



FAG

B7003-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	L	Preload light
Contact angle	E	Contact angle 25°
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Sealing	2RSD	Non-contact sealed on both sides and greased "for life"
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing
Lubricant	GA21	Grease for super precision bearings, standard

Main Dimensions & Performance Data

d	17 mm	Bore diameter
D	35 mm	Outside diameter
B	10 mm	Width
C _r	8.200 N	Basic dynamic load rating, radial
C _{0r}	3.350 N	Basic static load rating, radial
C _{ur}	355 N	Fatigue load limit, radial
n _{G Grease}	43.000 1/min	Limiting speed for grease lubrication
≈m	38,37 g	Masa



Mounting dimensions

d _a	21 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	32 mm	Shoulder diameter outer ring
D _a	H12	
r _{a max}	0,3 mm	Maximum recess radius
r _{a1 max}	0,1 mm	Maximum recess radius
a	11,1 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	0,3 mm	Minimum chamfer dimension
r _{1 min}	0,3 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}	54 N	Preload force light
F _{V M}	220 N	Preload force medium
F _{V H}	483 N	Preload force heavy
K _{aE L}	156 N	Lift-off force light
K _{aE M}	663 N	Lift-off force medium
K _{aE H}	1.504 N	Lift-off force heavy
c _{a L}	48 N/μm	Axial rigidity light
c _{a M}	81 N/μm	Axial rigidity medium
c _{a H}	112 N/μm	Axial rigidity heavy



Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie dożywotnie, bezobsługowe
-  Smarowanie smarem
-  Uszczelnienie dwustronne