



FAG

B7011-E-2RSD-T-P4S-UL [🔗](#)

Spindle bearing

Spindle bearing B70...-E-2RSD, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, lip seals on both sides, non-contact, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

Preload class	L	Preload light
Contact angle	E	Contact angle 25°
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing
Lubricant	GA21	Grease for super precision bearings, standard

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	18 mm	Width
C _r	37.000 N	Basic dynamic load rating, radial
C _{0r}	21.000 N	Basic static load rating, radial
C _{ur}	2.230 N	Fatigue load limit, radial
n _{G Grease}	14.000 1/min	Limiting speed for grease lubrication
≈m	371,84 g	Masa



Mounting dimensions

d _a	62 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	83 mm	Shoulder diameter outer ring
D _a	H12	
r _a max	1 mm	Maximum recess radius
r _{a1} max	0,6 mm	Maximum recess radius
a	25,9 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1,1 mm	Minimum chamfer dimension
r ₁ min	1,1 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	80 °C	Operating temperature max.

Additional information

F _{V L}	296 N	Preload force light
F _{V M}	1.059 N	Preload force medium
F _{V H}	2.234 N	Preload force heavy
K _{aE L}	862 N	Lift-off force light
K _{aE M}	3.197 N	Lift-off force medium
K _{aE H}	6.983 N	Lift-off force heavy
c _{a L}	142 N/μm	Axial rigidity light
c _{a M}	230 N/μm	Axial rigidity medium
c _{a H}	314 N/μm	Axial rigidity heavy



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne