



FAG

HS7005-C-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HS70...-C, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

Contact angle	C	Contact angle 15°
Sealing	Without	Not sealed
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

Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
C _r	5.800 N	Basic dynamic load rating, radial
C _{0r}	3.000 N	Basic static load rating, radial
C _{ur}	315 N	Fatigue load limit, radial
n _G Grease	45.000 1/min	Limiting speed for grease lubrication
n _G Oil	70.000 1/min	Limiting speed for oil lubrication
n _G	70.000 1/min	Limiting speed
≈m	0,09 kg	Masa





Mounting dimensions

d_a	30 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	42 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	0,6 mm	Maximum recess radius
$r_{a1 \max}$	0,3 mm	Maximum recess radius
$E_{tk \min}$	33,6 mm	Minimum diameter injection pitch
$E_{tk \max}$	34,5 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	32,2 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	34,5 mm	Maximum diameter injection pitch
a	10,8 mm	Distance between the apexes of the pressure cones

Dimensions

$r_{\min}$	0,6 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
α	15 °	Contact angle

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	100 °C	Operating temperature max.



Additional information

F_{VL}	21 N	Preload force light
F_{VM}	63 N	Preload force medium
F_{VH}	127 N	Preload force heavy
K_{aEL}	64 N	Lift-off force light
K_{aEM}	201 N	Lift-off force medium
K_{aEH}	419 N	Lift-off force heavy
c_{aL}	21 N/μm	Axial rigidity light
c_{aM}	33 N/μm	Axial rigidity medium
c_{aH}	45 N/μm	Axial rigidity heavy

Właściwości

- 

Obciążenie promieniowe
- 

Obciążenie osiowe jednokierunkowe
- 

Smarowanie smarem
- 

Smarowanie olejem
- 

Bez uszczelnienia