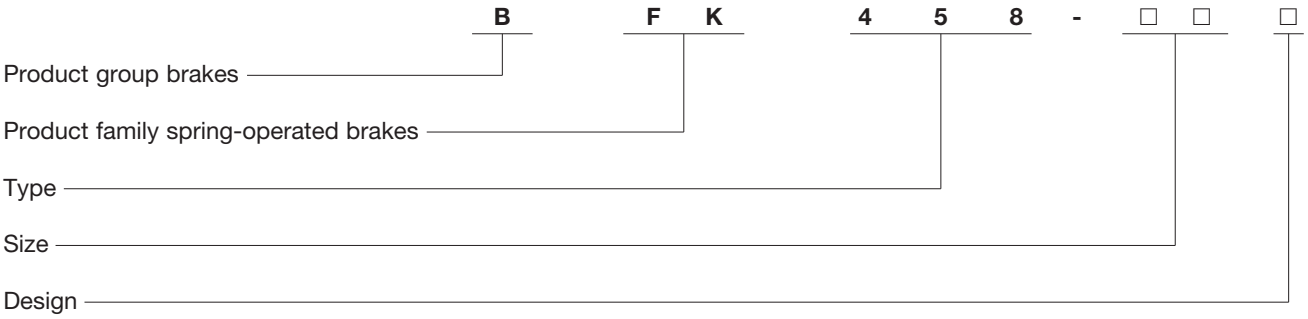
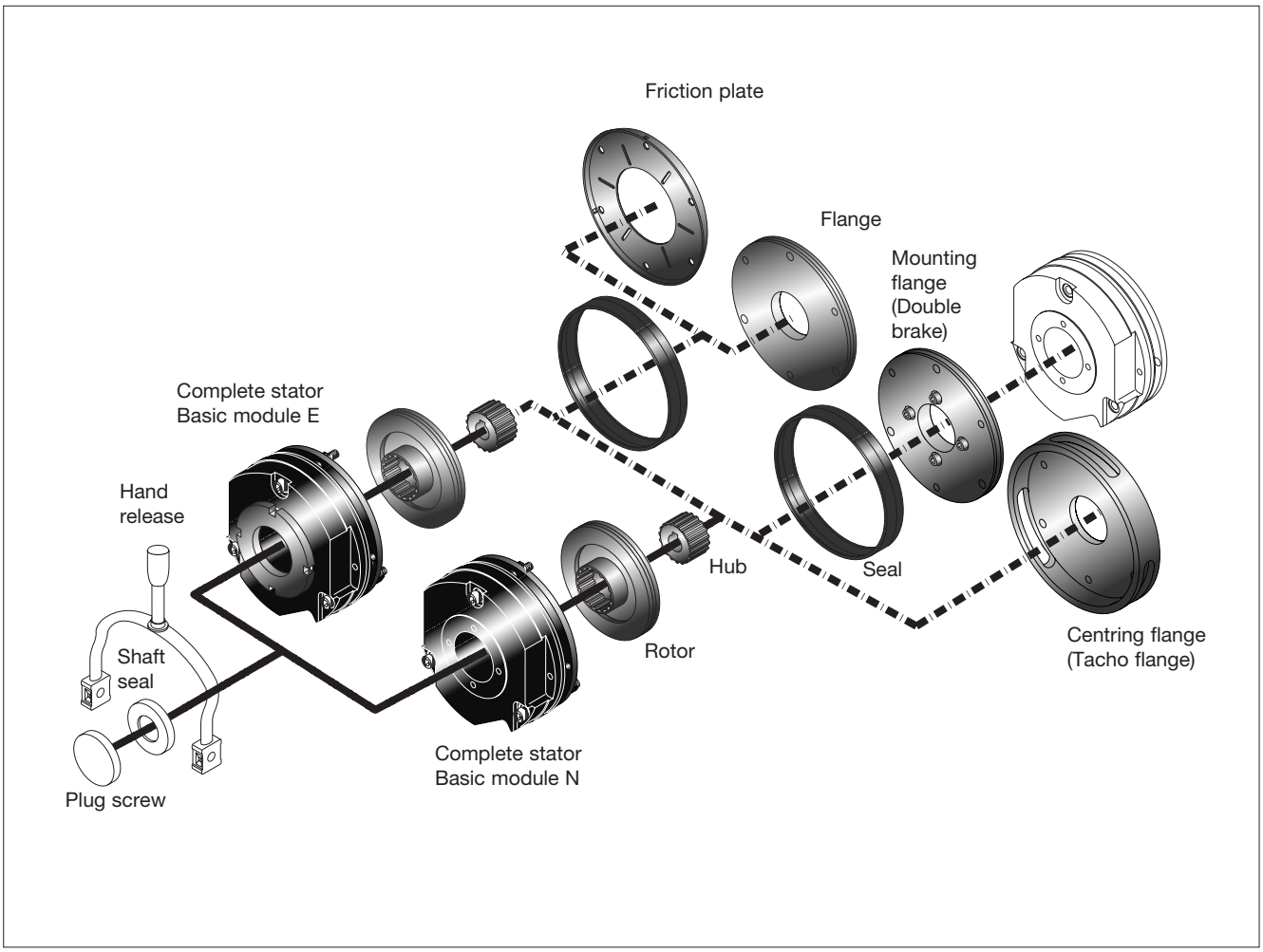
Product Key



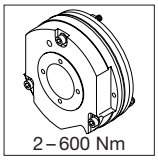
Size
06, 08, 10, 12, 14, 16, 18, 20, 25

Uncoded:
Supply voltage, hub bore, options

Stator design
E – adjustable (brake torque can be reduced using adjuster nut)
N – not adjustable



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Technical Data

Brake Torques

Depending on the individual application, the graduated torques listed in the table are available. A pole shim (brass film) must be placed between stator and armature plate if you want to achieve short operating times with low torques.

Size	06	08	10	12	14	16	18	20	25
Rated torques [Nm], related to the relative speed $\Delta n = 100\ min^{-1}$								80 E	
	1.5 E	3.5 N/E			25 N/E	35 N/E	65 N/E	115 N/E	175 N/E
	2 N/E	4 E	7 N/E	14 N/E	35 N	45 N/E	80 N/E	145 N/E	220 N
	2,5 N/E	5 N/E	9 N/E	18 N/E	40 N/E	55 N/E	100 N/E	170 N/E	265 N/E
	3 N/E	6 N/E	11 N/E	23 N/E	45 N/E	60 N/E	115 N/E	200 N/E	300 N/E
	3.5 N/E	7 N/E	14 N/E	27 N/E	55 N/E	70 N/E	130 N/E	230 N/E	350 N/E
	4 N/E	**8 N/E**	**16 N/E**	**32 N/E**	**60 N/E**	**80 N/E**	**150 N/E**	**260 N/E**	**400 N/E**
	4.5 N/E	9 N/E	18 N/E	36 N/E	65 N/E	90 N/E	165 N/E	290 N/E	445 N/E
	5 E	10 E	20 E	40 E	75 N/E	100 N/E	185 N/E	315 N/E	490 N/E
	5.5 E	11 E	23 N/E	46 N/E	80 N/E	105 N/E	200 N/E	345 N/E	530 N/E
	6 N/E	12 N/E				125 N/E	235 N/E	400 N/E	600 N/E

N . . . Brake torque for design N (without adjuster nut)
E . . . Brake torque for design E (with adjuster nut)

Holding brake with emergency stop operation ($s_{lümax}$ ca. 1.5 x $s_{lü}$)

Operating brake ($s_{lümax}$ ca. 2.5 x $s_{lü}$)

Standard brake torque

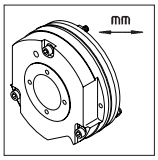
Basic module E, brake torque reduction

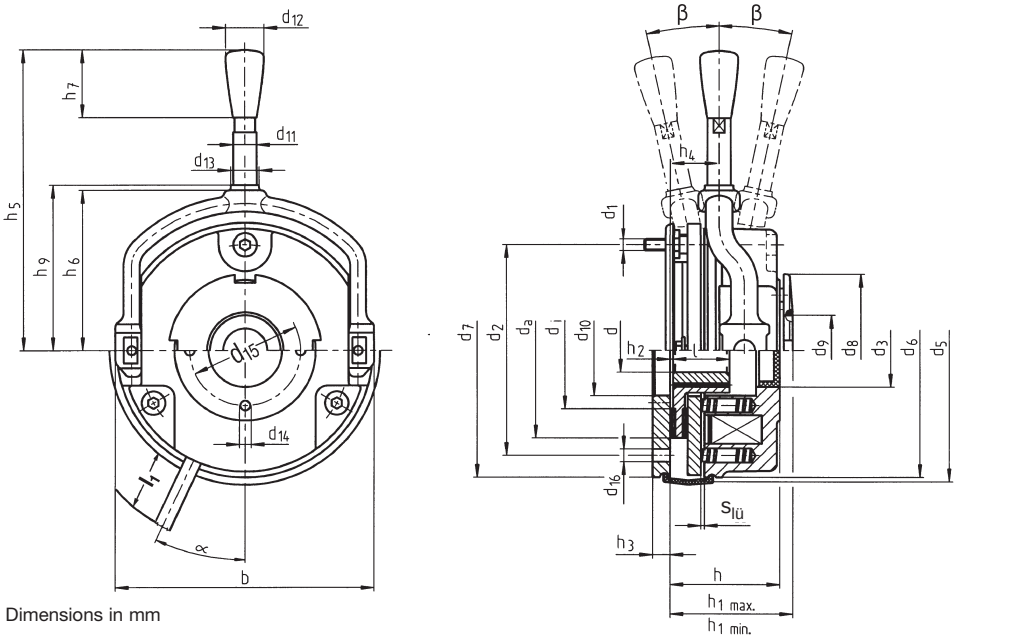
For the basic module E, the brake torque can be reduced by turning the detended adjuster nut in the stator.
The adjuster nut can be unscrewed until the maximum dimension h_{1max} (see table on page 11).

Take into consideration that engagement times and disengagement times change depending on the brake torque.
The reduction of the torque is independent of the choosen brake torque.

Size	06	08	10	12	14	16	18	20	25
Torque reduction per detent position [Nm]	0.2	0.35	0.8	1.3	1.7	1.6	3.6	5.6	6.2

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Dimensions in mm

thickness of friction plate:
1.5 mm
(Sizes 06-16)

Size	b	d^{J7} 1) Pilot	d^{H7} 2) Standard	d_1	d_2	d_3^{H7}	d_5	d_{6j7}	d_7	d_8	d_9^{H8}	d_{10}	d_{11}	d_{12}	d_{13}	d_{14} 3)	d_{15} 3)	d_{16}	di	da
06	88	10	10/11/12/14/15	3xM4	72	25	91	87	87	52	24	31	8	13	9.6	4xM4	37.7	3x4.5	40	60
08	106.5	10	11/12/14/15/20	3xM5	90	32	109	105	105	60	26	41	8	13	9.6	4xM5	49	3x5.5	47	77
10	132	10	11/12/14/15/20	3xM6	112	42	134	130	130	68	35	45	10	13	12	4xM5	54	3x6.6	66	95
12	152	14	20/25	3xM6	132	50	155	150	150	82	40	52	10	13	12	4xM5	64	3x6.6	70	115
14	169	14	20/25/30	3xM8	145	60	169	165	165	92	52	55	12	24	14	4xM6	75	3x9	80	124
16	194.5	15	25/30/35/38*	3xM8	170	68	195	190	190	102	52	70	12	24	14	4xM6	85	3x9	104	149
18	222	20	30/35/40/45	6xM8	196	75	222	217	217	116	62	77	14	24	15.5	4xM8	95	4x9 4)	129	174
20	258	25	35/40/45/50	6xM10	230	85	259	254	254	135	72	90	14	24	16.5	4xM10	110	4x11 4)	148	206
25	302	30	40/45/50/55/60/65/70	6xM10	278	115	307	302	302	165	85	120	16	24	18.4	4xM10	140	6x11	199	254

1) Pilot bore without keyway
2) Standard keyway acc. to DIN 6885/1 P9, selection of the shaft diameter depending on the load type (see operating instructions)
* bore diameter Ø 38, Keyway acc. to DIN 6885/3 P9
3) For the size 06 - 12, the bores are added on customer request
4) The thread in the threading surface is offset by 30° in reference to the center axle of the manual release lever

Size	h	h_1 min.	h_1 max.	h_2	h_3	h_4	h_5 Standard	h_5 max.	h_6	h_7	h_8	h_9	l	l_1 5)	$s_{lü}$	α	β 6)
06	36.3	39.3	43.25	1	6	15.8	107	–	54.5	23	32.8	56.3	18	400	0.2	25°	12°
08	42.8	46.8	50.8	1.5	7	16.3	116	–	63	23	41.3	65	20	400	0.2	25°	10°
10	48.4	52.4	55.9	2	9	27.4	132	–	73.8	23	42.4	77.8	20	400	0.2	25°	9°
12	54.9	58.9	67.53	2	9	29.4	161	–	85	23	47.4	88.5	25	400	0.3	25°	10°
14	66.3	71.3	77.3	2	11	33	195	–	98	32	50	101.5	30	400	0.3	25°	9°
16	72.5	77.5	85.5	2.25	11	37.5	240	–	113	32	53.5	116	30	600	0.3	25°	10°
18	83.1	89.1	97.09	2.75	11	41.1	279	394 7)	124	32	59.1	128.5	35	600	0.4	25°	9°
20	97.6	104.6	114.6	3.5	11	47.6	319	416 7)	146	32	68.6	149.5	40	600	0.4	25°	10°
25	106.7	115.7	127.7	4.5	12.5	57.7	445	501 7)	170	32	88.7	175.5	50	600	0.5	25°	10°

5) Cable length
6) Hand release angle tolerance + 3°
7) Recommended lever length for 1.5 M_K

Recommended ISO shaft tolerances up to Ø 50 mm = k6
over Ø 50 mm = m6