

# Dual-circuit spring-applied brake INTORQ BFK454

INTORQ dual-circuit spring-applied brakes for hoists have TÜV approval and meet the requirements of TRA 200 and EN 81 for hoists.

The dual-circuit brake system is achieved by splitting the armature plate in two. The spring force used to generate the braking torque acts

- 80 % directly on the front armature plate and
- 20 % indirectly via the rear armature plate (default setting values).

The front armature plate is supported on the rear armature plate's axial guideways. This design ensures that, in case of failure, at least the spring force acting directly on the front armature plate is retained.



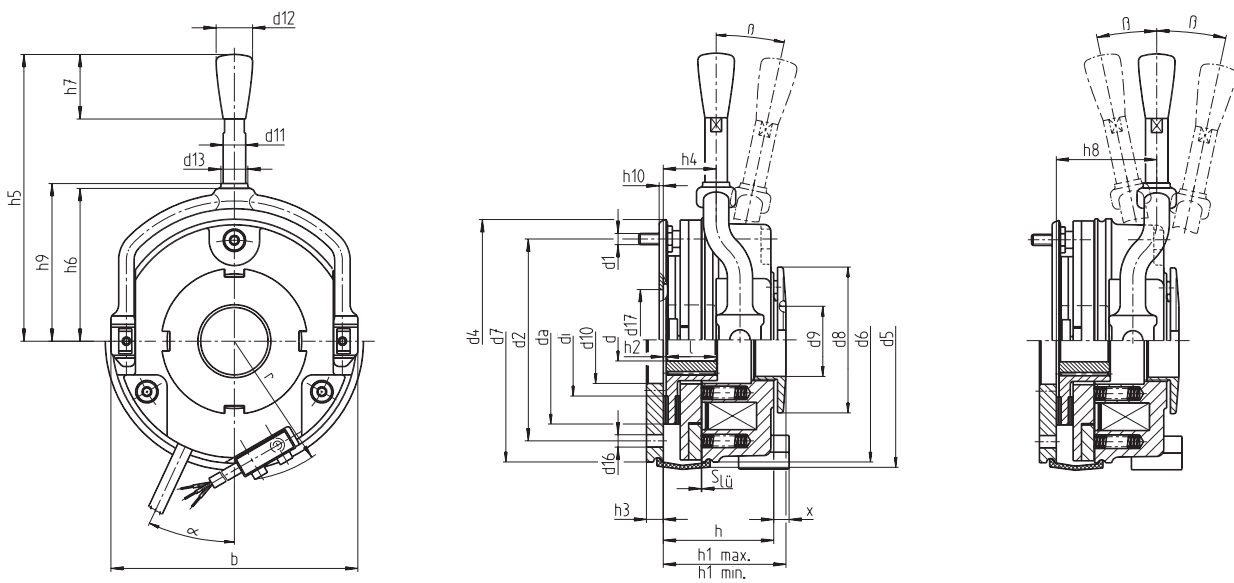
Size	M <sub>k</sub>	P <sub>20</sub>	b	dJ7 <sub>1)</sub>	dH7 Standard	dH7 max.	d1	d2	d4	d5	d6	d7	d8	d9 <sup>H8</sup>	d10	d11	d12	d13	d16
10	15	33	132	10	15/20	20	3xM6	112	132	134	130	130	68	35	45	10	13	12	3x6.6
12	30	40	152	14	20/25	25	3xM6	132	154	155	150	150	82	40	52	10	13	12	3x6.6
14	60	53	169	14	20/25/30	30	3xM8	145	171	169	165	165	92	52	55	12	24	14	3x9
16	90	56	194.5	15	25/30/35/38	38	3xM8	170	195	195	190	190	102	52	70	12	24	14	3x9
18	150	85	222	20	30/35/40/45	45	6xM8	196	-	222	217	217	116	62	77	14	24	15.5	4x9 <sup>2)</sup>
20	200	100	258	25	35/40/45/50	50	6xM10	230	-	259	254	254	135	72	90	14	24	16.5	4x11 <sup>2)</sup>
25	400	110	302	30	40/45/50/55/60/65/70	70	6xM10	278	-	307	302	302	165	85	120	16	24	18.4	6x11

- Standard voltage 205 V (other voltages available on request)
- M<sub>k</sub>: Rated torque of the brake in Nm related to Δn = 100 rpm (other rated torques available on request)
- P<sub>20</sub>: Coil power at 20°C in W
- l1: Cable length
- m: Mass in kg

- Standard keyway according to DIN 6885/1-P9
- Manual release angle tolerance +3°
- Subject to modifications
- Dimensions in mm

### Advantages

- Small unit volume
- Low motor moment of inertia
- Easy reduction of braking torque, depending on the operating conditions
- Simple maintenance and monitoring of dual-circuit function
- No division of the rubbing surface



d17	di	da	h	h1 min.	h1 max.	h2	h3	h4	h5	h6	h7	h8	h9	h10	l	l1	r	S <sub>air</sub>	x	a	b	m	Size
60	66	95	52.5	56.5	60.1	2	9	31.4	134	73.8	23	46.4	77.8	1.5	20	400	-	0.3	-	25°	9°	2.6	10
68	70	115	58.9	63	68.5	2	9	33.4	163.5	85	23	51.4	88.5	1.5	25	400	80.5	0.3	13	25°	10°	4.3	12
85	80	124	68.5	73.5	79.5	2	11	36	195.5	98	32	53	101.5	1.5	30	400	88.5	0.3	11.5	25°	9°	6	14
98	104	149	77.5	82.5	87.5	2.25	11	42.5	240	113	32	58.5	116	1.5	30	600	99	0.3	11	25°	10°	9.2	16
-	129	174	88.1	94	103	2.75	11	46.1	347	124	32	64.1	128.5	-	35	600	112.5	0.4	7	25°	9°	14	18
-	148	206	102.6	109	119	3.5	11	52.6	418	146	32	73.6	149.5	-	40	600	<sup>3)</sup>	0.4	<sup>3)</sup>	25°	10°	21.9	20
-	199	254	111.7	120	130	4.5	12.5	63.7	504	170	32	94.7	175.5	-	50	600	155	0.5	<sup>3)</sup>	25°	10°	32.5	25

■ <sup>1)</sup> Pre drilled, without featherkey way

■ <sup>2)</sup> Each bore offset by 30° in relation to the boresight of the manual release lever

■ <sup>3)</sup> No overshoot