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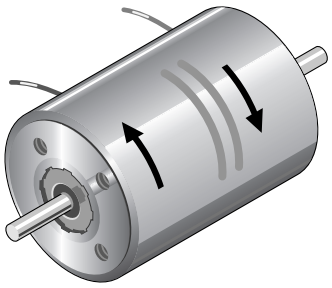
UD3 Series Bi-directional Rotary Solenoid

Voltage rating		V DC	24					205					V DC		Voltage rating
ED* LK		%	100	38	24	15	4,4	100	39	22	14	5	%		ED* LK
Current rating		mA	250	580	870	1.360	4.280	27	67	110	175	407	mA		Current rating
Nominal resistance		Ω	97,2	41,6	27,6	17,6	5,6	7.580	3.065	1.848	1.172	504	Ω		Nominal resistance
UD 32, 25°	MA	Ncm	1,15	2,45	3,30	4,25	6,90	1,00	2,10	3,20	4,10	5,90	Ncm	MA	UD 32, 25°
	ME	Ncm	2,10	3,50	4,10	4,80	6,30	2,00	3,20	4,00	4,70	5,90	Ncm	ME	
UD 33, 35°	MA	Ncm	0,95	2,20	3,00	3,75	6,40	0,80	2,00	2,65	3,60	5,30	Ncm	MA	UD 33, 35°
	ME	Ncm	1,85	3,35	3,80	4,30	4,90	1,70	2,80	3,60	4,15	4,80	Ncm	ME	
UD 34, 45°	MA	Ncm	0,65	1,80	2,60	3,40	5,60	0,54	1,50	2,30	3,10	4,70	Ncm	MA	UD 34, 45°
	ME	Ncm	1,60	2,95	3,40	3,80	4,30	1,40	2,60	3,20	3,80	4,25	Ncm	ME	
UD 36, 65°	MA	Ncm	0,43	1,10	1,50	2,20	4,40	0,35	0,88	1,40	2,05	3,50	Ncm	MA	UD 36, 65°
	ME	Ncm	1,35	2,40	2,85	3,30	3,70	1,20	2,20	2,70	3,20	3,60	Ncm	ME	
UD 39, 95°	MA	Ncm	0,18	0,57	0,90	1,35	2,50	0,14	0,45	0,80	1,20	2,10	Ncm	MA	UD 39, 95°
	ME	Ncm	1,20	2,10	2,40	2,50	2,50	1,05	1,95	2,30	2,40	2,50	Ncm	ME	

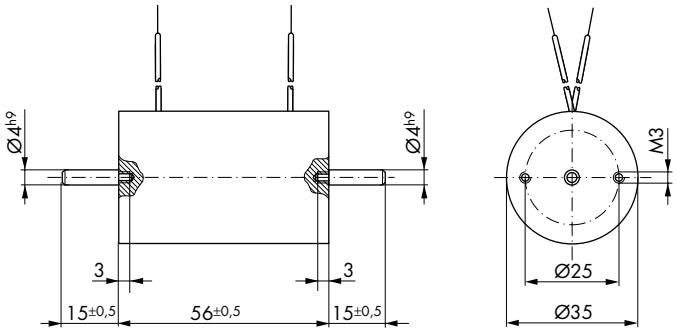
* By using a cooling surface ≥ 150 cm², the permissible duty cycle can be extended up to 1.7x normal rating

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



Coil terminals:	Flying leads
Weight:	appr. 300 g
Dyn. moment of inertia (rotational mass):	appr. $0.7 \cdot 10^{-6}$ kg m²
Time constant:	appr. 2.5–12 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.



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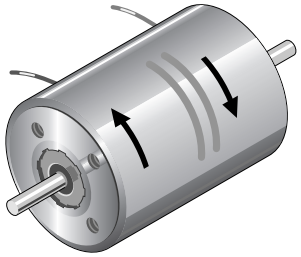
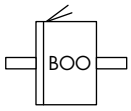
UD3 Series Ordering Information

UD	3	4	-BOO-	- F -	24 V DC	100 % ED	Order specifications
UD							Rotary solenoid
	3						
							Angular travel
		2					25°
		3					35°
		4					45°
		6					65°
		9					95°
			BOO				Shaft design
							Coil terminals
				F			Flying leads (20 cm standard length)
							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)



Insulation class: B (max. permissible temperature = 130 °C)
Test voltage: 2500 V (eff)

Available Shaft design



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