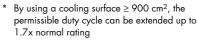


D7 Series Rotary Solenoid

Voltage rating		V DC	24				205					V DC	٧	oltage rating	
ED* LK	<u> </u>	%	100	37	23	14	5	100	36	23	14	5	%		ED* LK
Current rating		Α	0,82	2,10	3,20	4,90	12,60	0,10	0,23	0,36	0,55	1,40	Α	C	urrent rating
Nominal resistance		Ω	29,2	11,6	7,6	4,9	1,9	1.988	843	544	355	146	Ω	Ω Nominal resistance	
D 72, 25°	MA	Ncm	35,5	55,0	65,0	72,0	89,0	32,0	51,0	60,0	70,0	86,0	Ncm	MA	D 72, 25°
	ME	Ncm	48,0	64,0	73,0	80,0	89,0	47,0	61,0	70,0	75,0	88,0	Ncm	ME	
D 73, 35°	MA	Ncm	28,0	48,0	57,0	65,0	81,0	26,0	44,0	51,0	62,0	80,0	Ncm	MA	D 73, 35°
	ME	Ncm	43,0	56,0	60,0	63,0	67,0	41,5	53,0	58,0	62,0	66,0	Ncm	ME	
D 74, 45°	MA	Ncm	23,0	41,0	50,0	58,0	75,0	21,0	37,0	46,0	54,0	73,0	Ncm	MA	D 74, 45°
	ME	Ncm	40,0	50,0	54,0	56,0	58,0	38,0	49,0	52,0	55,0	58,0	Ncm	ME	
D 76, 65°	MA	Ncm	13,5	26,0	34,0	42,0	60,0	12,0	24,0	31,0	38,0	57,0	Ncm	MA	D 76, 65°
	ME	Ncm	34,0	42,0	44,0	44,0	42,0	33,0	40,5	45,0	44,0	42,0	Ncm	ME	
D 79, 95°	MA	Ncm	6,2	15,0	21,5	27,0	42,0	5,6	13,0	18,5	25,0	41,0	Ncm	MA	D 79, 95°
	ME	Ncm	26,0	30,0	30,0	30,0	25,0	25,0	29,5	30,0	30,0	25,0	Ncm	ME	





ME = End torque (5° before end of rotary angle)

Coil terminals: - Flying leads - Solder terminal box (6.3 DIN 46247)

Weight: appr. 1400 g

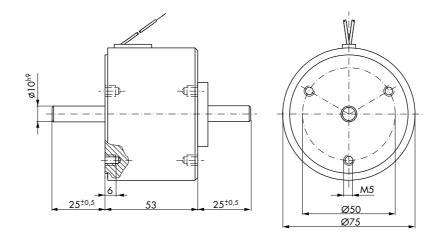
Dyn. moment of inertia (rotational

mass): appr. $11 \cdot 10^{-6}$ kg m² Time constant: appr. 13-60 ms

All solenoids with MA > 9.5 Ncm are available with spring return, with a rating of MR = 8.0 Ncm approximately.

The operational voltage of 205 V DC results from rectifying 230 V AC with a bridge rectifier.





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D7 Series Ordering Information

D	7	3	-ROR-	- N -	24 V DC	100 % ED	Order specifications		
D							Rotary solenoids		
	7								
							Angular travel		
		2					25°		
		3					35°		
		4					45°		
		6					65°		
	9				95°				
	-ROR-				Shaft and rotation options				
							Coil terminals		
				F			Flying leads (20 cm standard length)		
				Ν			Terminal box ³⁾		
							Nominal voltage		
24					24		Standard voltage		
					205		(connected to 230 V AC with Si-bridge rectifier)		
							Perm. duty cycle under air cooled conditions (LK)		

³⁾ Suits push-on connector 6.3 DIN 46247 and plug-in socket No. Z801.



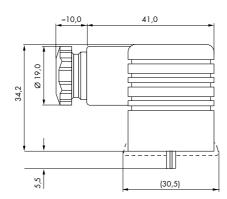
Insulation class: B (max. permissible

temperature = 130 °C)

Test voltage: 2500 V (eff)

(D 2: 1500 eff)

Accessories: Plug-in socket Z801



Plug-in socket Z801Screw joint PG 9 for lead diameter 4.5 - 7 mm

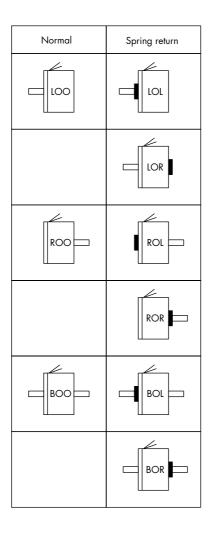
Plug-in socket Z811 Screw joint PG 11 for lead diameter 6 - 9 mm Plug-in socket with built in Si-bridge rectifier

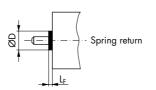


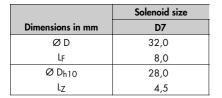
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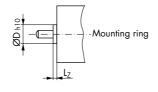


D7 Series Shaft & Rotation Options









Shaft designs

The following types of rotary solenoids are available. Resulting in the following abbreviations for ordering:

1. letter

Direction of rotation (facing the output shaft)

L anti-clockwise rotation

R clockwise rotation

B shaft extensions both ends

2. letter

Centering shoulder

- standard type without mounting ring
- **R** optional
- **L** optional

3. letter

Return spring – the torque exerted by the spring is to be subtracted from the torque values given in the data sheets

L on the anti-clockwise shaft end

R on the clockwise shaft end

O no return spring fitted

B both sides

Example 1 anti-clockwise rotation, no return spring, standard shaft length LOO -

Example 2

shaft extensions on both ends, return spring on anti-clockwise rotation end **BOL** -

Spring return arrangement (with protection cap)

Mounting ring

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