



The Timken Company

4500 Mt Pleasant St. NW

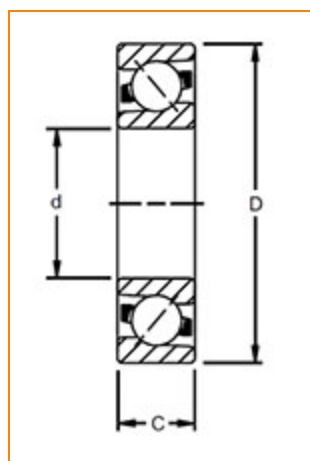
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Part Number 7212 BM/CN, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



[Dimensions](#) | [Basic Load Ratings](#) | [Factors](#) | [Specifications](#) | [Abutment and Fillet Dimensions](#)

Dimensions

| | |
|---------------------------|------------------------|
| d - Bore | 60.00 mm 2.3622 in |
| D - Outer Diameter | 110.00 mm 4.3307 in |
| Bearing Width | 22.00 mm 0.8661 in |
| Contact Angle | 40 ° |

Basic Load Ratings



C0 - Static Radial Rating

44500 N
10002 lbf

| | |
|---------------------------------------|----------------------|
| C1 ISO - Dynamic Radial Rating | 56000 N 12587 lbf |
|---------------------------------------|----------------------|

Factors

| | |
|--------------------------------|----------|
| Limiting Speed (Grease) | 5700 rpm |
|--------------------------------|----------|

| | |
|-----------------------------|----------|
| Limiting Speed (Oil) | 7600 rpm |
|-----------------------------|----------|

Specifications

| | |
|------------------|-------|
| Ball Type | STEEL |
|------------------|-------|

| | |
|------------------|----------|
| Cage Type | Machined |
|------------------|----------|

| | |
|----------------------|-------|
| Cage Material | Brass |
|----------------------|-------|

| | |
|-----------------------|---------------------|
| Bearing Weight | 0.88 Kg 1.934 lb |
|-----------------------|---------------------|

| | |
|---------------------|--------|
| Design Units | METRIC |
|---------------------|--------|

| | |
|--------------------------------------|-----|
| R - Inner Ring "Touch" Radius | 0.6 |
|--------------------------------------|-----|

| | |
|--------------------------------------|-----|
| r - Outer Ring "Touch" Radius | 0.6 |
|--------------------------------------|-----|

| | |
|-----------------|------|
| Features | Open |
|-----------------|------|

Abutment and Fillet Dimensions

| | |
|---|---------------------|
| R - Inner Ring "To Clear" Radius¹ | 1.00 mm 0.039 in |
|---|---------------------|

| | |
|---|---------------------|
| r - Outer Ring "To Clear" Radius² | 1.00 mm 0.039 in |
|---|---------------------|

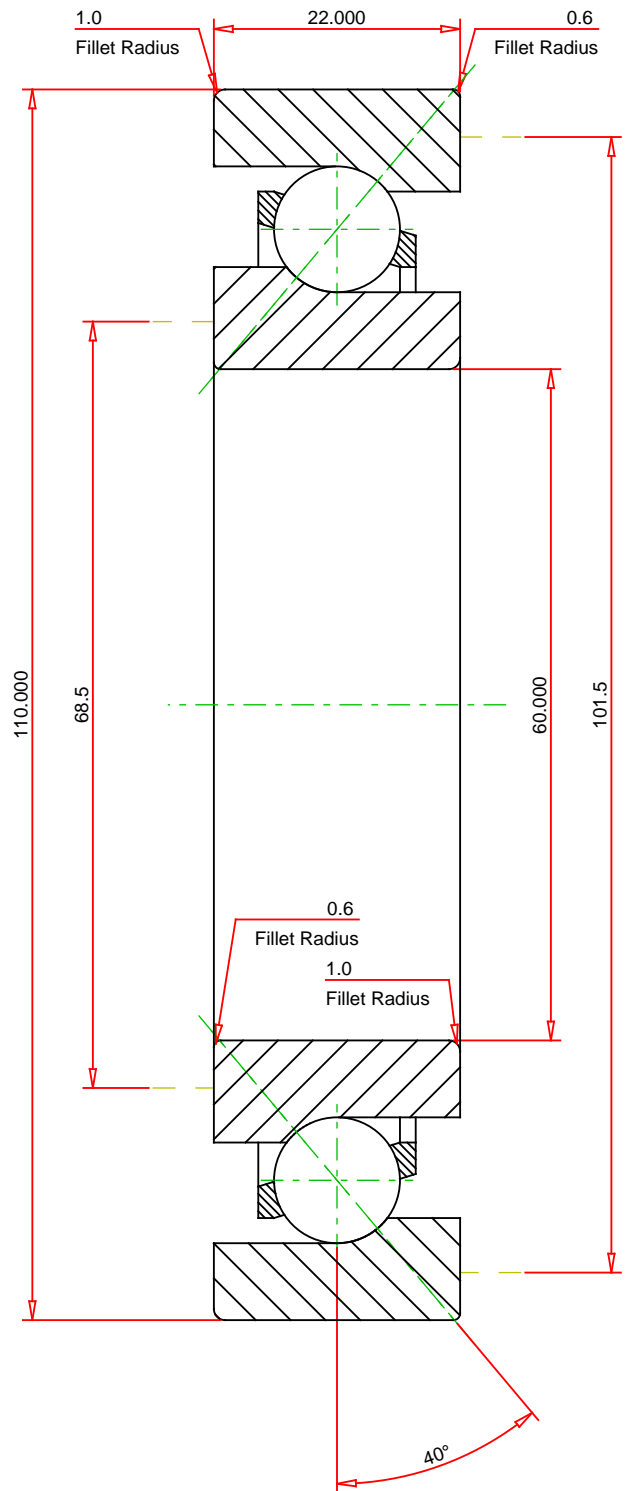
| | |
|---|---------------------|
| da - Inner Ring Backing Diameter | 68.5 mm 2.697 in |
|---|---------------------|

| | |
|--------------------------------|----------|
| Da - Outer Ring Backing | 101.5 mm |
|--------------------------------|----------|

Diameter

3.996 in

- ¹ Maximum housing fillet radius that bearing corners will clear.
- ² Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row 15
Bearing Weight 0.880 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7212 BM/CN
Timken® Single Row Angular Contact Ball Bearings
(7200, 7300)

Dynamic Radial Rating 56000 N
Static Radial Rating 44500 N

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY