



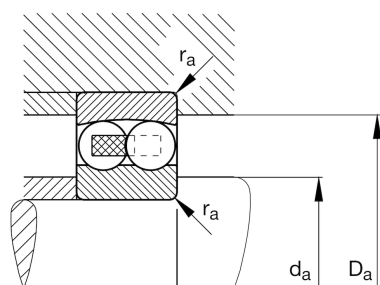
FAG

**2305-TVH**

Self-aligning ball bearing

Schaeffler ID:  
0167070520000Self-aligning ball bearing 23..-TVH, plastic  
cage

## Technical information

**Main Dimensions & Performance Data**

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	24 mm	Width
$r_{\min}$	1.1 mm	Minimum chamfer dimension
$C_r$	25,000 N	Basic dynamic load rating, radial
$C_{0r}$	6,600 N	Basic static load rating, radial
$C_{ur}$	420 N	Fatigue load limit, radial
$n_G$	12,200 1/min	Limiting speed
$n_{gr}$	11,900 1/min	Reference speed
	0.003 kg	Weight

**Dimensions**

$D_1$	49.9 mm	Shoulder diameter outer ring
$d_1$	35.5 mm	Shoulder diameter inner ring

**Mounting dimensions**

$d_{a\min}$	32 mm	Minimum diameter shaft shoulder
$D_{a\max}$	55 mm	Maximum diameter of housing shoulder
$r_{a\max}$	1 mm	Maximum fillet radius

**Calculation factors**

e	0.48	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	1.32	Dynamic axial load factor
$Y_2$	2.04	Dynamic axial load factor
$Y_0$	1.38	Static axial load factor

**Temperature range**

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