



W 6003-2RS1

Popular item

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification



DIMENSIONS

d	17 mm
D	35 mm
B	10 mm
d ₁	≈ 23.5 mm
d ₂	≈ 23.5 mm
D ₂	≈ 31.85 mm
r _{1,2}	min. 0.3 mm



ABUTMENT DIMENSIONS

d _a	min. 19 mm
d _a	max. 23 mm
D _a	max. 33 mm
r _a	max. 0.3 mm

CALCULATION DATA

Basic dynamic load rating	C	4.94 kN
Basic static load rating	C_0	3.15 kN
Fatigue load limit	P_u	0.137 kN
Limiting speed		13 000 r/min
Calculation factor	k_r	0.03
Calculation factor	f_0	14.1

MASS

Mass bearing	0.038 kg
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More information

<p>Product details</p> <p>Single row deep groove ball bearings</p> <hr/> <p>Stainless steel deep groove ball bearings</p> <hr/> <p>Single row deep groove ball bearings with filling slots</p> <hr/> <p>Double row deep groove ball bearings</p> <hr/> <p>Bearing data</p> <hr/> <p>Loads</p> <hr/> <p>Temperature limits</p> <hr/> <p>Permissible speed</p> <hr/> <p>Designation system</p> <hr/>	<p>Engineering information</p> <p>Principles of rolling bearing selection</p> <hr/> <p>General bearing knowledge</p> <hr/> <p>Bearing selection process</p> <hr/> <p>Bearing interfaces</p> <hr/> <p>Seat tolerances for standard conditions</p> <hr/> <p>Selecting internal clearance</p> <hr/> <p>Lubrication</p> <hr/> <p>Sealing, mounting and dismounting</p> <hr/> <p>Bearing failure and how to prevent it</p> <hr/>	<p>Tools</p> <p>Bearing Select</p> <hr/> <p>SimPro Quick</p> <hr/> <p>Engineering Calculator</p> <hr/> <p>LubeSelect for SKF greases</p> <hr/> <p>Heater selection tool</p> <hr/> <p>Rolling bearings mounting and dismounting instructions</p> <hr/>
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