


The Timken Company

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Part Number QAC18A307S, Single 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	QAC18A307SB QAC18A307SC QAC18A307SEB QAC18A307SEC QAC18A307SEM QAC18A307SEN QAC18A307SEO QAC18A307SET QAC18A307SM QAC18A307SN QAC18A307SO QAC18A307ST



Locking Style	Single Concentric
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Housing Construction	Piloted Flange Cartridge
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UPC Code	0883450035804
	0883450035811
	0883450035835
	0883450035842
	0883450035859
	0883450035866
	0883450035873
	0883450035880
	0883450193245
	0883450193405
0883450270434	
0883450270595	

Dimensions

Dimension BC	8.63 in 219.2 mm
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Dimension B Exp	2.96 in 75.2 mm
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Dimension B Fix	2.88 in 73.2 mm
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Dimension C	5.13 in 130.3 mm
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Dimension D	7.38 in 187.5 mm
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Dimension E	6.1 in 154.9 mm
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Dimension F	10.34 in 262.6 mm
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Dimension G	7.375 in 187.3 mm
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Dimension H	1 in 25.4 mm
Dimension J (Bolt Size)	0.75 in 20 mm
Dimension KA	1.44 in 36.6 mm
Dimension L Exp	4.27 in 108.5 mm
Dimension L Fix	4.19 in 106.4 mm
Dimension M	2.59 in 65.8 mm
Dimension N	1.31 in 33.3 mm
Dimension RA	0.16 in 4.1 mm
Dimension SA	4.03 in 102.4 mm

Radial and Thrust Factors

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

Engineering Seal Speed

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

Float	0.083 in 2.108 mm
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Shaft Tolerance	0.0030 in 0.076 mm
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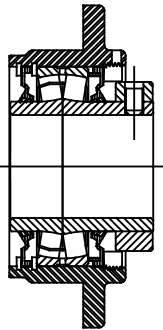
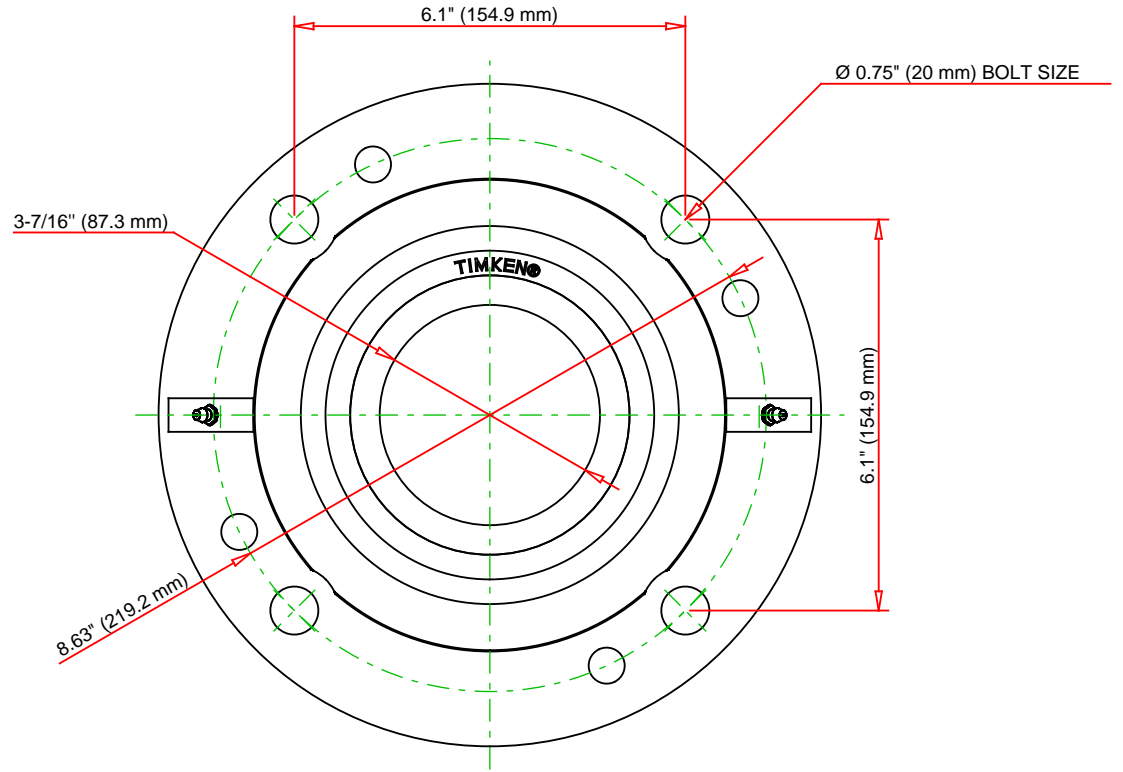
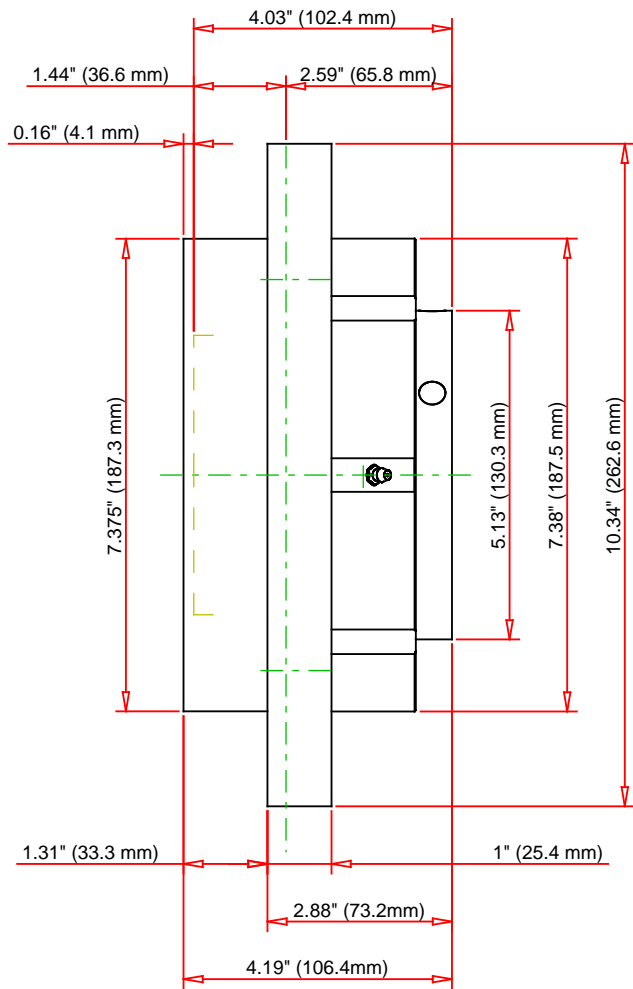
Engineering Internal Radial Clearance

Eng Internal Radial Clearance - Min	0.0024
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Eng Internal Radial Clearance - Max	0.0039
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Pre Install Clearance Min	0.0024 in 0.060 mm
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Pre Install Clearance Max	0.0039 in 0.100 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

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

QAC18A307S

Single Concentric Piloted Flange
Cartridge

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.

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