



| MOTOR SPECIFICATION          |                     |                       |
|------------------------------|---------------------|-----------------------|
| Voltage                      | V DC                | 2.3                   |
| Current per Winding          | A                   | 4.2                   |
| Resistance per Phase (25°C)  | $\pm 15\%$ $\Omega$ | 0.55                  |
| Inductance per Phase (1 kHz) | $\pm 20\%$ mH       | 2.1                   |
| Holding Torque               | Nm                  | 2.3                   |
| Step Angle                   | $\pm 5\%$ °         | 1.8                   |
| Rotor Inertia                | kg m <sup>2</sup>   | 48 x 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                                      | M $\Omega$ | 100        |
| Dielectric Strength (for 1 min - coil to case)             | V AC       | 500        |

| TYPE OF CONNECTION |         |          |
|--------------------|---------|----------|
| Bipolar            | Pin No. | Winding  |
| A                  | 1       | [Symbol] |
| A\                 | 3       |          |
| B                  | 4       | [Symbol] |
| B\                 | 6       |          |

| A-Shaft                                  |               | Preload Spring |      | B-Shaft |  |
|------------------------------------------|---------------|----------------|------|---------|--|
| Max. Axial Force $F_a$                   | N             | 15             |      |         |  |
| Max. Radial Force $F_r$ ( $a_2 = 20$ mm) | N             | 75             |      |         |  |
| Axial Play                               | $F_a = 4.5$ N | mm             | 0.08 |         |  |
| Radial Play                              | $F_r = 4.5$ N | mm             | 0.02 |         |  |

| ISO 8015 | ISO 1302  | ISO 2768 cK | ISO 13715 | Weight: ~1.1 kg |                       |           |
|----------|-----------|-------------|-----------|-----------------|-----------------------|-----------|
|          |           |             | Date      | Name            | <b>SCA5618L4204-L</b> |           |
|          |           |             | Drawn     | 29.06.2021      |                       | Schneid_A |
|          |           |             | Reviewed  | 02.07.2021      |                       | Strempe_A |
|          |           |             | Released  | 02.07.2021      |                       | Strempe_A |
| REV      | Rev. Text | Name        | Date      | <b>20001097</b> |                       |           |
|          |           |             |           | State: Released | Rev: 00 CONFIDENTIAL  |           |

