

EM VAR 01 | EMER VAR 01

Electro-Magnetic Single Disc Clutch & Brake Combination

Characteristics

- Electrically operated 24 VDC
- Single friction face
- Clutch activated by power on
- Brake activated by power on = **EM**
Brake activated by power off = **EMER**
- Shafts at both sides
- Standard with lead termination or connector as option

Utilisation

- Coupling of a pulley or a shaft

Particularities

- For dry use
- Input and output with flange M1 or cover

Adjustments

- No wear compensation required

Maintenance Manual

- SM 305

IEC Mounting Flanges

Permitted combinations and dimensions

Selection and Heat Dissipation Curves

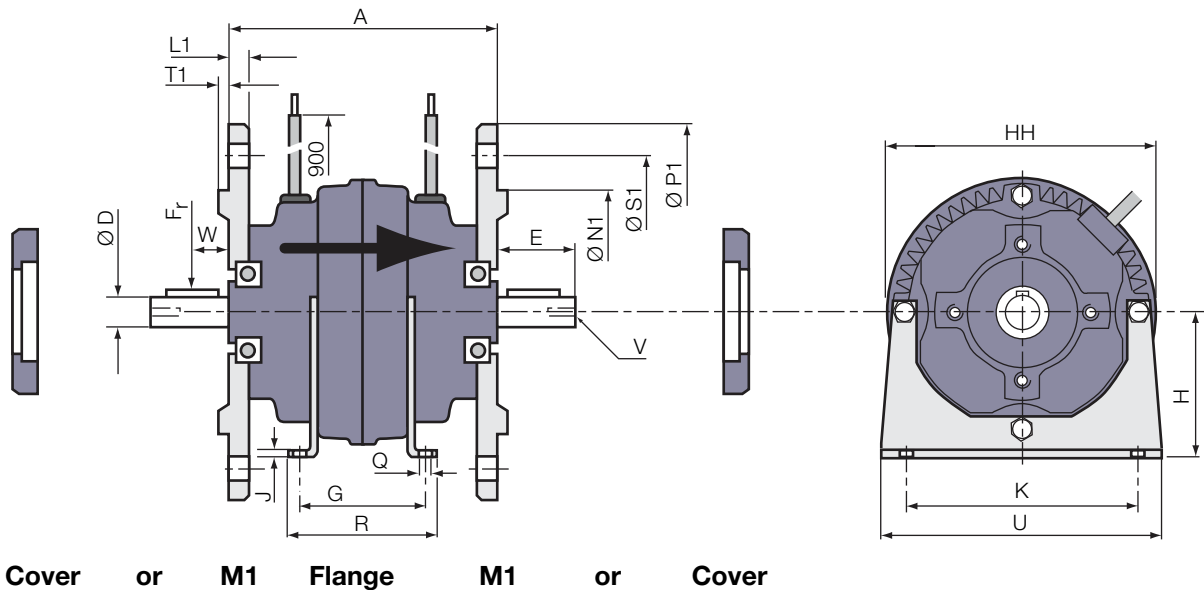
See page 14

Size	EM2	EMER2	EM3	EMER3	EM4	EMER4	EM5	EMER5	EM6	EMER6
Flange M1	115	X	X	–	–	–	–	–	–	–
	130	X	X	X	X	X	–	–	–	–
	165	–	–	X	X	X	X	X	–	–
	215	–	–	–	–	–	X	X	X	X
	265	–	–	–	–	–	–	–	X	X
Cover	X	X	X	X	X	X	X	X	X	X

Size with	115 EM2 EMER2	130 EM2 EMER2	130 EM3 EMER3	130 EM4 EMER4	165 EM3 EMER3	165 EM4 EMER4	165 EM5 EMER5	215 EM5 EMER5	215 EM6 EMER6	265 EM6 EMER6
L1	10	10	12	14	12	14	14	17	14	17
N1	h8	95	110	110	130	130	180	180	180	230
Flange M1	P1	140	160	160	160	200	200	250	250	300
S1	115 4x Ø9	130 4x Ø9	130 4x Ø9	130 4x Ø9	165 4x Ø11	165 4x Ø11	165 4x Ø11	215 4x Ø14	215 4x Ø14	265 4x Ø14
T1	3	3,5	3,5	3,5	3,5	3,5	4	4	4	4

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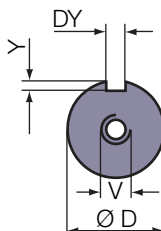
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Sizes		EM2	EMER2	EM3	EMER3	EM4	EMER4	EM5	EMER5	EM6	EMER6
Nom. Torque	[Nm]	7.5	4.5	15	9	25	14	50	28	130	75
Max. Speed	[min ⁻¹]	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Power	P20 [24V] [W]	13	12	11	12	26	20	20	24	30	36
	A	136	147	144	155	160	171	170	181	230	241
	D ^{J6} x E	11x23 14x30	11x23 14x30	14x30 19x40	14x30 19x40	19x40 24x50	19x40 24x50	24x50 28x60	24x50 28x60	28x60 38x80	28x60 38x80
	G	90	101	105	116	117	128	124	135	160	171
	H	63	63	71	71	90	90	100	100	132	132
	HH	112	112	142	142	180	180	200	200	240	240
	J	3	3	3	3	4	4	5	5	6	6
	K	100	100	112	112	140	140	160	160	216	216
	Q	7	7	9	9	10	10	12	12	12	12
	R	109	120	120	131	136	147	140	151	186	197
	U	116	116	144	144	170	170	200	200	264	264
	W	11	11	20	20	20	20	30	30	35	35
	X	100	100	110	110	122	122	-	-	-	-
Inertia	[kgm ²]	0,00011	0,00011	0,0003	0,0003	0,0008	0,0008	0,00018	0,00018	0,00085	0,00085
Coil Build up time	tb [s]	0,025	0,030	0,030	0,040	0,052	0,040	0,070	0,080	0,11	0,09
Coil Delay Time	td [s]	0,004	0,003	0,005	0,003	0,006	0,005	0,0012	0,008	0,02	0,01
Radial Load	Fr [N]	480	480	900	900	1450	1450	1850	1850	3000	3000
Weight	[kg]	2,9	2,9	4,0	4,0	7,0	7,0	11	11	23	23
Connection		Cable									

Keyway BS 4235
DIN 6885
NF E 22-175

Option Connector



ØD	11	14	19	24	28	38
DY x Y	4 x 2,5	5 x 3	6 x 3,5	8 x 4	8 x 4	10 x 5
V	M4 x 10	M5 x 12	M6 x 16	M8 x 19	M10 x 22	M12 x 28