Brake Data
Static friction: 1.2N·m
Voltage: 24VDC
Power: 11.2W

Technical Data
No. of poles: 6
DC Link Voltage Ue (DC Link): 300
Rated Power Pm (W): 200
Rated Torque Te (N·m): 0.64
Rated Speed n(1/min): 3000
Rated Current Ie (A): 1.63
Maximum torque Tm (N·m): 1.92
Maximum Current Im (A): 4.99
Standard torque Ts (N·m): 0.7
Standard current Is (A): 1.79
Resistance line-line Ru (Ω): 8
Inductance line-line Ll(mH): 16.3
Electrical time constant τe (ms): 2.04
Mechanical time constant τm (ms): 1.58
Voltage constant KVL(V/rpm): 25
Torque constant Kt(N·m/A): 0.48
Reversal moment of inertia J (kg·m²): 0.262
Max. voltage rating dv/dt(V/μs): 6
Insulation class: F
Max. radial force Fr(N): 180
Max. axial force Fa(N): 90
Weight (kg): 1.8

Food back device: 250kgf/servo incremental encoder
Temperature sensor: X-Axis
Cooling method: Totally enclosed fan-cooled
Protection level: IP55 (Shaft sealing IP54)

Environmental Conditions
Temperature: -20°C~+40°C
Humidity: Below 80%RH (No dewing)
Environment: For single-action gas/combustible gas/dust dispatch
Installation attitude: UP/10° to 90° with rated power, above 1000rpm: 1.2° per power decreasing per 100rpm, below 1000rpm, ≤ 3°

Rating Conditions
Mounting: Aluminum frame 25×25×6mm
Temperature: 40°C housing temperature rating of 40°C ambient

Performance Curve

DC BRUSHLESS MOTOR
EC050V"200020025065 E505281

ELMO MOTOR