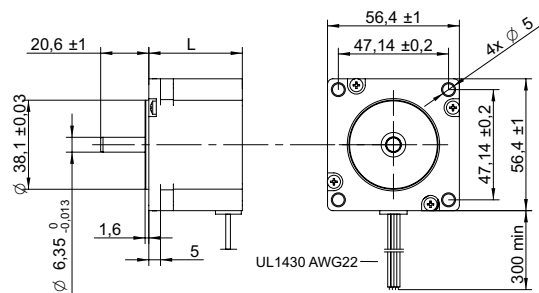
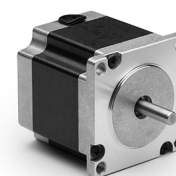


## DRAWING (mm)



## PHOTO



## MODEL NO. DESIGNATION

SHW57

-

STEP ANGLE

-

CURRENT

Example: SHW5740-18-280

## OPTIONS DRIVER AND POWER SUPPLY



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

## COMMON MOTOR DATA

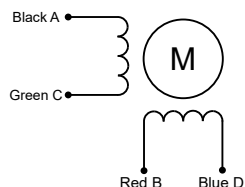
C

|                                    |    |                        |   |
|------------------------------------|----|------------------------|---|
| Step angle                         | °  | 1.8                    |   |
| Step angle accuracy <sup>1</sup>   | %  | ± 5                    |   |
| Shaft material                     |    | X8CrNiS18-9   SUS303   | ● |
| Bearing type                       |    | Ball bearing           | ● |
| Radial play <sup>2</sup>           | mm | 0.02                   |   |
| Axial play <sup>2</sup>            | mm | 0.08                   |   |
| Max. radial force <sup>3</sup>     | N  | 75                     |   |
| Max. axial force                   | N  | 15                     |   |
| Dielectric strength <sup>4</sup>   | V  | 600                    |   |
| Insulation resistance <sup>5</sup> | MΩ | 100                    |   |
| Operating temperature              | °C | -20 to 50              | ● |
| Insulation class                   |    | Class B                |   |
| IP rating                          |    | IP30                   | ● |
| Connection harness                 |    | UL 1430 AWG22   300 mm | ● |
| Connector                          |    | Not in standard        | ● |

## MODEL-SPECIFIC MOTOR DATA

| Model              | SHW5740-18-280   | SHW5750-18-280 | SHW5775-18-280 | SHW57115-18-280 |
|--------------------|------------------|----------------|----------------|-----------------|
| Graph              | A                | B              | C              | -               |
| Holding torque     | Nm               | 0.55           | 1              | 3               |
| Detent torque      | Nm               | 0.02           | 0.035          | 0.068           |
| Rotor inertia      | gcm <sup>2</sup> | 120            | 275            | 480             |
| Current   phase    | A                | 2.8            | 2.8            | 2.8             |
| Resistance   phase | Ω                | 0.7            | 0.83           | 1.13            |
| Inductance         | mH               | 1.4            | 2.2            | 3.6             |
| Length   L         | mm               | 40             | 50             | 75              |
| Weight             | kg               | 0.45           | 0.65           | 1               |

## EXCITATION SEQUENCE TABLE



| CW | A | C | B | D |
|----|---|---|---|---|
| 1  | ● |   | ● |   |
| 2  |   | ● | ● |   |
| 3  |   | ● |   | ● |
| 4  | ● |   |   | ● |
| 1  | ● |   | ● |   |

● = +Polarity

## SPEED | TORQUE PERFORMANCE GRAPH PULL OUT

| Graph           | A | B   | C   | D   |
|-----------------|---|-----|-----|-----|
| Supply voltage  | V | 48  | 48  | 48  |
| Current   phase | A | 2.8 | 2.8 | 2.8 |

## NOTES

1. Full step no load.
2. 450 g load.
3. 20 mm from shaft.
4. AC, 1 second.
5. 500 V, DC.

