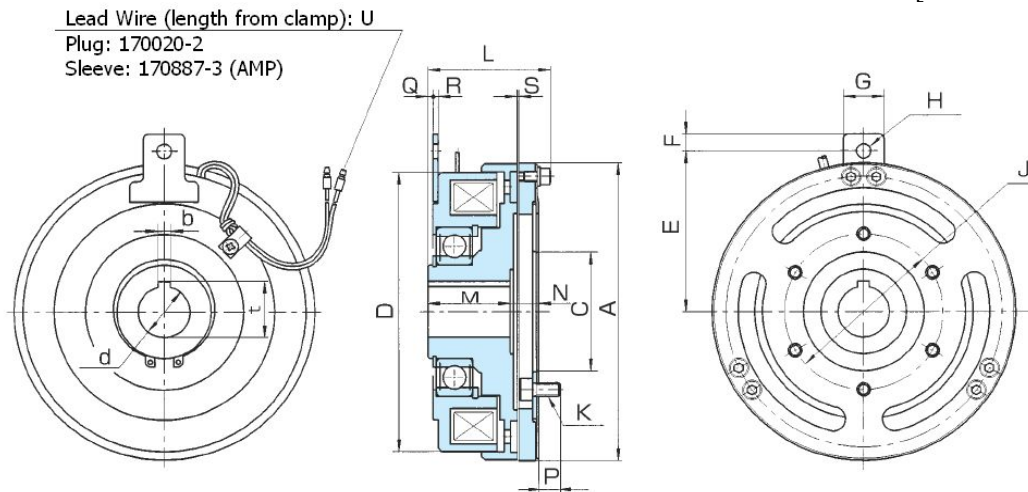


MMC

EM Clutch

Types: 5, 10, 20, 40

[EM: Electromagnet]



| MMC | | 5E | 5G | 10E | 10G | 20E | 20G | 40E | 40G |
|--|-------------------|----------------------|---------|----------------------|---------|----------------------|---------|-----------------------|-----|
| Static Torque [ft-lbs / N-m] | | 37 / 50 | | 74 / 100 | | 148 / 200 | | 295 / 400 | |
| Coil (20°C) | Voltage [DC-V] | 12 | 24 | 12 | 24 | 12 | 24 | 12 | 24 |
| | Current [A] | 2.5 | 1.26 | 2.92 | 1.46 | 4.17 | 2.09 | 5.41 | 2.7 |
| | Resistance [Ω] | 4.8 | 19 | 4.11 | 16.4 | 2.88 | 11.5 | 2.22 | 8.9 |
| | Wattage [W] | 30 | | 35 | | 50 | | 65 | |
| Armature | Pull-In Time [ms] | 50 | | 70 | | 80 | | 120 | |
| | Release Time [ms] | 90 | | 150 | | 140 | | 160 | |
| Max Allowable Speed [rpm] | | 4000 | | 3600 | | 3000 | | 3000 | |
| Moment of Inertia (J) [kg-cm ²] | Rotor | 22 | | 73 | | 221 | | 550 | |
| | Armature | 18 | | 59 | | 143 | | 380 | |
| Max Air Gap Until Adjustment [mm] | | 1.3 | | 1.3 | | 1.3 | | 1.3 | |
| Total Energy Until Adjustment [J] | | 13 x 10 ⁷ | | 20 x 10 ⁷ | | 28 x 10 ⁷ | | 40 x 10 ⁷ | |
| Total Energy Until Life [J] | | 33 x 10 ⁷ | | 50 x 10 ⁷ | | 71 x 10 ⁷ | | 100 x 10 ⁷ | |
| Bore [mm] | dH7 | 25 | | 30 | | 40 | | 50 | |
| Key Way [mm] | bE9 | 7 | | 7 | | 10 | | 15 | |
| | t+0.25/-0 | 28 | | 33 | | 43.5 | | 55 | |
| Dimensions [mm] | A | 141 | | 176 | | 221 | | 261 | |
| | CH9 | 52 | | 70 | | 92 | | 115 | |
| | D | 133 | | 165 | | 207.2 | | 243 | |
| | E | 80 | | 95 | | 120 | | 140 | |
| | F | 6 | | 10 | | 10 | | 12 | |
| | G | 16 | | 24 | | 24 | | 28 | |
| | H | 5.5 | | 8.5 | | 8.5 | | 10.5 | |
| | J | 70 | | 92 | | 118 | | 142 | |
| | K | 6xM6-12 | | 6xM8-16 | | 6xM10-20 | | 8xM10-20 | |
| | L | 56.1 | | 71.3 | | 79.8 | | 90.2 | |
| | M | 35 | | 48 | | 53 | | 65 | |
| | N | 15.5 | | 16.5 | | 18 | | 16.2 | |
| | P | 9.2 | | 12.3 | | 15.3 | | 15.1 | |
| | Q | 2 | | 3.1 | | 3.1 | | 6.8 | |
| | R | 2 | | 2.9 | | 2.9 | | 3.2 | |
| S | 0.3~0.5 | | 0.3~0.5 | | 0.4~0.6 | | 0.5~0.7 | | |
| U | 400 | | 370 | | 410 | | 380 | | |
| Weight [lbs / kg] | | 7.5 / 3.4 | | 15.0 / 6.8 | | 26.0 / 11.8 | | 43.0 / 19.5 | |

[Included parts & accessories : bolts, plug 170021-2, sleeve 170889-2 (AMP), surge protector]

[1" = 25.4mm]