



The Timken Company

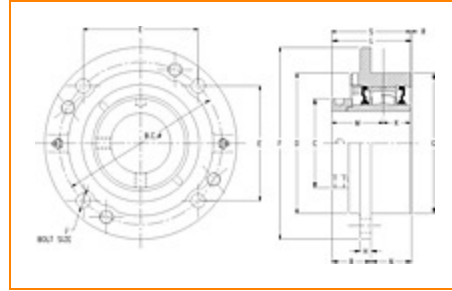
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Part Number QMC09J112S, Eccentric Piloted Flange Cartridge



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Specifications

Engineering Group Mounted Bearing

Bearing Number 22209

Shaft Size 1 3/4 in

Shaft Size Type Imperial

Full Timken Part Number

- QMC09J112SB
- QMC09J112SC
- QMC09J112SEB
- QMC09J112SEC
- QMC09J112SEM
- QMC09J112SEN
- QMC09J112SEO
- QMC09J112SET
- QMC09J112SM
- QMC09J112SN
- QMC09J112SO
- QMC09J112ST



| | |
|-----------------------------|--|
| Locking Style | Eccentric |
| Housing Construction | Piloted Flange Cartridge |
| UPC Code | 0883450058520 0883450058537 0883450058551 0883450058568 0883450058575 0883450058582 0883450058599 0883450058605 0883450165570 0883450165990 0883450257800 0883450258180 |

Dimensions

| | |
|------------------------|---------------------|
| Dimension BC | 5.13 in 130.3 mm |
| Dimension B Exp | 2.23 in 56.6 mm |
| Dimension B Fix | 2.15 in 54.6 mm |
| Dimension C | 2.63 in 66.8 mm |
| Dimension D | 4.38 in 111.3 mm |
| Dimension E | 3.62 in 91.9 mm |
| Dimension F | 6.13 in 155.7 mm |
| Dimension G | 4.25 in 108 mm |

| | |
|--------------------------------|--------------------|
| Dimension H | 0.5 in 12.7 mm |
| Dimension J (Bolt Size) | 0.438 in 10 mm |
| Dimension K | 1 in 25.4 mm |
| Dimension L Exp | 3.11 in 79 mm |
| Dimension L Fix | 3.03 in 77 mm |
| Dimension M | 1.87 in 47.5 mm |
| Dimension N | 0.88 in 22.4 mm |
| Dimension R | 0.15 in 3.8 mm |
| Dimension S | 2.87 in 72.9 mm |

Radial and Thrust Factors

| | |
|---------------------------------|-----------------------|
| C0 - Static Load | 24200 lbf 108000 N |
| C - Dynamic Load (Basic) | 24500 lbf 109000 N |
| e - Geometry Factor | 0.26 |
| Y1 - Geometry Factor | 2.64 |
| Y2 - Geometry Factor | 3.93 |

Engineering Seal Speed

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|-----------------------------------|----------|
| Oil Lubrication - M/N Seal | 2700 rpm |
|-----------------------------------|----------|

| | |
|---------------------------------|----------|
| Oil Lubrication - T Seal | 4500 rpm |
|---------------------------------|----------|

| | |
|-------------------------------------|----------|
| Oil Lubrication - B/C/O Seal | 1950 rpm |
|-------------------------------------|----------|

| | |
|--------------------------------------|----------|
| Grease Lubrication - M/N Seal | 2700 rpm |
|--------------------------------------|----------|

| | |
|------------------------------------|----------|
| Grease Lubrication - T Seal | 4000 rpm |
|------------------------------------|----------|

| | |
|--|----------|
| Grease Lubrication - B/C/O Seal | 1950 rpm |
|--|----------|

Engineering Bearing Attributes

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| Float | 0.050 in 1.270 mm |
|--------------|----------------------|

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|------------------------|-----------------------|
| Shaft Tolerance | 0.0015 in 0.038 mm |
|------------------------|-----------------------|

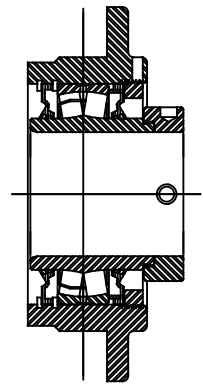
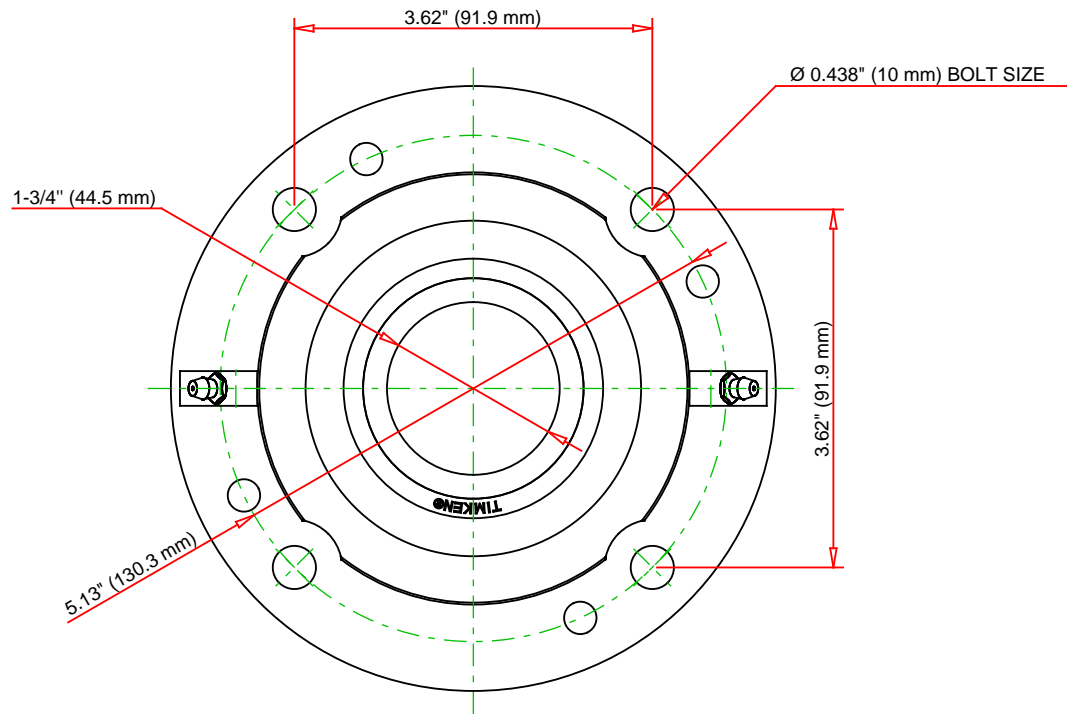
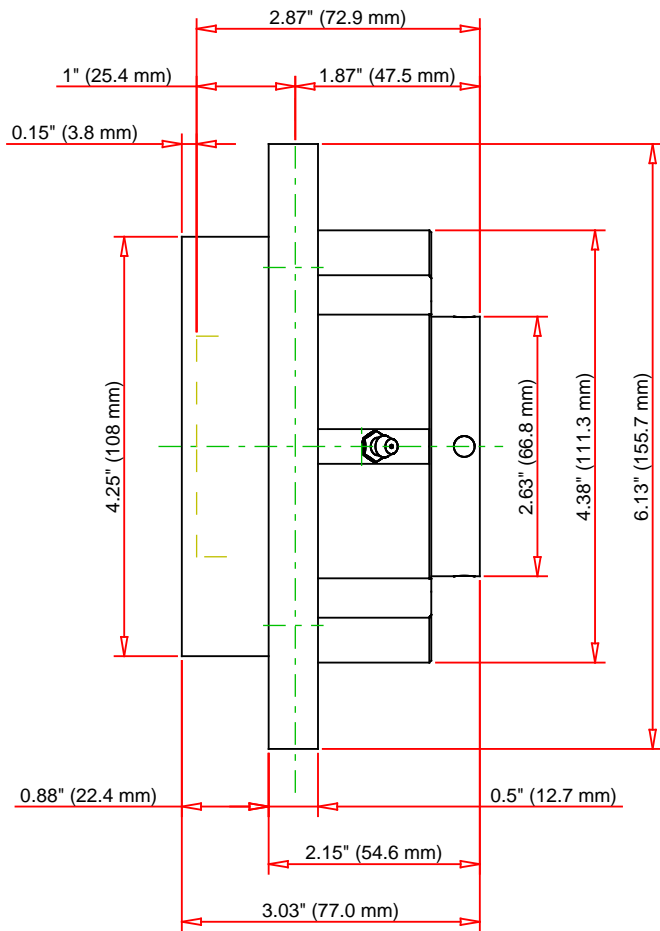
Engineering Internal Radial Clearance

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|--|--------|
| Eng Internal Radial Clearance - Min | 0.0014 |
|--|--------|

| | |
|--|--------|
| Eng Internal Radial Clearance - Max | 0.0022 |
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| | |
|----------------------------------|-----------------------|
| Pre Install Clearance Min | 0.0014 in 0.035 mm |
|----------------------------------|-----------------------|

| | |
|----------------------------------|-----------------------|
| Pre Install Clearance Max | 0.0022 in 0.055 mm |
|----------------------------------|-----------------------|



Note: Section View not to Scale

| | | | | |
|-----------------------------|--------|-----|--------|----|
| C - Dynamic Load | 24500 | lbf | 109000 | N |
| C0 - Static Load | 24200 | lbf | 108000 | N |
| Weight | 9 | lb | 4.1 | kg |
| Max. Speed T-Seals & Grease | 4000 | rpm | | |
| Rad. Clearance - Max. | 0.0022 | | | |

TIMKEN

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NORTH CANTON, OHIO USA

QMC09J112S
Eccentric Piloted Flange Cartridge

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