



| MOTOR SPECIFICATION          |                   |                        |
|------------------------------|-------------------|------------------------|
| Voltage                      | V DC              | 6.2                    |
| Current per Winding          | A                 | 0.67                   |
| Resistance per Phase (25°C)  | ±15% Ω            | 9.2                    |
| Inductance per Phase (1 kHz) | ±20% mH           | 8.4                    |
| Holding Torque               | Nm                | 0.18                   |
| Step Angle                   | ±5% °             | 1.8                    |
| Rotor Inertia                | kg m <sup>2</sup> | 1.8 × 10 <sup>-6</sup> |

| GENERAL MOTOR SPECIFICATION                                |      |            |
|--|------|------------|
| Ambient Temperature  | °C   | -20 ... 50 |
| Max. Temperature Rise (at standstill - 2 phases energized) | °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        |

| TYPE OF CONNECTION |         |           |          |
|--------------------|---------|-----------|----------|
| Bipolar            | Pin No. | Wire Col. | Winding  |
| A                  | 1       | BK        | [Symbol] |
| A\                 | 3       | GN        |          |
| B                  | 4       | RD        | [Symbol] |
| B\                 | 6       | BU        |          |

| A-Shaft                          |            | Preload Spring |  | B-Shaft |  |
|----------------------------------|------------|----------------|--|---------|--|
| Fa                               | Fr         |                |  |         |  |
| Max. Axial Force Fa              | N          |                |  | 7.0     |  |
| Max. Radial Force Fr (a1 = 5 mm) | N          |                |  | 28 max. |  |
| Axial Play                       | Fa = 4.0 N | mm             |  | 0.08    |  |
| Radial Play                      | Fr = 4.0 N | mm             |  | 0.02    |  |

| ISO 8015 | ISO 1302         | ISO 2768 cK | ISO 13715  | Weight: ~0.2 kg |                      |
|----------|------------------|-------------|------------|-----------------|----------------------|
|          |                  |             | Date       | Name            | <b>SC2818L0604-B</b> |
|          |                  |             | Drawn      | Schneid_A       |                      |
|          |                  |             | Reviewed   | Reith_S         |                      |
|          |                  |             | Released   | Reith_S         |                      |
| 01       | adjust dimension | Schneid_A   | 23.02.2023 | 20001892        |                      |
| REV      | Rev. Text        | Name        | Date       | State: Released |                      |
|          |                  |             |            | Rev: 01         | CONFIDENTIAL         |