

Design types	Compact, basic, double brake
Standard rated voltages	24 V, 205 V
Protection class	IP00 – IP55
Thermal class	F (155°C)
Ambient temperature	-20°C to 40°C
Rated torques	4 to 125 Nm
Duty time	100% ED
Nominal backlash	1°
Options	Friction plate, flange, hand release, seal ring, customizations
Note	Please read the general information on data sheets and the corresponding operating instructions. Design subject to change without notice.



Brake size	Rated torques for operating brakes @ 100 [min ⁻¹]	Rated torques for holding brakes ¹⁾ @ 100 [min ⁻¹]	Maximum speed n _{max} [min ⁻¹]	Shifting work for single shift W _{max} [J]	Number of emergency stops Z _{ges} [-]	Friction work up to maintenance for operating brakes with WR coating Q _{BW} [MJ]
06	4	6	6000	3000	500	35
08	8	12	5000	7500	500	65
10	16	23	4000	12000	500	105
12	32	46	3600	24000	500	210
14	60	95	3600	30000	500	230
16	80	125	3600	36000	500	400

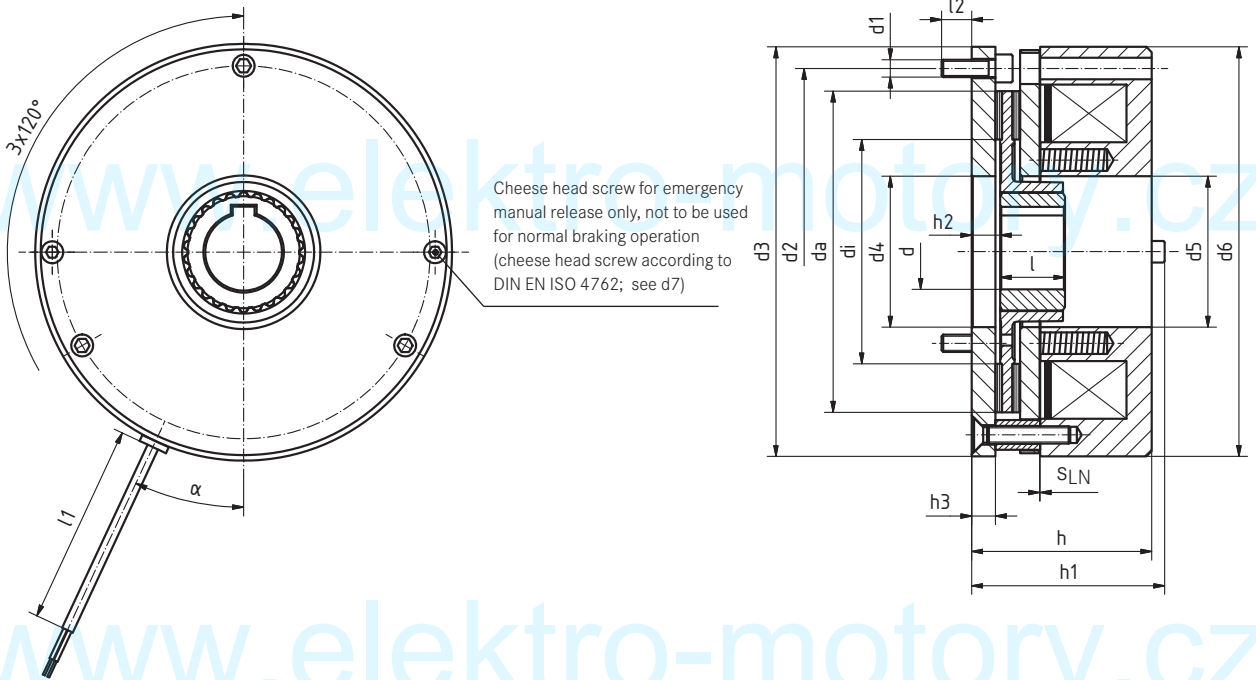
¹⁾ The use of holding brakes as operating brakes is possible but requires the use of over-excitation.

Dimensions

Brake size	b	d ^{J7 1)} spec.	d ^{H7 2)} standard	d1	d2	d3	d4	d5	d6	d7	d11	da	di
06	90	10	11/12/14/15	3xM4	72	84	31	31	84	M4x30	8	60	40
08	108	10	11/12/14/15/20	3xM5	90	102	42	41.5	102	M5x35	8	76.5	56.1
10	137	10	15/20	3xM6	112	130	44	44	130	M5x40	10	95	66.1
12	157	14	20/25	3xM6	132	150	52	52	150	M5x45	10	115	70.1
14	174	14	20/25/30	3xM8	145	165	55	60	165	M6x55	12	124	80.1
16	203	15	25/30/35/38 ³⁾	3xM8	170	190	70	70	190	M6x60	12	149	104.1

1) Pilot bored without keyway
2) Standard keyway in accordance with DIN 6885/1-P9
3) Ø 38 mm, keyway in accordance with DIN 6885/3-P9

Compact design fully assembled with rotor and flange

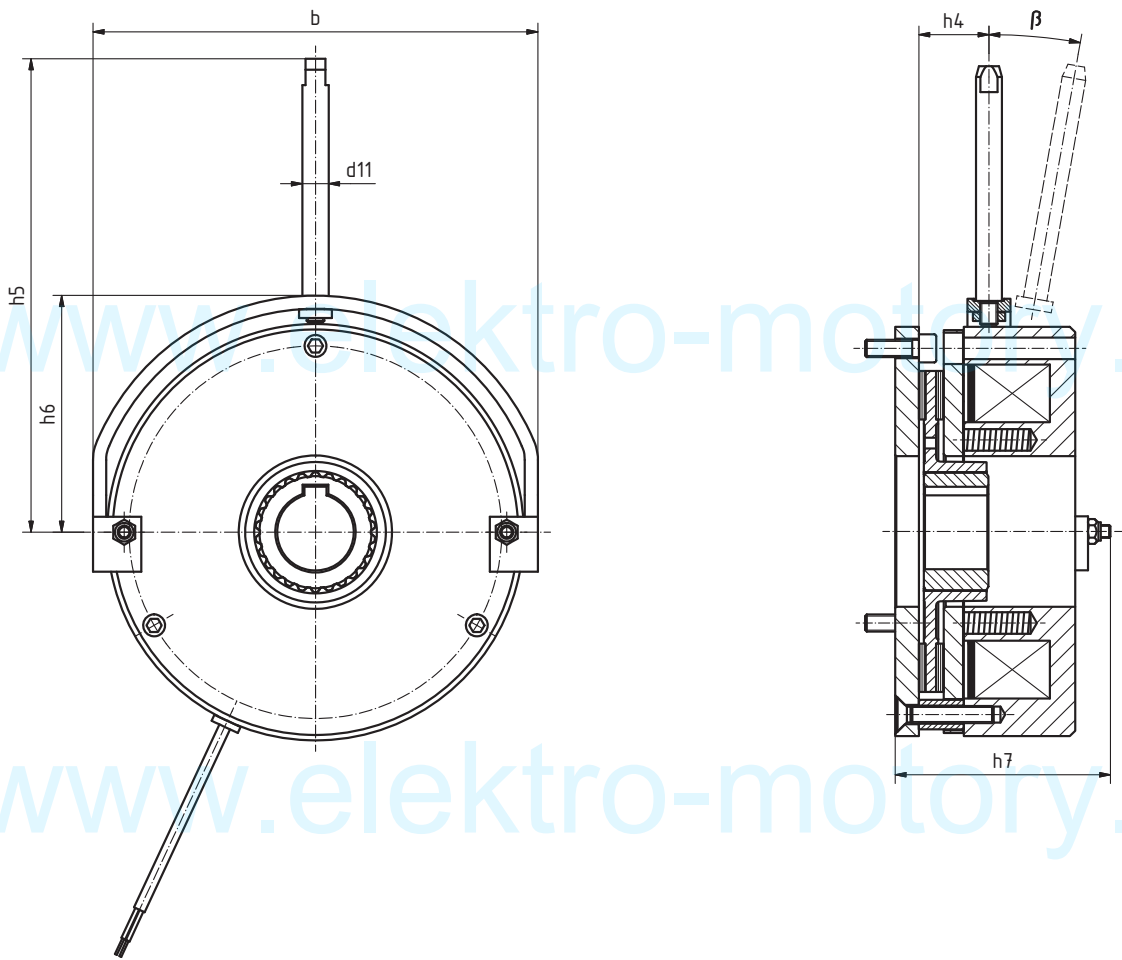


Dimensions

Brake size	h	h1	h2	h3	h4	h5	h6	h7	l	l1	l2 ⁴⁾	s _{LN}	α	β	m [kg]
06	41.3	45.3	7	6	15.8	107	49	49.7	18	400	6	0.2	25°	10°	1.1
08	49.8	54.8	8.5	7	16.3	118	59	57.1	20	400	9	0.2	25°	10°	1.9
10	56.4	61.5	10	8	27.4	142	74	65.2	20	400	12	0.3	25°	10°	3.8
12	62.4	67.4	10	8	29.4	162	84	71.2	25	400	12	0.3	25°	10°	5.7
14	77.3	83.3	13	11	33	201	94	89	30	400	14	0.3	25°	10°	8.6
16	83.5	89.5	13.3	11	37.5	250	108	99.9	30	600	14	0.3	25°	10°	12

⁴⁾ Please contact the manufacturer if a different mounting surface made from steel is used.

Compact design
with hand release



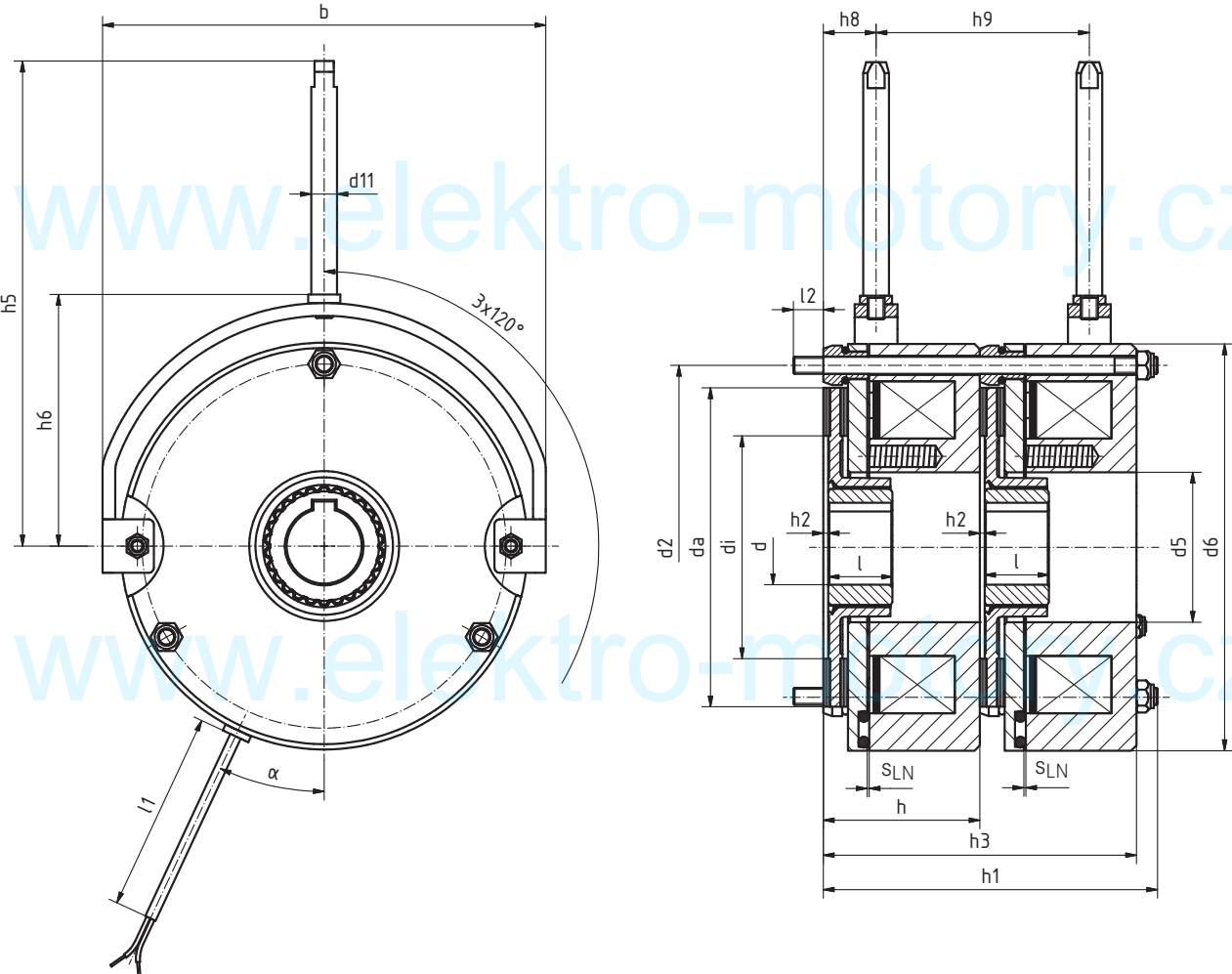
Dimensions Double spring-applied brake

Brake size	b	d ^{17 1)} spec.	d ^{17 2)} standard	d1	d2	d5	d6	d11	da	di	h	h1
06	90	10	11/12/14/15	3xM4	72	31	84	8	60	40	35.3	75.5
08	108	10	11/12/14/15/20	3xM5	90	41.5	102	8	77	57	42.8	90.5
10	137	10	15/20	3xM6	112	44	130	10	95	66	48.4	102.9
12	157	14	20/25	3xM6	132	52	150	10	115	70	54.4	114.7
14	174	14	20/25/30	3xM8	145	60	165	12	124	80	66.3	140.5
16	203	15	25/30/35/38 ³⁾	3xM8	170	70	190	12	149	104	72.5	153.1

Brake size	h2	h3	h5	h6	h8	h9	l	l1	l2 ⁴⁾	s _{LN}	α	m [kg]
06	1	70.6	109	54	13	44	18	400	6	0.2	25°	1.9
08	1.5	85.6	121.7	62	12.7	63.3	20	400	9	0.2	25°	3.2
10	2	96.8	147	84	16	70	20	400	11	0.3	25°	6.4
12	2	108.8	166	93	18.3	78.4	25	400	11	0.3	25°	9.8
14	2	132.6	186	106	22	91.5	30	400	14	0.3	25°	14.8
16	2.25	145	230	120.5	24.5	100	30	600	14	0.3	25°	21.0

1) Pilot bored without keyway
2) Standard keyway in accordance with DIN 6885/1-P9
3) Ø 38 mm, keyway in accordance with DIN 6885/3-P9
4) Please contact the manufacturer if a different mounting surface made from steel is used.

Low-noise design < 50 dbA



Product overview

BFK457 –

For an overview of the many standard options available, we offer you a choice of combinations. All features are available at short notice and have been extensively tested.

Design

- Version

☐ Operating brake – Low rated torque

☐ Holding brake – Maximum rated torque
- Brake size

☐ 06

☐ 08

☐ 10

☐ 12

☐ 14

☐ 16
- Voltage

☐ 24 V

☐ 42 V (ab BG14)

☐ 205 V

Other voltages customer-specific available
- Rotor

☐ Standard Aluminium

Other rotors customer-specific available
- Designs

☐ Basic

☐ Compact

☐ Double brake

Options

- Hub

☐ For bore diameter, see dimensions
- Hand release

☐ Mounted (customer-specific available)
- Counter friction face

☐ Friction plate

☐ Flange
- Sealing

☐ Seal (customer-specific available)

