

E220 VAR 05

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 two shafts in line
- From size 3200, we recommend to engage the clutch at a lower speed (about 300 min⁻¹)

Particularities

- For dry use
- No residual torque in disengaged position
- Fixed inductor mounted on ball bearings
- Equipped with an elastic coupling

Adjustments

- Does not require wear compensation

Maintenance Manual

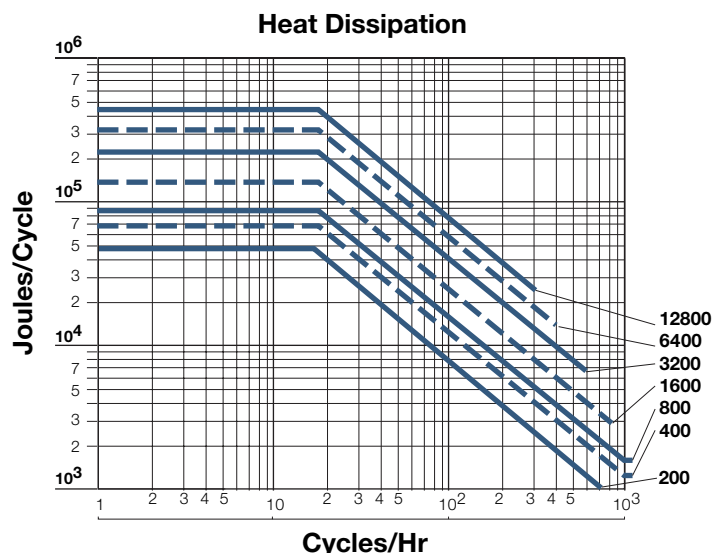
- SM 307

Mounting Precautions

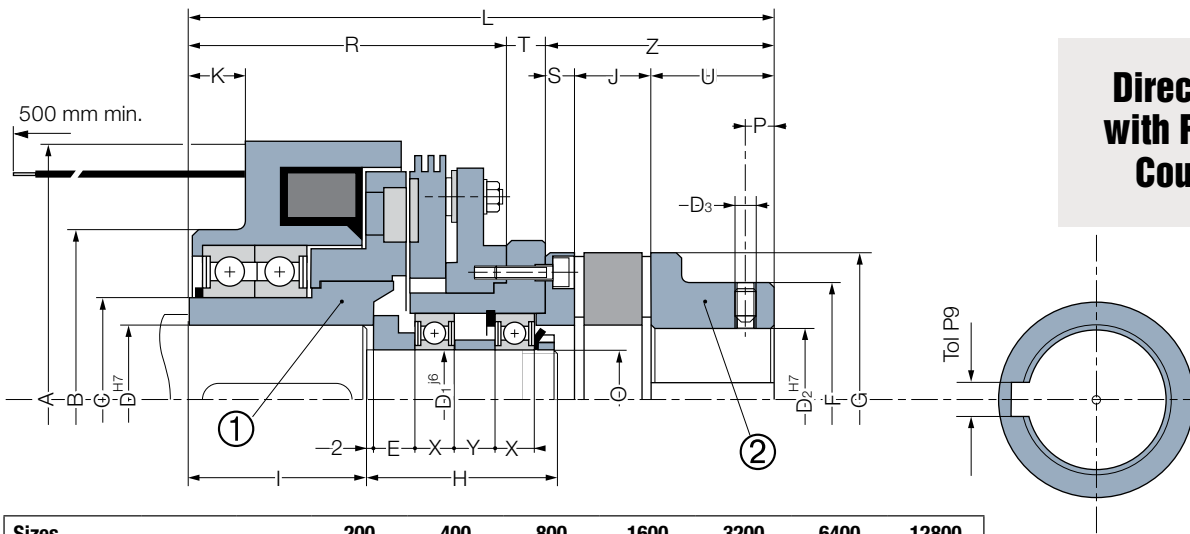
- The anti-rotation device of the electromagnet shall be inserted in anti rotation slot, with a side play of 0,5 mm and a 1 mm play to the bottom. This avoids a normal stress on the ball-bearings.
- We strongly recommend to mount a damping elastic slot in the anti-rotation device in case of vibrations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

Power Supply

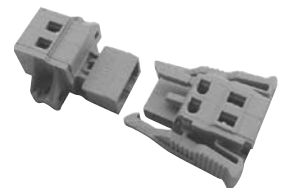
- For sizes until 1600 :
CBC 400-24 - CBC 450-24
CBC 500-24 - CBC 550-24
CBC 140-5 + CBC 140-T
- For size 3200 and up:
CBC 140-5



Electro-Magnetic Single Disc Clutch



| Sizes | | 200 | 400 | 800 | 1600 | 3200 | 6400 | 12800 |
|--------------------|-----------------------|---------|---------|---------|-------|-------|-------|--------|
| Coupling | | 55 | 65 | 75 | 90 | 100 | 125 | 180 |
| Nom. Torque | [Nm] | 200 | 400 | 800 | 1600 | 3,200 | 6,400 | 12800 |
| Max. Speed | [min.-] | 2600 | 2000 | 1700 | 1500 | 1500 | 1500 | 1500 |
| Voltage | [VDC] | 24 | 24 | 24 | 24 | 103,5 | 103,5 | 103,5 |
| Power | P20 [W] | 81 | 37 | 47 | 94 | 187 | 264 | 336 |
| | A | 231 | 260 | 300 | 360 | 450 | 560 | 700 |
| | B | 155 | 185 | 220 | 265 | 318 | 405 | 480 |
| | C | 75 | 80 | 90 | 110 | 130 | 160 | 180 |
| | D* min | 30 | 35 | 50 | 55 | 65 | 80 | 100 |
| | D* max | 55 | 65 | 75 | 90 | 100 | 120 | 130 |
| | D1 | 30 | 35 | 50 | 55 | 60 | 80 | 90 |
| | D2 min | 20 | 22 | 30 | 40 | 50 | 60 | 85 |
| | D2 max | 55 | 65 | 75 | 90 | 115 | 145 | 200 |
| | D3 | M10 | M10 | M10 | M12 | M12 | M12 | M16 |
| | E | 18 | 20 | 15 | 26 | 21,5 | 25 | 30 |
| | F | 98 | 115 | 135 | 160 | 180 | 230 | 325 |
| | G | 120 | 135 | 160 | 200 | 225 | 290 | 420 |
| | H | 79 | 87 | 99 | 112 | 125 | 150 | 178 |
| | I | 71 | 73 | 83 | 98 | 158 | 173 | 208 |
| | J | 30 | 35 | 40 | 45 | 50 | 60 | 85 |
| | K | 24,5 | 21 | 24 | 28 | 77 | 77 | 96 |
| | L | 250 | 275 | 315 | 365 | 455 | 540 | 685 |
| | O | M30X1,5 | M35X1,5 | M50X1,5 | M55X2 | M60X2 | M80X2 | M90X2 |
| | P | 20 | 20 | 20 | 30 | 30 | 30 | 40 |
| | R | 125 | 135 | 155 | 180 | 250 | 280 | 330 |
| | S | 13 | 14 | 16 | 19 | 21 | 28 | 39 |
| | T | 17 | 16 | 19 | 21 | 24 | 32 | 36 |
| | U | 65 | 75 | 85 | 100 | 110 | 140 | 195 |
| | X | 16 | 17 | 20 | 21 | 22 | 26 | 30 |
| | Y | 16 | 19 | 28 | 28 | 43 | 53 | 59 |
| | Z | 108 | 124 | 141 | 164 | 181 | 228 | 319 |
| Inertia | ① [kgm ²] | 0,0234 | 0,0635 | 0,0124 | 0,313 | 0,781 | 2,749 | 7,110 |
| Inertia | ② [kgm ²] | 0,0521 | 0,0584 | 0,12 | 0,333 | 0,901 | 2,775 | 10,080 |
| Weight | [kg] | 27,7 | 31,5 | 50,5 | 85,5 | 158 | 298 | 597 |
| Connection | Cable | | | | | | | |



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