



FAG

HC7019-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

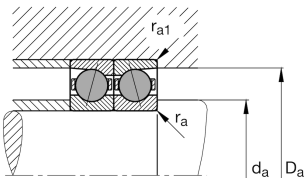
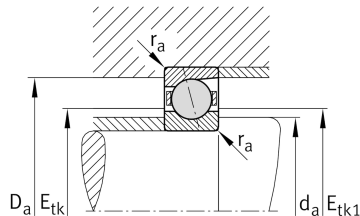


Twoja aktualna wersja produktu

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	95 mm	Bore diameter
D	145 mm	Outside diameter
B	24 mm	Width
C_r	34.500 N	Basic dynamic load rating, radial
C_{0r}	25.000 N	Basic static load rating, radial
C_{ur}	1.840 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	15.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	24.000 1/min	Limiting speed for oil lubrication
$\approx m$	1,184 kg	Masa





Mounting dimensions

d _a	105 mm	Diameter shaft shoulder
d _a	h12	Diameter shaft shoulder clearance
D _a	136 mm	Shoulder diameter outer ring
D _a	H12	Shoulder diameter outer ring clearance
r _a max	1,5 mm	Maximum recess radius
r _{a1} max	0,6 mm	Maximum recess radius
E _{tk} min	114,3 mm	Minimum diameter injection pitch
E _{tk} max	116,8 mm	Maximum diameter injection pitch
E _{tk1} min	110,7 mm	Minimum diameter injection pitch
E _{tk1} max	116,8 mm	Maximum diameter injection pitch
a	40 mm	Distance between the apexes of the pressure cones

Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
r ₁ min	1,5 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}	141 N	Preload force light
F_{VM}	423 N	Preload force medium
F_{VH}	845 N	Preload force heavy
K_{aEL}	404 N	Lift-off force light
K_{aEM}	1.227 N	Lift-off force medium
K_{aEH}	2.488 N	Lift-off force heavy
c_{aL}	167 N/ μ m	Axial rigidity light
c_{aM}	246 N/ μ m	Axial rigidity medium
c_{aH}	317 N/ μ m	Axial rigidity heavy

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia