



FAG

30305-A

Tapered roller bearing

Schaeffler ID:
0167108510000Tapered roller bearings 303, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

Technical information

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width, inner ring
C	15 mm	Width, outer ring
T	18,25 mm	Width, total
C_r	47.000 N	Basic dynamic load rating, radial
C_{0r}	45.500 N	Basic static load rating, radial
C_{ur}	5.300 N	Fatigue load limit, radial
n_G	12.800 1/min	Limiting speed
n_{gr}	8.000 1/min	Thermal speed rating
	0,003 kg	Weight

Dimensions

	T2FB025	Comparative designation to ISO 10317 and ISO 355
$r_{1,2 \text{ min}}$	1,5 mm	Minimum chamfer dimension of inner ring back face
$r_{3,4 \text{ min}}$	1,5 mm	Minimum chamfer dimension of outer ring back face
a	13 mm	Distance between the apexes of the pressure cones
d_1	42,3 mm	Guidance rib diameter of inner ring

Mounting dimensions

$d_{a \max}$	34 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	32 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	54 mm	Minimum diameter of housing shoulder
$D_{a \max}$	55 mm	Maximum diameter of housing shoulder
$D_{b \min}$	57 mm	Minimum diameter of housing shoulder
$C_{a \min}$	2 mm	Minimum axial space
$C_{b \min}$	3 mm	Minimum axial space
$r_{a \max}$	1,5 mm	Maximum fillet radius of shaft
$r_{b \max}$	1,5 mm	Maximum fillet radius of housing

Calculation factors

e	0,3	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	2	Dynamic axial load factor
Y_0	1,1	Static axial load factor

Temperature range

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