



FAG

HSS7009-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HSS70...-E, 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

Contact angle	E	Contact angle 25°
Type of Seal	2RSD	Non-contact sealed on both sides and greased "for life"
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Arrangement bearing set	U	Single bearing
Preload class	L	Preload light
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	11.600 N	Basic dynamic load rating, radial
C _{0r}	7.100 N	Basic static load rating, radial
C _{ur}	750 N	Fatigue load limit, radial
n _G Grease	24.000 1/min	Limiting speed for grease lubrication
n _G	36.000 1/min	Limiting speed
≈m	0,258 kg	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	Shoulder diameter outer ring clearance
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}	70 N	Preload force light
F _{V M}	210 N	Preload force medium
F _{V H}	421 N	Preload force heavy
K _{aE L}	203 N	Lift-off force light
K _{aE M}	621 N	Lift-off force medium
K _{aE H}	1.269 N	Lift-off force heavy
c _{a L}	85 N/μm	Axial rigidity light
c _{a M}	128 N/μm	Axial rigidity medium
c _{a H}	167 N/μm	Axial rigidity heavy



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne