

**FAG****7603045-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
Sealing	Without	
Arrangement bearing set	Standard	Single bearing
Lubricant	Without	Not greased

Main Dimensions & Performance Data

d	45 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,006 mm	Bore diameter lower tolerance
D	100 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,008 mm	Outside diameter lower tolerance
B	25 mm	Width
	0 mm	Width upper tolerance
	-0,12 mm	Width lower tolerance
C _a	62.000 N	Basic dynamic load rating, axial
C _{0a}	172.000 N	Basic static load rating, axial
C _{ua}	7.800 N	Fatigue load limit, axial
n _G Grease	4.000 1/min	Limiting speed for grease lubrication
n _g	2.200 1/min	Thermally safe operating speed
≈m	0,977 kg	Weight



Mounting dimensions

D_a	85,5 mm	Diameter of housing
D_a	H12	Diameter of housing clearance
d_a	64,5 mm	Diameter shaft
d_a	h12	Diameter shaft clearance

Dimensions

r_{min}	1,5 mm	Minimum chamfer dimension
$r_{1 min}$	1,5 mm	Minimum chamfer dimension
a	77,5 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	0,3 Nm	Bearing frictional torque
c_{aL}	1.473 N/μm	Rigidity axial
	2 μm	Axial runout
	ZM45	Recommended INA precision locknut for radial locking
	AM45	Recommended INA precision locknut for axial locking
M_A	120 Nm	Tightening torque for the recommended INA precision locknut
	25.160 N	Required locknut force axial



Characteristics



Radial load



Axial load in one direction



Grease Lubrication



Not sealed