E220 VAR 00

Electro-Magnetic Single Disc Clutch

Characteristics
- Electrically operated 24 or 103,5 VDC depending size
- Single friction face
- Activated by power on

Utilisation
- Coupling of a pulley or a hub

Particularities
- No backlash
- For dry use
- No residual torque in disengaged position
- Fixed inductor mounted on ball bearings

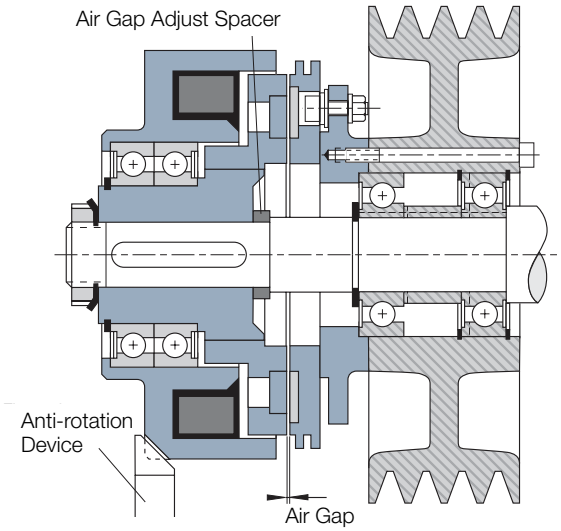
Adjustments
- Airgap “P” should be adjusted at installation
- Does not require wear compensation

Maintenance Manual
- SM 307

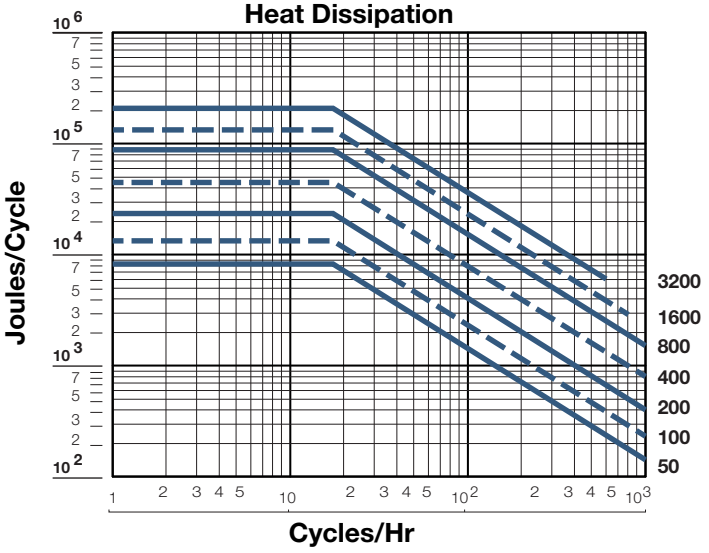
Mounting Precautions
- The anti-rotation device of the electromagnet shall be inserted in anti rotation slot, with a side play of 0,5 mm and a 1 mm play to the bottom. This avoids a normal stress on the ball-bearings.
- We strongly recommend to mount a damping elastic slot in the anti-rotation device in case of vibrations
- Device intended for horizontal use; for vertical use, please consult the factory

Power Supply
- For sizes until 1600 :
  CBC 400–24 - CBC 450–24
  CBC 500–24 - CBC 550–24
  CBC 140–5 + CBC 140–T
- For size 3200:
  CBC 140–5

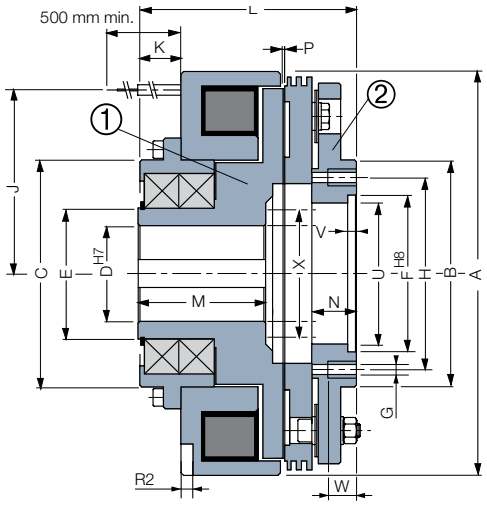
Mounting Example



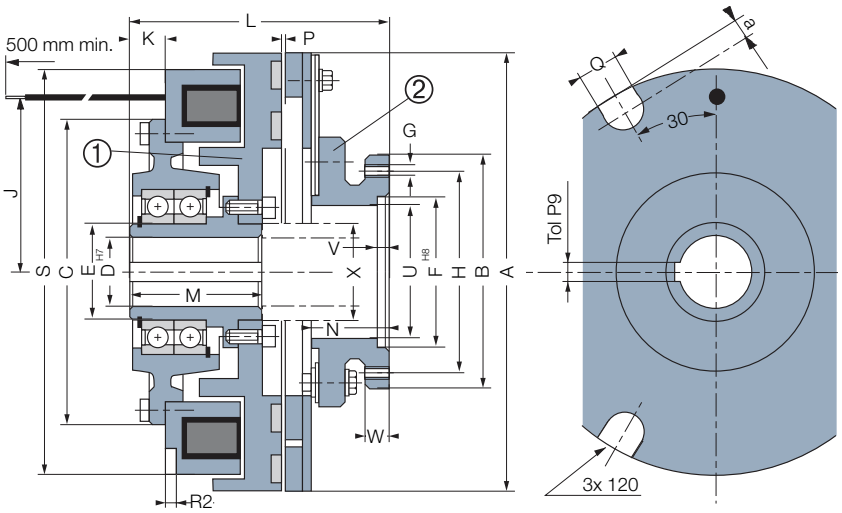
Heat Dissipation



Electro-Magnetic Single Disc Clutch



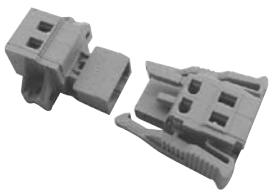
Size 50 - 200



Size 400 - 3200

Sizes			50	100	200	400	800	1600	3200
Nom. Torque		[Nm]	50	100	200	400	800	1600	3200
Max. Speed		[min-1]	4150	3200	2600	2000	1700	1500	1500
Voltage		[VDC]	24	24	24	24	24	24	103,5
Power	P20	[W]	52	60	81	37	47	94	187
	A		139	173	231	260	300	360	450
	B		85	100	130	140	155	180	220
	C		90	110	155	185	220	265	318
	D* min		22	25	30	35	40	50	65
	D* max		35	45	55	65	75	90	100
	E		50	65	75	80	90	110	130
	F		62	75	90	100	115	140	150
	G		4xM6	6xM6	6xM8	6xM8	6xM10	8xM12	8xM12
	H		74	88	110	120	135	160	195
	J		18	23	105	116	133	160	197
	K		17,5	19	24,5	21	24	28	77
	L		95	110	12,5	135	155	180	250
	M		55	65	73	75	85	100	160
	N		18,5	21	25,5	41	49	55	60,4
	P		0,3	0,3	0,5	0,5	0,6	0,8	0,8
	Q		12	12	16	16	18	20	20
	R2		6	6	7	7	8	10	12
	a		-	-	10	10	10	12	15
	S		-	-	-	249	287	340	426
	U		55	68	81	90	106	126	135
	V		4	5	5	5	5	6	7
	W		12	12	16	14	15	18	20
Washer	X max		49	60	79	80	90	115	132
Inertia	❶	[kgm²]	0,00270	0,0085	0,0234	0,0635	0,124	0,313	0,781
Inertia	❷	[kgm²]	0,00335	0,0128	0,0370	0,0342	0,0736	0,2042	0,658
Weight		[kg]	5,7	10,4	20	20,8	34,5	59	120
Connection					Cable				

Indirect Drive



Connector Options
(Delivered without cable)
2 poles, capacity : 0,5/2,5mm²

Keyways according to
ISO R773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9
* Mandatory delivered with finished bores