


**The Timken Company**

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## Part Number QAACW18A307S, Double Concentric Piloted Flange Cartridge



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## Specifications

**Engineering Group** Mounted Bearing

**Bearing Number** 22218

**Shaft Size** 3 7/16 in

**Shaft Size Type** Imperial

**Full Timken Part Number**  
 QAACW18A307SB  
 QAACW18A307SC  
 QAACW18A307SEB  
 QAACW18A307SEC  
 QAACW18A307SEM  
 QAACW18A307SEN  
 QAACW18A307SEO  
 QAACW18A307SET  
 QAACW18A307SM  
 QAACW18A307SMNG  
 QAACW18A307SN



QAACW18A307SO  
QAACW18A307ST

**Locking Style** Double Concentric

**Housing Construction** Piloted Flange Cartridge

**UPC Code**

0883450017800  
0883450017817  
0883450017831  
0883450017848  
0883450017855  
0883450017862  
0883450017879  
0883450017886  
0883450194242  
0883450194426  
0883450271417  
0883450271592  
0883450433457

## Dimensions

**Dimension BC**

8.63 in  
219.2 mm

**Dimension C**

5.125 in  
130.2 mm

**Dimension D**

7.13 in  
181.1 mm

**Dimension E**

6.1 in  
154.9 mm

**Dimension B Exp**

2.54 in  
64.5 mm

**Dimension B Fix**

2.46 in  
62.5 mm

**Dimension F**

10-1/4 in  
260.4 mm

<b>Dimension H</b>	0.88 in 22.4 mm
<b>Dimension J (Bolt Size)</b>	0.75 in 20 mm
<b>Dimension M</b>	2.59 in 65.8 mm
<b>Dimension L Exp</b>	4.42 in 112.3 mm
<b>Dimension L Fix</b>	4.34 in 110.2 mm
<b>Dimension RAA</b>	0.85 in 21.6 mm
<b>Dimension SAA</b>	5.19 in 131.8 mm
<b>Dimension G</b>	7.375 in 187.3 mm
<b>Dimension N</b>	1.88 in 47.8 mm

## Radial and Thrust Factors

<b>C0 - Static Load</b>	87200 lbf 388000 N
<b>C - Dynamic Load (Basic)</b>	79700 lbf 355000 N
<b>e - Geometry Factor</b>	0.23
<b>Y1 - Geometry Factor</b>	2.90
<b>Y2 - Geometry Factor</b>	4.31

## Engineering Seal Speed

<b>Oil Lubrication - M/N Seal</b>	1400 rpm
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<b>Oil Lubrication - T Seal</b>	2400 rpm
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<b>Oil Lubrication - B/C/O Seal</b>	1000 rpm
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<b>Grease Lubrication - M/N Seal</b>	1400 rpm
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<b>Grease Lubrication - T Seal</b>	2000 rpm
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<b>Grease Lubrication - B/C/O Seal</b>	1000 rpm
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## Engineering Bearing Attributes

<b>Float</b>	0.083 in 2.108 mm
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<b>Shaft Tolerance</b>	0.0030 in 0.076 mm
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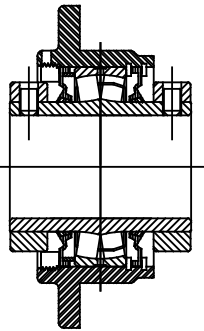
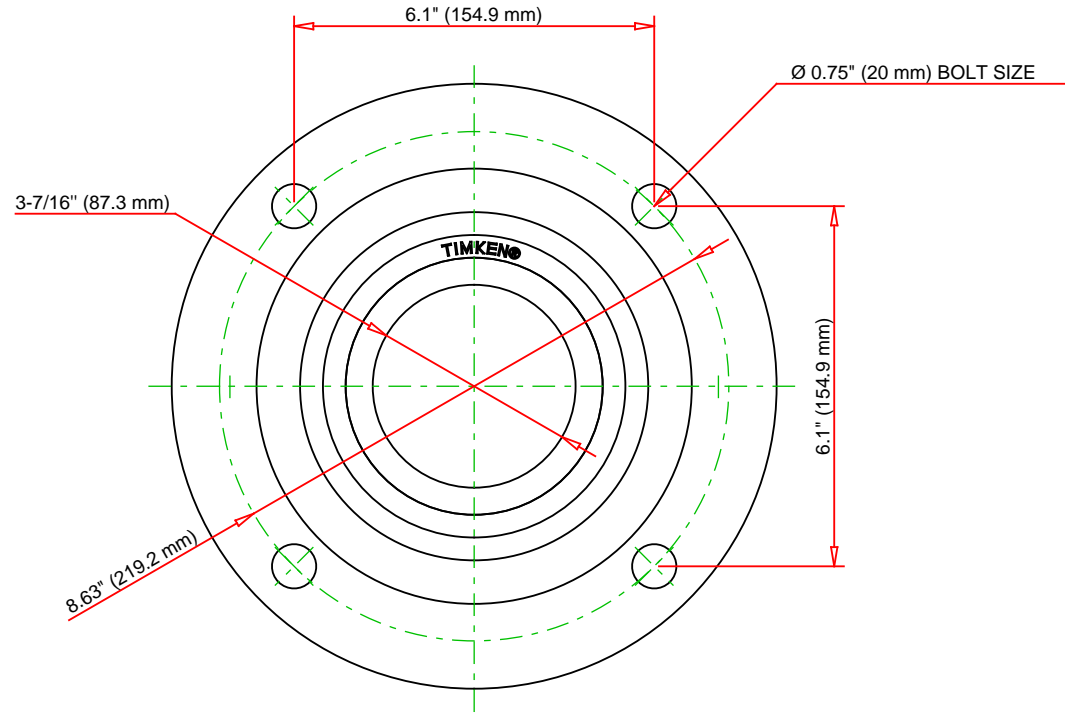
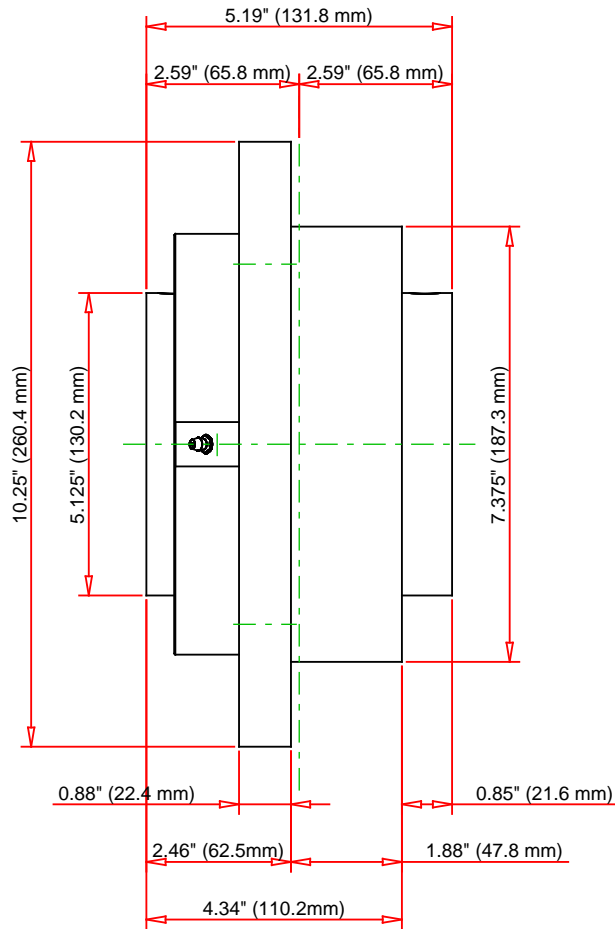
## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0024
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<b>Eng Internal Radial Clearance - Max</b>	0.0039
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<b>Pre Install Clearance Min</b>	0.060 in 0.0024 mm
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<b>Pre Install Clearance Max</b>	0.100 in 0.0039 mm
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Note: Section View not to Scale

C - Dynamic Load	79700	lbf	355000	N
C0 - Static Load	87200	lbf	388000	N
Weight	32	lb	14.5	kg
Max. Speed T-Seals & Grease	2000	rpm		
Rad. Clearance - Max.	0.0039			

**TIMKEN**

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NORTH CANTON, OHIO USA

**QAACW18A307S**

Double Concentric Piloted Flange  
Cartridge

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**FOR DISCUSSION ONLY**