



FAG

B7009-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	45 mm	Bore diameter
D	75 mm	Outside diameter
B	16 mm	Width
C _r	26.500 N	Basic dynamic load rating, radial
C _{0r}	14.200 N	Basic static load rating, radial
C _{ur}	1.500 N	Fatigue load limit, radial
n _{G Grease}	17.000 1/min	Limiting speed for grease lubrication
≈m	231,51 g	Masa



Mounting dimensions

d _a	51 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	69 mm	Shoulder diameter outer ring
D _a	H12	
r _a max	1 mm	Maximum recess radius
r _{a1} max	0,3 mm	Maximum recess radius
a	22 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1 mm	Minimum chamfer dimension
r ₁ min	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}	208 N	Preload force light
F _{V M}	763 N	Preload force medium
F _{V H}	1.622 N	Preload force heavy
K _{aE L}	606 N	Lift-off force light
K _{aE M}	2.308 N	Lift-off force medium
K _{aE H}	5.082 N	Lift-off force heavy
c _{a L}	115 N/μm	Axial rigidity light
c _{a M}	189 N/μm	Axial rigidity medium
c _{a H}	259 N/μm	Axial rigidity heavy



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne