

Electromagnetic Slip Ring Tooth Clutch

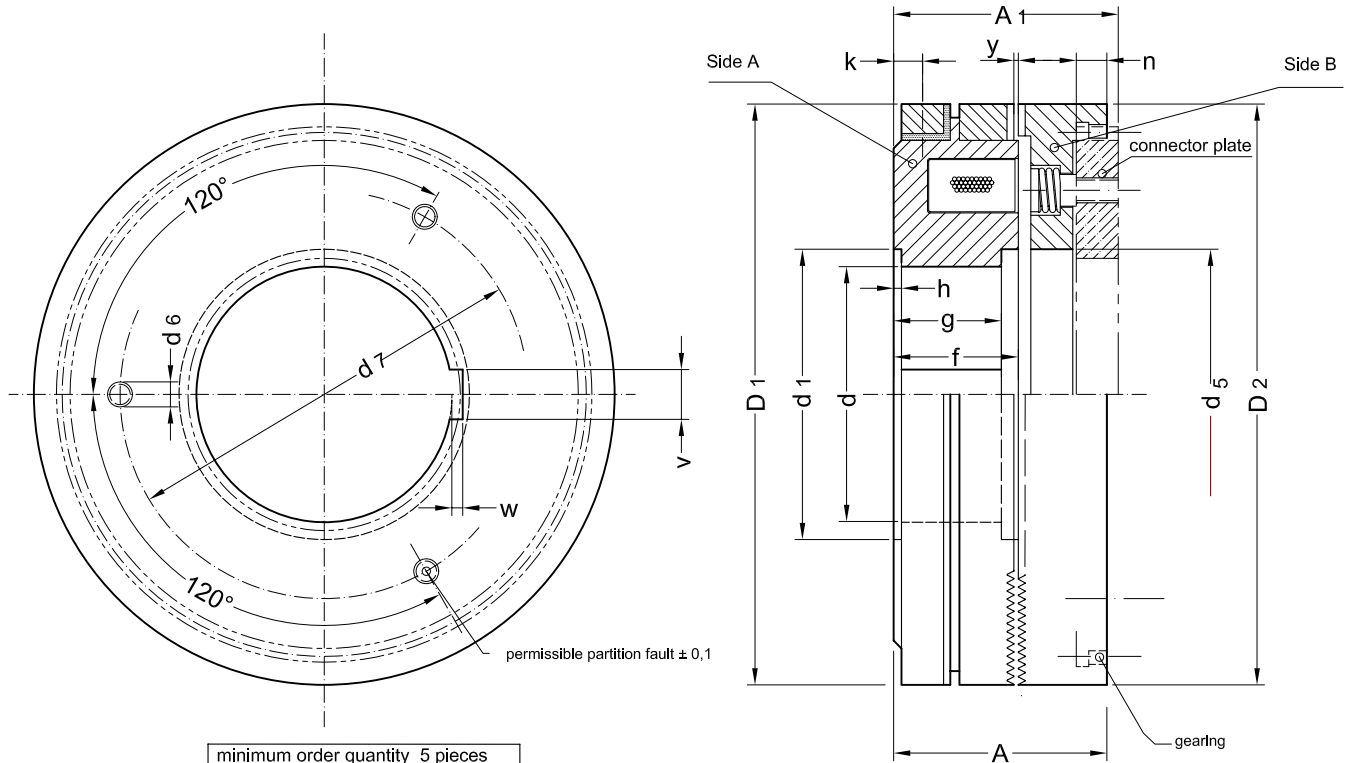
Basic construction without additional hub.

For oil and dry operation, coil voltage 24 V DC

- ◆ With point shaped backlash-free tooth profile.
- ◆ With armature plate guided on toothed connector plate.
- ◆ Suited for disengagement under torque load.
- ◆ Extra accessory: Connector plate as shown per drawing.
- ◆ Vertical mounting only when ordered with application guidelines.

Heid tooth clutches type MZZ-S are comparable regarding technical data and dimensions with tooth clutches of ZF Friedrichshafen AG listed in the table.

Most of the clutches MZZ-S documented in the data sheet can be amended according to order specification and so brought into line with the version to be replaced.



minimum order quantity 5 pieces

Data and Dimensions		MZZ	MZZ	MZZ	MZZ	MZZ	MZZ	MZZ	MZZ	MZZ	MZZ	MZZ	MZZ		
		2S	4S	10S	20S	35S	60S	60S	120S	120S	220S	300S	400S	600S	
		comparable to ZF Type: EK 0,25ZS EK 0,5 ZS EK 1 ZS EK 2 dZS EK 5 dZS EK 10dZS EK 10eZS EK 20dZS EK 20eZS EK 40dZS EK 60dZS EK 80 ZS EK 120eZS													
Static torque	Nm	20	40	100	200	350	600	600	1200	1200	2200	3000	4000	6000	
Speed at 10 m per sec. 1)	min ⁻¹	3150	2700	2300	2200	1650	1400	1350	1150	1150	950	900	750	700	
Engagement time	ms	15	20	22	25	30	40	40	65	65	75	80	80	90	
Disengagement time	ms	55	80	80	90	110	165	165	275	275	440	550	770	1100	
Coil power consumption at 20 °C	W	10	12	20	25	45	55	55	70	65	75	90	100	140	
Mass moment of inertia side A	10 ⁻³ kgm ²	0,16	0,31	0,80	1,38	3,45	6,75	8,54	19,25	16,75	41,0	55,0	98,5	154,8	
Mass moment of inertia side B	10 ⁻³ kgm ²	0,06	0,10	0,23	0,55	1,35	3,38	4,08	9,50	9,05	23,5	35,2	60,5	78,5	
Mass (weight) ~	kg	0,32	0,48	0,86	1,18	1,93	3,1	3,3	5,95	5,2	9,45	11,5	17,3	20	
A	mm	25	27,5	37	38	43	50	51	60	57	68	73	81	84	
A 1	mm	30,5	32,5	40	41	46	53	54	63,5	60,5	71	75	83,5	86,5	
Ø D 1 / D 2	mm	60	70	82	95	114	134	140	166	166	195	210	240	258	
Ø d H7	mm	12	15	20	28	35	40	50	45	50	65	70	75	85	
Ø d 1 H8	mm	24	27	36	42	52	60	70	80	90	90	100	110,5	123,0	
Ø d 5 + 0,2	mm	23	26	35	45	53	63	70	80	89	89	100	112	133	
d 6	mm	M3	M3	M4	M4	M4	M5	M5	M6	M6	M6	M6	M6	M6	
Ø d 7 ± 0,1	mm	40	45	55	65	80	100	100	120	120	150	150	150	170	
f	mm	15,5	17	23	23	26	29	30	35	32	38,5	38	42	46	
g	mm	15,5	17	23	20	23	26	26	30	27	33,5	35	37	42	
h + 0,05	mm	1,5	1,5	1,5	1,5	2	2	2	2,5	2,5	3	3	3	3	
k	mm	3,5	3,5	5,5	5,5	6	7	7	7	7	7	8,5	8,5	8,5	
n	mm	3,5	4	6	6	7	8	8	9,5	9,5	12	14	14,5	16,5	
v x w	mm	4 x 1,1	5 x 1,3	6 x 1,7	8 x 1,7	10 x 2,1	12 x 2,1	14 x 2,6	14 x 2,6	14 x 2,6	18 x 3,1	20 x 4,1	20 x 4,1	22 x 4,1	
y	mm	0,3 +0,2	0,3 +0,2	0,3 +0,2	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	0,4 +0,3	
Gearing DIN 5480 pressure angle α = 30°	Numb. of teeth	-	26	31	36	42	51	38	38	48	48	34	36	42	
	modul	mm	2	2	2	2	2	3	3	3	3	5	5	5	

1) Higher speeds when fitting a second brush.