



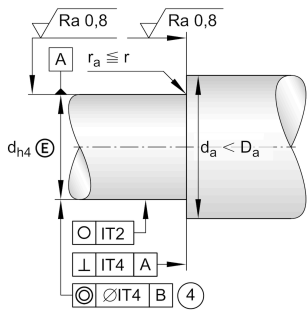
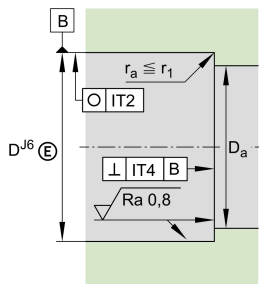
**FAG**

**7603050-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 Sealing	Without	
Arrangement bearing set	Standard	Single bearing
Lubricant	Without	Not greased

Main Dimensions & Performance Data

d	50 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,006 mm	Bore diameter lower tolerance
D	110 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,008 mm	Outside diameter lower tolerance
B	27 mm	Width
	0 mm	Width upper tolerance
	-0,12 mm	Width lower tolerance
C <sub>a</sub>	72.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	203.000 N	Basic static load rating, axial
C <sub>ua</sub>	9.200 N	Fatigue load limit, axial
n <sub>G</sub> Grease	3.600 1/min	Limiting speed for grease lubrication
n <sub>g</sub>	2.000 1/min	Thermally safe operating speed
≈m	1,13 kg	Weight



### Mounting dimensions

$D_a$	94 mm	Diameter of housing
$D_a$	H12	Diameter of housing clearance
$d_a$	72 mm	Diameter shaft
$d_a$	h12	Diameter shaft clearance

### Dimensions

$r_{min}$	2 mm	Minimum chamfer dimension
$r_{1 min}$	2 mm	Minimum chamfer dimension
$a$	85,5 mm	Distance between the apexes of the pressure cones
$\alpha$	60 °	Contact angle

### Temperature range

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

### Additional information

$M_R$	0,36 Nm	Bearing frictional torque
$c_{aL}$	1.601 N/μm	Rigidity axial
	2 μm	Axial runout
	ZM50	Recommended INA precision locknut for radial locking
	AM50	Recommended INA precision locknut for axial locking
$M_A$	150 Nm	Tightening torque for the recommended INA precision locknut
	28.930 N	Required locknut force axial



### Characteristics

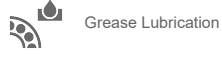
---



Radial load



Axial load in one direction



Grease Lubrication



Not sealed