

SS6U8



Super Smart ball bearings, inch

SSU, Ball Bushing Bearing, 0.500, Self-Aligning, Closed, Not Corrosion Resistant, No Wipers

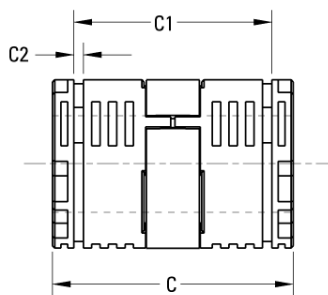
Lead Time: Next Day

\$40.50 each[†]

- These universally self-aligning bearings offer twice the load capacity or eight times the travel life of our Super Ball Bushing[®] bearing.
- Its unique design with the steel band enables the bearing to preserve its ID fit-up and self-aligning capability over extended use.
- A universal self-alignment feature optimizes load distribution between ball tracks and assures uniform ball loading over the entire length of the bearing plate.
- This patented product provides smooth, quiet, low drag linear movement at 6x the load capacity or 216 x the L10 travel life of a conventional steel linear ball bushing bearing.

[†]The price shown here is the North American List Price for general reference only. Please Contact Thomson for actual net price and current delivery schedule which will vary with geographic region, quantity ordered and distribution channel. Estimated costs for shipping, packaging and import taxes/duty are not included in this list price. Please contact Thomson Customer Support for more information.

Dimensions



| Dimension | Value |
|-----------|---------------------|
| C | 31.24 mm (1.230 in) |
| C1 | 26.21 mm (1.032 in) |
| C2 | 1.27 mm (0.050 in) |
| d | 12.70 mm (0.500 in) |
| D | 22.23 mm (0.875 in) |

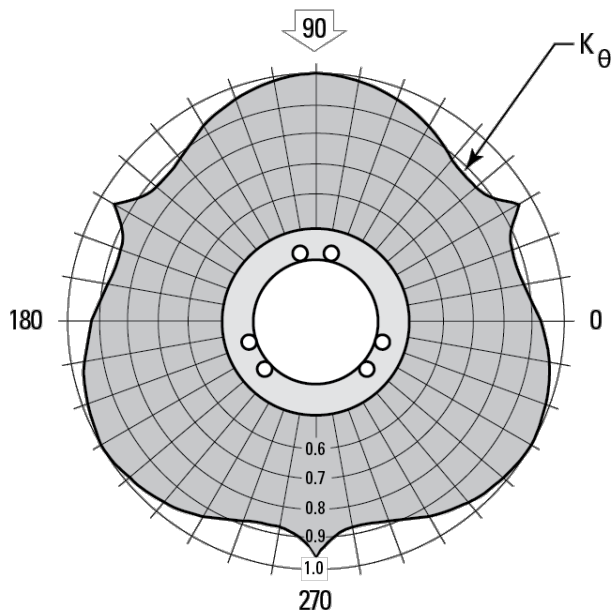
Specifications

| Specifications | Value |
|---------------------------|----------------|
| Adjustable/Not Adjustable | Not Adjustable |
| Closed/Open | Closed |
| Number of Ball Circuits | 6 |
| Roll Pack | No Roll Pack |

| Specifications | Value |
|-------------------------|----------------------|
| Food Grade Rated | Not Food Grade |
| Self Alignment | Self-aligning |
| Single/Twin | Single |
| Temperature Max | 85 °C / 185 °F |
| Use with shafting class | L |
| Wipers, Seals | |
| Weight | 0.032 kg / 0.07 lbs |
| Nominal Diameter | 12.700 mm / 0.5 in |
| Outer Diameter | 22.225 mm / 0.875 in |
| Length | 31.242 mm / 1.23 in |

Performance

Load Correction Factor, K_{θ}



The actual dynamic load capacity of a Ball Bushing Bearing is determined by the direction of the applied load relative to the bearing circuits. The load correction factor K is found by referring to the polar graph. To determine the actual dynamic load capacity, multiply the proper correction factor (K) by the dynamic load capacity.

| Performance | Value |
|------------------------|-----------------------|
| Load Capacity, Dynamic | 1,178.779 N / 265 lbf |

Travel Life

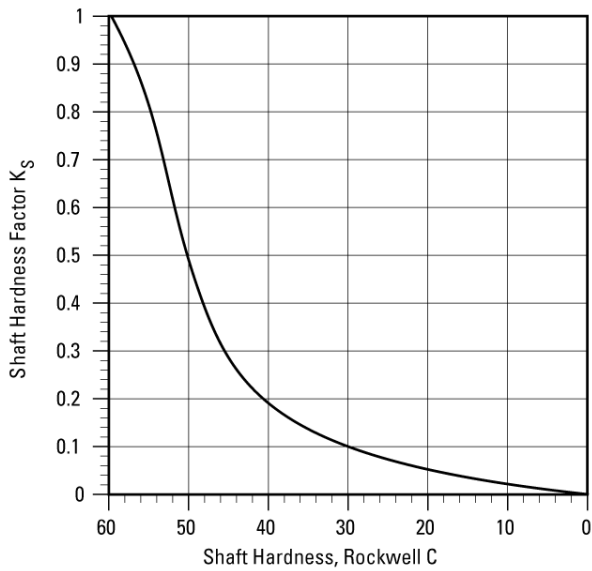
The following formula may be used to determine travel life for bearings with imperial units:

$$L_m = \left(\frac{W}{P} \cdot K_\theta \cdot K_s \right)^3 \cdot 2 \cdot 10^6 \text{ inches}$$

Where: L_m = travel life (in)
 W = dynamic load capacity rating (lbf)
 P = resultant from externally applied loads (lbf)
 K_θ = load correction factor
 K_s = shaft hardness factor

Shaft Hardness factor, K_s

For shafts that do not meet hardness 60 HRC, shaft hardness factor K_s must be applied.



Order Code

SSU16WW-CR

| Type | Description | Size | Nominal Diameter | Option | Description | Ball Options |
|------|-----------------------------------|------|------------------|--------|---------------------|-----------------------------------------------------------------------------------------------|
| SSU | Super Smart Ball Bushing bearings | 8 | .500 | - | No Wipers | Option Description CR Corrosion Resistant NB Nylon Balls NBA Alternating Nylon Balls |
| | | 10 | .625 | W | One Integral Wiper | |
| | | 12 | .750 | WW | Two Integral Wipers | |
| | | 16 | 1.000 | | | Lube Options DP Dry Pack LL Lubricated with Thomson Linear Lube |
| | | 20 | 1.250 | | | Other Options RP Roll Pack (no box) |
| | | 24 | 1.500 | | | |

Related Products



1/2 L CTL

1/2" Shafting, L Class, Cut to Length

<https://www.thomsonlinear.com/en/product/1/2 L CTL>