RF04-N Rotary type / Limit rotation specification

Ordering method

**RF04**
- Return-to-origin method
  - Cable entry location [1]
  - Robot positioner [2]
  - Front from the right
  - Rear from the left
- Robot length [3]
- Cable length [1]
- Battery
- Rotation range : 320°

Basic specifications

- **Motor**
  - 42/1 Step motor
- **Resolution (Pulse/rotation)**
  - 20480
- **Repeatability**
  - +/-0.05
- **Drive method**
  - Special warm gear + belt
- **Torque type**
  - Standard / High torque
- **Maximum speed**
  - 20480 (°/sec)
- **Rotating torque**
  - 6.6 / 10 (N•m)
- **Max. pushing torque**
  - 3.3 / 5 (N•m)
- **Backlash**
  - +/-0.5
- **Max. moment of inertia**
  - 0.04 / 0.1 (kg•m²)
- **Cable length**
  - Standard / Option: 3, 5, 10
- **Rotation range**
  - 320°

Effective torque vs. speed

- **Effective torque**
  - T (N•m)
- **Effective speed**
  - ω (°/sec)

Allowable load

- **Allowable load**
  - (b) Allowable Motor load (P)
  - (a) Allowable Motor load limit (P)
  - (b) Allowable Moment (N•m)

Controller

- **Controller**
  - TS-S2
  - TS-SH
  - TS-SD
- **Operation method**
  - I/O point trace / Remote command
  - Pulse train control

Note 1. This drawing is output under the conditions below.
- Be careful not to interfere with the workpiece or equipment around the table.
- When purchasing the product, set the controller acceleration while carefully checking the “Moment of inertia vs. Acceleration/Deceleration” and “Effective torque vs. Speed” graphs.
- For details, see the TRANSERVO Series User’s Manual.
RF04-NH  Limit rotation specification – High rigidity model

1. Table movable range by return-to-origin operation. Be careful not to interfere with the workpiece or equipment around the table.
2. Return-to-origin position
3. Values and characters in [ ] show those when the return-to-origin direction is changed.

Note 1. This drawing is output under the conditions below.
Bearing .......................... High rigidity
Torque ........................... Standard/High torque

Note 2. The minimum bending radius of the motor cable is R30.