



**The Timken Company**

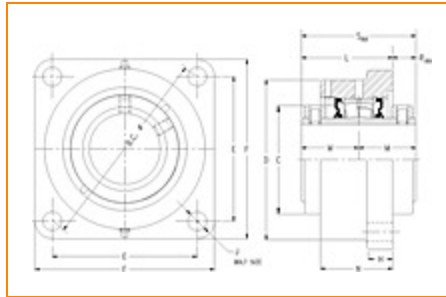
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Part Number QAAFL20A315S, Double Concentric Four Bolt Square Flange Block



[Specifications](#) | [Dimensions](#) | [Radial and Thrust Factors](#) | [Engineering Seal Speed](#) | [Engineering Bearing Attributes](#) | [Engineering Internal Radial Clearance](#)

Specifications -

<b>Engineering Group</b>	Mounted Bearing
<b>Bearing Number</b>	22220
<b>Shaft Size</b>	3 15/16 in
<b>Shaft Size Type</b>	Imperial
<b>Full Timken Part Number</b>	QAAFL20A315SB QAAFL20A315SC QAAFL20A315SEB QAAFL20A315SEC QAAFL20A315SEM QAAFL20A315SEN QAAFL20A315SEO QAAFL20A315SET QAAFL20A315SM QAAFL20A315SN QAAFL20A315SO



QAAFL20A315ST

**Locking Style** Double Concentric

**Housing Construction** Four-Bolt Square Flange

**UPC Code**

0883450021500  
0883450021517  
0883450021531  
0883450021548  
0883450021555  
0883450021562  
0883450021579  
0883450021586  
0883450191746  
0883450191906  
0883450269100  
0883450269261

## Dimensions

**Dimension BC** 10.75 in  
273.1 mm

**Dimension C** 6 in  
152.4 mm

**Dimension D** 8.39 in  
213.1 mm

**Dimension E** 7.6 in  
193 mm

**Dimension F** 9.5 in  
241.3 mm

**Dimension H** 1 1/2 in  
38.1 mm

**Dimension J (Bolt Size)** 1 in  
24 mm

**Dimension L Exp** 5.29 in  
134.4 mm

<b>Dimension L Fix</b>	5.21 in 132.3 mm
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<b>Dimension M</b>	2.97 in 75.4 mm
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<b>Dimension N</b>	4.12 in 104.6 mm
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<b>Dimension RAA</b>	0.71 in 18 mm
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<b>Dimension SAA</b>	5.92 in 150.4 mm
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## Radial and Thrust Factors

<b>C0 - Static Load</b>	113000 lbf 502000 N
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<b>C - Dynamic Load (Basic)</b>	97700 lbf 435000 N
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<b>e - Geometry Factor</b>	0.24
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<b>Y1 - Geometry Factor</b>	2.84
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<b>Y2 - Geometry Factor</b>	4.23
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## Engineering Seal Speed

<b>Oil Lubrication - M/N Seal</b>	1200 rpm
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<b>Oil Lubrication - T Seal</b>	2000 rpm
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<b>Oil Lubrication - B/C/O Seal</b>	900 rpm
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<b>Grease Lubrication - M/N Seal</b>	1200 rpm
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<b>Grease Lubrication - T Seal</b>	1600 rpm
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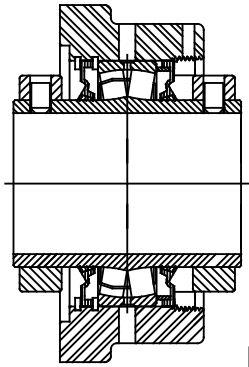
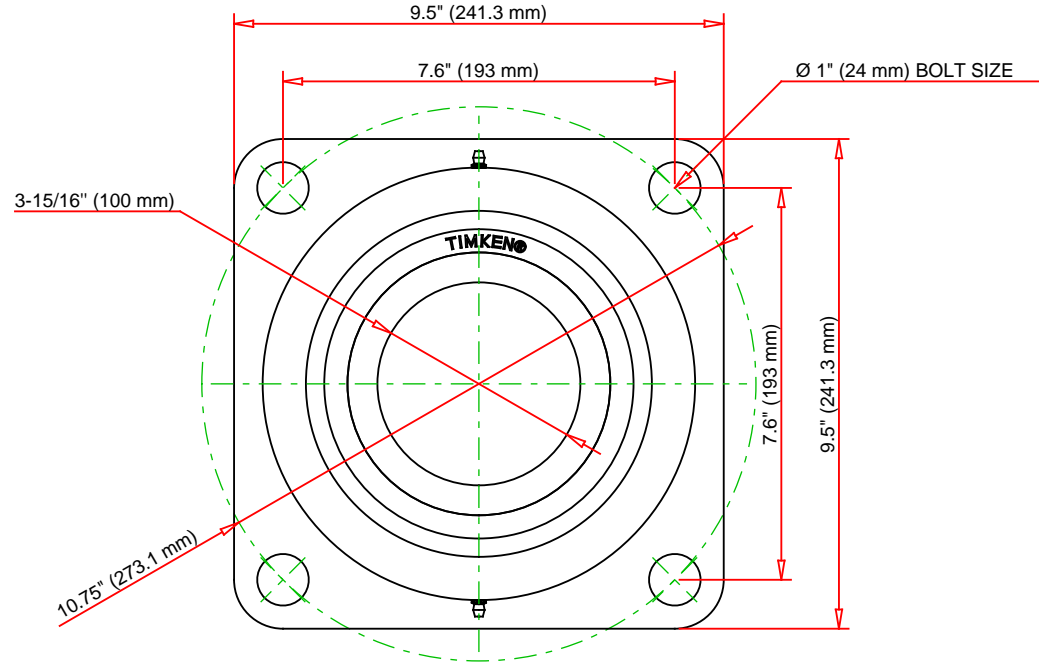
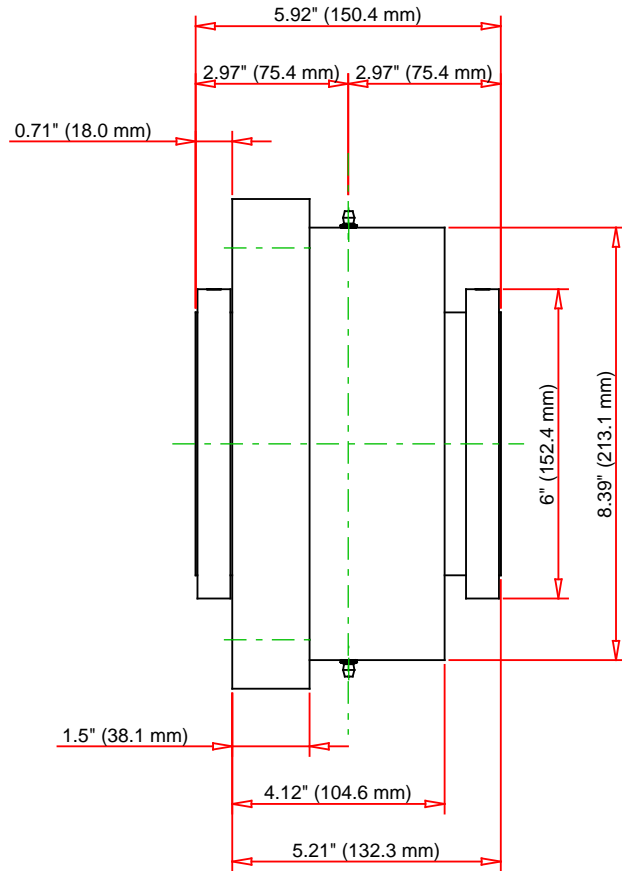
<b>Grease Lubrication - B/C/O Seal</b>	900 rpm
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## Engineering Bearing Attributes

<b>Float</b>	0.083 in 2.108 mm
<b>Shaft Tolerance</b>	0.0030 in 0.076 mm

## Engineering Internal Radial Clearance

<b>Eng Internal Radial Clearance - Min</b>	0.0030
<b>Eng Internal Radial Clearance - Max</b>	0.0047
<b>Pre Install Clearance Min</b>	0.0030 in 0.075 mm
<b>Pre Install Clearance Max</b>	0.0047 in 0.120 mm



Note: Section View not to Scale

C - Dynamic Load	97700	lbf	435000	N
C0 - Static Load	113000	lbf	502000	N
Weight	55	lb	24.9	kg
Max. Speed T-Seals & Grease	1600	rpm		
Rad. Clearance - Max.	0.0047			

**TIMKEN**

THE TIMKEN COMPANY  
NORTH CANTON, OHIO USA

**QAAFL20A315S**

Double Concentric Four Bolt Square  
Flange Block

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**FOR DISCUSSION ONLY**