

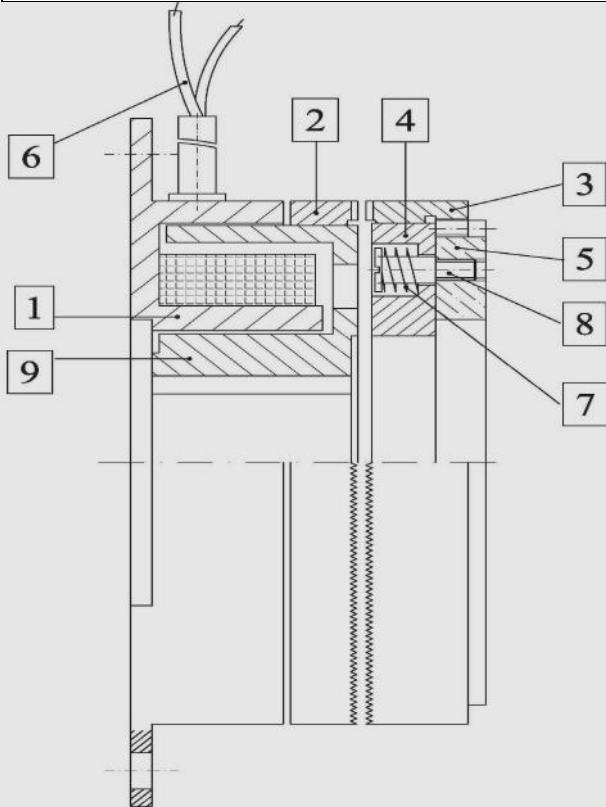
Size			11	12	15	21	22	24
Torque	Mu	(Nm)	50	100	250	500	1000	2200
Max Speed		(min <sup>-1</sup> )	4000	3500	3500	3000	3000	2500
DC Voltage		(V)	24 V DC					
Power Consumption		(W)	23.8	27	37	53.8	79.6	114
Moment of inertia		(10 <sup>-3</sup> kg m <sup>2</sup> )						
Magnet Side			0.35	0.81	1.92	4.46	10.3	25.7
Armature Side			0.37	0.52	1.85	4.51	12.8	29.2
Weights		[kg]	1.4	2.3	3.4	5.8	10	13.5
Bores	min Ød <sup>H7</sup> max	(mm)	20	20	25	30	50	50
Dimensions	ØD	(mm)	82	95	114	134	166	195
	ØD <sub>1</sub>	(mm)	100	125	140	165	195	230
	Ød <sub>1</sub> <sup>H7</sup>	(mm)	42	52	62	72	90	100
	Ød <sub>2</sub>	(mm)	36.5	46	55	68	80	95
	Ød <sub>3</sub> <sup>H8</sup>	(mm)	42	52	62	80	100	125
	Ød <sub>5</sub>	(mm)	60	70	80	95	120	150
	Ød <sub>6</sub>	(mm)	30	40	45	62	77	100
	Ød <sub>7</sub>	(mm)	92	112	125	150	180	215
	Ød <sub>14</sub>	(mm)	4x5.5	4x6.6	4x6.6	4x9	4x9	4x9
	Ød <sub>10</sub>	(mm)	3xM4	3xM4	3xM4	3xM5	3xM6	3xM6
L	(mm)	41.5	48.5	53	63.5	72	86	
l <sub>-0.1</sub>	(mm)	26	27.5	30.5	38	40.5	52	
l <sub>1</sub>	(mm)	2.5	3	3.5	3.5	4	4	
l <sub>3</sub>	(mm)	8	8.5	11	10.5	13	18.5	
l <sub>10</sub>	(mm)	4	6	6.5	8.5	11.5	12	
l <sub>7±0.1</sub>	(mm)	0.5	0.8	0.8	0.8	0.8	1.0	
l <sub>8±0.1</sub>	(mm)	0.3	0.4	0.4	0.4	0.5	0.5	

The holes for attaching the adapter plate to the item of machinery must be made by the customers.

\* Special Voltage clutches available on request.

\* Keyways BS 4235, DIN 6885

\* Technical Alteration



### **CONSTRUCTION**

- |                  |                         |                   |                        |           |
|------------------|-------------------------|-------------------|------------------------|-----------|
| (1) Coil Housing | (3) Armature Drive Ring | (5) Adapter Plate | (7) Compression Spring | (9) Rotor |
| (2) Drive Ring   | (4) Armature Plate      | (6) Lead Wire     | (8) Screw              |           |

### **OPERATION**

The Stationary Coil Housing (1) potted with the coil is centered over the rotor (2) by means of mounting flange. The Rotor is bored has a keyway and is pressed directly on to the driving shaft. Drive Ring (2) is press fitted on rotor. Armature drive ring (3) is press fitted on armature plate (4) and these two slides on spur gear provided on adapter plate (5). Adapter plate is bolted to the item of machinery with which it must rotate. Adapter Plate is supplied without mounting holes. Required Mounting hole and finish bore can be made by the user.

Spring (7) and screw (8) ensure that the two toothed rings are kept apart when the clutch is de energized. Face Teeth are machined on faces of Drive Ring and armature drive ring.

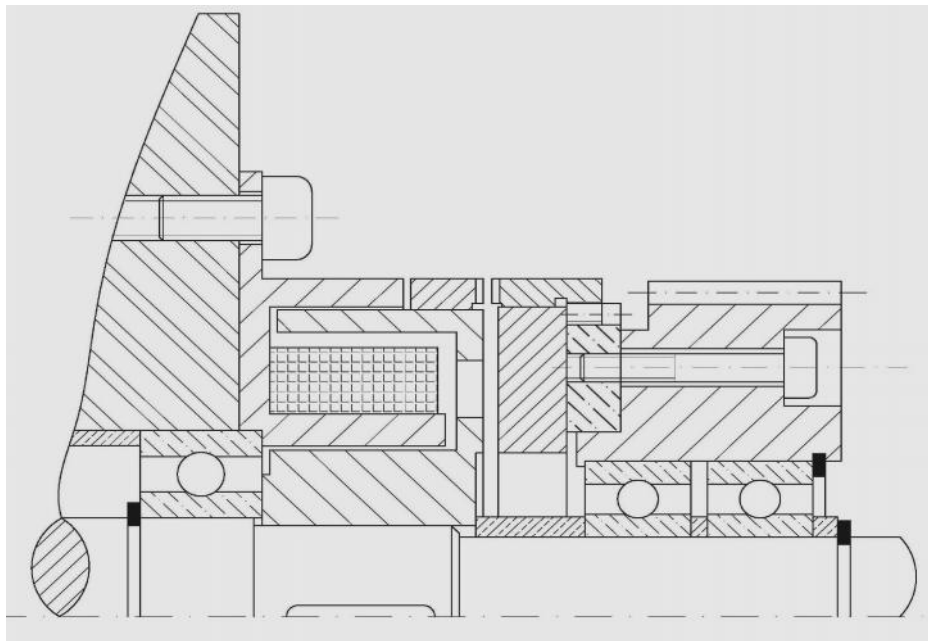
### **APPLICATION**

Engagement at Rest or at a relative speed of  $\pm 5$  r.p.m of the shafts but may be disengaged at any speed or under load. Nil residual torque. Operation is possible in both wet and dry condition.

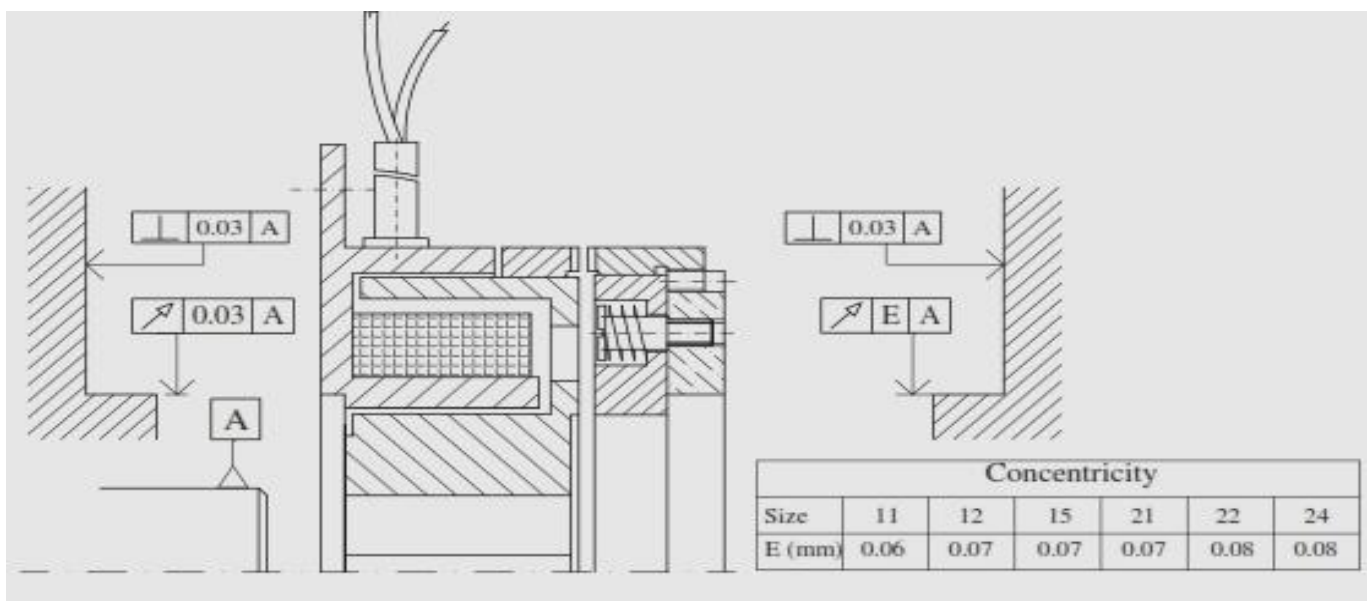


**EXAMPLE OF INSTALLATION**

Centering of Clutch Housing must be done with care so that the housing does not touch the rotating rotor.



**MOUNTING TOLERANCES AND ALIGNMENT FOR CONNECTING PARTS.**



**ORDER EXAMPLE.**

Electromagnetic Stationary Toothed Clutch Without Bearing  
TYPE : 24.514.22- 24 V.d.c  
Bore d = 50mm / Keyway to DIN 6885