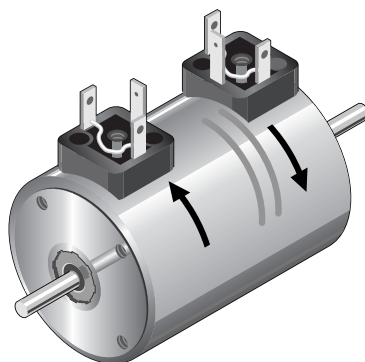


UD5 Series Bi-directional Rotary Solenoid

Voltage rating	V DC	24					205					V DC	Voltage rating
ED* LK	%	100	44	21	13	5	100	35	22	13	5	%	ED* LK
Current rating	mA	420	875	1.740	2.760	6.490	45	127	195	322	840	mA	Current rating
Nominal resistance	Ω	57,4	27,4	13,8	8,7	3,7	4.546	1.613	1.050	636	244	Ω	Nominal resistance
UD 52, 25°	MA Ncm	6,8	11,4	16,0	18,5	23,5	5,8	11,5	14,5	17,5	23,0	Ncm MA	UD 52, 25°
	ME Ncm	11,5	15,3	19,0	21,3	26,0	10,5	15,4	17,5	21,0	25,0	Ncm ME	
UD 53, 35°	MA Ncm	5,2	9,4	13,5	16,0	22,0	4,4	9,5	12,2	15,2	21,0	Ncm MA	UD 53, 35°
	ME Ncm	10,2	13,5	16,0	17,5	20,0	9,4	13,6	15,2	17,0	19,5	Ncm ME	
UD 54, 45°	MA Ncm	3,6	6,8	11,0	13,8	18,8	3,1	6,9	9,6	12,5	18,0	Ncm MA	UD 54, 45°
	ME Ncm	9,3	12,5	14,5	16,0	18,0	8,6	12,5	14,0	15,5	17,7	Ncm ME	
UD 56, 65°	MA Ncm	2,2	4,4	8,1	10,3	15,5	1,9	4,5	6,7	9,8	14,5	Ncm MA	UD 56, 65°
	ME Ncm	8,6	11,5	13,5	14,3	15,0	8,1	11,6	12,8	14,0	15,0	Ncm ME	
UD 59, 95°	MA Ncm	0,8	2,2	4,1	5,6	9,8	0,6	2,2	3,3	5,1	9,1	Ncm MA	UD 59, 95°
	ME Ncm	7,2	8,9	9,8	9,8	9,2	6,6	9,0	9,6	9,8	9,2	Ncm ME	

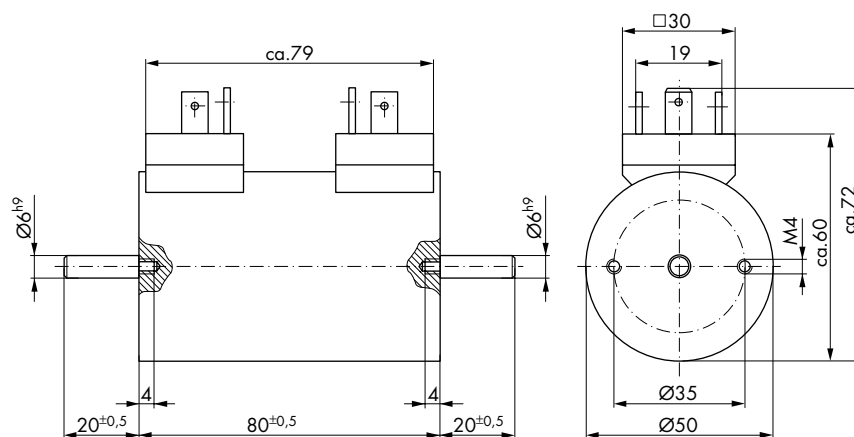
* By using a cooling surface $\geq 300 \text{ cm}^2$, the permissible duty cycle can be extended up to 1.7x normal rating

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



Coil terminals: - Flying leads
- Terminal box (6.3 DIN 46247)
Weight: appr. 760 g
Dyn. moment of inertia (rotational mass): appr. $3.6 \cdot 10^{-6} \text{ kg m}^2$
Time constant: appr. 8–25 ms

For a nominal voltage of 205 V DC (connected to 230 V AC with Si-bridge rectifier) the torques will be the same as for our rotary solenoid range with a nominal voltage amounting to 205 V DC provided their duty cycles are the same. The duty cycles available may differ from those of the 205 V DC range.



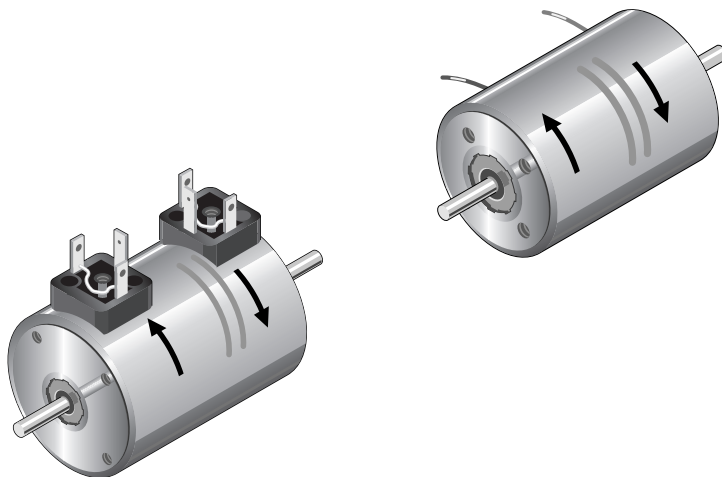
Impulse Automation Limited
United Kingdom
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UD5 Series Ordering Information

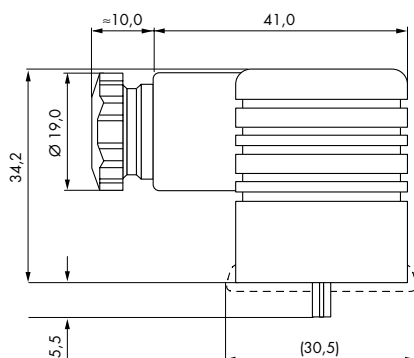
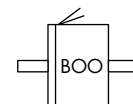
UD	5	4	-BOO-	- F -	24 V DC	100 % ED	Order specifications
UD							Rotary solenoid
	5						
							Angular travel
		2					25°
		3					35°
		4					45°
		6					65°
		9					95°
			BOO				Shaft design
							Coil terminals
				F			Flying leads (20 cm standard length)
				N			Terminal box ¹⁾
							Nominal voltage
					24		Standard voltage
					205		(connected to 230 V AC with Si-bridge rectifier)
						100 % ED	Perm. duty cycle under air cooled conditions (LK)

¹⁾ Suits push-on connector 6.3 DIN 46 247 and plug-in socket Z801.



Insulation class: B (max. permissible temperature = 130 °C)
Test voltage: 2500 V (eff)
Accessories: Plug-in socket Z801

Available Shaft design



Plug-in socket Z801

Screw 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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