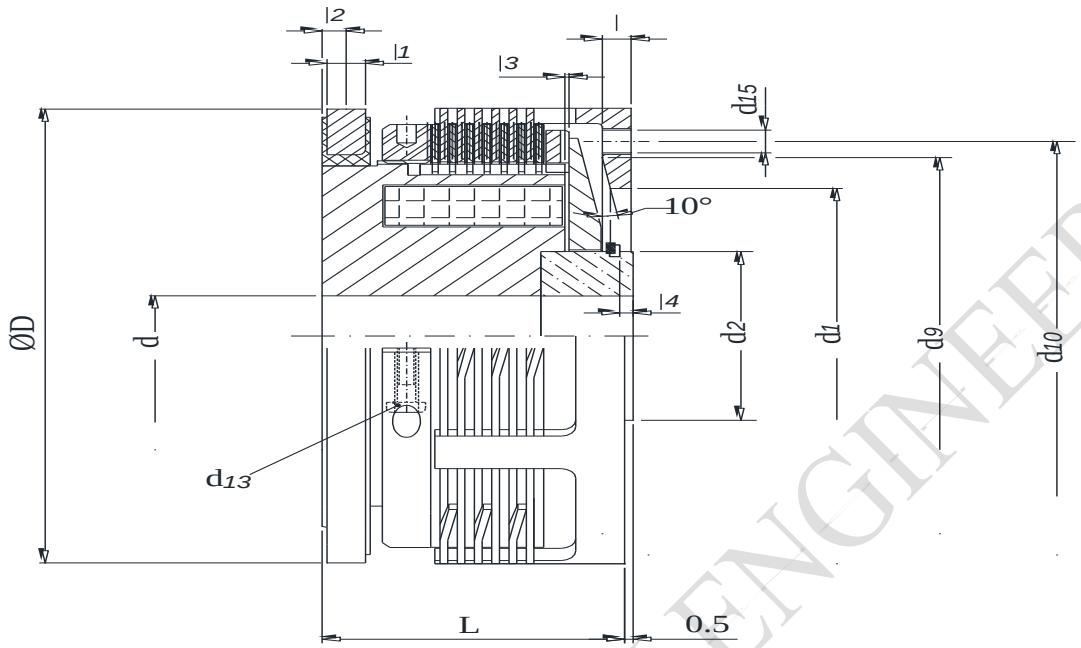
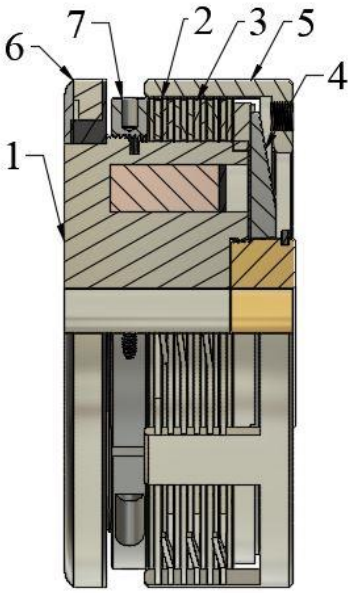
Part Name	Electromagnetic Multidisc Slip Ring Dry Run Clutch	Type	ELKa. __ ___- 24 VDC (size)

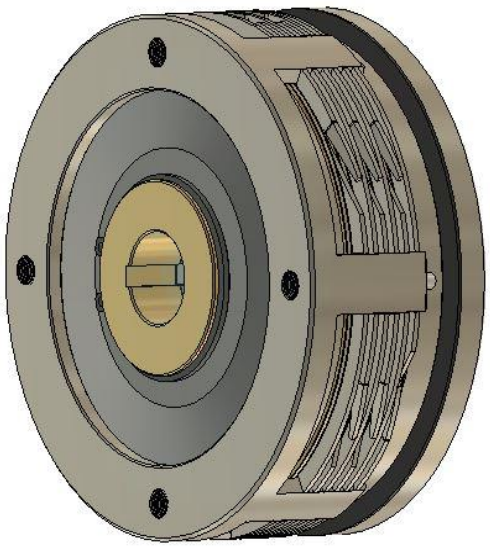
Dimensions



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	28	45	72	120	240	480	720	960	1450	1950
		(Nm)										
	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	Magnet Side	($10^{-3}kgm^2$)	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
	Ød_{10}		82	90	100	120	140	170	190	215	240	265
	Ød_{13} DIN 912		**M4**	**M4**	**M5**	**M5**	**M6**	**M6**	**M6**	**M6**	**M6**	**M8**
	Ød_{15} DIN 6912		**4xM6**	**4xM6**	**4xM6**	**4xM8**	**4xM8**	**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.**





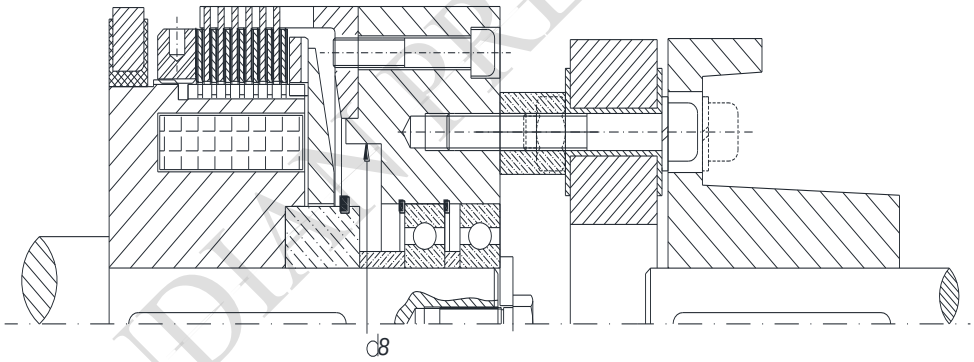
OPERATION

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 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 VDC
Bore d = 25mm / Keyway to BS 4325

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