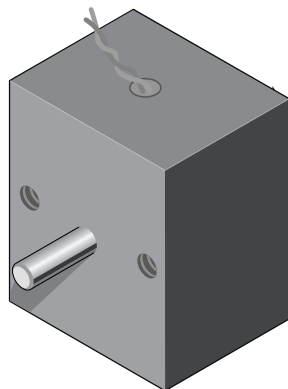


## E3 Series Rotary Solenoid

Voltage rating	V DC	24						205						V DC	Voltage rating
ED* LK	%	100	70	45	30	15	5	100	70	45	25	15	5	%	ED* LK
Current rating	mA	365	560	850	1.290	2.500	6.315	40	64	99	164	259	730	mA	Current rating
Nominal resistance	Ω	65,7	42,6	28,1	18,6	9,6	3,8	5.130	3.227	2.076	1.250	793	281	Ω	Nominal resistance
E 32, 25°	MA Ncm	1,30	1,95	3,00	4,80	7,30	10,20	1,25	1,80	2,80	4,60	6,50	9,90	Ncm MA	E 32, 25°
	ME Ncm	2,50	3,60	4,90	7,50	9,50	11,20	2,40	3,30	4,70	6,80	8,80	11,00	Ncm ME	
E 33, 35°	MA Ncm	1,10	1,75	2,70	4,20	6,40	9,60	1,00	1,60	2,45	4,00	5,70	9,25	Ncm MA	E 33, 35°
	ME Ncm	2,25	3,30	4,50	6,10	8,00	9,50	2,20	3,00	4,30	5,90	7,50	9,30	Ncm ME	
E 34, 45°	MA Ncm	0,90	1,55	2,40	3,50	5,60	9,10	0,80	1,40	2,20	3,40	5,00	8,75	Ncm MA	E 34, 45°
	ME Ncm	2,00	3,00	4,10	5,20	6,60	8,10	1,90	2,25	4,00	5,00	6,15	7,95	Ncm ME	
E 36, 65°	MA Ncm	0,60	1,00	1,20	2,40	4,10	7,20	0,55	0,90	1,35	2,30	3,60	6,90	Ncm MA	E 36, 65°
	ME Ncm	1,70	2,20	3,10	3,80	5,00	6,10	1,50	2,10	3,00	3,75	4,60	6,00	Ncm ME	
E 39, 95°	MA Ncm	0,20	0,55	0,95	1,20	2,00	4,80	0,20	0,50	0,85	1,15	1,75	4,50	Ncm MA	E 39, 95°
	ME Ncm	1,40	1,50	2,00	2,50	3,60	4,40	1,25	1,50	2,00	2,50	3,30	4,20	Ncm ME	

\* By using a cooling surface  $\geq 150 \text{ cm}^2$ , the permissible duty cycle can be extended up to 1.7x normal rating

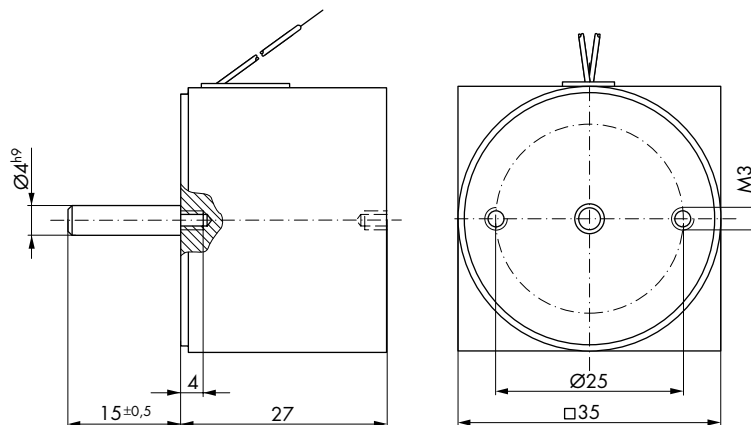
MA = Initial torque  
ME = End torque (5° before end of rotary angle)



Coil terminals: Flying leads  
Weight: appr. 200 g  
Dyn. moment of inertia (rotational mass): appr.  $0.6 \cdot 10^{-6} \text{ kg m}^2$   
Time constant: appr. 2.5–10 ms

All solenoids with MA > 0.6 Ncm are available with spring return, with a rating of MR = 0.5 Ncm approximately.

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

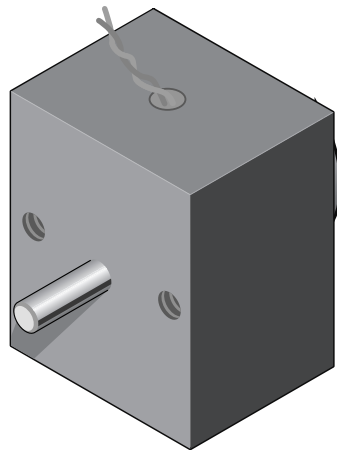


**Impulse Automation Limited**  
**United Kingdom**  
**Company Registration 665193**

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## E3 Series Ordering Information

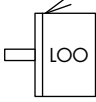
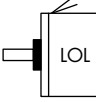
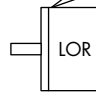
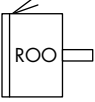
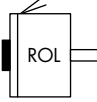
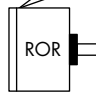
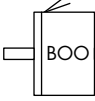
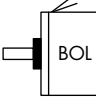
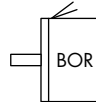
E	3	4	-LOL-	- N -	24 V DC	100 % ED	Order specifications
E							Rotary solenoid
	3						
							Angular travel
		2					25°
		3					35°
		4					45°
		6					65°
		9					95°
			-LOL-				Shaft design
							Coil terminals
				F			Flying leads (20 cm standard length)
							Nominal voltage
					24		Standard 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)  
 Accessories: Plug-in socket Z801

# E3 Series Shaft & Rotation Options

## Shaft designs

Normal	Spring return
	
	
	
	
	
	

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

- O** 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

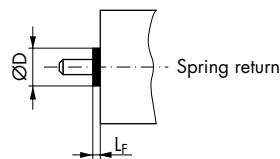
- L** on the anti-clockwise shaft end
- R** on the clockwise shaft end
- O** no return spring fitted
- B** both sides

### Example 1

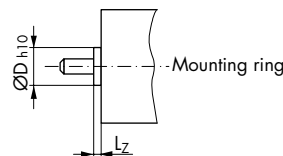
anti-clockwise rotation, no return spring, standard shaft length  
**LOO** -

### Example 2

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



Spring return arrangement (with protection cap)



Mounting ring

Dimensions in mm	Solenoid size
	E3
Ø D	15,0
L <sub>F</sub>	6,0
Ø D <sub>h10</sub>	13,0
L <sub>Z</sub>	1,8

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