

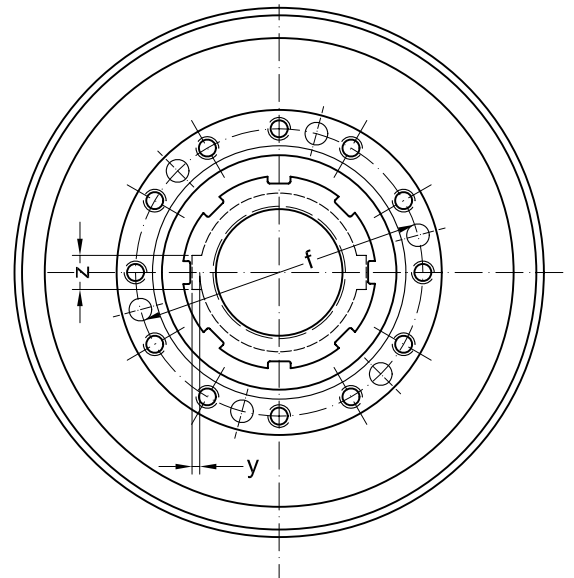
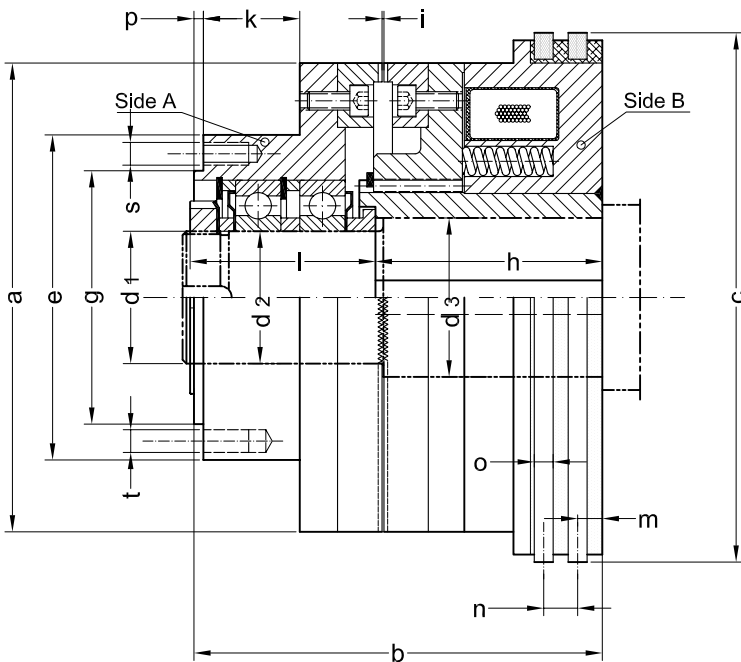
Electromagnetic Slip Ring Spring-Pressure Tooth Clutch

Clutch with bearing mounted driver.

For dry operation, coil voltage 220 / 110 V DC (release - / holding voltage).

- ◆ Positive torque transmission by two face gears with point shaped and backlash-free tooth profile.
- ◆ Torque transmission independent of power supply.
- ◆ For connecting two shafts via self-aligning coupling.
- ◆ Enclosed construction, with self-contained spring loads.
- ◆ Sulted for horizontal mounting.

The connection of torque is effected by the hardened face teeth and the splined clutch guidance. When the clutch is electrically switched off, the face gear of the armature body, actuated by the force of the pressure springs, is in mesh with the driver part (B). With the coil switched on, the armature plate is kept in mechanically released position by the magnetic force. Engagement at stand still only, disengagement possible under torque load and speed.



Data and Dimensions		MZOLD 63	MZOLD 100	MZOLD 160	MZOLD 250	MZOLD 400	MZOLD 630	MZOLD 1000	MZOLD 1600	MZOLD 2500
Static torque - continuous torque load	Nm	800	1250	2000	3150	5000	8000	12500	20000	32000
Dynamic torque - fluctuating torque load	Nm	630	1000	1600	2500	4000	6300	10000	16000	25000
Speed maximum	min ⁻¹	2200	2000	1700	1600	1500	1250	1100	950	850
Coil power consumption at 20°C- 110 V DC	W	100	125	150	200	230	300	350	360	460
Time recommended to apply voltage for release 1)	s	3	3	5	5	5	8	8	8	8
Mass moment of inertia side A	10 ⁻³ kgm ²	0,07	0,10	0,15	0,25	0,50	1,20	1,70	4,10	7,80
Mass moment of inertia side B	10 ⁻³ kgm ²	0,15	0,30	0,50	0,70	1,40	2,50	5,10	9,60	17,0
Number of teeth of the face gear	-	286	224	256	286	238	272	322	266	304
Mass (weight)	kg	40	50	68	85	120	190	280	400	570
Ø a	mm	210	230	260	290	330	380	440	500	560
b	mm	190	215	225	245	275	300	340	410	445
Ø c	mm	230	255	295	315	340	395	455	535	595
Ø d1 2)	mm	M60 x 1,5	M65 x 1,5	M75 x 1,5	M85 x 2	M95 x 2	M110 x 2	M130 x 3	M160 x 3	M190 x 3
Ø d2 j6	mm	60	65	75	85	95	110	130	160	190
Ø d3 H7 / j6	mm	70	80	90	100	110	130	150	180	210
Ø e	mm	151	166	181	201	231	266	306	376	431
Ø f	mm	132	145	156	176	200	230	270	330	380
Ø g h6	mm	120	130	140	160	180	210	245	300	350
h	mm	105	120	125	130	145	155	170	190	230
i	mm	0,35	0,40	0,45	0,50	0,60	0,70	0,80	0,90	1,00
k	mm	40	45	50	60	60	65	90	120	145
l	mm	85	95	105	120	135	150	175	220	255
m	mm	14	14	14	17	17	17	23	25	25
n	mm	16	20	20	20	20	20	24	24	24
o	mm	8	10	10	10	10	10	12	12	12
p	mm	3	3	4	4	5	5	5	5	5
s	mm	12 x M8	8 x M10	8 x M12	12 x M12	8 x M16	12 x M16	8 x M20	12 x M20	8 x M24
t dowel number x Ø m 6	mm	6 x 8	4 x 10	4 x 12	6 x 12	4 x 16	6 x 16	4 x 20	6 x 20	4 x 25
Number of keyways	-	1	1	1	2	2	2	2	2	2
z x y + 0,25	mm	20 x 4,9	22 x 5,4	25 x 5,4	28 x 6,4	28 x 6,4	32 x 7,4	36 x 8,4	45 x 10,4	50 x 11,4

1) Use timer for setting the duration of the release voltage applied. 2) for grooved nuts to DIN 1804