

Timken 59201/59412-B tapered roller bearings

Timken 59201/59412-B tapered roller bearings Product Brochures , 140x90x24 Size (mm) 90 Outer Diameter (mm) Manufacturing Service . Get Your Free.

Size (mm)	140x90x24
Bore Diameter (mm)	140
Outer Diameter (mm)	90
Width (mm)	24
d	90 mm
D	140 mm
B	24 mm
d1	108.7 mm
d2	106.13 mm
D2	125 mm
r1,2 – min.	1.5 mm
r3,4 – min.	1 mm
a	39 mm
da – min.	97 mm
db – min.	97 mm
Da – max.	133 mm
Db – max.	135.4 mm
ra – max.	1.5 mm
rb – max.	1 mm
dn	110 mm
Basic dynamic load rating – C	27 kN
Basic static load rating – C0	23.6 kN

Fatigue load limit – Pu	0.93 kN
Limiting speed for grease lubrication	11000 r/min
Limiting speed for oil lubrication	17000 mm/min
Ball – Dw	10.319 mm
Ball – z	25
Gref	14.1 cm ³
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	160 N
Preload class B – GB	320 N
Preload class C – GC	960 N
Calculation factor – f	1.07
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.01
Calculation factor – f2C	1.04
Calculation factor – fHC	1
Preload class A	142 N/micron
Preload class B	183 N/micron
Preload class C	275 N/micron
r1,2 min.	1.5 mm
r3,4 min.	1 mm
da min.	97 mm
db min.	97 mm
Da max.	133 mm
Db max.	135.4 mm

ra max.	1.5 mm
rb max.	1 mm
Basic dynamic load rating C	35.8 kN
Basic static load rating C0	40 kN
Fatigue load limit Pu	0.93 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Ball diameter Dw	10.319 mm
Number of balls z	25
Reference grease quantity Gref	14.1 cm ³
Preload class A GA	160 N
Static axial stiffness, preload class A	142 N/μm
Preload class B GB	320 N
Static axial stiffness, preload class B	183 N/μm
Preload class C GC	960 N
Static axial stiffness, preload class C	275 N/μm
Calculation factor f	1.07
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.01
Calculation factor f2C	1.04
Calculation factor fHC	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92

Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	1.25 kg