

FAG

★ T7FC055-XL

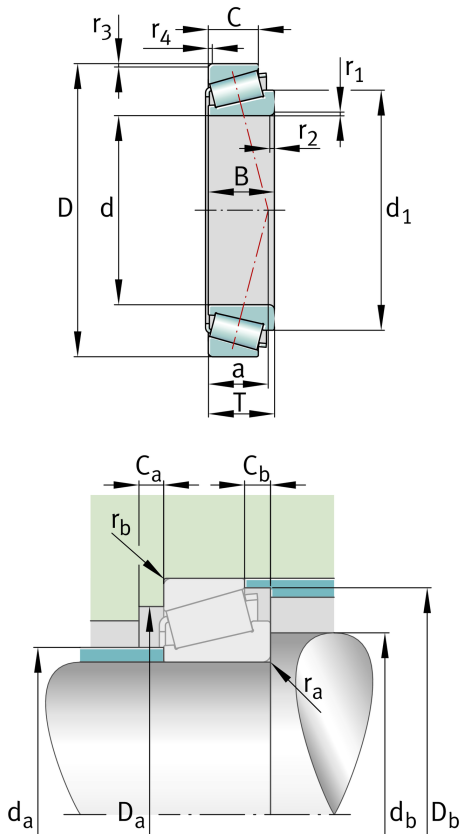
Tapered roller bearing

Schaeffler ID:
0802300910000Tapered roller bearing T7FC..-XL, single
row

★ Preferred product

X-life

Technical information



Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	120 °C	Operating temperature max.
	1,591 kg	Weight

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	115 mm	Outside diameter
B	31 mm	Width, inner ring
C	23,5 mm	Width, outer ring
T	34 mm	Width, total
C_r	152.000 N	Basic dynamic load rating, radial
C_{0r}	165.000 N	Basic static load rating, radial
C_{ur}	26.000 N	Fatigue load limit, radial
n_G	6.600 1/min	Limiting speed
n_{gr}	5.000 1/min	Thermal speed rating

Dimensions

$r_{1,2 \min}$	3 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \min}$	3 mm	Minimum chamfer dimension of outer ring back face
a	40 mm	Distance between the apexes of the pressure cones
d_1	88,8 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	65 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	72 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	86 mm	Minimum diameter of housing shoulder
$D_{a \max}$	101 mm	Maximum diameter of housing shoulder
$D_{b \min}$	109 mm	Minimum diameter of housing shoulder
$C_{a \min}$	5 mm	Minimum axial space
$C_{b \min}$	10,5 mm	Minimum axial space
$r_{a \max}$	3 mm	Maximum fillet radius of shaft
$r_{b \max}$	3 mm	Maximum fillet radius of housing

Calculation factors

	T7FC055	Comparative designation to ISO 10317 and ISO 355
e	0,87	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	0,69	Dynamic axial load factor
Y_0	0,38	Static axial load factor