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SCHAEFFLER

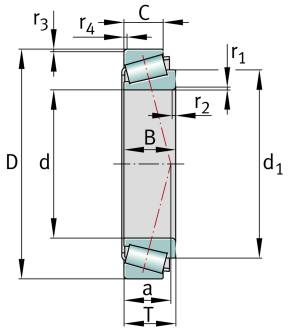
FAG

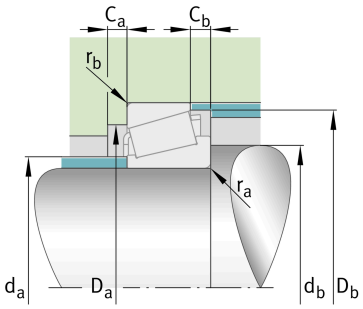
KLM48548-LM48510

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable, adjusted or in pairs

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 rolling element rows	1	Single-row design

Main Dimensions & Performance Data

d	34.925 mm	Bore diameter
D	65.088 mm	Outside diameter
B	18.288 mm	Width, inner ring
C	13.97 mm	Width, outer ring
T	18.034 mm	Width, total
C_r	46,500 N	Basic dynamic load rating, radial
C_{0r}	56,000 N	Basic static load rating, radial
C_{ur}	6,600 N	Fatigue load limit, radial
n_G	11,500 1/min	Limiting speed
$n_{\vartheta r}$	6,900 1/min	Thermal speed rating
≈m	0.257 kg	Weight

Mounting dimensions

$d_{a\ max}$	41.5 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	48 mm	Minimum diameter of shaft shoulder
$D_{a\ min}$	58 mm	Minimum diameter of housing shoulder
$D_{a\ max}$	59 mm	Maximum diameter of housing shoulder
$D_{b\ min}$	61 mm	Minimum diameter of housing shoulder
$C_{a\ min}$	3 mm	Minimum axial space
$C_{b\ min}$	4 mm	Minimum axial space
$r_{a\ max}$	3.6 mm	Maximum fillet radius of shaft
$r_{b\ max}$	1.3 mm	Maximum fillet radius of housing

Dimensions

$r_{1,\ 2\ min}$	3.6 mm	Minimum chamfer dimension of inner ring back face
$r_{3,\ 4\ min}$	1.3 mm	Minimum chamfer dimension of outer ring back face
a	14 mm	Distance between the apexes of the pressure cones
d_1	49.7 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	0.38	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1.59	Dynamic axial load factor
Y_0	0.88	Static axial load factor

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed