

ERD VAR 00 500-3200

Electro-Magnetic Single Disc Electro Release Brake

Characteristics

- Electrically operated 103,5 VDC
- Single disc
- Activated by spring pressure

Utilisation

- Braking a shaft
- Holding a load

Particularities

- For dry use
- No residual torque in disengaged position

Adjustments

- Airgap should be adjusted at installation
- Requires wear compensation for dynamic applications

Maintenance Manual

- SM 300

Mounting Precautions

- Sizes 500 / 800 / 1600 :
- For horizontal or vertical use for standard versions
- Horizontal use for high torque versions (H)
For other sizes horizontal use only
- Release shipping screws after mounting

Power Supply

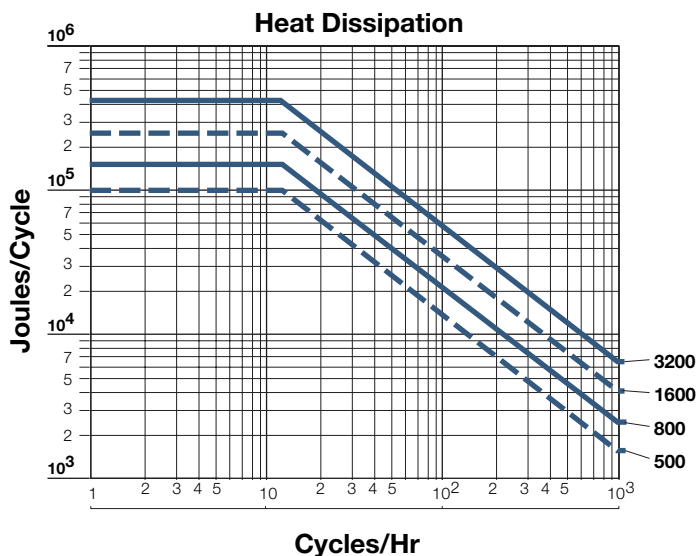
- CBC 140-5

Response Times

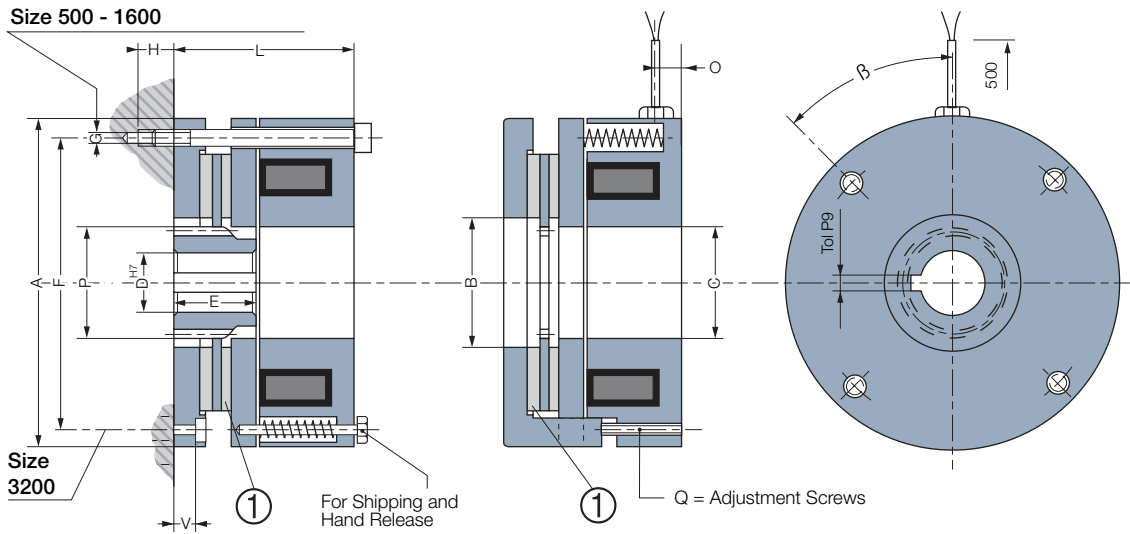
Response times are average values for switching on the DC side. Pull-in = release time for 10 % torque left. Drop-out = time to obtain 90 % torque. DC side operated, AC side operated $t \times 6$ (typ)

Switch time
on the DC side

Sizes		500	800	1600	3200
Pull-in	[ms]	400	550	650	1200
Drop-out	[ms]	200	320	380	420

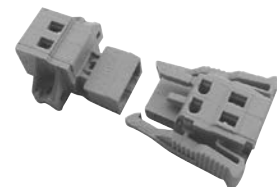


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Sizes			500	800	1600	3200
Nom. Torque		[Nm]	500	800	1600	3200
Max. Speed		[min.]	3600	3000	2300	1800
High Torque Version (HT)		[Nm]	800	1100	2250	-
Max. Speed at High Torque		[min.]	650	500	400	-
Voltage		[VDC]	103,5	103,5	103,5	103,5
Power	P20	[W]	150	165	327	408
	A		265	320	395	500
	B		120	155	210	260
	C		98	124	168	210
	D min		30	35	50	60
	D max		65	80	110	125
	E		60	70	100	125
	F		240	294	360	455
	G		4xM12	4xM12	4xM16	8xM20
	H min		25	27	30	-
	L		122	136	165	205
	O		20	27	27	36
	Q		4xM12	4xM16	4xM16	4xM20
	V		-	-	-	40
	B		50°	45°	60°	22°30'
Hub	Pressure Angle	α°	20°	20°	20°	20°
	Number of Teeth	[Z]	37	39	53	63
	Module	[m]	2,5	3	3	3
	Diametrical Pitch	[Dp]	92,5	117	159	189
	Outside Diameter	[P]	95	120	162	195
	Dimension on K tooth		34,38	41,34	50,786	60,06
	K Tooth	[K]	5	5	6	7
Inertia	STD	[kgm ²]	0,0100	0,0282	0,0997	0,513
	HT		0,0156	0,0418	0,1379	-
Weight		[kg]	35	64	120	229
Connection			Cable			

The HT torque outlined is a static torque: for dynamic applications, please contact our technical department.



Connector Options

(Delivered without cable)

2 poles, capacity : 0,5/2,5mm²

Keyways according to ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9