



FAG

B7007-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	35 mm	Bore diameter
D	62 mm	Outside diameter
B	14 mm	Width
C _r	18.400 N	Basic dynamic load rating, radial
C _{0r}	9.200 N	Basic static load rating, radial
C _{ur}	970 N	Fatigue load limit, radial
n _{G Grease}	22.000 1/min	Limiting speed for grease lubrication
≈m	151,6 g	Masa



Mounting dimensions

d_a	41 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	56 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	18,3 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_{VL}	134 N	Preload force light
F_{VM}	511 N	Preload force medium
F_{VH}	1.097 N	Preload force heavy
K_{aEL}	394 N	Lift-off force light
K_{aEM}	1.551 N	Lift-off force medium
K_{aEH}	3.446 N	Lift-off force heavy
c_{aL}	88 N/μm	Axial rigidity light
c_{aM}	146 N/μm	Axial rigidity medium
c_{aH}	200 N/μm	Axial rigidity heavy



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne