

Electromagnetic Single-Face Clutch

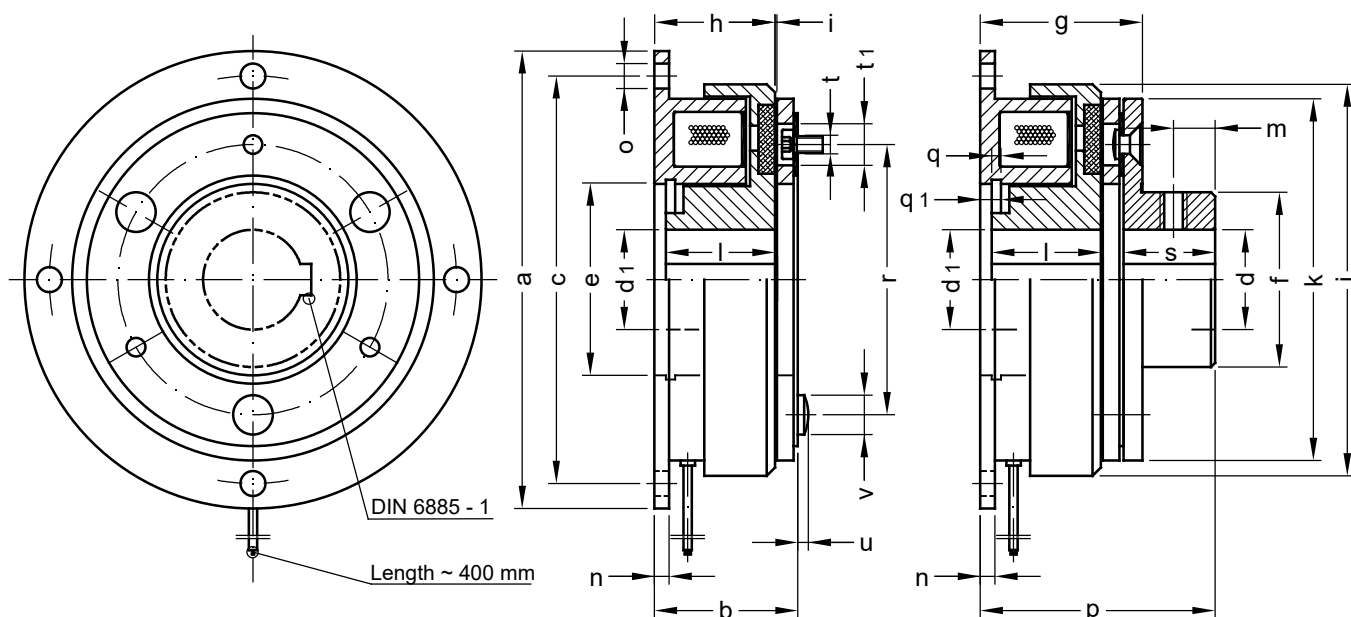
Flange mounted clutch with diaphragm plate to be connected to a shaft mounted driver.

For dry operation, coil voltage 24 V DC

- ◆ Friction locked torque connection without backlash.
- ◆ With diaphragm made of hardened spring steel.
- ◆ Self-acting adjustment by magnetic flux permeated friction faces.
- ◆ No idling torque because of complete disconnection when disengaged.
- ◆ Applicable for horizontal and vertical mounting.

When current is applied the armature plate is pulled against the magnet body resulting in a friction locked torque connection. When the current is switched off, the armature plate will be completely separated from the magnet body by the elastic force of the diaphragm.

Executions: MC without driver and diaphragm fastening screws.
MC with driver as shown in the dimension drawing.



Data and Dimensions		MC 0,6	MC 1	MC 3	MC 5	MC 10	MC 20	MC 40
Dynamic torque ¹⁾	Nm	6	12	25	50	100	200	400
Speed maximum	min ⁻¹	7000	6000	5000	4000	3000	2500	2000
Coil power consumption at 20° C	W	15	21	29	36	50	69	86
Mass (weight) inclusive driver	kg	0,5	1	1,8	3,1	6,3	11	20,3
Ø a h9	mm	80	100	125	150	190	230	290
b	mm	28	31	35,9	40,5	46,5	55,4	63,9
Ø c	mm	72	90	112	137	175	215	270
Ø d max. H7 / d 1 max. H7	mm	17 / 17	20 / 20	30 / 30	35 / 40	40 / 50	60 / 65	80 / 80
Ø e H8	mm	35	42	52	62	80	100	125
Ø f	mm	28	33	43	50	66	84	106
g	mm	31,5	35	40,9	46,5	53,5	64,4	74,9
h	mm	24	26,5	30	33	37,5	44	51
i airgap	mm	0,2	0,2	0,2	0,3	0,3	0,5	0,5
Ø j / Ø k	mm	68 / 63	85,5 / 80	107 / 100	134,5 / 125	170 / 160	214,5 / 200	266,5 / 250
l	mm	22	24	27	30	34	40	47
m	mm	5	6	6	10	10	15	20
n	mm	3,5	4,3	5	5,5	6	7	8
Ø o	mm	4 x 4,5	4 x 5,5	4 x 6,6	4 x 6,6	3 x 9	4 x 9	4 x 11
p	mm	43	51	60,9	70,5	84,5	103,4	118,9
q / q ₁	mm	2 / 3,5	2,5 / 4,25	3 / 5	3,5 / 5,5	4 / 6	5 / 7	6 / 8
Ø r	mm	46	60	76	95	120	158	210
s	mm	15	20	25	30	38	48	55
Ø t / Ø t ₁	mm	3 x 3,1 / 6,3	3 x 4,1 / 8	3 x 5,1 / 10,5	3 x 6,1 / 12	3 x 8,2 / 15	3 x 10,2 / 18	4 x 12,2 / 22
Ø v / u	mm	3 x 5,5 / 1,6	3 x 7 / 1,8	3 x 9 / 2,4	3 x 10 / 2,8	3 x 13 / 3,2	3 x 16 / 4	4 x 20 / 4,3

1) Static torque ~ dynamic torque