

Dimensions in mm.

### Specifications

| MODEL |   | 20SH33-0604A      |      |  |  |
|-------|---|-------------------|------|--|--|
| 1     | STEP ANGLE                                  |                   | 1,8° |  |  |
| 2     | STEP ANGLE ACCURACY<br>(FULL STEP, NO LOAD) | %                 | ± 5  |  |  |
| 3     | RATED VOLTAGE                               | V                 | 3,96 |  |  |
| 4     | CURRENT/PHASE                               | A                 | 0,6  |  |  |
| 5     | RESISTANCE/PHASE                            | Ω                 | 6,5  |  |  |
| 6     | INDUCTANCE/PHASE                            | mH                | 1,7  |  |  |
| 7     | HOLDING TORQUE                              | Ncm               | 1,75 |  |  |
| 8     | ROTOR INERTIA                               | g-cm <sup>2</sup> | 2    |  |  |
| 9     | WEIGHT                                      | kg                | 0,06 |  |  |
| 10    | NUMBER OF LEADS                             | N°.               | 4    |  |  |

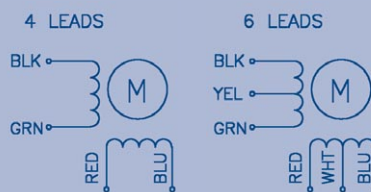
28SH...A single shaft • 28SH...B double shaft

### Speed vs. Torque Characteristics

**PRELIMINARY**

### Characteristics

- RESISTANCE ACCURACY**  
± 10%
- INDUCTANCE ACCURACY**  
± 20%
- TEMPERATURE RISE**  
80° C MAX. (RATED CURRENT, 2 PHASE ON)
- AMBIENT TEMPERATURE**  
-20° C - + 50° C
- INSULATION RESISTANCE**  
100 M Ω MIN., 500 VDC
- DIELECTRIC STRENGTH**  
500 VAC FOR ONE MINUTE
- SHAFT RADIAL PLAY**  
0,02 MAX. (450 G-LOAD)
- SHAFT AXIAL PLAY**  
0,08 MAX. (450 G-LOAD)
- MAX RADIAL FORCE**  
28 N (20MM FROM FLANGE)
- MAX AXIAL FORCE**  
10 N



### AVAILABLE OPTIONS

- Motor modifications:**  
custom winding, special bearing, special tap.
- Shaft modifications:**  
flat, pinion, keyway, length.
- Leadwire modifications:**  
wire type, wire color, wire length, connector installation.