

## Electromagnetic Multi Disc Clutch

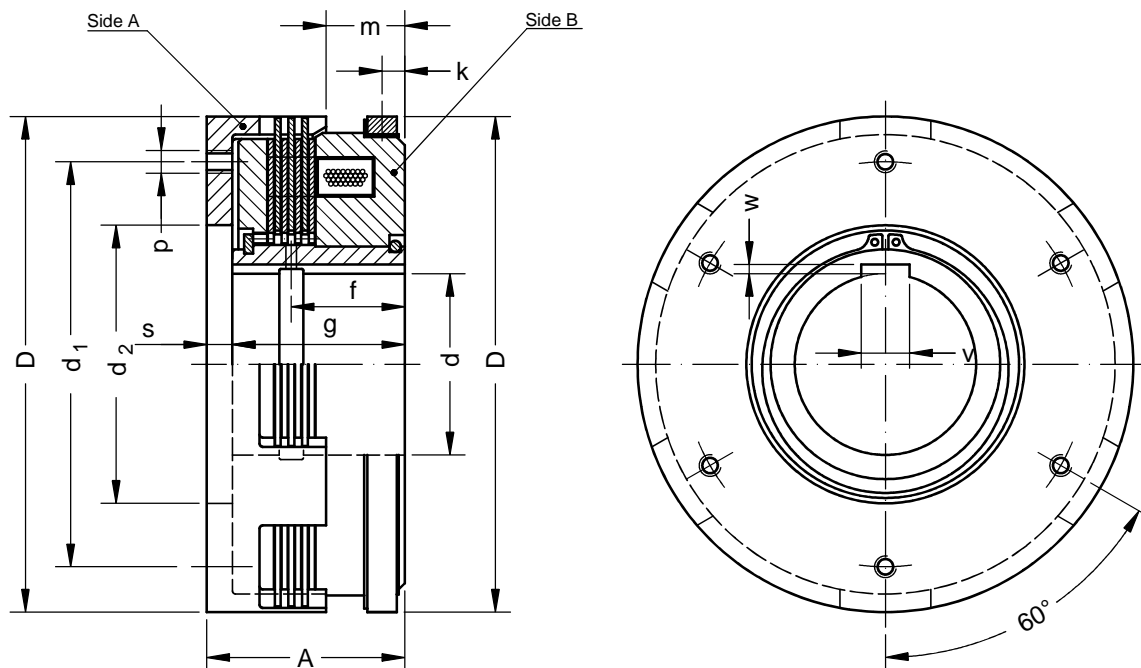
Slip ring clutch with outer driver

For oil operation, coil voltage 24 V DC

- ◆ Suited for high friction work and high thermal capacity.
- ◆ High torque transmission in comparison with the unit volume.
- ◆ With wear resisting heat treated steel discs.
- ◆ Outer driver with hardened driver claws.
- ◆ For horizontal mounting.

The clutch is suited for speed engagement of main and auxiliary drives and is intended for the installation into oil lubricated gears.

With a double magnetic flux path circulating through the steel discs, the clutch thereby automatically compensates for the disc wear and does not need to be adjusted. Because of the discs permitting a high energy absorption, heavy load operations can be carried out.



Data and Dimensions		LC	LC	LC	LC	LC	LC	LC
		1,5	3	6	12	30	50	80
comparable to ZF Type:		EK 1C	EK 2dC	EK 5dC	EK 10dC	EK 20dC	EK 40dC	EK 60dC
Static torque	Nm	20	50	100	200	400	800	1100
Dynamic torque	Nm	10	20	55	100	200	400	600
Speed	(10 m/s velocity on slip ring) min <sup>-1</sup>	2300	2200	1750	1400	1150	950	900
Friction work per engagement	kJ	6,5	9	15	25	50	65	100
Thermal capacity	W	55	80	140	240	470	650	900
Coil power consumption	(at 20° C) W	20	20	30	40	55	65	90
Engagement time	(until to dynamic torque) ms	170	220	280	360	450	600	750
Disengagement time	(until to 10 % dynamic torque) ms	50	70	100	110	200	250	300
Mass moment of inertia	(Side A) 10 <sup>-4</sup> kgm <sup>2</sup>	2,3	4,3	15,5	32,3	82	200	288
Mass moment of inertia	(Side B) 10 <sup>-4</sup> kgm <sup>2</sup>	6	12	32	74	210	470	685
Masse (weight)	kg	1,0	1,45	2,60	4,50	8,0	13,5	18,0
A	mm	38	46	55	61,5	71	85	90
ø D	mm	82	95	114	134	166	195	210
ø d H7	(maximum bore diameter) mm	18	28	36	42	52	62	68
ø d <sub>1</sub> *	mm	65	80	90	105	135	155	170
ø d <sub>2</sub> H7	mm	34	45	51	61	75	90	96
f	mm	23	31	34	37	42	48	50
g	mm	33	41	49	56	64	76	80
k	mm	6	6	6	7	7	7	8,5
m	mm	16	23,5	26	29	33	36	35
p *	(6 tapped holes) mm	M5	M6	M6	M8	M8	M10	M12
s	mm	5	5	6	6	8	10	12
v	mm	6	8	10	12	16	18	20
w	mm	1,7	1,7	2,1	2,1	2,6	3,1	4,1

\* or as needed