	mm		4
Panel thickness Net weight	Max.			
Panel thickness Net weight	Max.	mm		4
Panel thickness Net weight Protection degree IEC 529 EN 60529	Max.	mm	4	4
Fixing screws tightening torque Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions	Max.	mm	4	4 30
Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal	Max.	mm	4 IP	4 30
Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions	Max.	mm	4 IP	4 30 20
Panel thickness Net weight Protection degree IEC 529 EN 60529 To the terminal Ambient conditions Pollution degree ins.	Max.	mm g	4 IP	4 30 20 2

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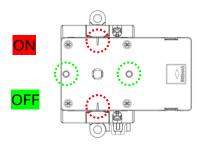
#### Motor driven actuator

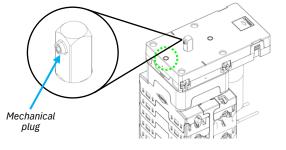
CE

Motor characteristics					
Rated operational voltage	Ue	Vdc	24 ±5%		
Rated operational current	le	A	0,4		
Stall current	Max.	A	1,4		
Free-load current		A	0,10		
Free-load speed	Max.	rpm	20 ±3		
Rated load current		Α	0,15		
Rated load speed		rpm	17,6 ±2		
Output power at Max. efficiency		W	1,55		
Terminal type			Solder (supplied with wiring)		
Pre-soldered cables length		mm	300		
Protection degree to the terminals			IP00*		
Operating features					
Rotation direction		Clockwise (90deg)			
Position (disconnect switch)		OFF at 09:00 and 03:00 o'clock			
		ON at 12:00 and 06:00 o'clock			
Position (status indicator)		Rotary disc with static window at 09:00 o'clock			

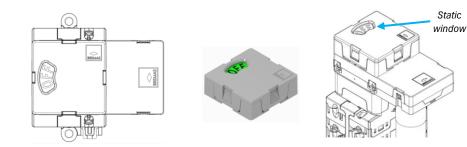
\* Pre soldered wiring with heat-shrink sheath

#### Position (disconnect switch)





#### Position (status indicator)



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# **DC Disconnect Switch**

# **DP** Series

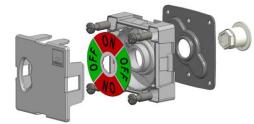
# DP100122M0AWDSG



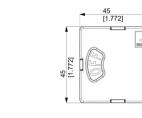
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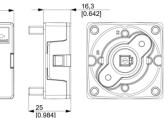
#### Product image



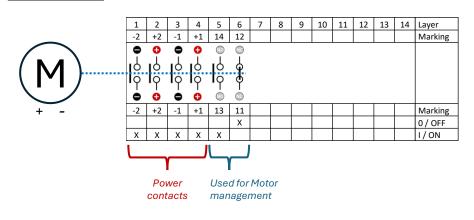


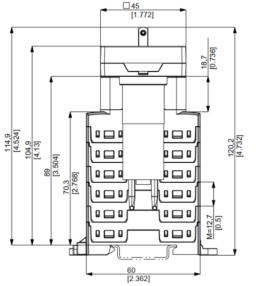


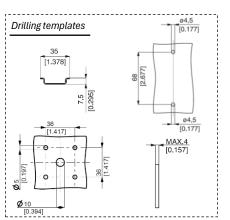


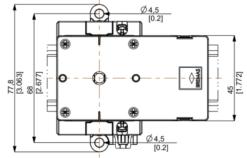


### Electrical Diagram









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## Dimensions