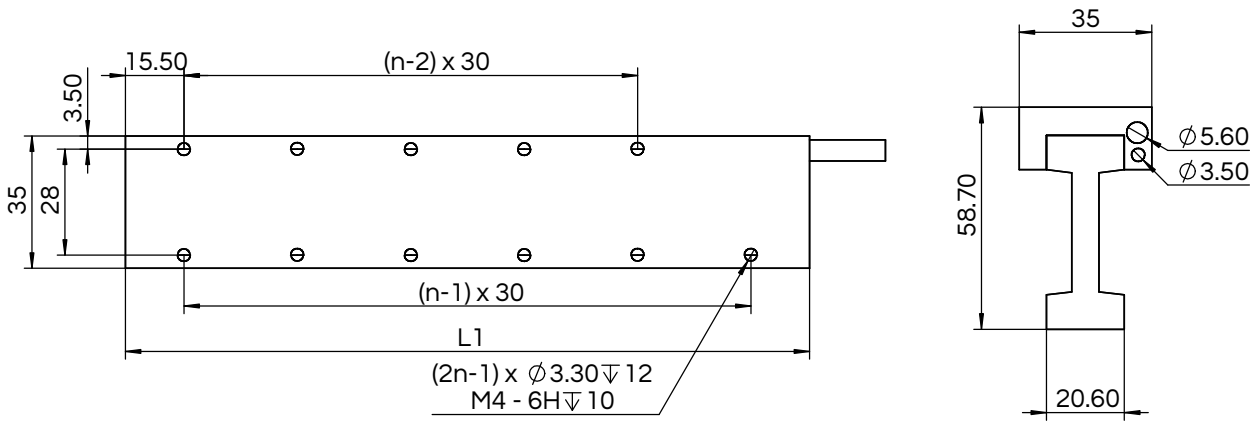
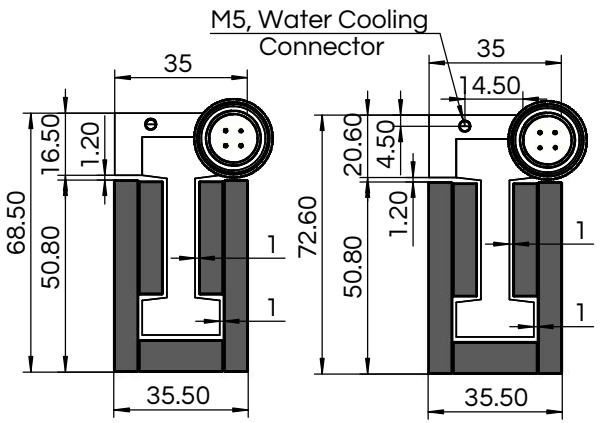



## Motor Assembly




| Forcer | Dimensional Variations | |
|---|---|---|
| | $L_1$ | n |
| TUM3-S4 | 241 | 8 |
| TUM3-S6 | 361 | 12 |

| Technical data | Unit | TUM3-S4 | TUM3-S6 | |
|---|---|---|---|---|
| | | Series | Series | Parallel |
| Continuous force | N | 119.3 | 179 | 179 |
| Continuous force（Water-cooled) | N | 152.4 | 228.7 | 228.7 |
| Peak force | N | 608.4 | 912.9 | 912.9 |
| Force constant ±10% | N/Arms | 66.3 | 99.4 | 49.7 |
| Back EMF constant | Vpeak/(m/s) | 54.3 | 81.5 | 40.8 |
| Motor constant at 25°C | N/Sqrt(w) | 11.3 | 14 | 14 |
| Resistance at 25°C | Ω | 17.1 | 25.2 | 6.3 |
| Inductance ±35% | mH | 12.4 | 18.3 | 4.6 |
| Electrical time constant | ms | 0.7 | 0.7 | 0.7 |
| Continuous current | Arms | 1.8 | 1.8 | 3.6 |
| Continuous current（Water-cooled） | Arms | 2.3 | 2.3 | 4.6 |
| Peak current | Arms | 9.4 | 9.4 | 18.8 |
| Continuous power dissipation at 100°C | W | 111 | 163.3 | 163.3 |
| Max. winding temperature | °C | 100 | 100 | 100 |
| Thermal dissipation constant | W/°C | 1.5 | 2.1 | 2.1 |
| Max. DC bus voltage | V | 310 | 310 | 310 |
| Magnetic period | mm | 60 | 60 | 60 |
| Attraction force | kN | 0 | 0 | 0 |
| Weight of forcer | kg | 0.87 | 1.29 | 1.29 |
| Length of forcer | mm | 241 | 361 | 361 |
| Unit mass of stator | kg/m | 8.9 | 8.9 | 8.9 |
| Insulation class | - | B | | |
| Protection class | - | IP00 | | |
| Operating temperature | °C | 0 to 45 | | |
| Storage temperature | °C | -15 to 75 | | |

Note:
1.Specifications are measured at an ambient temperature of 25°C and depend on the heat dissipation conditions.
2.Resistance is measured with DC current and includes a standard cable length of 0.5 m.
3.Inductance is measured at a frequency of 1 kHz.
4.Specifications are subject to change without prior notice.
5.Standard cable lengths: 0.5 m and 3 m. Custom lengths on request.

| Wiring Definition | Installation Instructions | Maintenance Instructions |
|---|---|---|
| | | |

| ITEM | DATE | MODIFIED | DESCRIPTION | APPD |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TKL | SCALE | UNIT | | | | | | | | Model | TUM3-S4/S6 | | | | |
| | 1:X | mm | | | | | | | | Desc | Forcer unit | | | | |
| | GENERAL TOLERANCE | | | | | | | | | Surface | | | DRN | Tang | |
| | Up to 6 | 6 30 | 30 120 | 120 300 | 300 600 | | | | | DWG.NO | | | CHK | Chen | |
| | ±0.1 | ±0.2 | ±0.3 | ±0.4 | ±0.5 | | | | | Sheet | 1-1 | | APPD | Le | |
| TKOOLLE MOTION CONTROL INTERNATIONAL CO.,LIMITED | | | | | | | | | | DATE | 17-Jul-25 | | | | |