



FAG

## 32024-X-XL

Tapered roller bearing

Schaeffler ID:  
0833288660000

Tapered roller bearings 320, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

## Technical information



## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	38 mm	Width, inner ring
C	29 mm	Width, outer ring
T	38 mm	Width, total
$C_r$	295.000 N	Basic dynamic load rating, radial
$C_{0r}$	420.000 N	Basic static load rating, radial
$C_{ur}$	63.000 N	Fatigue load limit, radial
$n_G$	4.050 1/min	Limiting speed
$n_{gr}$	2.460 1/min	Thermal speed rating
	3,335 kg	Weight

## Dimensions

	T4DC120	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \text{ min}}$	2,5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	2 mm	Minimum chamfer dimension of outer ring back face
a	40 mm	Distance between the apexes of the pressure cones
$d_1$	151,2 mm	Guidance rib diameter of inner ring

### Mounting dimensions

$d_{a \max}$	131 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	130 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	161 mm	Minimum diameter of housing shoulder
$D_{a \max}$	170 mm	Maximum diameter of housing shoulder
$D_{b \min}$	173 mm	Minimum diameter of housing shoulder
$C_{a \min}$	7 mm	Minimum axial space
$C_{b \min}$	9 mm	Minimum axial space
$r_{a \max}$	2,5 mm	Maximum fillet radius of shaft
$r_{b \max}$	2 mm	Maximum fillet radius of housing

### Calculation factors

e	0,46	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
Y	1,31	Dynamic axial load factor
$Y_0$	0,72	Static axial load factor

### Temperature range

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