ELECTROMAGNETIC MICRO CLUTCHES

# 102(13/15/11) - Datasheet
## FLANGE-MOUNTED TYPE

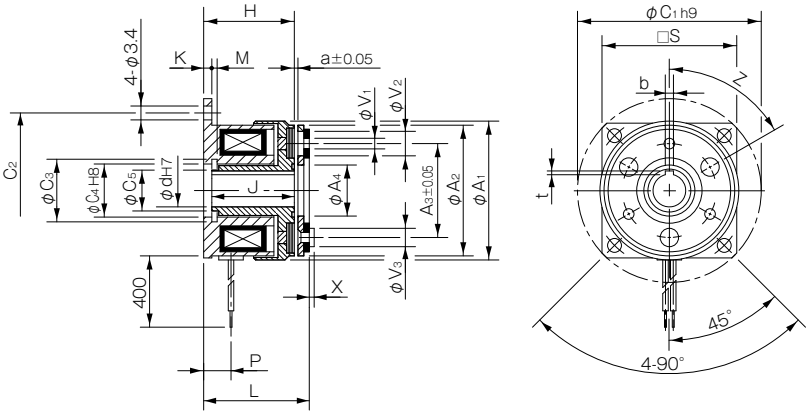
## Specifications

| Model | Size | Dynamic friction torque $T_d$ [N·m] | Coil [at 20 ℃] | | | | Heat resistance class | Lead wire | | Max. rotation speed [min$^{-1}$] | Rotating part moment of inertia J | | Allowable engaging energy rate $E_{ea\ell}$ [J] | Total work performed until readjustment of the air gap $E_T$ [J] | Armature pull-in time $t_a$ [s] | Torque build-up time $t_p$ [s] | Torque decrease time $t_d$ [s] | Mass [kg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Voltage [V] | Wattage [W] | Current [A] | Resistance [Ω] | | UL style | Size | | Armature [kg·m$^2$] | Rotor [kg·m$^2$] | | | | | | |
| 102-02-13 | | | | | | | | | | 10000 | $6.75 \times 10^{-7}$ | | | | | | | 0.075 |
| 102-02-15 | 02 | 0.4 | DC24 | 6 | 0.25 | 96 | B | UL3398 | AWG26 | 500 | $1.00 \times 10^{-6}$ | $2.45 \times 10^{-6}$ | 1500 | $2 \times 10^6$ | 0.009 | 0.019 | 0.017 | 0.081 |
| 102-02-11 | | | | | | | | | | 10000 | $1.00 \times 10^{-6}$ | | | | | | | 0.079 |
| 102-03-13 | | | | | | | | | | 10000 | $1.30 \times 10^{-6}$ | | | | | | | 0.096 |
| 102-03-15 | 03 | 0.6 | DC24 | 6 | 0.25 | 96 | B | UL3398 | AWG26 | 500 | $1.95 \times 10^{-6}$ | $3.25 \times 10^{-6}$ | 2300 | $3 \times 10^6$ | 0.009 | 0.022 | 0.020 | 0.105 |
| 102-03-11 | | | | | | | | | | 10000 | $1.95 \times 10^{-6}$ | | | | | | | 0.103 |
| 102-04-13 | | | | | | | | | | 10000 | $4.38 \times 10^{-6}$ | | | | | | | 0.178 |
| 102-04-15 | 04 | 1.2 | DC24 | 8 | 0.33 | 72 | B | UL3398 | AWG26 | 500 | $6.15 \times 10^{-6}$ | $1.41 \times 10^{-5}$ | 4500 | $6 \times 10^6$ | 0.011 | 0.028 | 0.030 | 0.195 |
| 102-04-11 | | | | | | | | | | 10000 | $6.15 \times 10^{-6}$ | | | | | | | 0.191 |
| 102-05-13 | | | | | | | | | | 10000 | $9.08 \times 10^{-6}$ | | | | | | | 0.310 |
| 102-05-15 | 05 | 2.4 | DC24 | 10 | 0.42 | 58 | B | UL3398 | AWG22 | 500 | $1.38 \times 10^{-5}$ | $3.15 \times 10^{-5}$ | 9000 | $9 \times 10^6$ | 0.012 | 0.031 | 0.040 | 0.335 |
| 102-05-11 | | | | | | | | | | 10000 | $1.38 \times 10^{-5}$ | | | | | | | 0.325 |

- The dynamic friction torque, $T_d$, is measured at a relative speed of 100 min$^{-1}$.
- The moment of inertia of a rotating body and mass are specified for the maximum bore diameter.
- Keep supply voltage fluctuation to within 10% of coil voltage. In case of use, the current feed may only be ≤ 80% of the operating time.

## Dimensions (102-□-13)

### For direct mounting




Unit [mm]

| Size | Shaft bore dimensions | | | | |
|---|---|---|---|---|---|
| | $d_1$ H7 | Models compliant with JIS standards | | Models compliant with the old JIS standards | |
| | | b P9 | t | b E9 | t |
| 02 | 5 | – | – | – | – |
| 03 | 6 | 2 -0.006 -0.031 | 0.8 +0.3 0 | – | – |
| 04 | 8 | 2 -0.006 -0.031 | 0.8 +0.3 0 | – | – |
| | 10 | 3 -0.006 -0.031 | 1.2 +0.3 0 | 4 +0.050 +0.020 | 1.5 +0.5 0 |
| 05 | 10 | 3 -0.006 -0.031 | 1.2 +0.3 0 | 4 +0.050 +0.020 | 1.5 +0.5 0 |
| | 15 | 5 -0.012 -0.042 | 2 +0.5 0 | 5 +0.050 +0.020 | 2 +0.5 0 |

Unit [mm]

| Size | Radial directions dimensions | | | | | | | | | | | | | | Axial directions dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $A_1$ | $A_2$ | $A_3$ | $A_4$ | $C_1$ | $C_2$ | $C_3$ | $C_4$ | $C_5$ | S | $V_1$ | $V_2$ | $V_3$ | Z | H | J | K | L | P | M | a | X |
| 02 | 31 | 28 | 19.5 | 10.7 | 39 | 33.5 | 11.4 | 11 | 8 | – | 2-2.1 | 2-5.3 | 2-3.7 | 4-90° | 18 | 16.5 | 1.5 | 20.4 | 4.9 | 1.1 | 0.1 | 0.8 |
| 03 | 34 | 32 | 23 | 12.5 | 45 | 38 | 13.6 | 13 | 10 | 33 | 3-2.6 | 3-6 | 3-4.5 | 6-90° | 22.2 | 20.2 | 2 | 24.5 | 6.7 | 1.3 | 0.15 | 1.2 |
| 04 | 43 | 40 | 30 | 18.5 | 54 | 47 | 20 | 19 | 15.5 | 41 | 3-3.1 | 3-6 | 3-5 | 6-90° | 25.4 | 23.4 | 2 | 28.1 | 7.2 | 1.3 | 0.15 | 1.6 |
| 05 | 54 | 50 | 38 | 25.5 | 65 | 58 | 27.2 | 26 | 22 | 51 | 3-3.1 | 3-6.5 | 3-5.5 | 6-90° | 28.1 | 26.1 | 2 | 31.3 | 8.2 | 1.5 | 0.2 | 1.5 |

- Size 02 is a rounded flange.
- The rotor of size 02 has no keyway. Lock it in place by press-fitting it onto the shaft.

### How to Place an Order

102-03-13 24V 6DIN

- 102-03-13: Size / Rotor bore diameter (dimensional symbol d)
- 6DIN: Keyway standards — DIN: Compliant with JIS standards P9; JIS: Compliant with the old JIS standards (class 2) E9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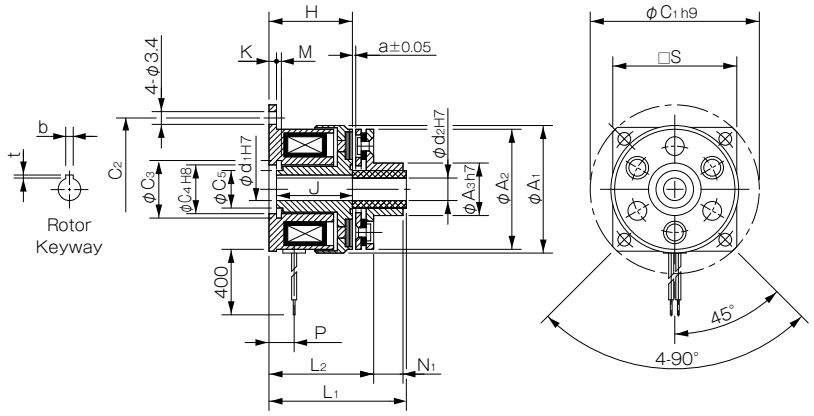
## Dimensions (102-□-15)

### For through-shafts




Unit [mm]

| Size | Shaft bore dimensions | | | | | |
|---|---|---|---|---|---|---|
| | $d_1$ H7 | $d_2$ H7 | Models compliant with JIS standards | | Models compliant with the old JIS standards | |
| | | | b P9 | t | b E9 | t |
| 02 | 5 | 5 | – | – | – | – |
| 03 | 6 | 6 | 2 $^{-0.006}_{-0.031}$ | 0.8 $^{+0.3}_{0}$ | – | – |
| 04 | 8 | 8 | 2 $^{-0.006}_{-0.031}$ | 0.8 $^{+0.3}_{0}$ | – | – |
| | 10 | 10 | 3 $^{-0.006}_{-0.031}$ | 1.2 $^{+0.3}_{0}$ | 4 $^{+0.050}_{+0.020}$ | 1.5 $^{+0.5}_{0}$ |
| 05 | 10 | 10 | 3 $^{-0.006}_{-0.031}$ | 1.2 $^{+0.3}_{0}$ | 4 $^{+0.050}_{+0.020}$ | 1.5 $^{+0.5}_{0}$ |
| | 15 | 15 | 5 $^{-0.012}_{-0.042}$ | 2 $^{+0.5}_{0}$ | 5 $^{+0.050}_{+0.020}$ | 2 $^{+0.5}_{0}$ |

Unit [mm]

| Size | Radial directions dimensions | | | | | | | | | Axial directions dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $A_1$ | $A_2$ | $A_3$ | $C_1$ | $C_2$ | $C_3$ | $C_4$ | $C_5$ | S | H | J | K | $L_1$ | $L_2$ | M | P | $N_1$ | a |
| 02 | 31 | 28 | 13 | 39 | 33.5 | 11.4 | 11 | 8 | – | 18 | 16.5 | 1.5 | 27.7 | 22.4 | 1.1 | 4.9 | 4.8 | 0.1 |
| 03 | 34 | 32 | 14 | 45 | 38 | 13.6 | 13 | 10 | 33 | 22.2 | 20.2 | 2 | 34.5 | 26.5 | 1.3 | 6.7 | 7.8 | 0.15 |
| 04 | 43 | 40 | 18 | 54 | 47 | 20 | 19 | 15.5 | 41 | 25.4 | 23.4 | 2 | 40.2 | 30.8 | 1.3 | 7.2 | 9.1 | 0.15 |
| 05 | 54 | 50 | 28 | 65 | 58 | 27.2 | 26 | 22 | 51 | 28.1 | 26.1 | 2 | 43.3 | 34.3 | 1.5 | 8.2 | 8.8 | 0.2 |

• Size 02 is a rounded flange.
• The rotor of size 02 has no keyway. Lock it in place by press-fitting it onto the shaft.

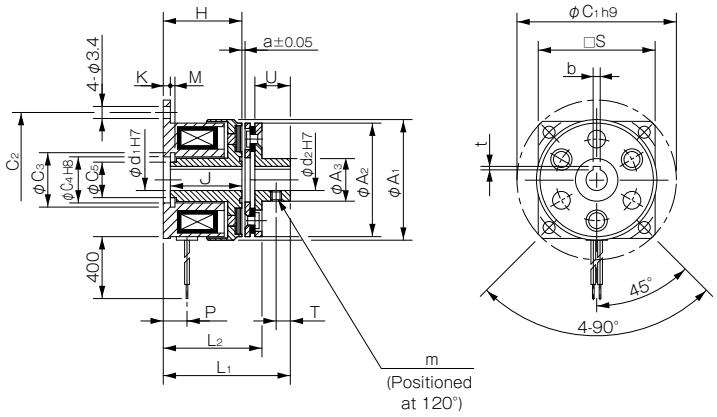
**How to Place an Order**

102-03-15 24V R6DIN A6

- 102-03-15: Size
- 15: Rotor bore diameter (dimensional symbol d1)
- R6DIN: Keyway standards — DIN: Compliant with JIS standards P9; JIS: Compliant with the old JIS standards (class 2) E9
- A6: Armature bore diameter (dimensional symbol d2)

## Dimensions (102-□-11)

### For butt shafts




Unit [mm]

| Size | Shaft bore dimensions | | | | | |
|---|---|---|---|---|---|---|
| | $d_1$ H7 | $d_2$ H7 | Models compliant with JIS standards | | Models compliant with the old JIS standards | |
| | | | b P9 | t | b E9 | t |
| 02 | 5 | 5 | – | – | – | – |
| 03 | 6 | 6 | 2 $^{-0.006}_{-0.031}$ | 0.8 $^{+0.3}_{0}$ | – | – |
| 04 | 8 | 8 | 2 $^{-0.006}_{-0.031}$ | 0.8 $^{+0.3}_{0}$ | – | – |
| | 10 | 10 | 3 $^{-0.006}_{-0.031}$ | 1.2 $^{+0.3}_{0}$ | 4 $^{+0.050}_{+0.020}$ | 1.5 $^{+0.5}_{0}$ |
| 05 | 10 | 10 | 3 $^{-0.006}_{-0.031}$ | 1.2 $^{+0.3}_{0}$ | 4 $^{+0.050}_{+0.020}$ | 1.5 $^{+0.5}_{0}$ |
| | 15 | 15 | 5 $^{-0.012}_{-0.042}$ | 2 $^{+0.5}_{0}$ | 5 $^{+0.050}_{+0.020}$ | 2 $^{+0.5}_{0}$ |

Unit [mm]

| Size | Radial directions dimensions | | | | | | | | | | Axial directions dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $A_1$ | $A_2$ | $A_3$ | $C_1$ | $C_2$ | $C_3$ | $C_4$ | $C_5$ | S | m | H | J | K | $L_1$ | $L_2$ | M | P | U | T | a |
| 02 | 31 | 28 | 9.5 | 39 | 33.5 | 11.4 | 11 | 8 | – | M3 | 18 | 16.5 | 1.5 | 27.4 | 22.4 | 1.1 | 4.9 | 7 | 2.5 | 0.1 |
| 03 | 34 | 32 | 12 | 45 | 38 | 13.6 | 13 | 10 | 33 | 2-M3 | 22.2 | 20.2 | 2 | 34.5 | 26.5 | 1.3 | 6.7 | 10 | 4 | 0.15 |
| 04 | 43 | 40 | 17 | 54 | 47 | 20 | 19 | 15.5 | 41 | 2-M3 | 25.4 | 23.4 | 2 | 40.1 | 30.8 | 1.3 | 7.2 | 12 | 5 | 0.15 |
| 05 | 54 | 50 | 24 | 65 | 58 | 27.2 | 26 | 22 | 51 | 2-M4 | 28.1 | 26.1 | 2 | 43.3 | 34.3 | 1.5 | 8.2 | 12 | 5 | 0.2 |

• Size 02 is a rounded flange.
• The rotor of size 02 has no keyway. Lock it in place by press-fitting it onto the shaft.

**How to Place an Order**

102-03-11 24V R6DIN A6DIN

- 102-03-11: Size
- 11: Rotor bore diameter (dimensional symbol d1)
- R6DIN: Keyway standards — DIN: Compliant with JIS standards P9; JIS: Compliant with the old JIS standards (class 2) E9
- A6DIN: Armature bore diameter (dimensional symbol d2)
- Keyway standards — DIN: Compliant with JIS standards P9; JIS: Compliant with the old JIS standards (class 2) E9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ELECTROMAGNETIC MICRO CLUTCHES

# 102(33/35/31) – Datasheet
## BEARING-MOUNTED TYPE

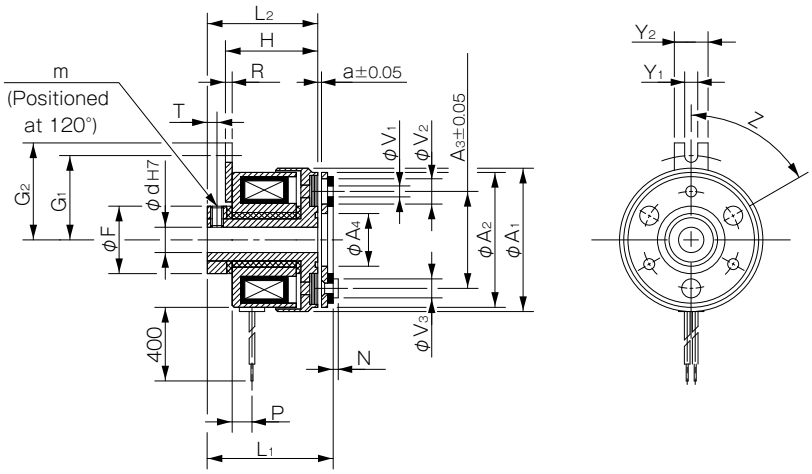
## Specifications

| Model | Size | Dynamic friction torque $T_d$ [N·m] | Coil [at 20 ℃] | | | | Heat resistance class | Lead wire | | Max. rotation speed [min$^{-1}$] | Rotating part moment of inertia J | | Allowable engaging energy rate $E_{ea\ell}$ [J] | Total work performed until readjustment of the air gap $E_T$ [J] | Armature pull-in time $t_a$ [s] | Torque build-up time $t_p$ [s] | Torque decrease time $t_d$ [s] | Mass [kg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Voltage [V] | Wattage [W] | Current [A] | Resistance [Ω] | | UL style | Size | | Armature [kg·m$^2$] | Rotor [kg·m$^2$] | | | | | | |
| 102-02-33 | | | | | | | | | | | $6.75 \times 10^{-7}$ | | | | | | | 0.076 |
| 102-02-35 | 02 | 0.4 | DC24 | 6 | 0.25 | 96 | B | UL3398 | AWG26 | 500 | $1.00 \times 10^{-6}$ | $2.75 \times 10^{-6}$ | 1500 | $2 \times 10^6$ | 0.009 | 0.019 | 0.017 | 0.082 |
| 102-02-31 | | | | | | | | | | | $1.00 \times 10^{-6}$ | | | | | | | 0.080 |
| 102-03-33 | | | | | | | | | | | $1.30 \times 10^{-6}$ | | | | | | | 0.101 |
| 102-03-35 | 03 | 0.6 | DC24 | 6 | 0.25 | 96 | B | UL3398 | AWG26 | 500 | $1.95 \times 10^{-6}$ | $4.08 \times 10^{-6}$ | 2300 | $3 \times 10^6$ | 0.009 | 0.022 | 0.020 | 0.110 |
| 102-03-31 | | | | | | | | | | | $1.95 \times 10^{-6}$ | | | | | | | 0.108 |
| 102-04-33 | | | | | | | | | | | $4.38 \times 10^{-6}$ | | | | | | | 0.183 |
| 102-04-35 | 04 | 1.2 | DC24 | 8 | 0.33 | 72 | B | UL3398 | AWG26 | 500 | $6.15 \times 10^{-6}$ | $1.44 \times 10^{-5}$ | 4500 | $6 \times 10^6$ | 0.011 | 0.028 | 0.030 | 0.200 |
| 102-04-31 | | | | | | | | | | | $6.15 \times 10^{-6}$ | | | | | | | 0.196 |
| 102-05-33 | | | | | | | | | | | $9.08 \times 10^{-6}$ | | | | | | | 0.321 |
| 102-05-35 | 05 | 2.4 | DC24 | 10 | 0.42 | 58 | B | UL3398 | AWG22 | 600 | $1.38 \times 10^{-5}$ | $2.90 \times 10^{-5}$ | 9000 | $9 \times 10^6$ | 0.012 | 0.031 | 0.040 | 0.346 |
| 102-05-31 | | | | | | | | | | | $1.38 \times 10^{-5}$ | | | | | | | 0.336 |

- The dynamic friction torque, $T_d$, is measured at a relative speed of 100 min$^{-1}$.
- The moment of inertia of a rotating body and mass are specified for the maximum bore diameter.
- Keep supply voltage fluctuation to within 10% of coil voltage. In case of use, the current feed may only be ≤ 80% of the operating time.

## Dimensions (102-□-33)

### For direct mounting




Unit [mm]

| Size | Shaft bore dimensions |
|---|---|
| | d H7 |
| 02 | 5 |
| 03 | 6 |
| 04 | 8<br>10 |
| 05 | 10<br>15 |

Unit [mm]

| Size | Radial directions dimensions | | | | | | | | | | | | | | Axial directions dimensions | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $A_1$ | $A_2$ | $A_3$ | $A_4$ | F | $V_1$ | $V_2$ | $V_3$ | $G_1$ | $G_2$ | $Y_1$ | $Y_2$ | Z | m | H | R | $L_1$ | $L_2$ | P | N | T | a |
| 02 | 31 | 28 | 19.5 | 10.7 | 14 | 2-2.1 | 2-5.3 | 2-3.7 | 15.8 | 19.8 | 3.1 | 8 | 4-90° | 2-M3 | 19.1 | 1.2 | 25.9 | 23.5 | 4.9 | 0.8 | 2.5 | 0.1 |
| 03 | 34 | 32 | 23 | 12.5 | 16 | 3-2.6 | 3-6 | 3-4.5 | 20 | 23 | 3.1 | 8 | 6-60° | 2-M3 | 22 | 1.6 | 28.5 | 26.2 | 4.7 | 1.2 | 2.3 | 0.15 |
| 04 | 43 | 40 | 30 | 18.5 | 22 | 3-3.1 | 3-6 | 3-5 | 23 | 26 | 3.1 | 8 | 6-60° | 2-M4 | 25.2 | 1.6 | 33.1 | 30.4 | 5.2 | 1.5 | 2.8 | 0.15 |
| 05 | 54 | 50 | 38 | 25.5 | 30 | 3-3.1 | 3-6.5 | 3-6 | 28 | 31 | 3.1 | 8 | 6-60° | 2-M5 | 27.9 | 1.6 | 37.3 | 34.1 | 6.2 | 1.5 | 3.3 | 0.2 |

### How to Place an Order

102-03-33 24V 6

Size — Rotor bore diameter (dimensional symbol d)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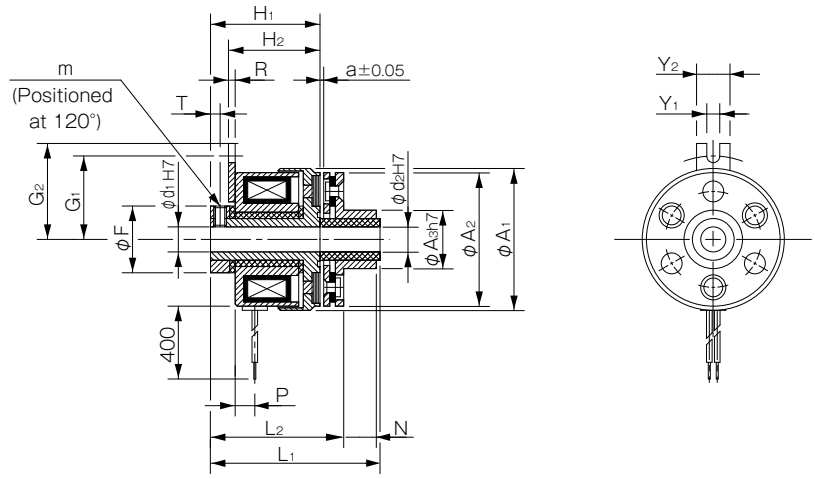
## Dimensions (102-□-35)

### For through-shafts




Unit [mm]

| Size | Shaft bore dimensions | |
|---|---|---|
| | $d_1$ H7 | $d_2$ H7 |
| 02 | 5 | 5 |
| 03 | 6 | 6 |
| 04 | 8 | 8 |
| | 10 | 10 |
| 05 | 10 | 10 |
| | 15 | 15 |

Unit [mm]

| Size | Radial directions dimensions | | | | | | | | | Axial directions dimensions | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $A_1$ | $A_2$ | $A_3$ | F | $G_1$ | $G_2$ | $Y_1$ | $Y_2$ | m | $H_1$ | $H_2$ | R | $L_1$ | $L_2$ | P | N | T | a |
| 02 | 31 | 28 | 13 | 14 | 15.8 | 20 | 3.1 | 8 | 2-M3 | 23.5 | 19.1 | 1.2 | 33 | 27.9 | 4.9 | 4.8 | 2.5 | 0.1 |
| 03 | 34 | 32 | 14 | 16 | 20 | 23 | 3.1 | 8 | 2-M3 | 26.2 | 22 | 1.6 | 38.5 | 30.5 | 4.7 | 7.8 | 2.3 | 0.15 |
| 04 | 43 | 40 | 18 | 22 | 23 | 26 | 3.1 | 8 | 2-M4 | 30.4 | 25.2 | 1.6 | 45.2 | 35.8 | 5.2 | 9.1 | 2.8 | 0.15 |
| 05 | 54 | 50 | 28 | 30 | 28 | 31 | 3.1 | 8 | 2-M5 | 34.1 | 27.9 | 1.6 | 49.3 | 40.3 | 6.2 | 8.8 | 3.3 | 0.2 |

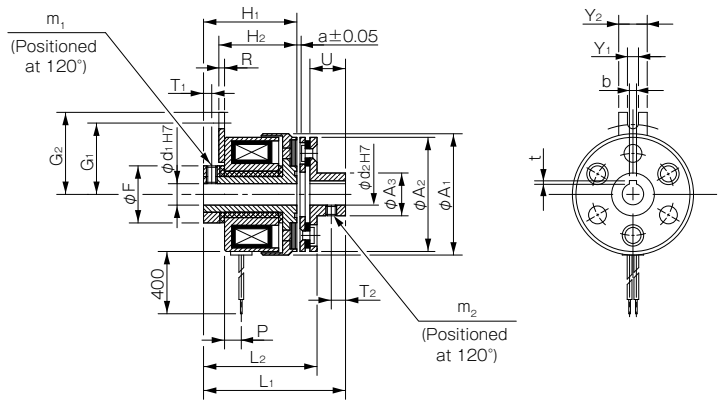
**How to Place an Order**

102-03-35 24V R6 A6

- 102-03-35: Size
- R6: Rotor bore diameter (dimensional symbol d1)
- A6: Armature bore diameter (dimensional symbol d2)

## Dimensions (102-□-31)

### For butt shafts




Unit [mm]

| Size | Shaft bore dimensions | | | | | |
|---|---|---|---|---|---|---|
| | $d_1$ H7 | $d_2$ H7 | Models compliant with JIS standards | | Models compliant with the old JIS standards | |
| | | | b P9 | t | b E9 | t |
| 02 | 5 | 5 | – | – | – | – |
| 03 | 6 | 6 | 2 $^{-0.006}_{-0.031}$ | 0.8 $^{+0.3}_{0}$ | – | – |
| 04 | 8 | 8 | 2 $^{-0.006}_{-0.031}$ | 0.8 $^{+0.3}_{0}$ | – | – |
| | 10 | 10 | 3 $^{-0.006}_{-0.031}$ | 1.2 $^{+0.3}_{0}$ | 4 $^{+0.050}_{+0.020}$ | 1.5 $^{+0.5}_{0}$ |
| 05 | 10 | 10 | 3 $^{-0.006}_{-0.031}$ | 1.2 $^{+0.3}_{0}$ | 4 $^{+0.050}_{+0.020}$ | 1.5 $^{+0.5}_{0}$ |
| | 15 | 15 | 5 $^{-0.012}_{-0.042}$ | 2 $^{+0.5}_{0}$ | 5 $^{+0.050}_{+0.020}$ | 2 $^{+0.5}_{0}$ |

Unit [mm]

| Size | Radial directions dimensions | | | | | | | | | | Axial directions dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $A_1$ | $A_2$ | $A_3$ | F | $G_1$ | $G_2$ | $Y_1$ | $Y_2$ | $m_1$ | $m_2$ | $H_1$ | $H_2$ | R | $L_1$ | $L_2$ | P | U | $T_1$ | $T_2$ | a |
| 02 | 31 | 28 | 9.5 | 14 | 15.8 | 20 | 3.1 | 8 | 2-M3 | M3 | 23.5 | 19.1 | 1.2 | 32.9 | 27.9 | 4.9 | 7 | 2.5 | 2.5 | 0.1 |
| 03 | 34 | 32 | 12 | 16 | 20 | 23 | 3.1 | 8 | 2-M3 | 2-M3 | 26.2 | 22 | 1.6 | 38.5 | 30.5 | 4.7 | 10 | 2.3 | 4 | 0.15 |
| 04 | 43 | 40 | 17 | 22 | 23 | 26 | 3.1 | 8 | 2-M4 | 2-M3 | 30.4 | 25.2 | 1.6 | 45.1 | 35.8 | 5.2 | 12 | 2.8 | 5 | 0.15 |
| 05 | 54 | 50 | 24 | 30 | 28 | 31 | 3.1 | 8 | 2-M5 | 2-M4 | 34.1 | 27.9 | 1.6 | 49.3 | 40.3 | 6.2 | 12 | 3.3 | 5 | 0.2 |

**How to Place an Order**

102-03-31 24V R6 A6DIN

- 102-03-31: Size
- R6: Rotor bore diameter (dimensional symbol d1)
- A6DIN: Armature bore diameter (dimensional symbol d2)
- DIN: Keyway standards
  - DIN: Compliant with JIS standards P9
  - JIS: Compliant with the old JIS standards (class 2) E9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