

**FAG****7603020-TVP**

Axial angular contact ball bearing

Axial angular contact ball bearings 7603, single direction, with contact angle $\alpha = 60^\circ$, restricted tolerances

Technical information



Your current product variant

Cage	TVP	Plastic cage
Type of Seal	Without	
Arrangement bearing set	Standard	Single bearing
Lubricant	Without	Not greased

Main Dimensions & Performance Data

d	20 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,005 mm	Bore diameter lower tolerance
D	52 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,007 mm	Outside diameter lower tolerance
B	15 mm	Width
	0 mm	Width upper tolerance
	-0,12 mm	Width lower tolerance
C _a	25.500 N	Basic dynamic load rating, axial
C _{0a}	53.000 N	Basic static load rating, axial
C _{ua}	2.430 N	Fatigue load limit, axial
n _G Grease	8.200 1/min	Limiting speed for grease lubrication
n _g	4.500 1/min	Thermally safe operating speed
≈m	0,168 kg	Weight



Mounting dimensions

D_a	43,5 mm	Diameter of housing
D_a	H12	Diameter of housing clearance
d_a	30,5 mm	Diameter shaft
d_a	h12	Diameter shaft clearance

Dimensions

r_{min}	1,1 mm	Minimum chamfer dimension
$r_{1 min}$	1,1 mm	Minimum chamfer dimension
a	39,5 mm	Distance between the apexes of the pressure cones
α	60 °	Contact angle

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Additional information

M_R	0,06 Nm	Bearing frictional torque
c_{aL}	787 N/μm	Rigidity axial
	2 μm	Axial runout
	ZM20	Recommended INA precision locknut for radial locking
	AM20	Recommended INA precision locknut for axial locking
M_A	25 Nm	Tightening torque for the recommended INA precision locknut
	11.600 N	Required locknut force axial



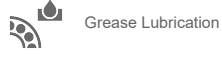
Characteristics



Radial load



Axial load in one direction



Grease Lubrication



Not sealed