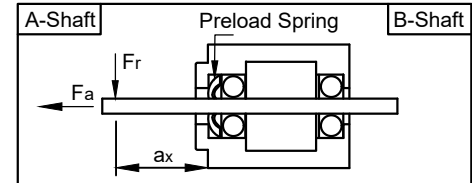


MOTOR SPECIFICATION

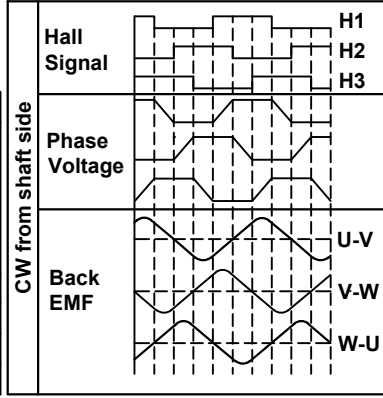
| | | |
|--------------------------------|------------------------|-------------------------|
| No. of Poles | | 6 |
| Rated Voltage | V DC | 24 |
| Current - Rated / Peak | A | 8 / 24 |
| Resistance Line to Line | ±10% Ω | 0.24 |
| Inductance Line to Line (1kHz) | ±20% mH | 0.29 |
| Torque - Rated / Peak | Nm | 0.37 / 1.11 |
| Torque Constant | Nm/A | 0.046 |
| Back-EMF Constant | V _{rms} /krpm | 3.8 |
| Rated Power | W | 135 |
| Speed - No Load / Rated | ±10% rpm | 4500 / 3500 |
| Rotor Inertia | kg m ² | 10.5 x 10 ⁻⁶ |

WIRING DIAGRAM

| | Colour | Function | Lead Gauge |
|---------------------------------|--------|----------|-----------------|
| Motor | Ye | U | UL1332 AWG18 |
| | Rd | V | |
| | Bk | W | |
| Hall 18 Impl. per Rev. | Rd | +5V | UL1430 AWG26 |
| | Bu | H1 | |
| | Gn | H2 | |
| | Wh | H3 | |
| | Bk | GND | |



| | | |
|--|----|-------|
| Max. Axial Force F_a | N | 15 |
| Max. Radial Force F_r ($a_2 = 20$ mm) | N | 75 |
| Axial Play $F_a = 40$ N | mm | 0.025 |
| Radial Play $F_r = 4.6$ N | mm | 0.025 |



GENERAL MOTOR SPECIFICATION

| | | |
|--|------|------------|
| Ambient Temperature | °C | -10 ... 50 |
| Max. Temperature Rise (at standstill) | °C | 80 |
| Max. Ambient Humidity (non condensing) | % | 85 |
| Insulation Class | | B |
| Insulation Resistance | MΩ | 100 |
| Dielectric Strength (for 1 min - coil to case) | V AC | 500 |

| ISO 8015 | ISO 1302 | ISO 2768 cK | ISO 13715 | Date | Name |
|----------|--------------------------|-------------|-----------|------------|-----------|
| | | | | 04.12.2017 | Import |
| 04 | change speed, no load | Schneid_A | Checked | 13.09.2018 | Knoll_J |
| 03 | change depth thread M2.5 | | Approved | 13.09.2018 | Schneid_A |
| 02 | change speed, no load | | | 13.09.2018 | |
| REV | Rev. Text | Name | Rel. Date | | |



| | |
|------------------|---------|
| Weight: ~0.65 kg | |
| DB59M024035-B3 | |
| 03000112 | |
| State: Released | Rev: 04 |
| CONFIDENTIAL | |