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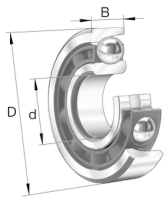


FAG

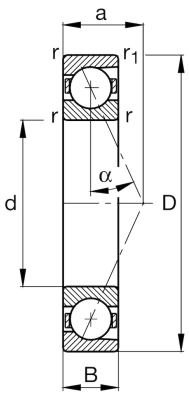
B7001-E-T-P4S-UL

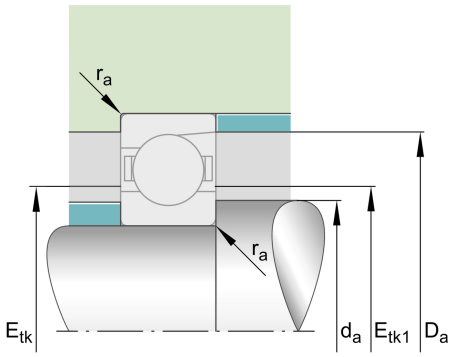
Spindle bearing

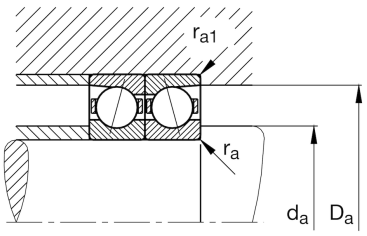
Schaeffler ID:
0167275090000

Spindle bearings B70..-E, adjusted, in pairs or sets, contact angle α = 25°, restricted tolerances

Technical information







Main Dimensions & Performance Data

d	12 mm	Bore diameter
D	28 mm	Outside diameter
B	8 mm	Width
C_r	4.450 N	Basic dynamic load rating, radial
C_{0r}	1.750 N	Basic static load rating, radial
C_{ur}	185 N	Fatigue load limit, radial
$n_{G\ Grease}$	53.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	85.000 1/min	Limiting speed for oil lubrication
	27 g	Weight

Dimensions

r_{min}	0,3 mm	Minimum chamfer dimension
$r_{1\ min}$	0,3 mm	Minimum chamfer dimension
α	25 °	Contact angle

Mounting dimensions

d_a	16,5 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	24,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	0,3 mm	Maximum recess radius
$r_{a1\ max}$	0,1 mm	Maximum recess radius
$E_{tk\ min}$	17,9 mm	Minimum diameter injection pitch
$E_{tk\ max}$	18,8 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	17,9 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	18,8 mm	Maximum diameter injection pitch
a	8,7 mm	Distance between the apexes of the pressure cones

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Additional information

$F_{V\,L}$	23 N	Preload force light
$F_{V\,M}$	109 N	Preload force medium
$F_{V\,H}$	248 N	Preload force heavy
$K_{aE\,L}$	66 N	Lift-off force light
$K_{aE\,M}$	328 N	Lift-off force medium
$K_{aE\,H}$	775 N	Lift-off force heavy
$c_{a\,L}$	31,8 N/µm	Axial rigidity light
$c_{a\,M}$	57,2 N/µm	Axial rigidity medium
$c_{a\,H}$	80,3 N/µm	Axial rigidity heavy