

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

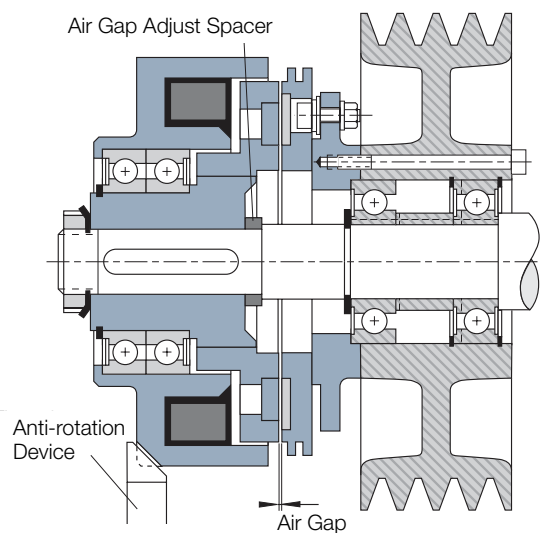
Mounting Precautions

- 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

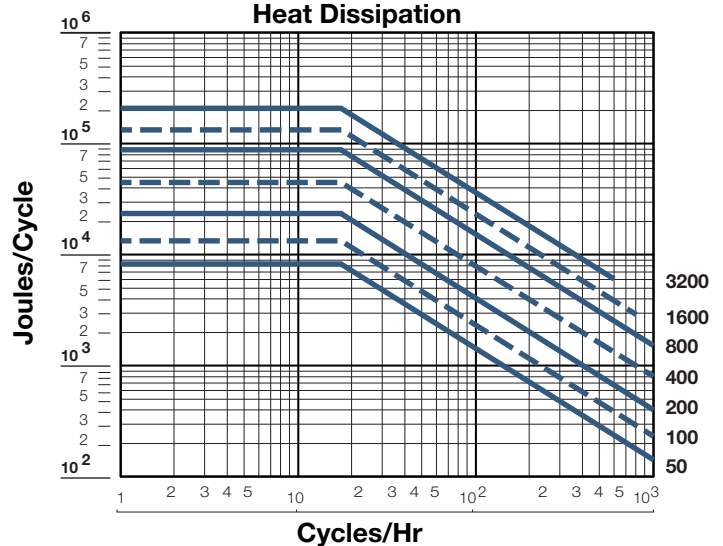
Power Supply

- 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

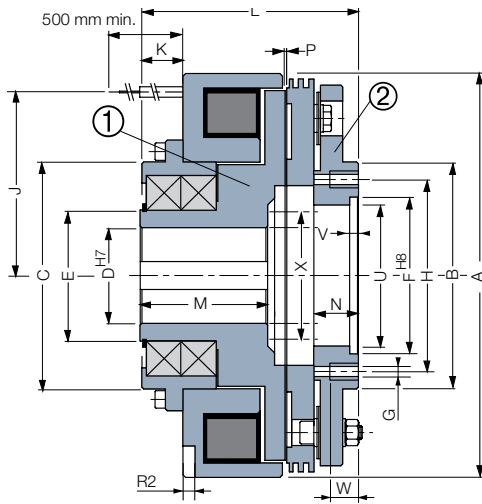
Mounting Example



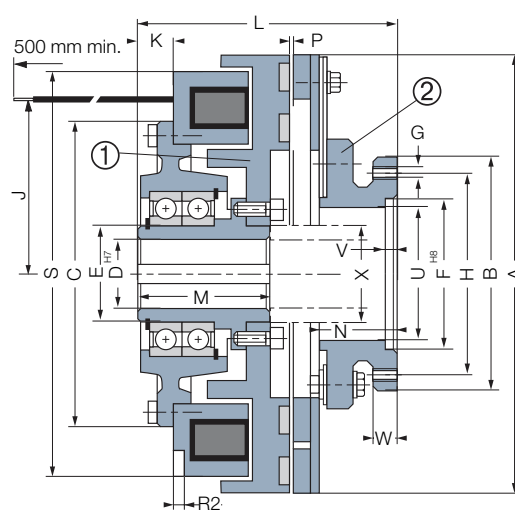
Heat Dissipation



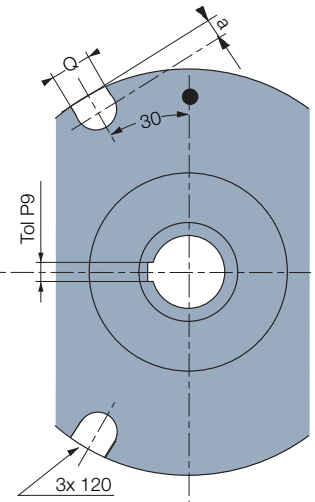
Electro-Magnetic Single Disc Clutch



Size 50 - 200

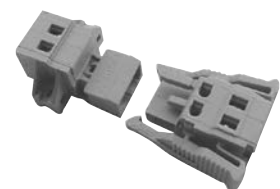


Size 400 - 3200



| 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 | ① [kgm ²] | 0,00270 | 0,0085 | 0,0234 | 0,0635 | 0,124 | 0,313 | 0,781 |
| Inertia | ② [kgm ²] | 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