



FAG

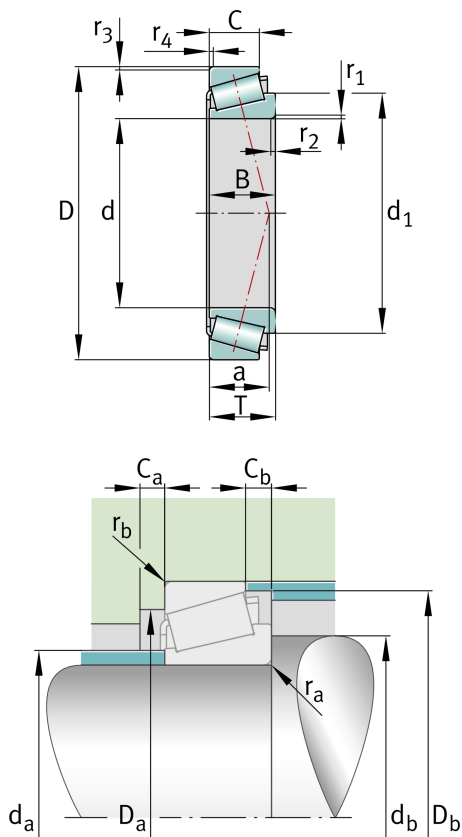
30209-XL

Tapered roller bearing

Schaeffler ID:
0827710650000Tapered roller bearings 302, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

X-life

Technical information



Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width, inner ring
C	16 mm	Width, outer ring
T	20,75 mm	Width, total
C_r	84.000 N	Basic dynamic load rating, radial
C_{0r}	83.000 N	Basic static load rating, radial
C_{ur}	12.900 N	Fatigue load limit, radial
n_G	9.600 1/min	Limiting speed
n_{gr}	5.400 1/min	Thermal speed rating
	0,005 kg	Weight

Dimensions

	T3DB045	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \text{ min}}$	1,5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	1,5 mm	Minimum chamfer dimension of outer ring back face
a	18 mm	Distance between the apexes of the pressure cones

Mounting dimensions

$d_{a \max}$	54 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	52 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	74 mm	Minimum diameter of housing shoulder
$D_{a \max}$	78 mm	Maximum diameter of housing shoulder
$D_{b \min}$	80 mm	Minimum diameter of housing shoulder
$C_{a \min}$	3 mm	Minimum axial space
$C_{b \min}$	4,5 mm	Minimum axial space
$r_{a \max}$	1,5 mm	Maximum fillet radius of shaft
$r_{b \max}$	1,5 mm	Maximum fillet radius of housing

Calculation factors

e	0,4	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1,48	Dynamic axial load factor
Y_0	0,81	Static axial load factor

Temperature range

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