



FAG

32244-XL

Tapered roller bearing

Schaeffler ID:
0896724880000

Tapered roller bearings 322, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

Technical information



Main Dimensions & Performance Data

d	220 mm	Bore diameter
D	400 mm	Outside diameter
B	108 mm	Width, inner ring
C	90 mm	Width, outer ring
T	114 mm	Width, total
C_r	1.820.000 N	Basic dynamic load rating, radial
C_{0r}	2.550.000 N	Basic static load rating, radial
C_{ur}	310.000 N	Fatigue load limit, radial
n_G	1.800 1/min	Limiting speed
n_{gr}	920 1/min	Thermal speed rating
	59,6 kg	Weight

Dimensions

$r_{1,2 \text{ min}}$	5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	4 mm	Minimum chamfer dimension of outer ring back face
a	95 mm	Distance between the apexes of the pressure cones
d_1	305 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	258 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	237 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	336 mm	Minimum diameter of housing shoulder
$D_{a \max}$	382 mm	Maximum diameter of housing shoulder
$D_{b \min}$	380 mm	Minimum diameter of housing shoulder
$C_{a \min}$	12 mm	Minimum axial space
$C_{b \min}$	24 mm	Minimum axial space
$r_{a \max}$	5 mm	Maximum fillet radius of shaft
$r_{b \max}$	4 mm	Maximum fillet radius of housing

Calculation factors

e	0,43	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1,38	Dynamic axial load factor
Y_0	0,76	Static axial load factor

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	200 °C	Operating temperature max.