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SCHAEFFLER

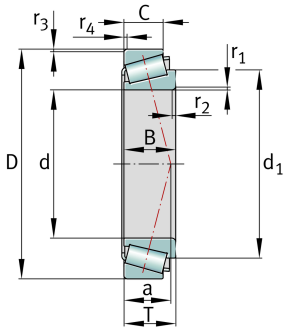
FAG

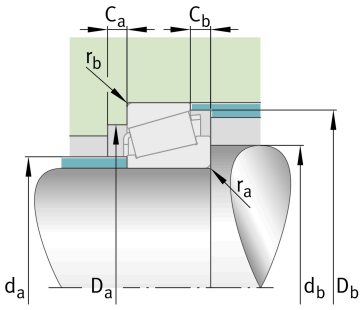
KHM88542-HM88510

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable

Technical information





Your current product variant

Tolerance class	ABMA4	Class 4 (ANSI/ABMA 19.2:2013)
Heat treatment	Standard	
Cage	Standard	Sheet steel cage, window cage, roller-guided
Quality level	Standard	
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	31,75 mm	Bore diameter
D	73,025 mm	Outside diameter
B	27,782 mm	Width, inner ring
C	23,02 mm	Width, outer ring
T	29,37 mm	Width, total
C_r	72.000 N	Basic dynamic load rating, radial
C_{0r}	97.000 N	Basic static load rating, radial
C_{ur}	12.100 N	Fatigue load limit, radial
n_G	9.900 1/min	Limiting speed
$n_{\vartheta r}$	7.600 1/min	Thermal speed rating
≈m	0,621 kg	Weight

Mounting dimensions

$d_{a\ max}$	42,6 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	45,5 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	59 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	63 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	71 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	4 mm	Minimum axial space
$C_{b\ min}$	6 mm	Minimum axial space
$r_{a\ max}$	1,3 mm	Maximum fillet radius of shaft
$r_{b\ max}$	3,3 mm	Maximum fillet radius of housing

Dimensions

$r_{1,\ 2\ min}$	1,3 mm	Minimum chamfer dimension of inner ring back face
$r_{3,\ 4\ min}$	3,3 mm	Minimum chamfer dimension of outer ring back face
a	23 mm	Distance between the apexes of the pressure cones
d_1	58 mm	Guidance rib diameter of inner ring

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Calculation factors

e	0,55	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,1	Dynamic axial load factor
Y_0	0,6	Static axial load factor

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed