

SINGLE-PLATE ELECTROMAGNETIC CLUTCHES AND BRAKES

Characteristics

These units are recommended for those applications requiring quick response time and accuracy ,easy in design and simple installation procedures, as they are dry running.
Compared to multiplate units, they guarantee shorter engagement times and higher speed, as the two friction surfaces separate completely.
However, they require greater accuracy during the assembling to safeguard a prefect alignment of the components.
They are operated by a creating a magnetic field induced by a coil placed inside the body. The latter attracts a sliding disc and makes it press a lining which is located in front of the winding and which does not damage the flux
The sliding disc is made of steel and shows millings which allow thermal expansion and cooling is facilitated by front finnings.
The stationary disc is made of lining. check that no oil drops or greased substances are on the surfaces of friction.

Assembling

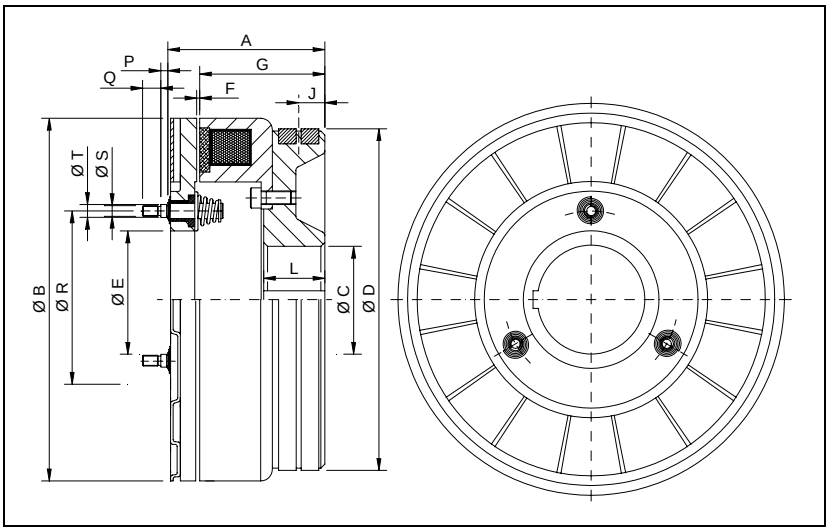
These units can be assembled both horizontally and vertically.
Make sure that the magnetic flux has no leakages to surrounding metal masses, interfering with other electromagnetic units.

Adjustment

This unit is self-adjusting

Feeding

For our standard production voltage is 24 VDC. Brakes and clutches without slip ring are fed by means of small cables or, upon request, a connector.
For such clutches an anti-revolving lock is very important; in fact, the coil is static but it may be moved by friction of ball bearing.
For clutches with slip ring, feeding occurs through the sliding contact of ring and brush (see chapter "Brushholders").
As with brakes, one pole is generally earthed.
Although more expensive, clutches without slip ring offer easier installation, no flashing or contact loss, higher revolving speed and small dimensions.



SINGLE PLATE ELECTROMAGNETIC CLUTCHES WITH SLIP RING
Model EMC

PERFORMANCES (24VDC)

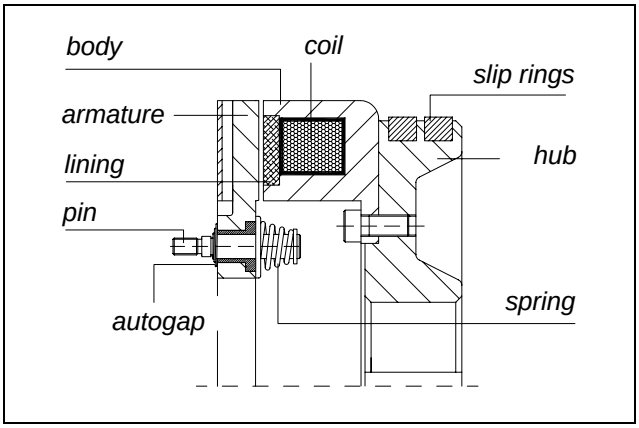
size	*torque* (Nm)		time(ms)		power (W)		*weight*
	M_d	M_s	*engagement*	*disengagement*	20°	120°	Kg
EMC 145	40	70	170	55	38	27	3,5
EMC 170	60	100	200	65	38	27	4,3
EMC 210	100	160	260	70	45	33	8
EMC 255	200	320	300	80	50	36	10,2
EMC 310	400	640	380	85	60	42	18,5
EMC 390	600	950	460	95	60	42	28

for engagement in motion refer to dynamic torque M_d
for stationary or for engaged clutches refer to static torque M_s.

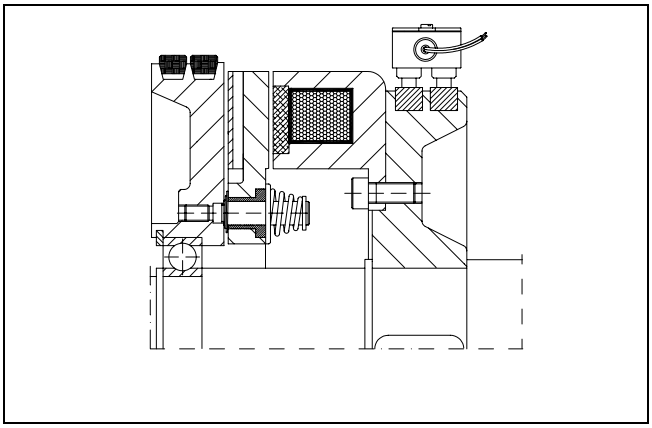
DIMENSIONS (mm)

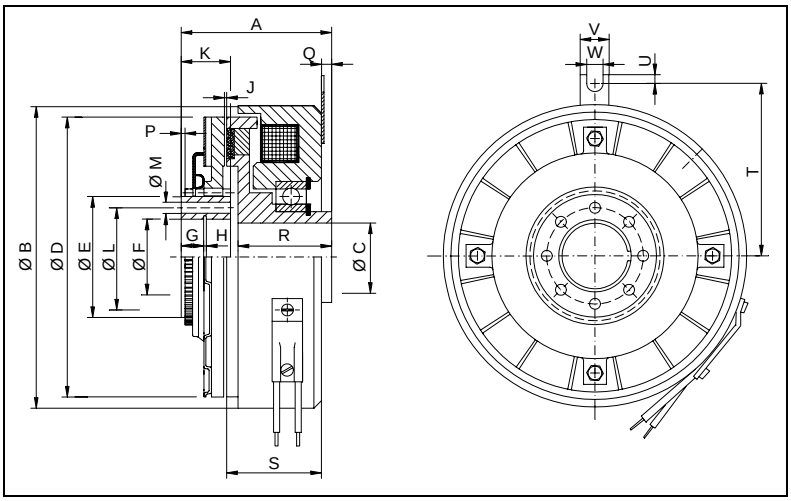
size	A	B	C max	D	E	F max	G	J	L	P	Q	R	S	T
EMC 145	76	148	30	130	47	0,6	63	18	44	6	10	67	3xM8	3x8
EMC 170	78	168	30	130	58	0,6	63	18	44	6	10	77	3xM8	3x8
EMC 210	86,5	210	40	198	64	0,8	70	20	45	9	15,5	90,5	3xM12	3x12,7
EMC 255	93	255	60	198	105	1	76,5	20	45	9	15,5	133,54	3xM12	3x12,7
EMC 310	113,5	312	75	198	118	1	95	23,5	75	9	15,5	149,22	4xM12	4x12,7
EMC 390	120,5	390	75	198	181	1,2	102	22,5	75	9	15,5	215,90	4xM12	4x12,7

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC CLUTCHES WITHOUT SLIP RING Model EMS

PERFORMANCES (24VDC)

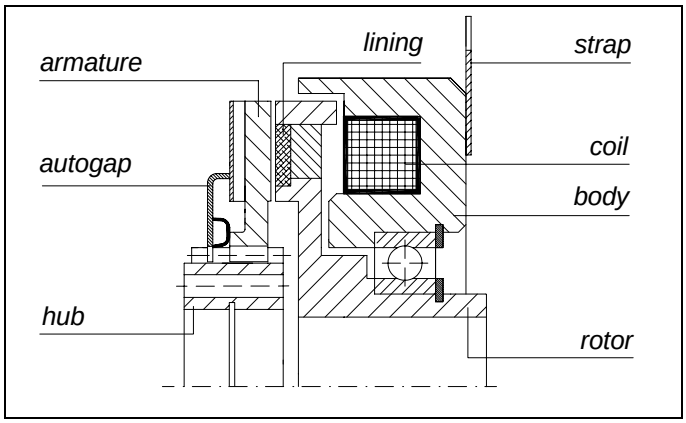
size	*torque* (Nm) M_d	M_s	rpm. max	time (ms) *engagement*	*disengagement*	power (W) 20°	120°	*weight* (Kg)
EMS 107	18	30	5000	120	45	12	9	1,9
EMS 130	50	80	4200	155	55	38	27	4,3
EMS 145	60	10	4000	165	65	38	27	5,3
EMS 170	70	120	4000	195	70	38	27	6
EMS 210	100	150	3800	260	75	45	33	10,6
EMS 255	200	300	3000	310	85	50	36	15,5
EMS 310	400	600	2200	380	95	60	42	28
EMS 390	600	900	1700	460	105	60	42	49

for engagements in motion refer to dymnamic torque M_d
for engaged clutch refer to static torque M_s

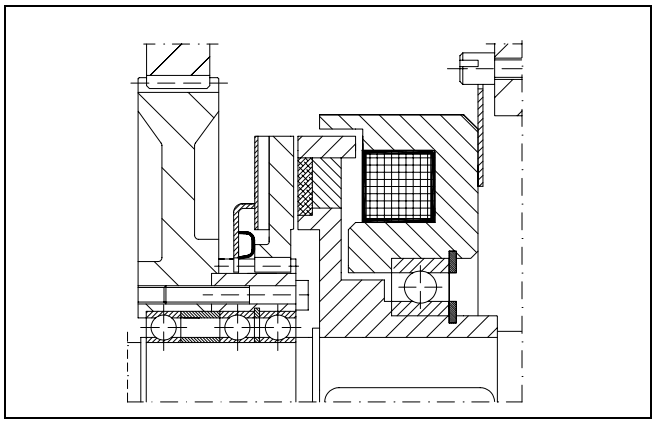
DIMENSIONS (mm)

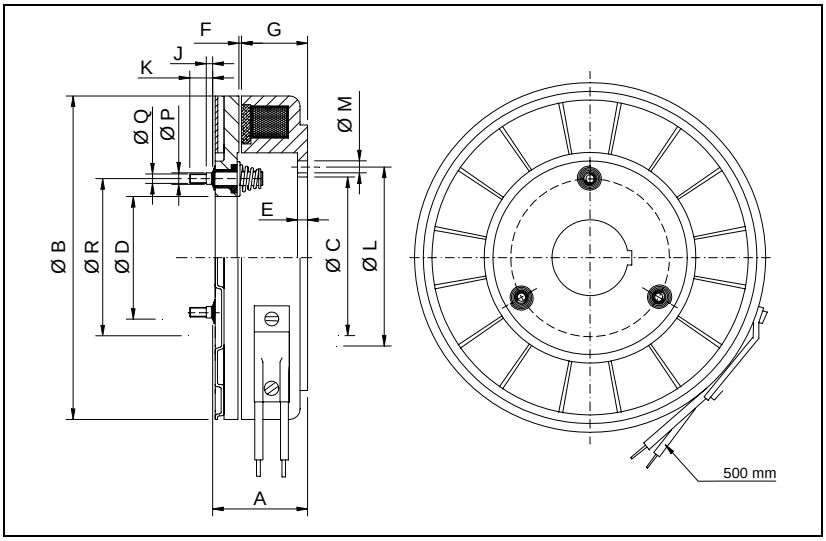
size	A	B	C H7	D	E H8	F K6	G	H	J	K	L	M	P	Q	R	S	T	U	V	W
EMS 107	56	107,5	25	100	46	30	10,6	1,3	0,4	22	40	6xM4	2	-1,5	28	34	59	5	13	4
EMS 130	75	135	32	129	58,5	42	14	1,85	0,4	28	51,5	6XM5	2	5	45	50	73	7	19	5,5
EMS 145	78	158	32	148	58,5	42	14	1,85	0,5	28	51,5	6XM5	2	5	45	50	80	10	25	10
EMS 170	78	180	38	168	58,5	42	14	1,85	0,5	28	51,5	6XM5	2	5	45	50	92	10	25	10
EMS 210	90	222	38	210	72	47	16	1,85	0,6	33	60	8X8,5	2	8	49	54	125	10	25	10
EMS 255	95	265	52	255	98	62	16	2,15	0,8	32	83	8X10,5	3	8,5	52	58	147	10	25	10
EMS 310	125	325	60	312	110	72	22	2,65	1	54	92	8X10,5	3	12	61	68	190	10	25	10
EMS 390	150	404	75	390	127	85	24	3,15	1,2	62	110	10X10,5	4	26	78	86	230	10	25	10

PARTS NAME



MOUNTING SAMPLE





SINGLE PLATE ELECTROMAGNETIC BRAKES
Model FEM

PERFORMANCES (24VDC)

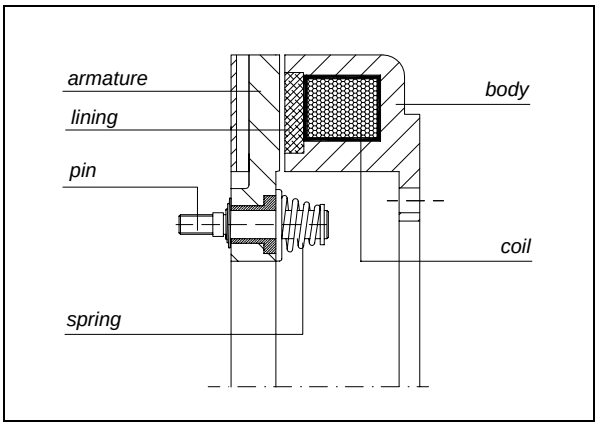
size	*torque* (Nm) M_d	M_s	r.p.m. max	time (ms) *engagement*	*disengagement*	power (W) 20°	120°	*weight* (Kg)
FEM 145	40	70	5000	170	55	38	27	2,1
FEM 170	60	100	4800	200	65	41	28	2,9
FEM 210	100	160	4400	260	70	45	33	5,5
FEM 255	200	320	3800	300	80	50	36	7,4
FEM 310	400	640	2800	380	85	60	42	14
FEM 390	600	950	1800	460	95	60	42	22

for engagement in motion refer to dynamic torque M_d
for stationary or for engaged clutches refer to static torque M_s.

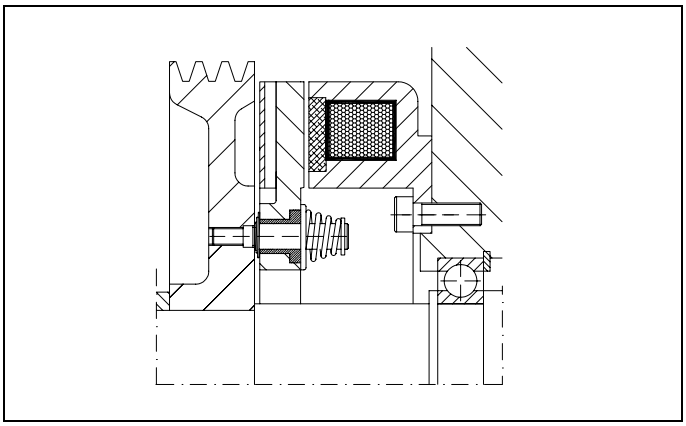
DIMENSIONS (mm)

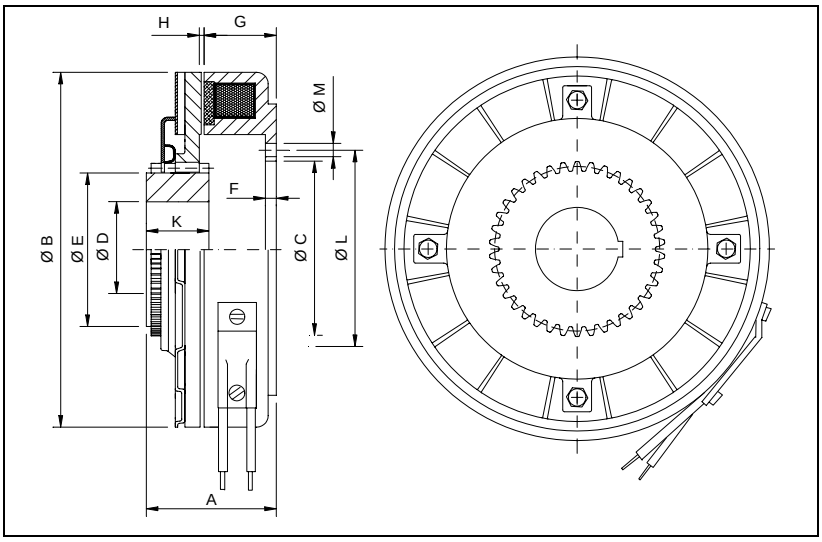
size	A	B	C H8	D	E	F max	G	J	K	L	M n°xØ	P n°xØ	Q K6 n°xØ	R J7
FEM 145	39,5	148	62	47	4	0,6	27,5	6	16	75	6x6,5	3xM8	3x8	67
FEM 170	41,5	168	75	58	4	0,6	27,5	6	16	89	6x6,5	3xM8	3x8	77
FEM 210	48,5	210	89	64	4	0,8	33	9	24,5	108	6x8,5	3xM12	3x12,7	90,5
FEM 255	52	255	136,6	105	4	1	36,5	9	24,5	155,5	6x8,5	3xM12	3x12,7	133,54
FEM 310	58,5	312	162	118	5	1	41	9	24,5	184	6x8,5	4xM12	4x12,7	149,22
FEM 390	62	390	228,6	181	6	1,2	44,5	9	24,5	247,5	12x8,5	4xM12	4x12,7	215,9

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC BRAKES Model FED

PERFORMANCES (24VDC)

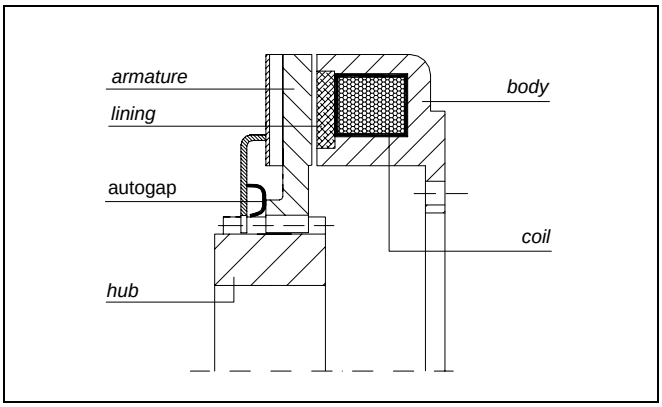
size	*torque* (Nm) M_d	M_s	r.p.m. max	time(ms) *engagement*	*disengagement*	power (W) 20°	120°	*weight* (Kg)
FED 100	18	30	5000	110	40	18	13	1,5
FED 130	35	55	5000	150	50	38	27	2,3
FED 145	40	70	5000	170	55	38	27	2,8
FED 170	60	100	4800	200	65	41	28	3,6
FED 210	100	160	4400	260	70	45	33	6,8
FED 255	200	320	3800	300	80	50	36	10
FED 310	400	640	2800	380	85	60	42	19
FED 390	600	950	1800	460	95	60	42	28

for engagements in motion refer to dymnamic torque M_d
for engaged clutch refer to static torque M_s

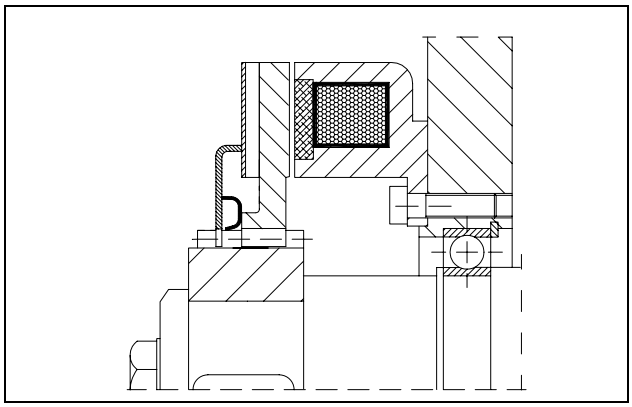
DIMENSIONS (mm)

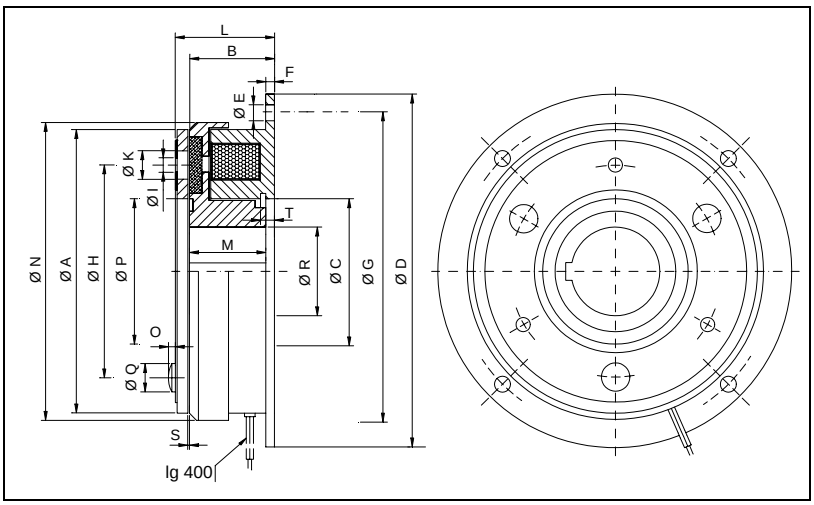
size	A	B	C H8	D max	E	F	G	H max	K	L	M n°x Ø
FED 100	44	103	45	35	52	3	25	0,4	22,5	55	3x5,5
FED 130	59	129	52,4	40	64	4	27,5	0,4	35	60,3	8x4,5
FED 145	54,5	148	62	40	64	4	27,5	0,5	35	75	6x6,5
FED 170	58,5	168	75	40	64	4	27,5	0,5	35	89	6x6,5
FED 210	66	210	89	55	84	4	33	0,6	38	108	6x8,5
FED 255	72,5	255	136,6	75	108	4	36,5	0,8	44,5	155,5	6x8,5
FED 310	97	312	162	85	119	5	41	1,0	62	184	6x8,5
FED 390	112,5	390	228,6	100	143,5	6	44,5	1,2	76	247,5	12x8,5

PARTS NAME



MOUNTING SAMPLE





SINGLE PLATE
ELECTROMAGNETIC CLUTCHES
Model DSM

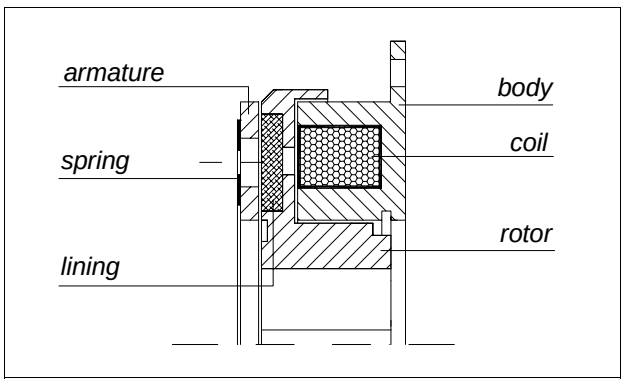
PERFORMANCES (24VDC)

size	*torque* (Nm)	*power* (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
DSM 039	0,6	6	10.000	15	3	0,06
DSM 045	0,9	6	10.000	20	4	0,10
DSM 054	1,8	8	10.000	25	5	0,17
DSM 065	3,6	10	10.000	35	6	0,26
DSM 080	7,5	15	8.000	35	10	0,49
DSM 100	15	20	6.000	40	20	0,88
DSM 125	30	28	5.000	60	30	1,68
DSM 150	60	35	4.000	80	45	2,95
DSM 190	120	50	3.000	100	60	5,49
DSM 230	240	68	3.000	115	70	10,2
DSM 290	480	85	2.000	130	80	18,7

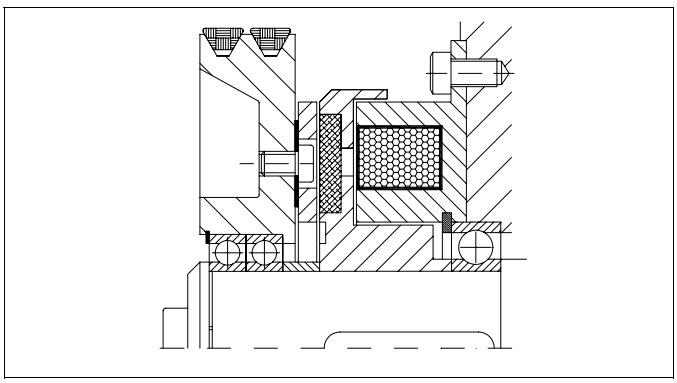
DIMENSIONS (mm)

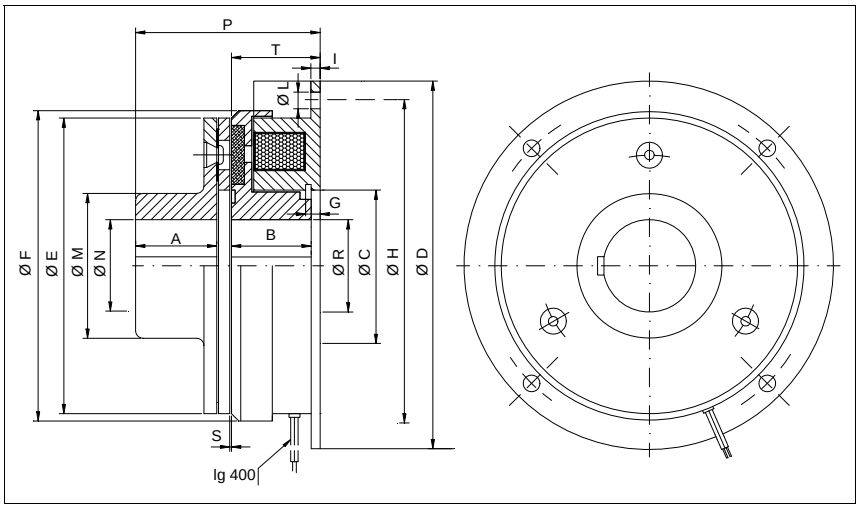
size	A	B	C H8	D h9	E	F	G	H	K	I	L	M	N	O	P	Q	R max	S	T
DSM 039	31	16	11	39	4x3,4	1,5	33,5	19,5	2x5	2x2,1	18,35	14	31	0,8	12,5	2x3,7	6	0,1	-
DSM 045	34	19	13	45	4x3,4	2	38	23	3x6	3x2,6	21,55	17	34	1,2	15	3x4,5	6	0,15	-
DSM 054	43	22,3	19	54	4x3,4	2	47	30	3x6,5	3x3,1	25,4	19,3	43	1,6	21	3x5	10	0,15	-
DSM 065	54	23,5	26	65	4x3,4	2	58	38	3x6,5	3x3,1	26,7	20,5	54	1,6	29	3x5	15	0,2	-
DSM 080	63	24	35	80	4x4,5	2	72	46	3x6,5	3x3,1	28	22	68	1,4	34,5	3x5,5	17	0,2	3,5
DSM 100	80	26,5	42	100	4x5,5	2,5	90	60	3x8	3x4,1	31	24	85,5	1,7	43,2	3x7	25	0,2	4,3
DSM 125	100	30	52	125	4x6,6	3	112	76	3x10,5	3x5,15	35,9	27	107	2,1	51,5	3x9	30	0,2	5
DSM 150	125	33,5	62	150	4x6,6	3,5	137	95	3x12	3x6,1	40,5	30	134,3	2,5	61,5	3x10	40	0,3	5,5
DSM 190	160	37,5	80	190	4x9	4	175	120	3x15	3x8,2	46,5	34	170	3	79,5	3x13	50	0,3	6
DSM 230	200	44	100	230	4x9	5	215	158	3x18	3x10,2	55,4	40	214,3	4	99,5	3x16	60	0,5	7
DSM 290	250	51	125	290	4x11	6	270	210	4x22	4x12,2	63,9	47	266,5	4,3	124,5	4x20	80	0,5	8

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC CLUTCHES
Model DSM - 2

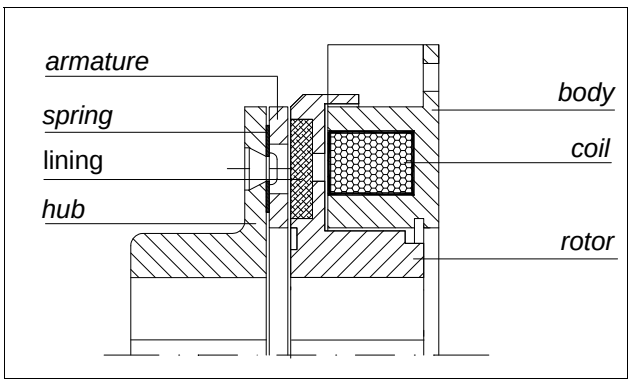
PERFORMANCES (24VDC)

size	*torque* (Nm)	*power* (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
DSM 039-2	0,6	6	10.000	15	3	0,07
DSM 045-2	0,9	6	10.000	20	4	0,12
DSM 054-2	1,8	8	10.000	25	5	0,20
DSM 065-2	3,6	10	10.000	35	6	0,32
DSM 080-2	7,5	15	8.000	35	10	0,53
DSM 100-2	15	20	6.000	40	20	0,96
DSM 125-2	30	28	5.000	60	30	1,84
DSM 150-2	60	35	4.000	80	45	3,24
DSM 190-2	120	50	3.000	100	60	5,79
DSM 230-2	240	68	3.000	115	70	11,4
DSM 290-2	480	85	2.000	130	80	20,4

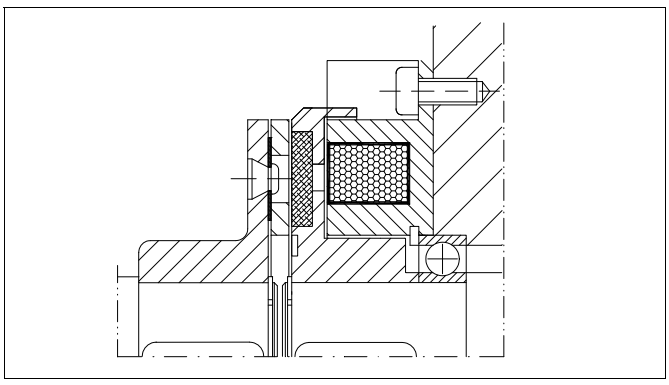
DIMENSIONI (mm) • *DIMENSIONS* (mm)

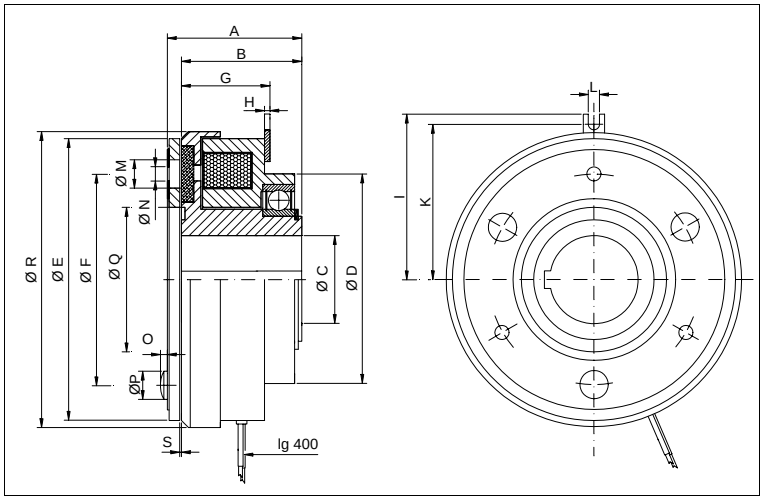
size	A	B	C H8	D h9	E	F	G	H	I	L	M	N max	P	R max	S	T
DSM 039-2	8	14	11	39	31	31	-	33,5	1,5	4x3,4	13	8	26,35	6	0,1	16
DSM 045-2	10	17	13	45	34	34	-	38	2	4x3,4	15	8	31,55	6	0,15	19
DSM 054-2	12	19,3	19	54	43	43	-	47	2	4x3,4	17	10	37,4	10	0,15	22,3
DSM 065-2	12	20,5	26	65	54	54	-	58	2	4x3,4	24	15	38,7	15	0,2	23,5
DSM 080-2	15	22	35	80	63	68	3,5	72	2	4x5	27	17	43	17	0,2	24
DSM 100-2	20	24	42	100	80	85,5	4,3	90	2,5	4x5,5	32	22	51	25	0,2	26,5
DSM 125-2	25	27	52	125	100	107	5	112	3	4x6,6	42	30	60,9	30	0,2	30
DSM 150-2	30	30	62	150	125	134,3	5,5	137	3,5	4x6,6	49	35	70,5	40	0,3	33,5
DSM 190-2	38	34	80	190	160	170	6	175	4	4x9	65	45	84,5	50	0,3	37,5
DSM 230-2	48	40	100	230	200	214,3	7	215	5	4x9	83	60	103,4	60	0,5	44
DSM 290-2	55	47	125	290	250	266,5	8	270	6	4x11	105	70	118,9	80	0,5	51

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC CLUTCHES
Model SCM

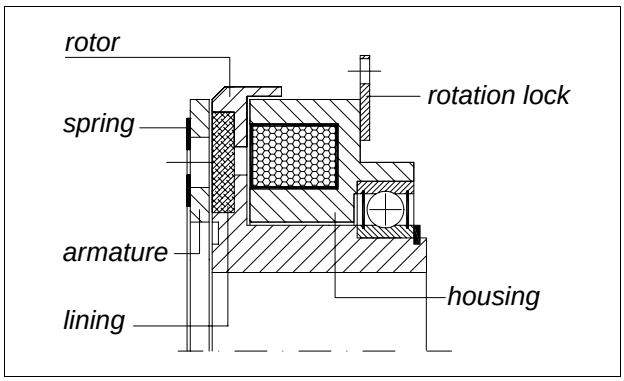
PERFORMANCES (24VDC)

size	*torque* (Nm)	*power* (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
SCM 039	0,6	6	1.500	15	3	0,07
SCM 045	0,9	6	1.500	20	4	0,10
SCM 054	1,8	8	1.500	25	5	0,2
SCM 065	3,6	10	1.500	35	6	0,33
SCM 080	7,5	15	8.000	35	10	0,79
SCM 100	15	20	6.000	40	20	1,2
SCM 125	30	28	5.000	60	30	2,24
SCM 150	60	35	4.000	80	45	3,86
SCM 190	120	50	3.000	100	60	7
SCM 230	240	68	3.000	115	70	13,3
SCM 290	480	85	2.000	130	80	21,2

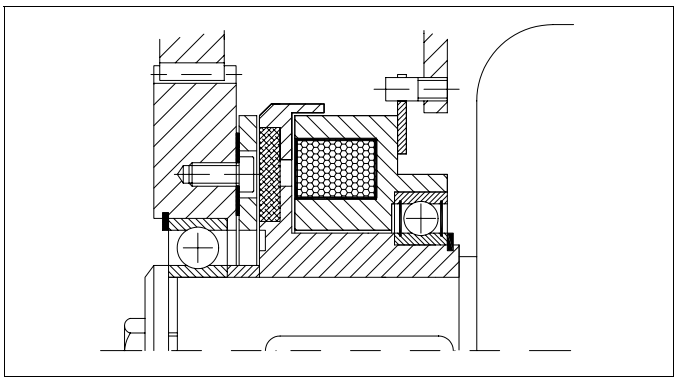
DIMENSIONS **(mm)**

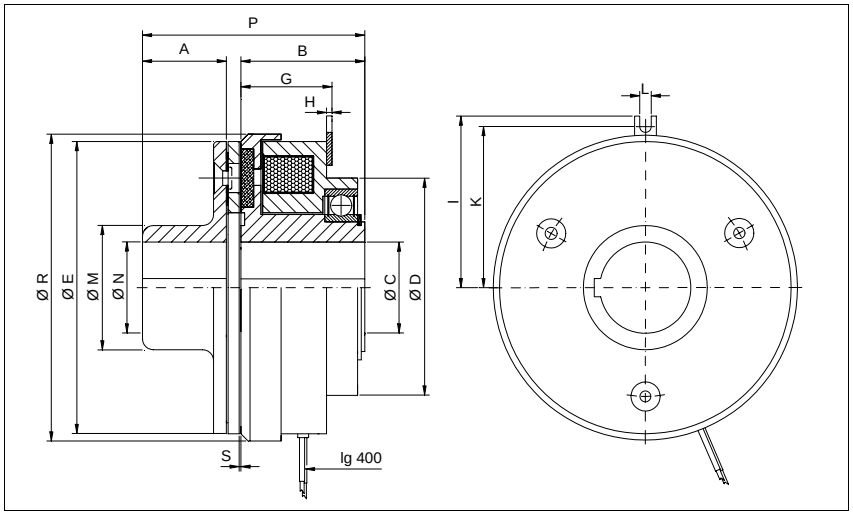
size	A	B	C max	D	E	F	G	H	K	I	L	M	N	O	P	Q	R	S
SCM 039	24,85	22,5	8	16	31	19,5	17,2	1,5	18	21	3,5	2x5	2x2,1	0,8	2x3,7	12,5	31	0,1
SCM 045	28,55	26	8	18	34	23	27,5	1,5	20	23	3,5	3x6	3x2,6	1,2	3x4,5	15	34	0,15
SCM 054	34,1	31	10	25	43	30	32,5	1,5	23	26	3,5	3x6,5	3x3,1	1,6	3x5	21	43	0,15
SCM 065	37,2	34	15	32	54	38	35,5	1,5	28	31	3,5	3x6,5	3x3,1	1,6	3x5	29	54	0,2
SCM 080	44	40	20	64	63	46	26	1,5	36	41	4,1	3x6,3	3x3,1	1,4	3x5,5	34,5	68	0,2
SCM 100	48	43,5	25	68	80	60	28	1,5	45	50	4,1	3x8	3x4,1	1,7	3x7	43,2	85,5	0,2
SCM 125	54,9	49	30	85	100	76	32,5	2,5	56	60	4,1	3x10,5	3x5,15	2,1	3x9	51,5	107	0,2
SCM 150	62	55	40	100	125	95	36	2,5	68,5	72,5	4,1	3x12	3x6,1	2,5	3x10	61,5	134,3	0,3
SCM 190	70,5	61,5	50	127	160	120	41,7	3,5	87,5	93,5	8,1	3x15	3x8,2	3	3x13	79,5	170	0,3
SCM 230	85,4	74	60	152,4	200	158	48,1	3,5	107,5	113,5	8,1	3x18	3x10,2	4	3x16	99,5	214,3	0,5
SCM 290	93,9	81	80	152,4	250	210	55,2	3,5	135	141	8,1	4x22	4x12,2	4,3	4x20	124,5	266,5	0,5

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC CLUTCHES
Model SCM - 2

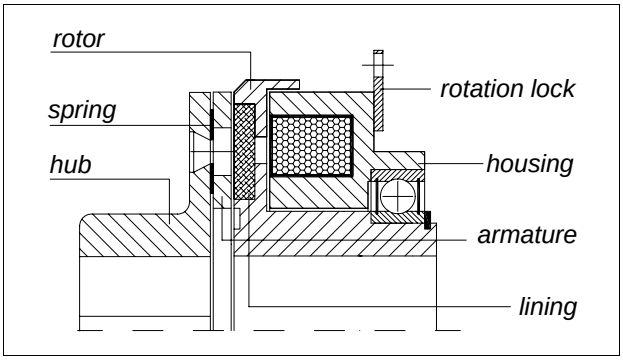
PERFORMANCES (24VDC)

size	*torque* (Nm)	*power* (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
SCM 039-2	0,6	6	1.500	15	3	0,08
SCM 045-2	0,9	6	1.500	20	4	0,12
SCM 054-2	1,8	8	1.500	25	5	0,21
SCM 065-2	3,6	10	1.500	35	6	0,35
SCM 080-2	7,5	15	8.000	35	10	0,83
SCM 100-2	15	20	6.000	40	20	1,28
SCM 125-2	30	28	5.000	60	30	2, 4
SCM 150-2	60	35	4.000	80	45	4,15
SCM 190-2	120	50	3.000	100	60	7,3
SCM 230-2	240	68	3.000	115	70	14,5
SCM 290-2	480	85	2.000	130	80	22,9

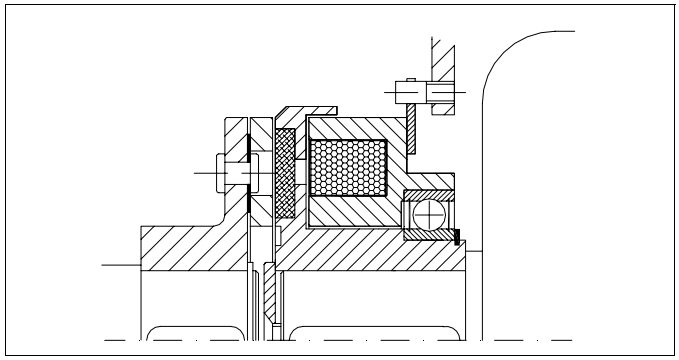
DIMENSIONS **(mm)**

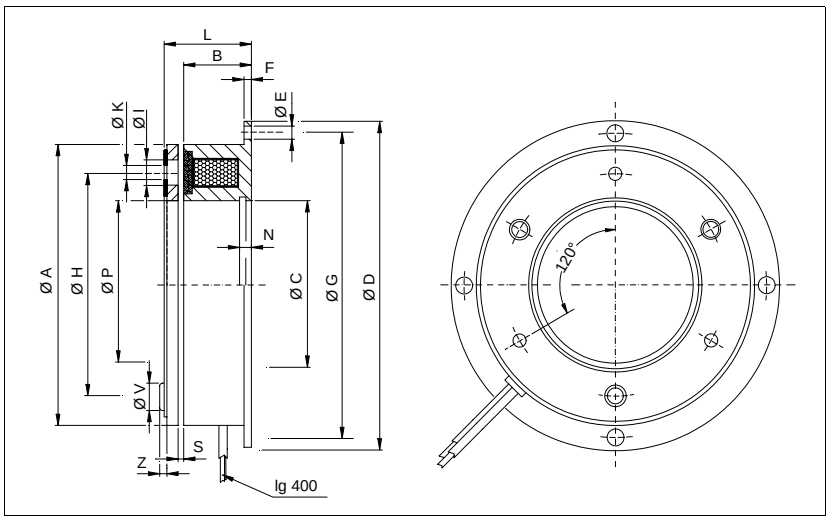
size	A	B	C max	D	E	G	H	K	I	L	M	N max	P	R	S
SCM 039-2	8	22,5	8	16	31	17,2	1,5	18	21	3,5	13	8	26,35	31	0,1
SCM 045-2	10	26	8	18	34	27,5	1,5	20	23	3,5	15	8	31,55	34	0,15
SCM 054-2	12	31	10	25	43	32,5	1,5	23	26	3,5	17	10	37,4	43	0,15
SCM 065-2	12	34	15	32	54	35,5	1,5	28	31	3,5	24	15	38,7	54	0,2
SCM 080-2	15	40	20	64	63	26	1,5	36	41	4,1	27	20	59	68	0,2
SCM 100-2	20	43,5	25	68	80	28	1,5	45	50	4,1	32	22	68	85,5	0,2
SCM 125-2	25	49	30	85	100	32,5	2,5	56	60	4,1	42	30	80	107	0,2
SCM 150-2	30	55	40	100	125	36	2,5	68,5	72,5	4,1	49	35	92	134,3	0,3
SCM 190-2	38	61,5	50	127	160	41,7	3,5	87,5	93,5	8,1	65	45	108,5	170	0,3
SCM 230-2	48	74	60	152,4	200	48,1	3,5	107,5	113,5	8,1	83	60	133,5	214,3	0,5
SCM 290-2	55	81	80	152,4	250	55,2	3,5	135	141	8,1	105	70	149	266,5	0,5

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC BRAKES
Model DFM

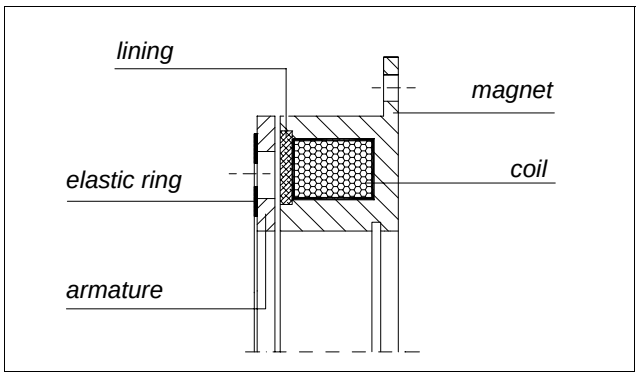
PERFORMANCES (24VDC)

size	torque (Nm)	power (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
DFM 039	0,6	6	10.000	15	3	0,06
DFM 045	0,9	6	10.000	20	4	0,10
DFM 054	1,8	8	10.000	25	5	0,17
DFM 065	3,6	10	10.000	35	6	0,26
DFM 080	7,5	11,5	8.000	35	10	0,28
DFM 100	15	16	6.000	40	20	0,51
DFM 125	30	21	5.000	60	30	0,95
DFM 150	60	28	4.000	80	45	1,71
DFM 190	120	38	3.000	100	60	3,20
DFM 230	240	45	3.000	115	70	5,85
DFM 290	480	70	2.000	130	80	11

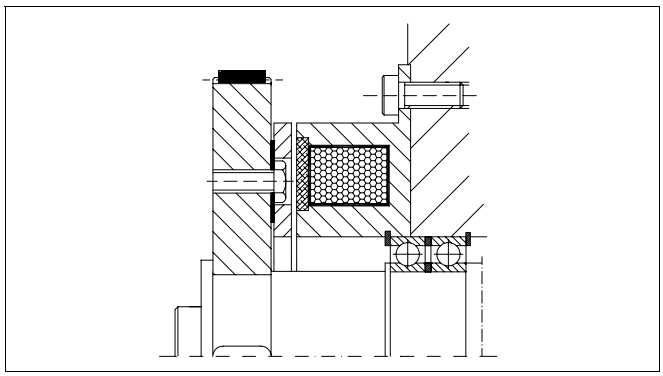
DIMENSIONS (mm)

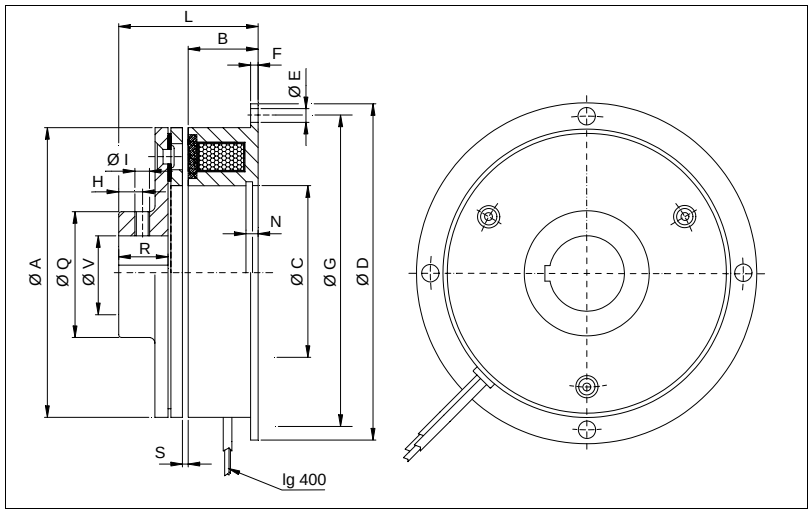
size	A	B	C H8	D h9	E	F	G	H	K	I	L	N	P	S	V	Z
DFM 039	31	16	11	39	4x3,4	1,5	33,5	19,5	2x2,1	2x5	18,35	-	12,5	0,1	2x3,7	0,8
DFM 045	34	19	13	45	4x3,4	2	38	23	3x2,6	3x6	21,55	-	15	0,1	3x4,5	1,2
DFM 054	43	22,3	19	54	4x3,4	2	47	30	3x3,1	3x6,5	25,4	-	21	0,2	3x5	1,6
DFM 065	54	23,5	26	65	4x3,4	2	58	38	3x3,1	3x6,5	26,7	-	29	0,2	3x5	1,6
DFM 080	63	18	35	80	4x4,5	2	72	46	3x3,1	3x6,5	22	3,5	34,5	0,2	3x5,5	1,4
DFM 100	80	20	42	100	4x5,5	2,5	90	60	3x4,1	3x8	24,5	4,3	43,2	0,2	3x7	1,7
DFM 125	100	22	52	125	4x6,6	3	112	76	3x5,15	3x10,5	27,9	5	51,5	0,2	3x9	2,1
DFM 150	125	24	62	150	4x6,6	3,5	137	95	3x6,1	3x12	31	5,5	61,5	0,3	3x10	2,5
DFM 190	160	26	80	190	4x9	4	175	120	3x8,2	3x15	35	6	79,5	0,3	3x13	3
DFM 230	200	30	100	230	4x9	5	215	158	3x10,2	3x18	41,4	7	99,5	0,5	3x16	4
DFM 290	250	35	125	290	4x11	6	270	210	4x12,2	4x22	47,9	8	124,5	0,5	4x20	4,3

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC BRAKES
Model DFM-2

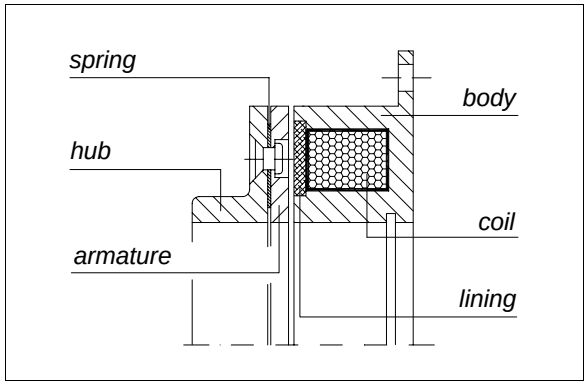
PERFORMANCES (24VDC)

size	torque (Nm)	power (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
DFM 039-2	0,6	6	10.000	15	3	0,07
DFM 045-2	0,9	6	10.000	20	4	0,11
DFM 054-2	1,8	8	10.000	25	5	0,18
DFM 065-2	3,6	10	10.000	35	6	0,28
DFM 080-2	7,5	11,5	8.000	35	10	0,32
DFM 100-2	15	16	6.000	40	20	0,59
DFM 125-2	30	21	5.000	60	30	1,11
DFM 150-2	60	28	4.000	80	45	2
DFM 190-2	120	38	3.000	100	60	3,5
DFM 230-2	240	45	3.000	115	70	7,1
DFM 290-2	480	70	2.000	130	80	12,7

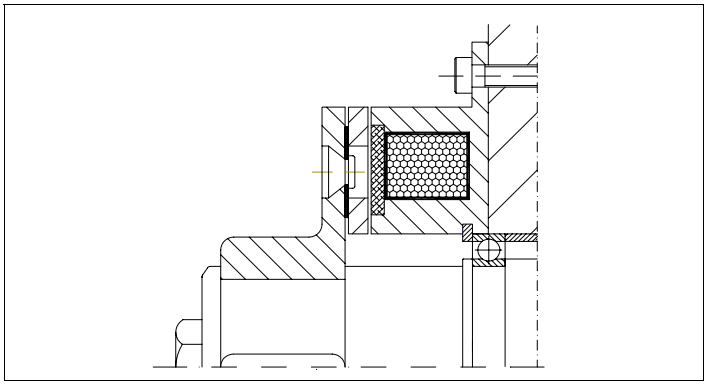
DIMENSIONS (mm)

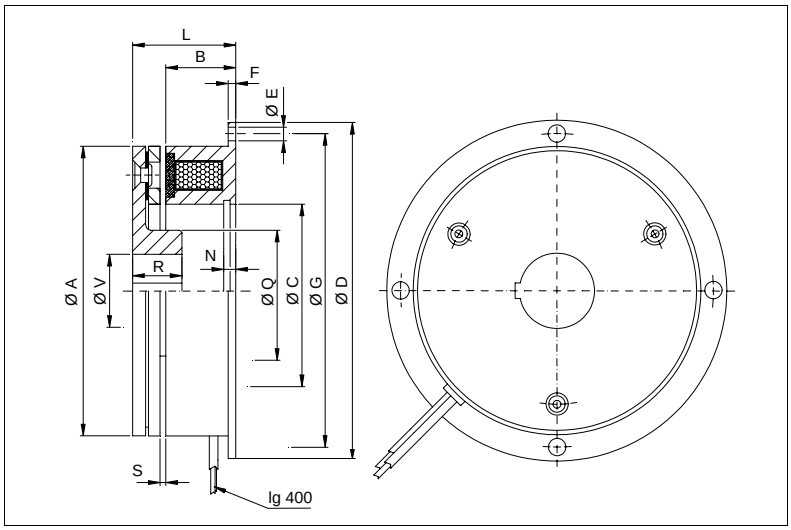
size	A	B	C H8	D h8	E	F	G	H	I	L	N	Q	R	S	V max
DFM 039-2	31	16	11	39	4x3,4	1,5	33,5	3,5	1xM3	26,35	-	13	8	0,1	8
DFM 045-2	34	19	13	45	4x3,4	2	38	4	1xM3	31,55	-	15	10	0,1	8
DFM 054-2	43	22,3	19	54	4x3,4	2	47	5	1xM3	37,4	-	17	12	0,2	10
DFM 065-2	54	23,5	26	65	4x3,4	2	58	5	1xM4	38,7	-	24	12	0,2	15
DFM 080-2	63	18	35	80	4x4,5	2	72	5	1xM4	37	3,5	33	15	0,2	17
DFM 100-2	80	20	42	100	4x5,5	2,5	90	6	1xM4	44,5	4,3	32	20	0,2	22
DFM 125-2	100	22	52	125	4x6,6	3	112	6	1xM5	52,9	5	42	25	0,2	30
DFM 150-2	125	24	62	150	4x6,6	3,5	137	10	1xM6	61	5,5	49	30	0,3	35
DFM 190-2	160	26	80	190	4x9	4	175	10	1xM8	73	6	65	38	0,3	45
DFM 230-2	200	30	100	230	4x9	5	215	15	2xM8	89,4	7	83	48	0,5	60
DFM 290-2	250	35	125	290	4x11	6	270	20	2xM10	102,9	8	105	55	0,5	70

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE
ELECTROMAGNETIC BRAKES
Model DFM-3

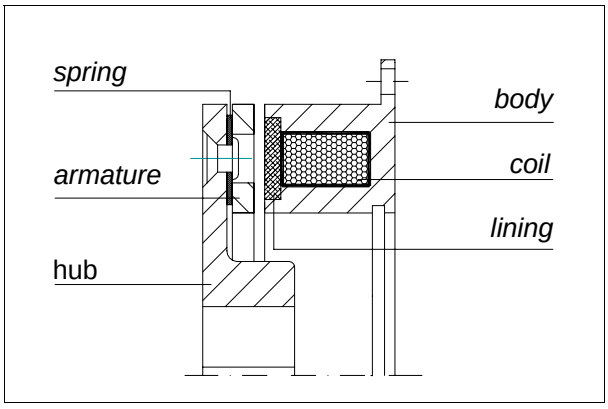
PERFORMANCES (24VDC)

size	torque (Nm)	power (W)	*rpm*	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
DFM 065-3	3,6	10	10.000	35	6	0,28
DFM 080-3	7,5	11,5	8.000	35	10	0,32
DFM 100-3	15	16	6.000	40	20	0,59
DFM 125-3	30	21	5.000	60	30	1,11
DFM 150-3	60	28	4.000	80	45	2
DFM 190-3	120	38	3.000	100	60	3,5
DFM 230-3	240	45	3.000	115	70	7,1
DFM 290-3	480	70	2.000	130	80	12,7

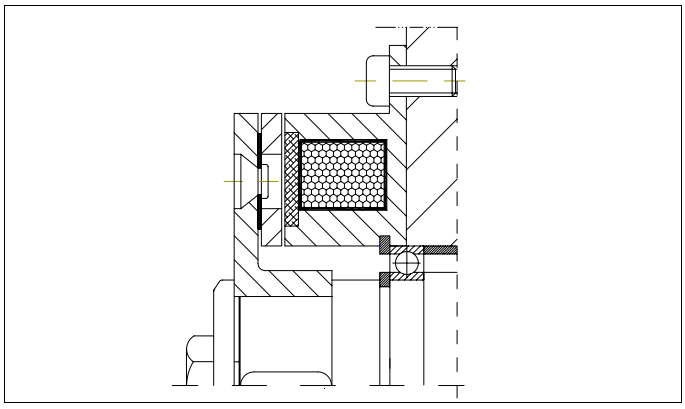
DIMENSIONS (mm)

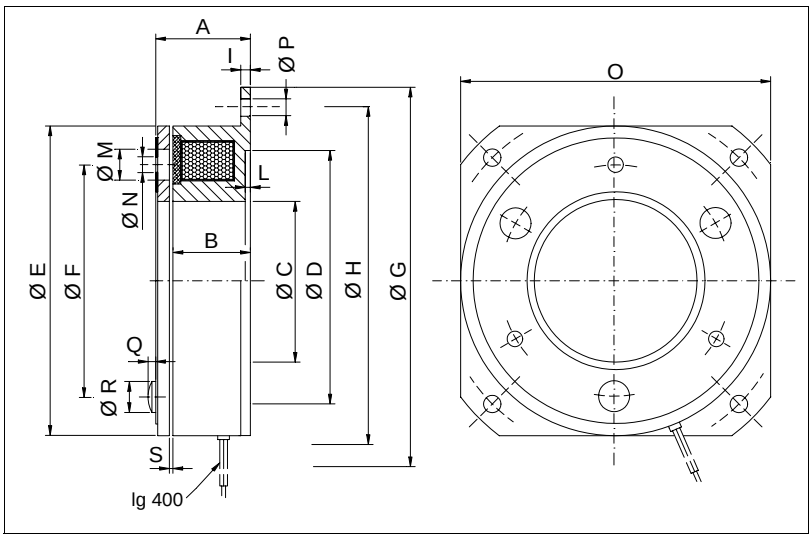
size	A	B	C H8	D h8	E	F	G	L	N	Q	R	S	V max
DFM 065-3	54	23,5	26	65	4x3,4	2	58	29,7	-	24	12	0,2	15
DFM 080-3	63	18	35	80	4x4,5	2	72	25,5	3,5	33	15	0,2	17
DFM 100-3	80	20	42	100	4x5,5	2,5	90	28,5	4,3	32	20	0,2	22
DFM 125-3	100	22	52	125	4x6,6	3	112	32,9	5	42	25	0,2	30
DFM 150-3	125	24	62	150	4x6,6	3,5	137	37	5,5	49	30	0,3	35
DFM 190-3	160	26	80	190	4x9	4	175	42	6	65	38	0,3	45
DFM 230-3	200	30	100	230	4x9	5	215	50,4	7	83	48	0,5	60
DFM 290-3	250	35	125	290	4x11	6	270	58,9	8	105	55	0,5	70

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC BRAKES
Model FMF

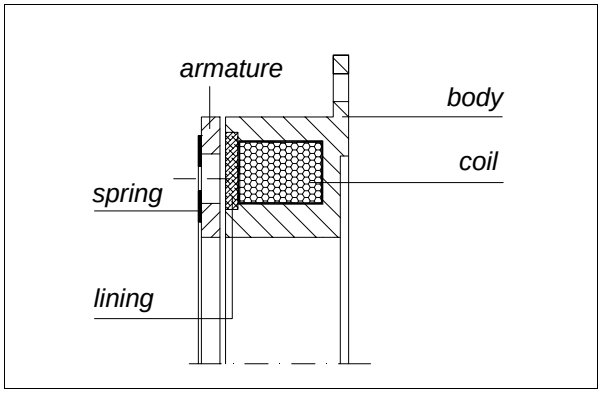
PERFORMANCES (24VDC)

size	*torque* (Nm)	*power* (W)	*rpm*	*J armature* $Kgcm^2$	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
FMF 092	10	14	7.000	0,6	65	30	0,6
FMF 115	20	22	6.000	1,8	75	35	1,3

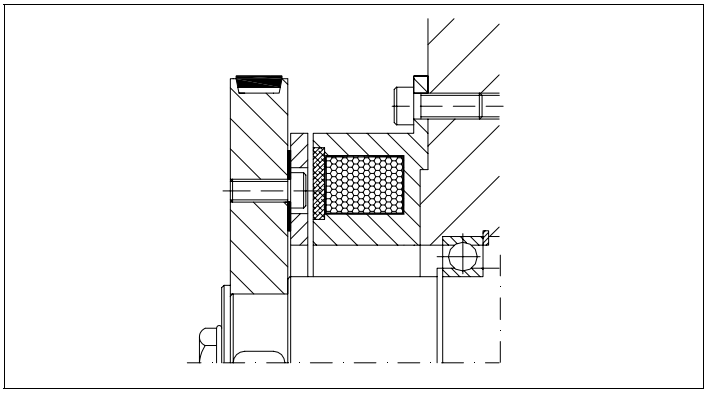
DIMENSIONS (mm)

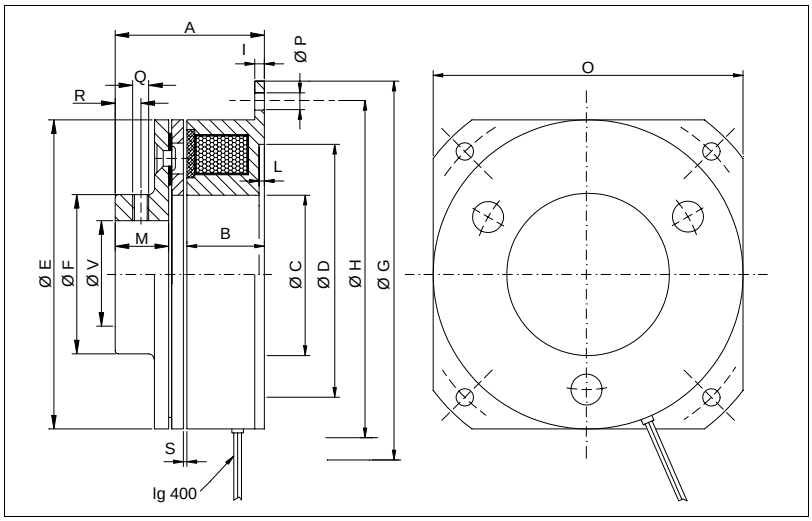
size	A	B	C	D h8	E	F	G H8	H	I	L	M	N	O	P	Q	R	S
FMF 092	28,6	24,5	39,5	52	74	50	92	83	2	2,5	3x9	3x4,1	74	4x4,3	0,4	3x7	0,3
FMF 115	32,5	27,5	51,5	62	93	62	115	104	2	2,5	3x10,5	3x5,1	93	4x5,3	0,4	3x9	0,3

PARTS NAME



MOUNTING EXAMPLE





SINGLE PLATE ELECTROMAGNETIC BRAKES
Model FMF-2

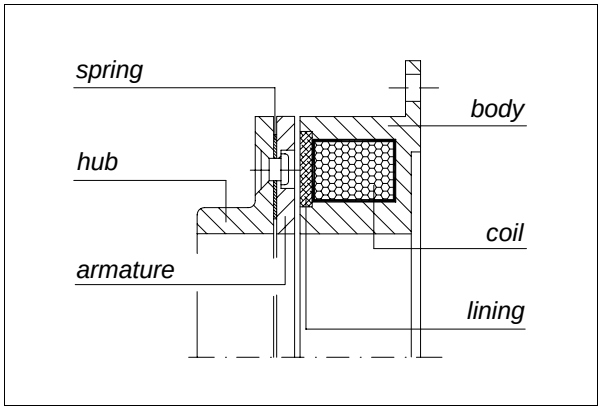
PERFORMANCES (24VDC)

size	*torque* (Nm)	*power* (W)	*rpm*	*J armature* $Kgcm^2$	*engagement time* (ms)	*disengagement time* (ms)	*weight* (kg)
FMF 092-2	10	14	7.000	0,6	65	30	0,6
FMF 115-2	20	22	6.000	1,8	75	35	1,3

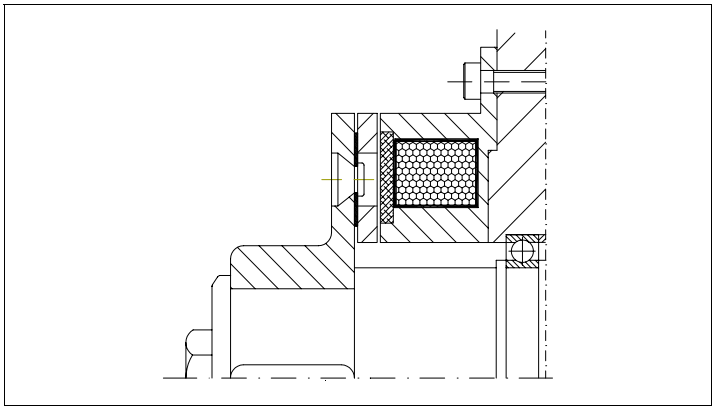
DIMENSIONS (mm)

size	A	B	C	D h8	E	F	G	H	I	L	M	O	P	Q	R	S	V max
FMF 092	48,6	24,5	39,5	52	74	32	92	83	2	2,5	20	74	4x4,3	1xM4	6	0,3	22
FMF 115	32,5	27,5	51,5	62	93	42	115	104	2	2,5	25	93	4x5,3	1xM5	6	0,3	30

PARTS NAME



MOUNTING EXAMPLE



Symbology


mechanically actuated


electromagnetically actuated


hydraulically actuated


pneumatically actuated


springs loaded


permanent magnet


with rotating magnet


with stationary magnet


with steel plates


with steel plates E


with sintered discs M


with linings


toothed


accessories


powder