HEID ANTRIEBSTECHNIK
Produktion & Handel GmbH

FEOBM

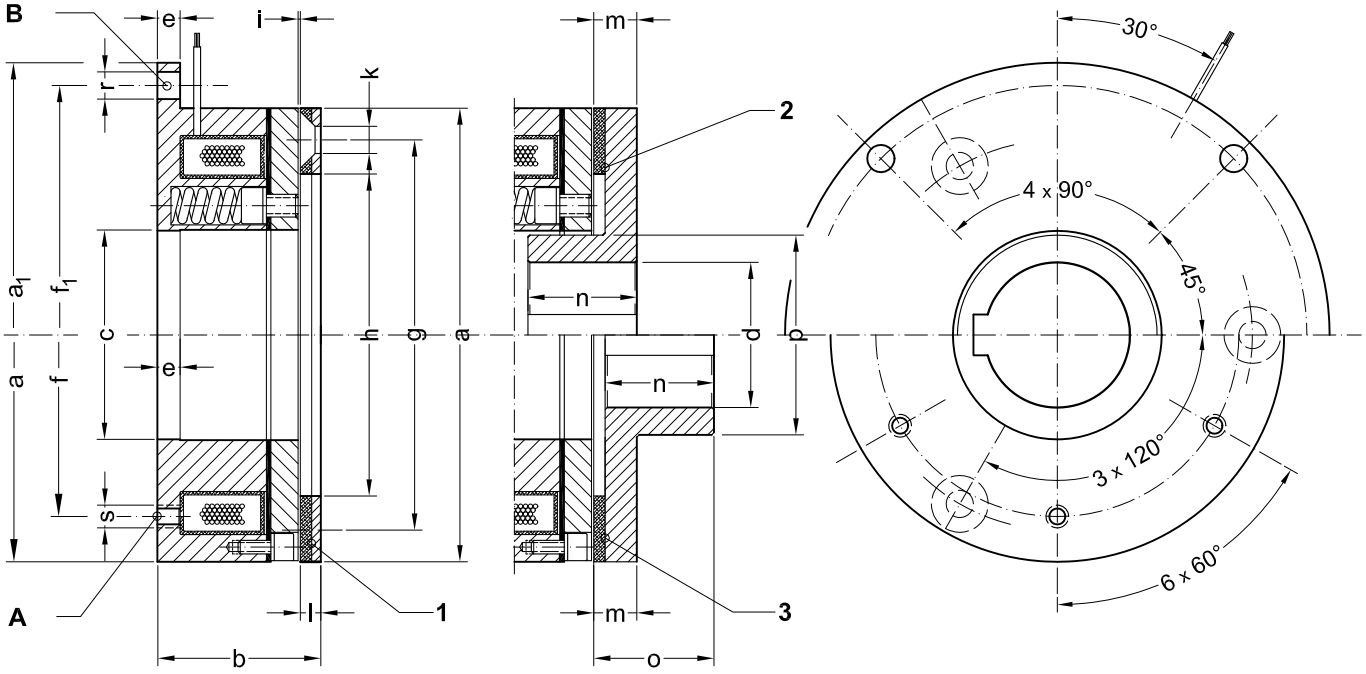
Backlash-free Electromagnetic Spring-Pressure Brake

Holding brake with diaphragm and stationary fitted coil body.

For dry operation, coil voltage 24 V DC

- Suited as safety and holding brake at interruption of power supply.
- With torsionally stiff, axially flexible spring steel diaphragm.
- Braking effect given by spring pressure force.
- No idling torque because of complete drive disconnection.
- Applicable for horizontal und vertical mounting.

The brake is equipped with an armature plate connected without circumferencial backlash to the coil body via diaphragm. With the coil switched on, the armature plate is released and completely disengaged.
Type "A" - without flange and tapped holes.
Type "B" - with flange and bore holes for fastening screws.
Both types can be supplied in the versions 1, 2 or 3.



Data and Dimensions		FEOBM 2	FEOBM 4	FEOBM 6	FEOBM 10
Dynamic torque	Nm	20	40	60	100
Friction work per engagement	kJ	4	7,8	10	14
Thermal capacity	W	30	65	80	110
Speed maximum	min^{-1}	6000	5000	4500	4000
Spring pressure F	N	1350	2100	3600	4400
Release time	ms	90	130	145	220
Engagement time	ms	30	35	50	65
Coil power consumption at 20 °C	W	35	40	50	65
Inertia moment - version 1	10^{-3} kgm²	2	6	12	24
Inertia moment - version 2 or 3	10^{-3} kgm²	4.3	13	21	50
Mass (weight) without hub	kg	2	3,5	5,5	6,2
Ø a_1 h8	mm	132	162	190	220
Ø a	mm	110	140	160	190
b	mm	37.6	46.3	53.3	62.5
Ø c H7	mm	50	70	80	80
Ø d 1)	mm	35	55	62	62
e	mm	5	6.5	7	7
Ø f_1	mm	121	151	175	205
Ø f	mm	90	120	120	180
Ø g	mm	95	120	135	166
Ø h	mm	78	98	113	146
i	mm	0.3	0.3	0.3	0.4
Ø k	mm	6,5	9	9	9
l	mm	4.7	5.4	6.1	6.7
m	mm	12	13	13	16
n	mm	30	40	40	44
o	mm	33	43	44	48
Ø p	mm	48	70	80	80
Ø r	mm	6.5	6.5	9	9
Ø s	mm	M4	M5	M5	M6

1) Keyway according to DIN 6885/1