

# Timken 230RU51 cylindrical roller bearings

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Size (mm)	115x75x20
Bore Diameter (mm)	115
Outer Diameter (mm)	75
Width (mm)	20
d	75 mm
D	115 mm
B	20 mm
d1	90 mm
d2	88.2 mm
D2	102.8 mm
b	1.5 mm
C1	10.9 mm
C2	4.4 mm
C3	2.9 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	32.3 mm
da – min.	81 mm
db – min.	81 mm
Da – max.	109 mm
Db – max.	111.8 mm
ra – max.	1 mm

rb – max.	0.6 mm
dn	91.1 mm
Basic dynamic load rating – C	19 kN
Basic static load rating – C0	16.6 kN
Fatigue load limit – Pu	0.71 kN
Limiting speed for grease lubrication	17000 r/min
Limiting speed for oil lubrication	26000 mm/min
Ball – Dw	7.938 mm
Ball – z	30
Gref	7.7 cm <sup>3</sup>
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	115 N
Preload class B – GB	230 N
Preload class C – GC	690 N
Calculation factor – f	1.08
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – fHC	1.01
Preload class A	148 N/micron
Preload class B	188 N/micron
Preload class C	285 N/micron
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm

da min.	81 mm
db min.	81 mm
Da max.	109 mm
Db max.	111.8 mm
ra max.	1 mm
rb max.	0.6 mm
Basic dynamic load rating C	25.1 kN
Basic static load rating C0	27 kN
Fatigue load limit Pu	0.71 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter Dw	7.938 mm
Number of balls z	30
Reference grease quantity Gref	7.7 cm <sup>3</sup>
Preload class A GA	115 N
Static axial stiffness, preload class A	148 N/μm
Preload class B GB	230 N
Static axial stiffness, preload class B	188 N/μm
Preload class C GC	690 N
Static axial stiffness, preload class C	285 N/μm
Calculation factor f	1.08
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.02
Calculation factor f2C	1.05
Calculation factor fHC	1.01
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	0.66 kg