

Timken 210RU02 cylindrical roller bearings

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Size (mm)	62x40x12
Bore Diameter (mm)	62
Outer Diameter (mm)	40
Width (mm)	12
d	40 mm
D	62 mm
B	12 mm
d1	48.46 mm
d2	47.6 mm
D2	55.64 mm
r1,2 – min.	0.6 mm
r3,4 – min.	0.3 mm
a	14.8 mm
da – min.	43.2 mm
db – min.	43.2 mm
Da – max.	58.8 mm
Db – max.	60 mm
ra – max.	0.6 mm
rb – max.	0.3 mm
dn	49.1 mm
Basic dynamic load rating – C	5.4 kN

Basic static load rating – C0	4.2 kN
Fatigue load limit – Pu	0.176 kN
Limiting speed for grease lubrication	36000 r/min
Limiting speed for oil lubrication	56000 mm/min
Ball – Dw	3.969 mm
Ball – z	28
Gref	1.38 cm ³
Calculation factor – f0	9.8
Preload class A – GA	18 N
Preload class B – GB	36 N
Preload class C – GC	110 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.03
Calculation factor – f2C	1.08
Calculation factor – fHC	1.01
Preload class A	27 N/micron
Preload class B	36 N/micron
Preload class C	58 N/micron
r1,2 min.	0.6 mm
r3,4 min.	0.3 mm
da min.	43.2 mm
db min.	43.2 mm
Da max.	58.8 mm
Db max.	60 mm
ra max.	0.6 mm
rb max.	0.3 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating C0	6.95 kN

Fatigue load limit P_u	0.176 kN
Attainable speed for grease lubrication	36000 r/min
Attainable speed for oil-air lubrication	56000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	28
Reference grease quantity G_{ref}	1.38 cm ³
Preload class A G_A	18 N
Static axial stiffness, preload class A	27 N/ μ m
Preload class B G_B	36 N
Static axial stiffness, preload class B	36 N/ μ m
Preload class C G_C	110 N
Static axial stiffness, preload class C	58 N/ μ m
Calculation factor f	1.06
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01
Calculation factor f_0	9.8
Mass bearing	0.11 kg