

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 – C ₀	4.2 kN
Fatigue load limit – P _u	0.176 kN
Limiting speed for grease lubrication	36000 r/min
Limiting speed for oil lubrication	56000 mm/min
Ball – D _w	3.969 mm
Ball – z	28
G _{ref}	1.38 cm ³
Calculation factor – f ₀	9.8
Preload class A – G _A	18 N
Preload class B – G _B	36 N
Preload class C – G _C	110 N
Calculation factor – f	1
Calculation factor – f _{2A}	1
Calculation factor – f _{2B}	1.03
Calculation factor – f _{2C}	1.08
Calculation factor – f _{HC}	1.01
Preload class A	27 N/micron
Preload class B	36 N/micron
Preload class C	58 N/micron
r _{1,2} min.	0.6 mm
r _{3,4} min.	0.3 mm
d _a min.	43.2 mm
d _b min.	43.2 mm
D _a max.	58.8 mm
D _b max.	60 mm
r _a max.	0.6 mm
r _b max.	0.3 mm
Basic dynamic load rating C	7.15 kN
Basic static load rating C ₀	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