



FAG

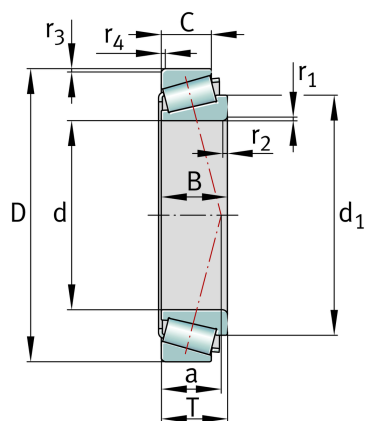
31315-XL

Tapered roller bearing

Schaeffler ID:
0834279370000Tapered roller bearings 313, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

X-life

Technical information



Main Dimensions & Performance Data

d	75 mm	Bore diameter
D	160 mm	Outside diameter
B	37 mm	Width, inner ring
C	26 mm	Width, outer ring
T	40 mm	Width, total
C_r	240,000 N	Basic dynamic load rating, radial
C_{0r}	236,000 N	Basic static load rating, radial
C_{ur}	35,500 N	Fatigue load limit, radial
n_G	5,300 1/min	Limiting speed
n_{gr}	3,300 1/min	Thermal speed rating
	3.345 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	3 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	2.5 mm	Minimum chamfer dimension of outer ring back face
a	50 mm	Distance between the apexes of the pressure cones
d_1	117.6 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	91 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	87 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	127 mm	Minimum diameter of housing shoulder
$D_{a \max}$	148 mm	Maximum diameter of housing shoulder
$D_{b \min}$	151 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	14 mm	Minimum axial space
$r_{a \max}$	3 mm	Maximum fillet radius of shaft
$r_{b \max}$	2.5 mm	Maximum fillet radius of housing

Calculation factors

	T7GB075	Comparative designation to ISO 10317 and ISO 355
e	0.83	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	0.73	Dynamic axial load factor
Y_0	0.4	Static axial load factor

Temperature range

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