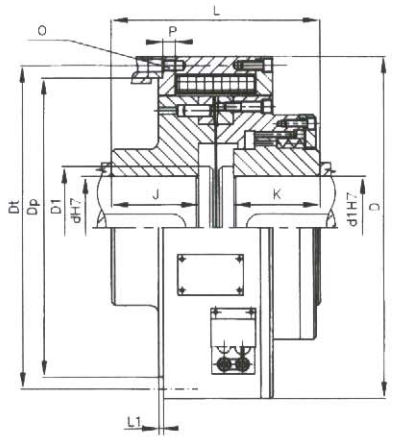
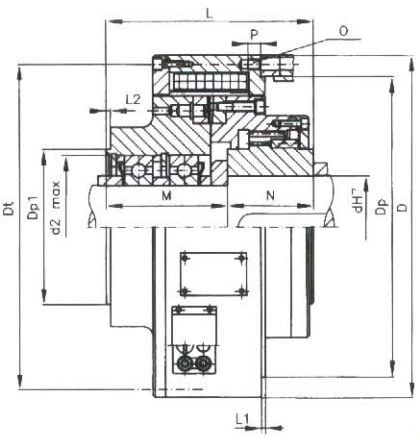
POHONY • DRIVES • ANTRIEBE

EZA



EZB



ELECTRICALLY ACTUATED CLAW SHAFT AND FLANGE CLUTCHES

EZA, EZB

TRANSMIT HIGH TORQUES BY MESHING OF CLAW GEARING OF DRIVING AND DRIVEN MEMBERS, WHICH ARE ATTRACTED TOGETHER WITH A FORCE INDUCED BY AN ELECTROMAGNET. THEY ARE USED MAINLY FOR REMOTE CONTROL OF BURNING TURBINES, IN DRIVING UNITS OF ROLLING MILS AND ON MACHINES WORKING IN EXPLOSIVE ENVIRONMENT, BECAUSE THEY HAVE NO COLLECTING RINGS. THE CLUTCHES ARE OF SMALL DIMENSIONS AND ARE EASY TO MAINTAIN, BECAUSE BY ACCURATE SHAFT ALIGMENT THERE DOES NOT OCCUR ANY FRICTION ON CONTACT SURFACES. IT IS NOT NECESSARY TO ADJUST THEM.

PSP POHONY a.s.

DIMENSIONS - EZA (mm)

Type-No.	Size	D	Dt	Dpk6	L max	L_1	J	K	d_0H13 prebore	d_1d_1H7 max	*x O	P
4456	25	210	197	180	145	3	60	60	30	50	4xM 8	12
4459	100	290	276	240	165	4	70	72	40	75	4xM10	12
4461	160	306	290	265	185	4	77	75	50	90	8xM10	12
4462	250	342	320	300	200	4	85	85	60	100	8xM10	12
4463	400	376	355	325	220	5	95	95	70	110	8xM12	15
4464	630	440	415	390	260	5	114	114	80	125	8xM12	15
4465	1000	496	465	430	280	5	123	123	90	140	8xM12	16

DIMENSIONS - EZB (mm)

Type-No.	Size	D	Dt	D_pk6	D_{p1}k6	L max	L_1	L_2	M	N	d_0H13 prebore	dH7 max	d_2 max	*x O	P
4456	25	210	197	180	92	140	3	3	75.5	64.5	30	50	85	4xM 8	12
4461	160	306	290	265	140	185	4	4	108	77	50	90	130	8xM10	12
4462	250	342	320	300	160	200	4	4	115	85	60	100	150	8xM10	12
4463	400	376	355	325	180	220	5	5	125	95	70	110	170	8xM12	15
4464	630	440	415	390	210	260	5	5	146	114	80	125	200	8xM12	15
4465	1000	496	465	430	250	280	5	5	157	123	90	140	230	8xM12	16

* Number of pieces

MAIN TECHNICAL DATA

Type		4456	4459'	4461	4462	4463	4464	4465
Size		25	100	160	250	400	630	1000
Rated torque	Nm	250	1000	1600	2500	4000	6300	10000
Coil by 20°C								
Voltage	V	24	110	110	110	110	110	110
Current	A	3.49	1.5	1.8	1.8	1.8	1.8	1.8
Output	W	83.8	165	198	198	198	198	198
Max. axial clearance	mm	1	1	1	1.5	1.5	2	2.5
Requir. shaft aling.	mm	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Max. rotations	min^{-1}	1500	1500	1500	1500	1500	1500	1500
Mass	kg	24	43	57	77	103	158	239

There is a field coil seated up in the magnet body. After the introduction of direct current to the field coil the draw-out member (charge) is attracted to the fixed member and they both interconnect by means of toothed rings. If the field current is broken, the draw-out member is postponed from the mesh by forcing-off springs. The clutch can be engaged only in the rest state or by synchronous rotations of driving and driven members. The clutch can be disengaged both in rest and motion, in this case ofcourse only by torque whose value does not exceed the half of transmitted torque in given moment.The driving and driven members are not determined in advance. As a part, which stoppes after the desengagement, the charge with draw-off part is recommended for reason that after the clutch is disengaged only the charge will turn, which be exposed also to higher revolutions.

DATA FOR ORDER:

- Number of pieces
- Cluth type and size
- Cluth bore and keyways