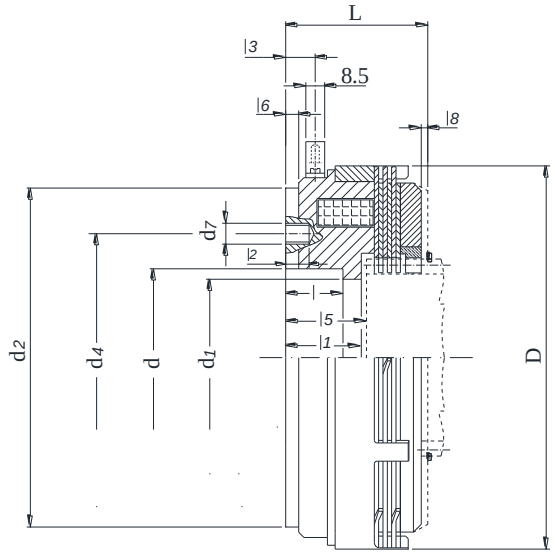
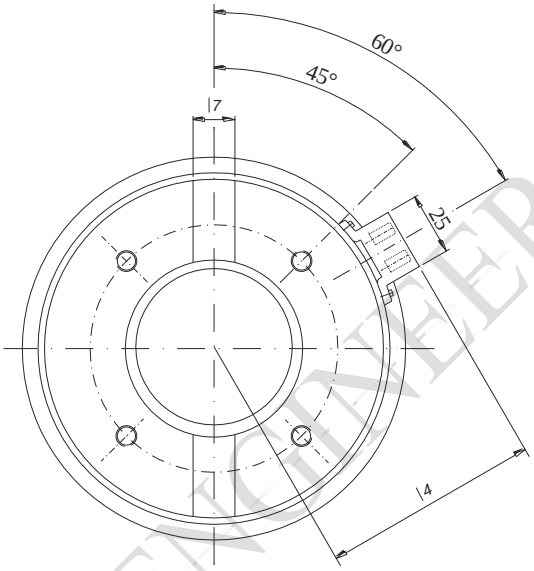
Part Name	Electromagnetic Multidisc Wet Run Brake	Type	24.512.__ __.3- 24 VDC (size)

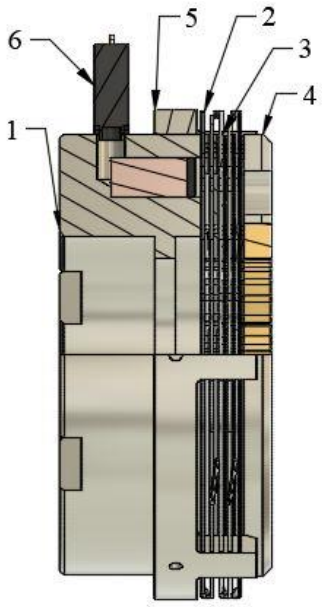
Dimensions

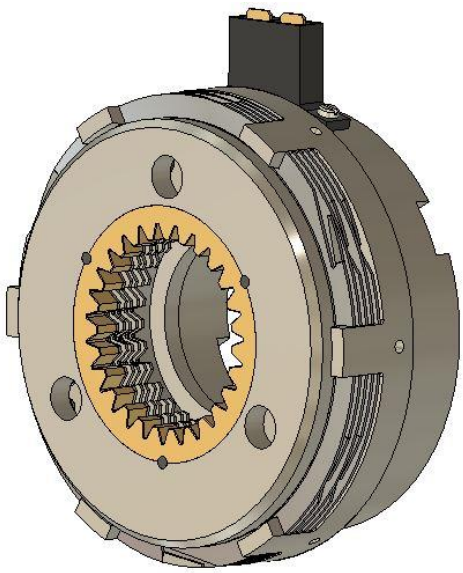




Size				11	12	15	21	22	24	26	28
Torque	Dyn	Ms	(Nm)	10	25	60	120	250	480	600	960
	Stat	Mu		20	40	100	200	400	800	1100	1600
Max.Speed			(min^{-1})	3000	3000	3000	2400	2000	2000	2000	2000
DC Voltage			(V)	24 V DC							
Power Consumption			(W)	18	18	30	30	45	66	79	88
Number of plates	Inner Plates			3	4	5	5	5	6	6	6
	Outer Plates			3	4	5	5	5	6	6	6
Weights			(kg)	1.0	1.2	2	3.5	6.5	9.3	12.3	16.7
Moment of inertia (Armature side)			($10^{-3}kgm^2$)	0.14	0.18	0.5	1.45	4.8	11	21	34
Dimensions (mm)	Ø D		(mm)	82	95	114	134	166	195	210	240
	Ø d^{k6}		(mm)	35	42	55	68	75	90	100	110
	Ø d_1		(mm)	31	37	45	60	65	80	90	100
	Ø d_2		(mm)	67	78	95	120	142	170	184	216
	Ø d_4		(mm)	50	56	75	90	100	116	130	145
	Ø d_7		(mm)	M5	M6	M8	M8	M10	M10	M12	M12
	L		(mm)	31	38	49.5	55	58.5	69	77.5	80
	$l^{+0.20}$		(mm)	17	20	22	22	25	28	31	32
	l_1		(mm)	19	22	27	29	30	34	39	40
	l_2		(mm)	5	5	8	8	10	12	16	18
	l_3		(mm)	5	6	12	13	12.5	12.5	14	15.5
	l_4		(mm)	56.5	62.5	69.5	78	93	107	120.5	126
	l_5		(mm)	20.5	25	30	32	33	37	42	43
	$l_6^{+0.10}$		(mm)	2.5	2.5	5	5	6	6	6	6
	l_7^{H7}		(mm)	12	12	14	16	20	20	20	25
	l_8		(mm)	1.0	1.2	1.8	2	2.5	3.5	4	5

*** Special Voltage Brakes available on request.** *** Brakes with 1000mm leads available as an option.**
*** Technical Alteration reserved**





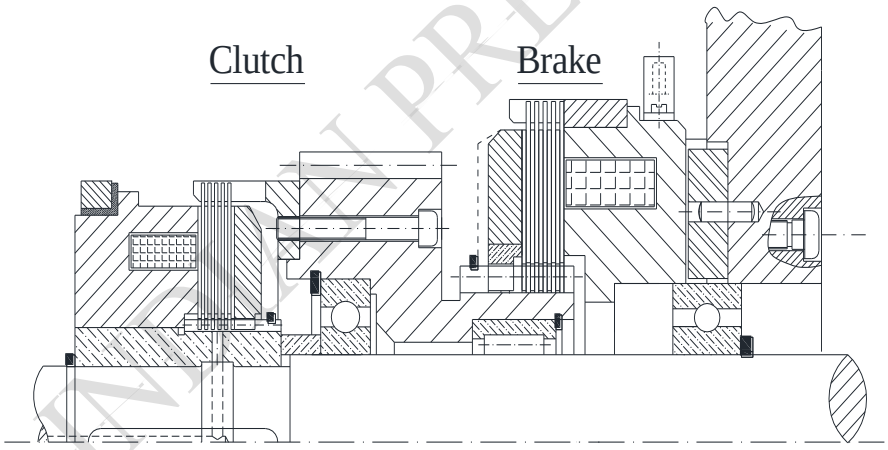
OPERATION

Carrier (5) is mounted on the coil Housing (1) and which supports the outer plate (2). Armature Plate (4) and Inner Plates (3) are supported on the gear Bush which must be supplied by the user (Refer Page 24 for Gear Bush tooth Profile). Coil housing (1) is fixed into the Machine Housing (stationary Part) and load shaft is connected to the gear bush. Energization of the coil Housing through the Connector (6) generates a magnetic field which attracts the sliding armature plate (4). The Clutch Plates (3&4) are thus Compressed, and the braking torque is transmitted. To release the brake, all that is necessary is to switch off the power supply.

APPLICATION

- ☞ Braking and release while running or at rest. Operation in lubrication environment only.
  Friction of Steel-to-Steel Plates.

EXAMPLE OF INSTALLATION



The Basic Version of BRAKE with Clutch and gear wheel.

The Coil Housing of the brake is secured and located centrally to the end face of the housing.
A slot is provided on coil housing back to help in locating the Coil Housing. Make provision for armature travel l8.
Secure gear bush axially.
For details of toothing for the gear bush “refer data sheet of Toothed profile for driving bush” Page No.24..

ORDER EXAMPLE.

Electromagnetic Multidisc Slip Ring Wet Run BRAKE
TYPE: 24.512.12.3 – 24 VDC

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