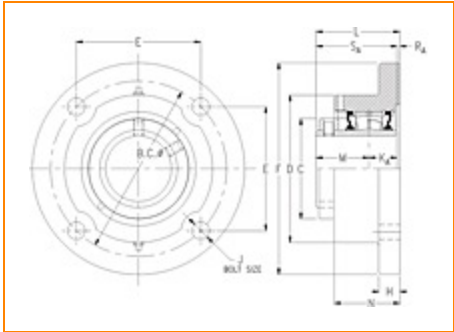




The Timken Company
 4500 Mt Pleasant St. NW
 N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number QAFY20A315S, Single Concentric Round Flange Block



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

Specifications

Engineering Group	Mounted Bearing
Bearing Number	22220
Shaft Size	3 15/16 in
Shaft Size Type	Imperial
Full Timken Part Number	QAFY20A315SB QAFY20A315SC QAFY20A315SEB QAFY20A315SEC QAFY20A315SEM QAFY20A315SEN QAFY20A315SEO QAFY20A315SET QAFY20A315SM QAFY20A315SN QAFY20A315SO QAFY20A315ST



Locking Style	Single Concentric
Housing Construction	Round Flange
UPC Code	0883450042406 0883450042413 0883450042444 0883450042451 0883450042468 0883450042475 0883450042482 0883450192064 0883450192224 0883450192385 0883450269421 0883450269582

Dimensions

Dimension BC	10.75 in 273.1 mm
Dimension C	6 in 152.4 mm
Dimension D	8.38 in 212.9 mm
Dimension E	7.6 in 193 mm
Dimension F	12.63 in 320.8 mm
Dimension H	1.13 in 28.7 mm
Dimension J (Bolt Size)	1 in 24 mm
Dimension KA	1.63 in 41.4 mm

Dimension L Exp	4.95 in 125.7 mm
Dimension L Fix	4.87 in 123.7 mm
Dimension M	2.97 in 75.4 mm
Dimension N	3.81 in 96.8 mm
Dimension RA	0.27 in 6.9 mm
Dimension SA	4.59 in 116.6 mm

Radial and Thrust Factors

C0 - Static Load	113000 lbf 502000 N
C - Dynamic Load (Basic)	97700 lbf 435000 N
e - Geometry Factor	0.24
Y1 - Geometry Factor	2.85
Y2 - Geometry Factor	4.24

Engineering Seal Speed

Oil Lubrication - M/N Seal	1200 rpm
Oil Lubrication - T Seal	2000 rpm
Oil Lubrication - B/C/O Seal	900 rpm
Grease Lubrication - M/N Seal	1200 rpm

Grease Lubrication - T Seal	1600 rpm
------------------------------------	----------

Grease Lubrication - B/C/O Seal	900 rpm
--	---------

Engineering Bearing Attributes

Float	0.083 in 2.108 mm
--------------	----------------------

Shaft Tolerance	0.0030 in 0.076 mm
------------------------	-----------------------

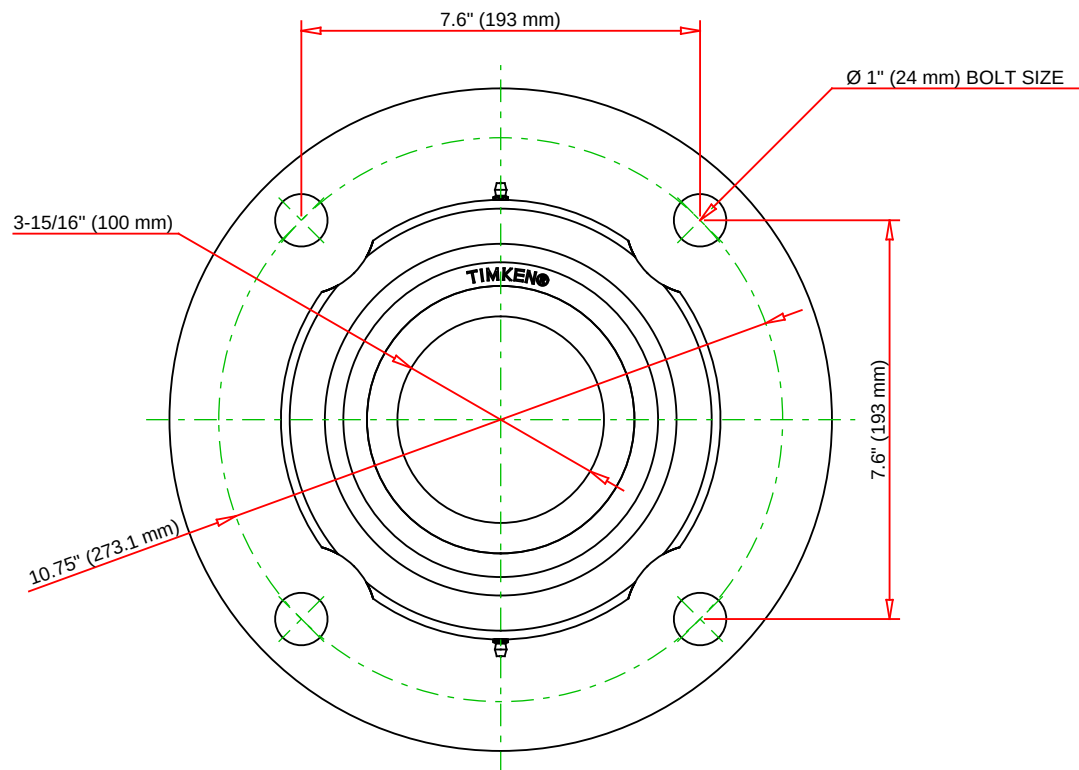
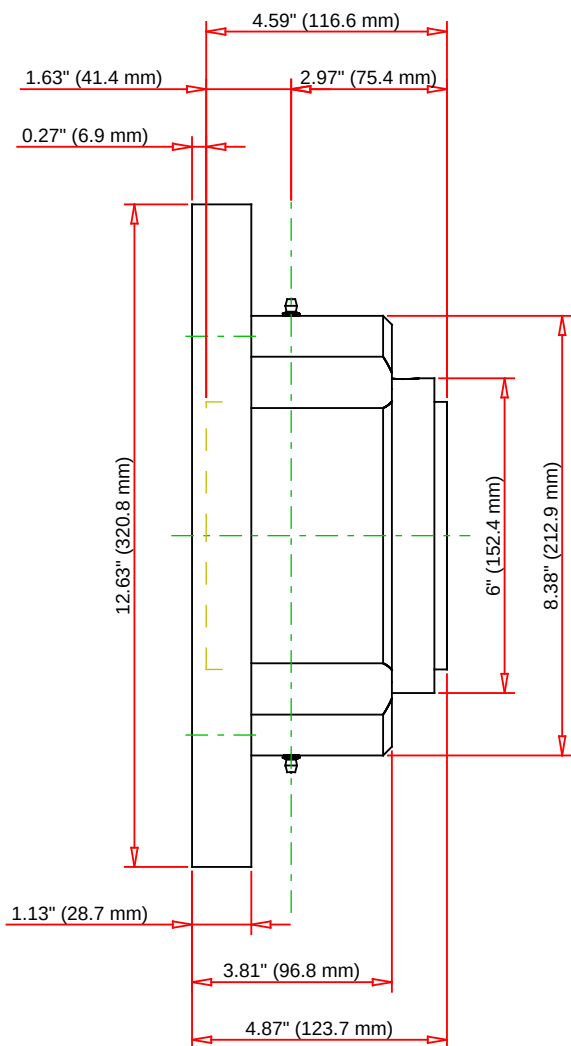
Engineering Internal Radial Clearance

Eng Internal Radial Clearance - Min	0.0030
--	--------

Eng Internal Radial Clearance - Max	0.0047
--	--------

Pre Install Clearance Min	0.0030 in 0.075 mm
----------------------------------	-----------------------

Pre Install Clearance Max	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	66	lb	29.9	kg
Max. Speed T-Seals & Grease	1600	rpm		
Rad. Clearance - Max.	0.0047			

TIMKEN

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

QAFY20A315S

Single Concentric Round Flange Block

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