

Electro-Magnetic Toothed Brake

Characteristics

- Electrically operated 24 or 103,5 VDC, depending on size
- Toothed operated brake
- Activated by power on

Utilisation

- Braking of a pulley or a hub in position
- Braking has to be made at standstill or at very low speed, in case of doubt consult the factory
- For wet or dry operation

Particularities

- Positive braking for drive without slipping
- Standard available for random operation
- Option : detection disc allows the braking position to be validated, see dimensions page 47

Adjustments

- Verify position of tooth "J" prior to installation
- No wear adjustment required

Maintenance Manual

- SM 316

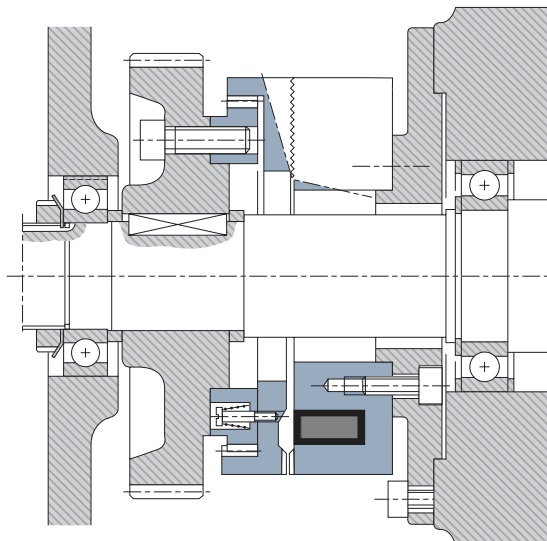
Mounting Precautions

- Device intended for horizontal or vertical use

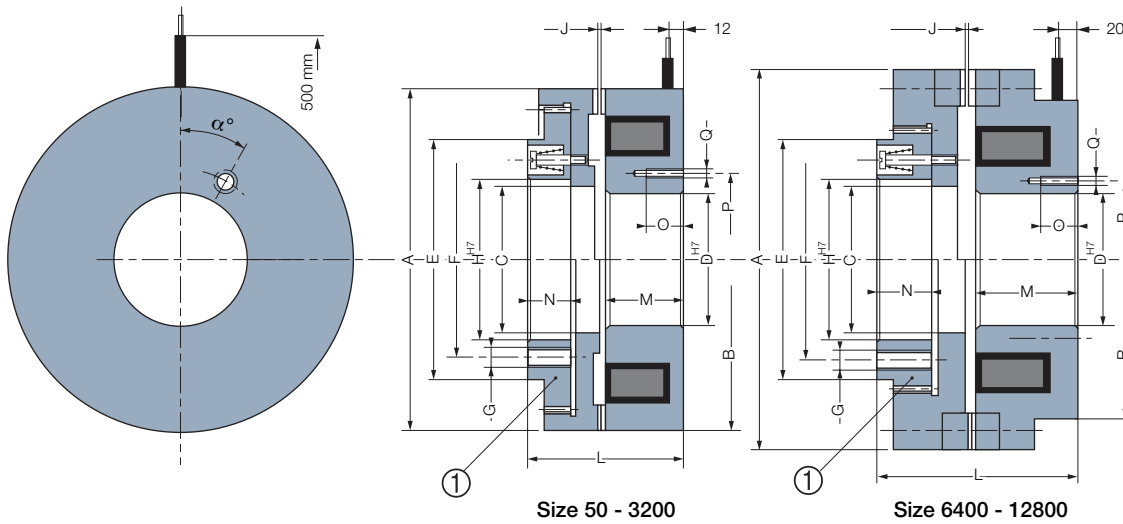
Power Supply

- For sizes until 3200
CBC 400-24, CBC 450-24,
CBC 140 -5 + CBC 140-T (24V)
- For sizes 6400, and 12800
CBC 140 -5 (103,5V)

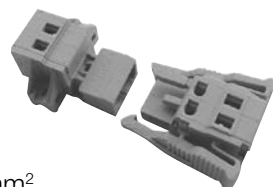
Mounting Example



Electro-Magnetic Toothed Brake



Sizes		50	100	200	400	800	1600	3200	6400	12800
Nom. Torque	[Nm]	50	100	200	400	800	1600	3200	6400	12800
Max. Speed	[min. ⁻¹]	5000	4300	3600	3300	2700	2100	1800	1500	1500
Voltage	[VDC]	24	24	24	24	24	24	24	103,5	103,5
Power	P20 [W]	22	26	33	33	47	68	79	111	143
	A	75	90	105	115	140	185	215	320	385
	B	75	90	105	115	140	185	215	260	315
	C	40	49,5	58	63	76	99	117	153	180
	D	35	42	50	55	65	85	105	140	175
	E	65,5	75,5	85,5	100,5	115,5	155,5	180,5	215,5	275,5
	F	55	64	75	85	100	135	155	190	250
	G	4xM5	4xM5	4xM6	6xM6	6xM8	6xM10	6xM10	12xM12	12xM116
	H	45	53	65	70	85	115	130	153	190
	J	0,4	0,5	0,5	0,5	0,6	0,7	0,9	1	1
	L	38	40	44	48	65	80	100	143	165
	M	23	22,3	23,7	26,2	36,9	44	52	82,3	92,6
	N	8	10	12	12,5	17	21	28	35	41
	O	9	9	10	13	17	19	20	26	30
	P	45	50	65	70	80	110	135	170	210
	Q	6xM5	6xM5	6xM6	6xM8	6xM10	6xM12	10xM12	10xM16	12xM18
	α	30°	30°	30°	30°	30°	30°	18°	18°	15°
Inertia	① [kgm ²]	0,0002	0,0006	0,001	0,002	0,030	0,030	0,055	0,406	1,08
Weight	[kg]	0,8	1,25	1,8	2,5	5	11	22	54	90
Connection		Leads				Cable				



Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm²

E720 VAR 00

Electro-Magnetic Toothed Brake

Characteristics

- Electrically released - 103,5/48 VDC or 207/103,5 VDC, depending on size
- Toothed operated brake
- Activated by spring pressure

Utilisation

- Braking of a pulley or a hub in position
- Braking has to be made at standstill or at very low speed, in case of doubt consult the factory
- For wet or dry operation

Particularities

- This device works with two voltages: one for disengagement, one for position maintain
- Positive braking for drive without slipping
- Standard available for random operation
- Option : detection disc allows the braking position to be validated, see dimensions page 41

Adjustments

- Verify position of tooth "Q" prior to installation
- No wear adjustment required

Maintenance Manual

- SM 317

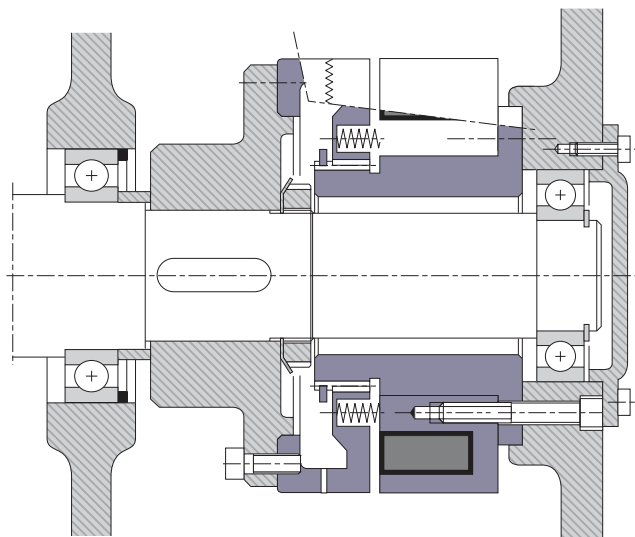
Mounting Precautions

- Device intended for horizontal or vertical use
- The customers mounting method must take into account the axial thrust

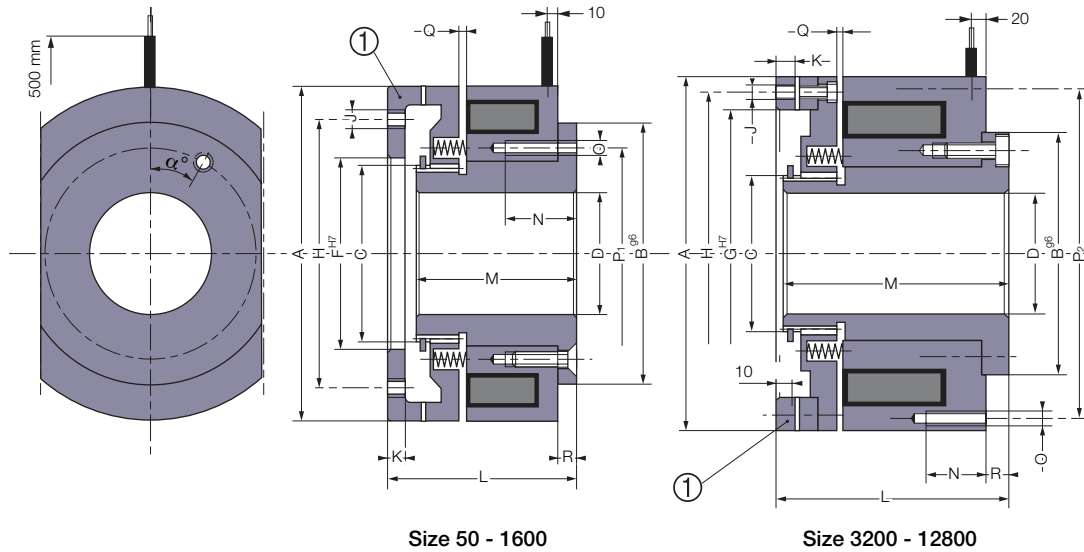
Power Supply CBC 140-5

- Overexcitation delay: 0,5 s (size 50) to 2 s (size 12800)

Mounting Example



Electro-Magnetic Toothed Brake



Sizes		50	100	200	400	800	1600	3200	6400	12800	
Nom. Torque	[Nm]	50	100	200	400	800	1600	3200	6400	12800	
Max. Speed	[min ⁻¹]	5000	4300	3600	3300	2700	2100	1800	1500	1500	
U Pull In / Holding	[VDC]	103,5/48	103,5/48	103,5/48	103,5/48	103,5/48	103,5/48	207/103,5	207/103,5	207/103,5	
Power Pull In	P20 [W]	111	160,5	187	237	230	263	574	686	932	
Power holding	P20 [W]	21,1	30,6	35,5	45	43,3	50	143	172	233	
	A	90	105	115	140	185	225	265	320	385	
	B	70	80	85	110	150	155	170	204	245	
	C	45	55	60	75	100	108	125	145	175	
	D	32	40	44	57	77	82	97	112	132	
	F Min	40	45	50	65	105	110	-	-	-	
	F Max	58	70	80	95	130	155	-	-	-	
	G	-	-	-	-	-	-	215	260	315	
	H*	68	82	92	110	148	175	240	290	355	
	J*	4xM6	4xM6	6MX6	6xM8	6xM10	6xM12	12xM12	12xM14	12MX16	
	K	5	6	6	7	8	12	15	18	24	
	L	55	58	62	75	90	135	155	180	215	
	M	48	50	54	66	80	120	150	178	210	
	N	15	15	15	20	25	16	19	20	25	
	O	4xM5	4xM6	6xM6	6xM8	6xM10	8xM10	10xM12	12xM12	12xM16	
	P1	54	66	71	88	122	-	-	-	-	
	P2	-	-	-	-	-	210	245	290	355	
	Q	1	1,1	1,2	1,3	1,3	2	2,3	2,7	3,2	
	R	3,5	4,4	4,5	6	8	17	18	17,5	18	
	α	45°	45°	30°	30°	30°	22°30'	18°	15°	15°	
Axial Load on Drive Cup	① [daN]	30	45	65	115	180	330	900	1500	2200	
Inertia	① [kgm ²]	0,00034	0,00073	0,0010	0,0025	0,0095	0,022	0,0418	0,104	0,290	
Weight	[kg]	2	2,7	3,5	6,2	13	27	45	81	142	
Connection		Leads					Cable				

*Drive cup ① is supplied undrilled. Fixing holes are shown for information only (on sizes 50 to 1600)

Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm²

