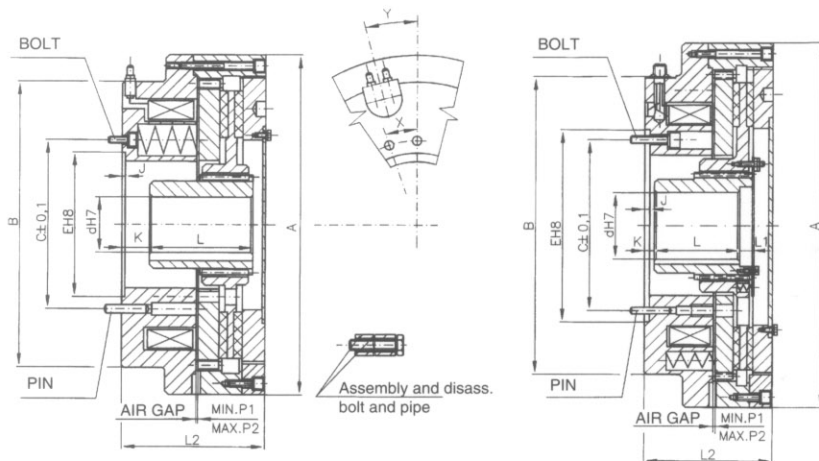




POHONY • DRIVES • ANTRIEBE



EKB 25 - 63

EKB 100 - 1000

ELECTRICALLY ACTUATED DISC BRAKES EKB

ENGAGED BY SPRINGS AND DISENGAGED BY ELECTROMAGNET

THEY ARE APPLIED WHERE REQUESTS FOR BRAKING OF ROTATING MACHINE PARTS OR OF DRIVE ARE ASKED - BY ACCIDENTAL BREAK OF ELECTRIC ENERGY OR IN THAT CASES WHERE THE CLUTCH IS TO BE ENGAGED FOR A LONGER PART OF THE WORKING CYCLE. THEY ARE USED FOR EXAMPLE ON DRIVES OF ROLLING MILLS FOR SECURING OF THE POSITION OF ADJUSTABLE ROLLS, IN DRIVES OF WIND-POWER PLANTS, RESPECTIVELY IN EQUIPMENT WITH ANALOGOUS WORKING CHARACTERISTIC.

MAIN TECHNICAL DATA AND DIMENSIONS (mm)

Size		EKB 25	EKB 63	EKB 100	EKB 160	EKB 250	EKB 400	EKB 630	EKB 1000
Torque	Nm	250	630	1000	1600	2500	4000	6300	10000
Max. torque	Nm		750	1200	1920	3000	4800	7560	12000
Coil by 20°C									
- Voltage	V	24	24	110	110	110	110	110	110
- Current	A	5	7.5	2	2.8	3.45	4.14	5	5.5
- Input	W	120	180	220	308	380	455	550	605
Dimensions:	A	mm	237	305	360	470	530	590	675
	B	mm	193	256	300	410	440	526	610
	C	mm	115	155	180	230	250	280	310
	E	mm	100	130	150	260	280	310	350
	R	mm	12xM8	12xM10	12xM10	12xM12	16xM12	16xM16	16xM20
	S	mm	4x8	4x10	4x10	4x12	4x12	4x16	4x20
Bore range: dH7			35	45	50	65	85	100	105
			40	50	55	70	90	105	110
			45	55	60	75	95	110	115
						80	100	115	120
						85			
Length dimensions:	J	mm	3	4	4	6	6	6	8
	K	mm	18	25	30	23	13	13	18
	L	mm	77	92	110	115	125	135	140
	L ₂	mm	105	128	150	185	185	200	220
	L ₁	mm	-	-	-	15	15	20	30
	P ₁	mm	0.3	0.6	0.6	0.7	0.9	1	1.2
	P ₂	mm	0.5	1	1.1	1.2	1.5	1.7	1.9
Angle in degrees	x		15	15	15	15	18	18	18
	y		15	15	15	9	9	9	15
Moment of inert. _{xx} ¹⁾		kgm ²	0.009	0.035	0.077	0.313	0.515	0.995	1.884
Weight		kg	23	46	75	148	208	290	417
Maxim. revolutions ²⁾		min ⁻¹	1500	1500	1500	1500	1200	1200	1000

¹⁾to agree the higher rotations with producer

By electrically actuated disk clutches the torque is caused by friction between the functional surfaces of the brake, which are compressed by set of compressing springs when the electric energy supply is broken up. The brake is disengaged when it is under voltage. By clutches, which are for longer time of running under voltage, it is recommended to execute the connection so, that simultaneously with releasing of the brake the time switch reduces the higher component of field voltage on to the running voltage. By running voltage the current in coil is reduced on to the half of the values, which are stated in the table.

The electrically actuated disc brakes consist of unrotating member and rotating one.

The unrotating member is formed by magnet body with field coil and a set of functional compressing springs, on which the geared shell including the adjustable cover and its securing are rigidly fixed. There is an axial shiftable metal plate in the guide bush. In the front wall of magnet body the screws and pins are located on the same pitch circle, by means of which the complete brake is fixed on to the immovable working equipment.

The rotating member is formed by a carrier and a brake disk with reveted on the friction facing. The brake disk is axially shiftable in guiding bush of the carrier. The brake is ringless. The cable outlets from the field coil are leaked in the steady terminal board. By size EKB 100 and larger the earthing pin is lead into the terminal board. The brake is secured for working in not lubricated environment. The air gap of the disk brake is changeable. During the operation the wear of friction facing enlarges and it is to be controlled and adjusted to specified value.

²⁾By brakes, used for higher revolutions than the maximum, the braking disc is produced of forged steel.

In the brake disk there are pressed-on the friction rollers with double-sided friction layer - diafrik K4 (sinterbronzé).



PSP POHONY a.s.
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