



FAG

HC7005-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HC70...-E, adjusted, in pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

Preload class	L	Preload light
Contact angle	E	Contact angle 25°
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

Main Dimensions & Performance Data

d	25 mm	Bore diameter
D	47 mm	Outside diameter
B	12 mm	Width
C _r	5.500 N	Basic dynamic load rating, radial
C _{0r}	2.700 N	Basic static load rating, radial
C _{ur}	218 N	Fatigue load limit, radial
n _{G Grease}	53.000 1/min	Limiting speed for grease lubrication
n _{G Oil}	80.000 1/min	Limiting speed for oil lubrication
m	0,083 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	14,4 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	25 °	Contact angle

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	100 °C	Operating temperature max.



Additional information

F_{VL}	23 N	Preload force light
F_{VM}	70 N	Preload force medium
F_{VH}	140 N	Preload force heavy
K_{aEL}	67 N	Lift-off force light
K_{aEM}	204 N	Lift-off force medium
K_{aEH}	415 N	Lift-off force heavy
c_{aL}	50 N/μm	Axial rigidity light
c_{aM}	75 N/μm	Axial rigidity medium
c_{aH}	97 N/μm	Axial rigidity heavy

Właściwości

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Obciążenie promieniowe
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Obciążenie osiowe jednokierunkowe
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Smarowanie smarem
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Smarowanie olejem
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Bez uszczelnienia