



FAG

33024

Tapered roller bearing

Schaeffler ID:  
0190022700000

Tapered roller bearings 330, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

## Technical information



## Main Dimensions &amp; Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	48 mm	Width, inner ring
C	38 mm	Width, outer ring
T	48 mm	Width, total
$C_r$	310.000 N	Basic dynamic load rating, radial
$C_{0r}$	560.000 N	Basic static load rating, radial
$C_{ur}$	66.000 N	Fatigue load limit, radial
$n_G$	3.700 1/min	Limiting speed
$n_{gr}$	2.600 1/min	Thermal speed rating
	4,214 kg	Weight

## Dimensions

	T2DE120	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	36 mm	Distance between the apexes of the pressure cones
$d_1$	149,1 mm	Guidance rib diameter of inner ring

**Mounting dimensions**

$d_{a \max}$	132 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	130 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	160 mm	Minimum diameter of housing shoulder
$D_{a \max}$	170 mm	Maximum diameter of housing shoulder
$D_{b \min}$	171 mm	Minimum diameter of housing shoulder
$C_{a \min}$	6 mm	Minimum axial space
$C_{b \min}$	10 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	0,31	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
Y	1,97	Dynamic axial load factor
$Y_0$	1,08	Static axial load factor

**Temperature range**

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