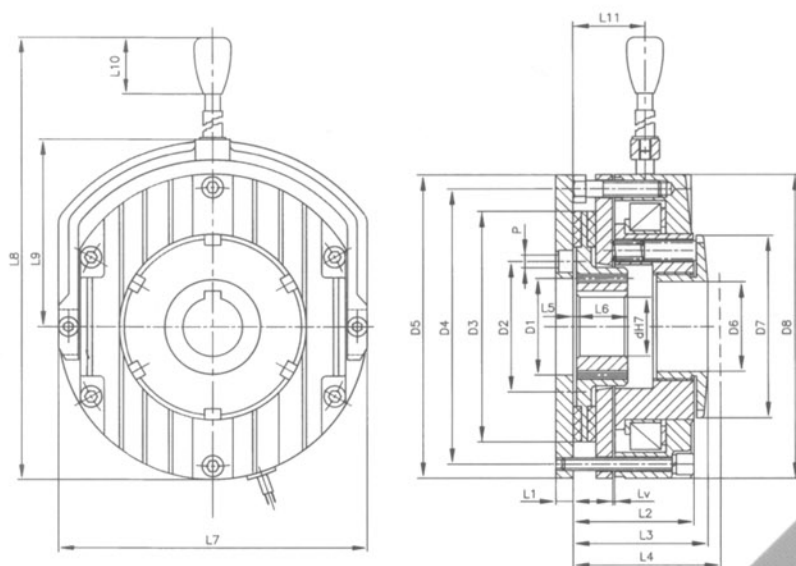


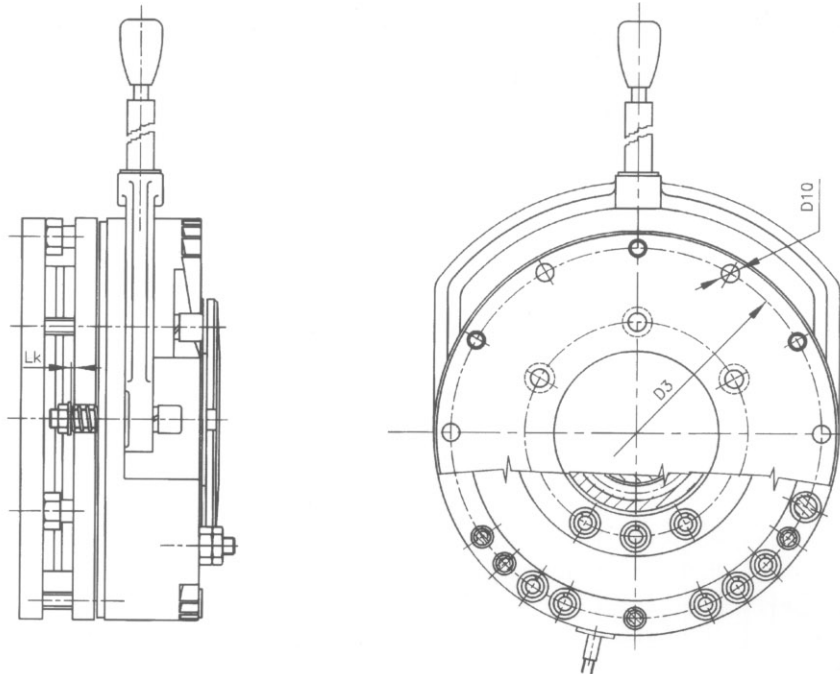


POHONY • DRIVES • ANTRIEBE



## ELECTRICALLY ACTUATED DISC BRAKE ENGAGED BY SPRINGS AND DISENGAGED BY ELECTROMAGNET **EBA**

IS DETERMINED FOR THE ERECTION INTO THE DRIVE UNITS OF CRANES, ELECTRIC PULLEY BLOCKS, FOUNDATION MECHANISMUS, ELECTRIC MOTORS AND EVERYWHERE, WHERE THE BRAKE OUGHT TO BE ENGAGED FOR THE LARGER PART OF THE WORKING CYCLE. THE BRAKE IS INDISPANSABLE IN CASES, WHEN THE BRAKING OF ROTATING MACHINE SYSTEMS ARE BRAKED BY INTERRUPTING ELECTRIC CURRENT, LET IT BE FOR FUNCTIONAL OR SAFETY REASONS.



The brake EBA consists of the driven member and the fixed one. The driven member is formed by the carrier and brake disc with facing. The fixed member is formed by a clamping plate, complete magnet body, armature plate, set of springs and complete clip. There is an air gap between the armature plate and the complete magnet body, which is to be controlled and adjusted. The regulation of the braking torque within the range 50 till 100 % is made possible by means of an adjustable ring, which is located on outer part of the magnet body. The complete clip enables manual adjustment of the equipment into the initial position.

The braking torque is transmitted by friction of the braking disc, which is compressed by the force induced by the springs. They work only in non-lubricated environment. As a friction material the asbestos-free friction lining is used. Reliable function is guaranteed in the range of environs temperature from  $+50^{\circ}\text{C}$  till  $-25^{\circ}\text{C}$ . In working conditions the temperature of the brake may not exceed  $90^{\circ}\text{C}$ .

The brake is controlled by the push-buttons from one or several points, the remote control is possible, respectively the control according to in advance prepared program by means of direct current of voltage 24V - by break release. The brake execution is flanged, ringless with mounting on a cylindrical shaft.

By introduction of the current from the feeding source into the coil, the electromagnet attracts the armature, compresses the springs through the braking disc and thus the braking torque is induced by means of the friction. The brake needs only a slight maintenance, which comprises on principle only the control and adjustment of air gap and replacement of braking disc with lining, which represents the only spare part.

## MAIN TECHNICAL DATA AND PARAMETERS

Parameters			SIZE EBA							
			0.5	1	2	4	6.3	10	16	25
Transmitted torque	Rating Static	Nm	5	10	20	40	63	100	160	250
		Nm	5.5	12	24	48	75	120	190	300
Rated voltage	DC	V	24							
Rated current	Mount. current	A <sub>20</sub>	0.87	0.95	1.77	2.4	3.08	3.33	3.5	3.7
		A <sub>90</sub>	0.72	0.8	1.5	2	2.6	2.8	2.92	3.1
Carrier boring d H7		mm	9 10	12 14	16 18	19 20	22 24	25 28	30 32	32 35
			11 12	16 18	19 20	22 24	25 28	30 32	35 38	38 40
			14	19	22 24	25 28	30 32	35 38 40	40 42 45	45 48 50
D1			20	30	40	45	55	65	75	90
D2			30	45	56	62	74	84	100	120
D3			60	79	98	115	124	150	174	206
D4			72	90	114	132	148	170	196	230
D5			83	100	125	145	160	185	212	250
D6 H8		mm	19	24	35	45	52	52	65	70
D7			48	65	74	85	100	118	125	135
D8			88	103	126	146	166	192	218	252
D9			72	90	112	132	145	170	196	230
D10			3x4.5	3x5.5	3x6.5	3x6.5	3x9	3x9	4x9	6x11
D11			3x4.5	3x5.5	3x6.5	3x6.5	3x9	3x9	4x9	6x11
LK		mm	1	1	1	1.3	1.3	1.5	1.5	1.5
LV*	min.	mm	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4
	max.	mm	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.8
L1			6	7	9	9	11	11	11	11
L2			35	49	48	55	64	73	83	99
L3			38	54	53	59	69	79	89	109
L4			40	60	61	71	81	89	98	121
L5			1.8	2.5	3.5	3	3	3	4	5
L6		mm	18	20	20	25	30	30	35	40
L7			88	103	126	148	166	194	218	250
L8			142	166.5	192	215	243	286	354	411
L9			53	61	78	92	105	122	136	154
L10			11	11	40	40	40	40	40	40
L11			28.5	26	39	43	48	52	56	62
Max. revolution		min <sup>-1</sup>	3000	3000	3000	3000	3000	3000	1500	1500
Moment of inertia of rotat. parts J		kgm <sup>2</sup>	2.8 x10 <sup>-5</sup>	8.6 x10 <sup>-5</sup>	36.1 x10 <sup>-5</sup>	81.7 x10 <sup>-5</sup>	105 x10 <sup>-5</sup>	274 x10 <sup>-5</sup>	512 x10 <sup>-5</sup>	1060 x10 <sup>-5</sup>
Weight		kg	1.9	2.4	3.5	6.4	8.6	12.5	17.8	25.4

\* By enlargement of air gap to value LV<sub>max.</sub> to adjust the brake to LV<sub>min.</sub>

**DATA FOR ORDER:**

- Type and size
- Carrier bore including keyway
- Number of pieces



750 53 PŘEROV • CZECH REPUBLIC  
TEL. 0641/23 36 30, 23 36 33  
FAX 0641/20 31 82, 20 31 60



Quality system certified  
according to DIN ISO 9001