

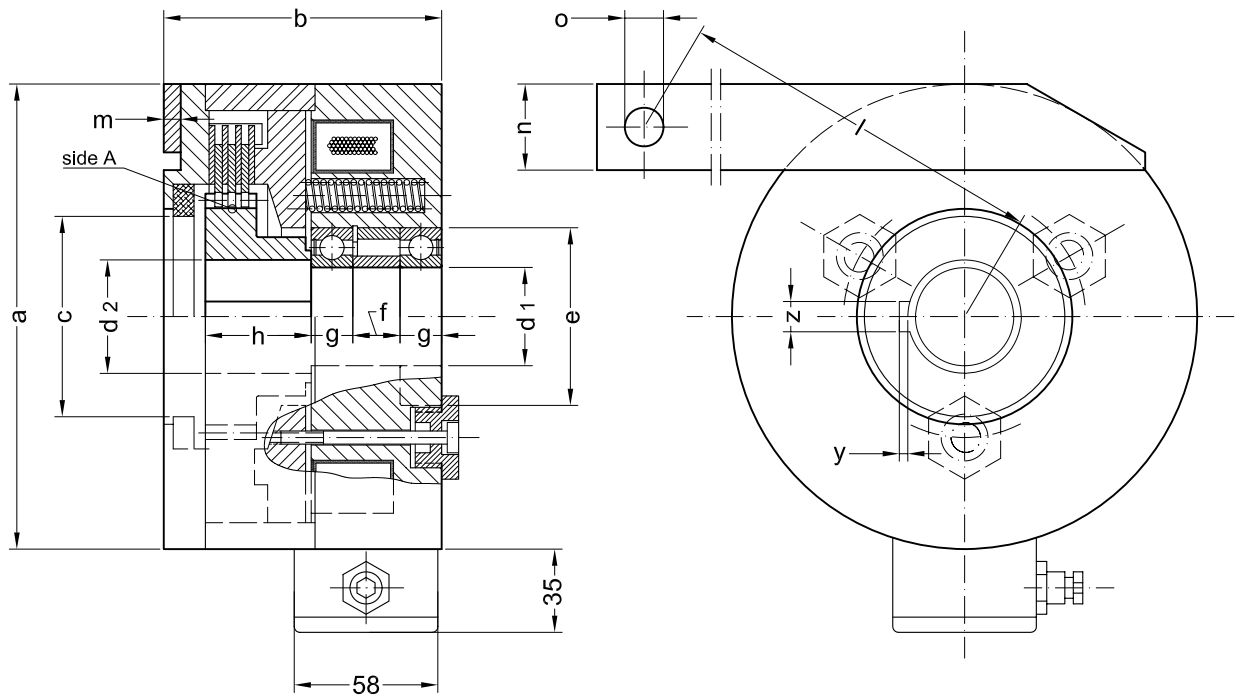
Electromagnetic Spring-Operated Multi Disc Brake

Safety brake with retaining bracket.

For dry operation, coil voltage 24 V DC

- ◆ For installation on gears of hoisting equipments.
- ◆ Suitable as a safety brake in case of power failure.
- ◆ Maintenance-free, no air gap adjustment required.
- ◆ Manual release of the brake by means of screws possible..
- ◆ For horizontal mounting.

The brake is especially suited for additional installation on gears of hoisting equipments to increase their safety standard. The brake effect is given with deenergized coil and hence also during power failures. The brake is released and kept in released position by nominal voltage. The stack consisting of steel/sintered discs has been designed for life. A possible disc wear can be checked by means of a wear indicator.



Data and Dimensions		LMOBC 5	LMOBC 10	LMOBC 20	LMOBC 40	LMOBC 80	LMOBC 160	LMOBC 250
Static torque	Nm	56	112	225	450	900	1800	2800
Dynamic torque	Nm	50	100	200	400	800	1600	2500
Idling torque	Nm	0,1	0,2	0,4	0,7	1,4	2,8	4,5
Friction work per engagement	kJ	30	53	61	122	180	312	520
Thermal capacity	W	100	140	180	300	420	660	680
Release time 1)	s	0,4	0,40	0,5	0,6	0,8	1	1,2
Engagement time 2)	s	0,06	0,07	0,08	0,1	0,12	0,15	0,15
Speed maximum	min ⁻¹	3000	2500	2000	1600	1200	800	800
Coil power consumption at 20°C	W	40	50	60	80	115	140	140
Mass moment of inertia side A	10 ⁻³ kgm ²	0,5	1,1	2	4	10,5	30	48
Mass (weight)	kg	7,5	10,2	13	22	43	72	78
Ø a	mm	125	146	160	200	250	300	300
b	mm	77	86	95	106	130	153	165
Ø c h11	mm	50	60	70	85	110	130	130
Ø d 1	mm	25	25	30	40	50	60	60
Ø d 2 H7	mm	30	30	35	45	55	65	65
Ø e	mm	47	52	62	80	90	110	110
Ø f	mm	11	11	15	16	25	33	33
Ø g	mm	12	15	15	18	20	22	22
h	mm	30	33	36	40	48	55	67
l	mm	146	208	223	342	432	408	408
m	mm	2,5	2,5	3	3	3	4	4
n	mm	20	25	30	35	40	50	50
o	mm	9	11	11	13	17	21	21
y + 0,2	mm	3,3	3,3	3,3	3,3	3,8	4,4	4,4
z JS9	mm	8	8	8	12	14	18	18
Number of keyways	-	1	1	1	1	2	2	2

1) Time interval between voltage application and release of brake 2) Time interval until brake torque reaches 63 % of the final value.