

ZDSC0606

INDUSTRIAL ROBOT

| | | |
|------------------------------|---------|------------------------------------|
| Robot model | | ZDSC0606 |
| Freedom | | 4 |
| Position | | Ground installation |
| Maximum operating speed | J1 Axis | 375° /sec |
| | J2 Axis | 370° /sec |
| | J3 Axis | 1100° /sec |
| | J4 Axis | 2000° /sec |
| Maximum operating range | J1 Axis | ± 135° |
| | J2 Axis | ± 150° |
| | J3 Axis | 200mm |
| | J4 Axis | ± 360° |
| Maximum activity radius | | 600mm |
| Load rating | | 3Kg |
| Maximum load value | | 6Kg |
| Body weight | | About 20kg |
| Allowable moment of inertia | J4 | 0.12kg·m ² |
| Repeatability | | ± 0.03mm |
| Robot base size | | 180x260mm |
| Ambient temperature | | 0~45℃ |
| Relative humidity | | 20~80%RH |
| Atmospheric pressure | | 89KPa~106KPa(Altitude below 1000m) |
| Vibration, impact, collision | | ≤0.5G |
| Protection grade | | IP20 |

● Joint coupling

| Joint | J1-J2 | J2-J3 | J3-J4 |
|--|-------|-------|-------|
| Coupling relationship equation (Coupling coefficient) | / | / | -1 |

● Reducer parameters

| Model | J1 (25 Harmonic) | J2 (25 Harmonic) | J3 (Ball screw pair) | J4 (Ball screw pair) |
|-------|------------------|------------------|----------------------|----------------------|
| | | | | |

| | | | | |
|---|-----|-----|-------------------------------------|----|
| Reducer reduction ratio | 80 | 80 | Reduction ratio: 1.5 Pitch: 20mm | 15 |
| Comprehensive reduction ratio | 80 | 80 | Reduction ratio: 1.5 Pitch: 20mm | 15 |
| Rated output speed(r/min) | / | / | / | / |
| Rated torque(N • m) | 39 | 39 | / | / |
| Permissible torque for starting and stopping(N • m) | 98 | 98 | / | / |
| Instantaneous maximum torque(N • m) | 186 | 186 | / | / |
| Moment rigidity(N • m) | / | / | / | / |
| Instantaneous maximum torque(N • m) | / | / | / | / |

● Motor parameters

| Joint | J1 | J2 | J3 | J4 |
|---|---|------|-------|-------|
| Motor model | 60 | 60 | 60 | 60 |
| Rated power(kW) | 0.4 | 0.4 | 0.2 | 0.2 |
| Rated voltage(V) | 220 | | | |
| Rated current(A) | 2.6 | 2.6 | 1.4 | 1.4 |
| Rated torque(N • m) | 1.27 | 1.27 | 0.63 | 0.63 |
| Rated speed(r/min) | 3000 | 3000 | 3000 | 3000 |
| Maximum speed(r/min) | 5000 | 5000 | 5000 | 5000 |
| Rotor inertia(*10e-4kgm ²) | 0.4 | 0.4 | 0.216 | 0.216 |
| Line back electromotive force coefficient(V/Krpm) | 33 | 33 | 49.2 | 49.2 |
| Number of pole pairs | 5 | | | |
| Encoder | 17 bit multi turn insulation value Tamagawa agreement | | | |