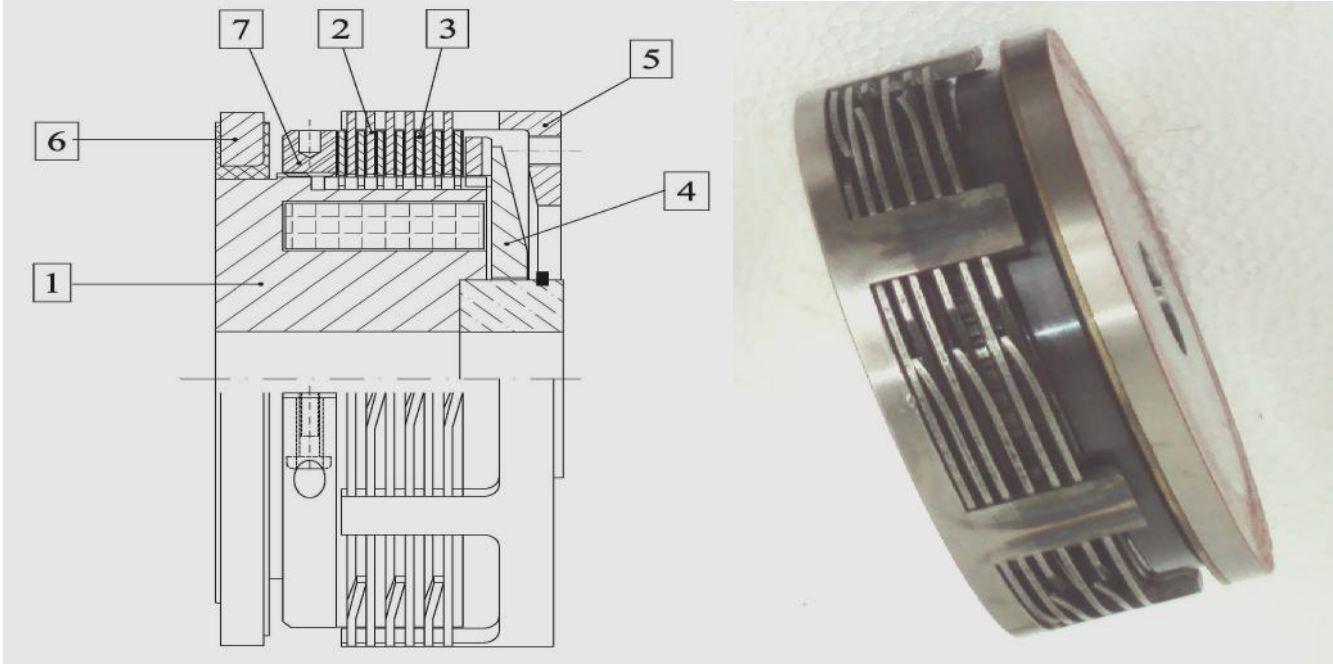


Size			2.5	4	6	10	20	40	60	80	120	160	
Torque	Oil Running	Ms dyn	25	40	60	100	200	400	600	800	1200	1600	
		Mu stat (Nm)	28	45	72	120	240	480	720	960	1450	1950	
	Dry Running	Ms dyn	32	50	80	135	270	540	800	1000	1600	2100	
		Mu stat	40	65	105	175	350	700	1050	1300	2100	2700	
Max.Speed	Oil Running	(min ⁻¹)	3000	3000	3000	2500	2500	1500	1500	1500	1000	1000	
	Dry Running		3000	3000	2500	2000	2000	1500	1500	1000	1000	1000	
DC Voltage (V)			24 V DC										
Power Consumption (W)			18	22	33	43	63	83	100	122	125	142	
Weight (Kg)			1.7	2.3	3.1	5.8	8.1	12.8	17.5	23.2	33	50	
Moment of Inertia (10 ⁻³ kgm ²)	Magnet Side		1.49	2.3	3.43	7	18.7	33.8	65.5	115	183	403	
	Armature Side		0.39	0.8	1.13	3.55	7.83	15.3	25.3	47.3	75	150	
Number Of Plates	Inner Plate (Nos)		6	7	6	7	7	6	6	6	6	6	
	Outer Plate (Nos)		5	6	5	6	6	5	5	5	5	5	
Bores Ø d ^{H7} / Keyway to BS 4325	Min		16	18	20	25	30	35	40	50	50	50	
	Max		30	30	34	40	52	58	65	75	80	85	
Dimensions (mm)	Ø D		95	105	115	140	166	195	214	240	264	295	
	Ø d ₁ ^{H7}		60	70	80	100	120	130	155	180	200	225	
	Ø d ₂		40	40	45	52	65	72	80	95	100	105	
	Ø d ₈		56	66	76	96	115	125	148	170	190	215	
	Ø d ₉		82	90	100	110	135	160	190	210	240	260	
	Ø d ₁₀		82	90	100	120	140	170	190	215	240	265	
	Ø d ₁₃ DIN 912		M4	M4	M5	M5	M6	M6	M6	M6	M6	M6	M8
	Ø d ₁₅ DIN 6912		4xM6	4xM6	4xM6	4xM8	4xM8	4xM12	4xM12	4xM12	4xM12	4xM12	6XM16
	L		45	50	53	63	67	73	81	90	101	110	
	l ₃		0.3	0.3	0.4	0.7	0.8	0.9	1	1	1.1	1.2	
l		4	4.5	5	6	6.5	8	9	10	11	12		
l ₁		7	7	8	8	8	8	8	8	8	9		
l ₂		4.5	4.5	5	5	5	5	5	5	5	6		
l ₄		2	2.5	2.5	3.5	3.5	4.5	4.5	5.5	5.5	6.5		

* Special Voltage Clutches available on request.

* Keyways BS 4235, DIN 6885

* Technical Alteration reserved.



CONSTRUCTION

- | | | | |
|------------------|--------------------|---------------|--------------------|
| (1) Coil Housing | (3) Inner Plate | (5) Carrier | (7) Adjustable Nut |
| (2) Outer Plate | (4) Armature Plate | (6) Slip Ring | |

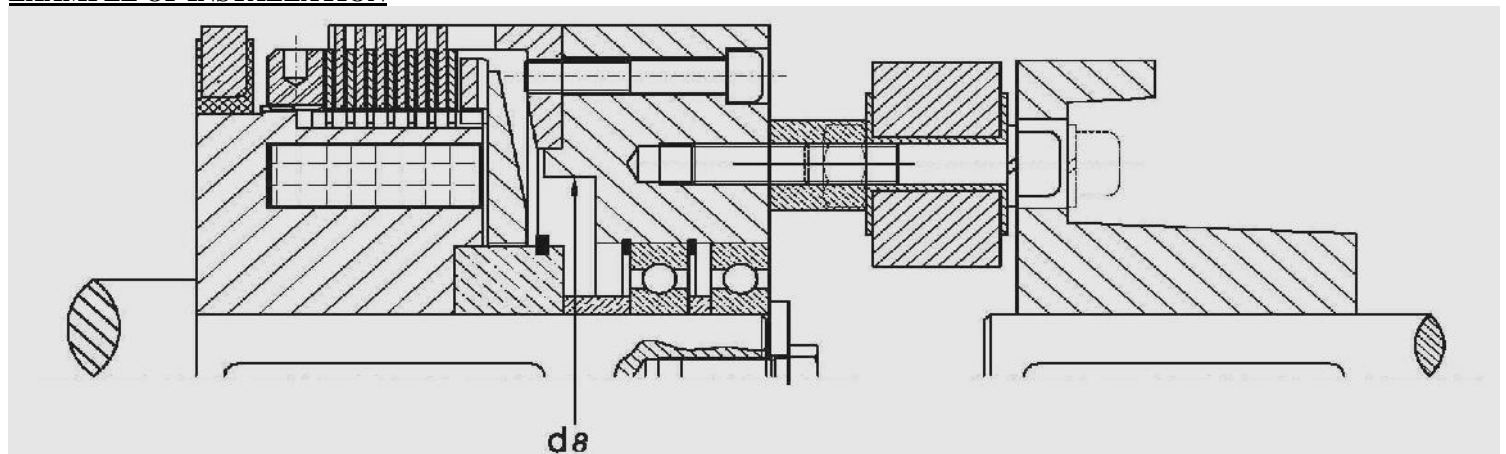
OPERATION

The Coil Housing (1) has Gear teeth on its outer periphery, which supports the inner plate (3) and the armature plate (4). The Coil Housing is bored and has a keyway and is pressed directly on to the driving shaft. Carrier (5) supports the Outer Plate (2) and is bolted to the item of machinery with which it must rotate. Energization of the coil Housing through the Slip Ring (6) by Telescopic Brush (refer page 37 for brush details) generates a magnetic field which attracts the sliding armature plate (4). The Proper positioning of the adjustable nut (7) determines the airgap between coil housing face and armature face. The Clutch Plates are thus compressed and driving torque is transmitted. To release the Clutch, all that is necessary is to switch off the power supply.

APPLICATION

Engagement or disengagement while running or while at rest. Operation in Dry or lubrication environment.
Friction of Steel to Sintered Plates.

EXAMPLE OF INSTALLATION



The Basic Version of Clutch combination with flexible coupling.

Always install the clutch with the magnet body on the driving side. Armature uppermost when installing clutch vertically. Clutch with negative slipring: external earth connection. Connection of two shafts only by means of flexible coupling. Carrier (5) is supplied with pilot bore. Required Mounting hole and finish bore can be done by the user. Carefully maintain d8 dimension in machine flange or gear wheel.

ORDER EXAMPLE.

Electromagnetic Multidisc Slip Ring Dry Run Clutch

TYPE : ELKa 10 – 24 V.d.c

Bore d = 25mm / Keyway to BS 4325