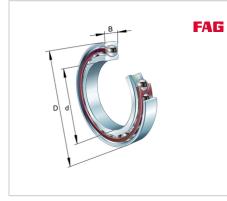
# SCHAEFFLER



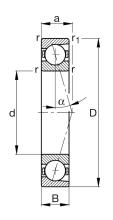
# B7003-E-T-P4S-UL

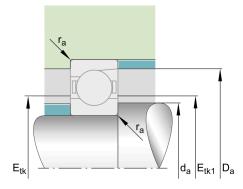
Spindle bearing

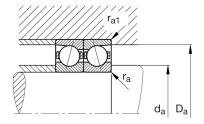
Schaeffler ID: 0191500080000

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

# Technical information







#### Main Dimensions & Performance Data

d	0,669 in	Bore diameter
D	1,378 in	Outside diameter
В	0,394 in	Width
C <sub>r</sub>	1.843,525 lbf	Basic dynamic load rating, radial
C <sub>0r</sub>	753,147 lbf	Basic static load rating, radial
C <sub>ur</sub>	79,811 lbf	Fatigue load limit, radial
n <sub>G Grease</sub>	43.000 1/min	Limiting speed for grease lubrication
n <sub>G Oil</sub>	63.000 1/min	Limiting speed for oil lubrication
	0,088 lbs	\${Weight}

### Mounting dimensions

d <sub>a</sub>	0,827 in	Diameter shaft shoulder
d <sub>a</sub>	h12	Diameter shaft shoulder clearance
D <sub>a</sub>	1,26 in	Shoulder diameter outer ring
D <sub>a</sub>	H12	Shoulder diameter outer ring clearance
r <sub>a max</sub>	0,012 in	Maximum recess radius
r <sub>a1 max</sub>	0,004 in	Maximum recess radius
E <sub>tk min</sub>	0,917 in	Minimum diameter injection pitch
E <sub>tk max</sub>	0,965 in	Maximum diameter injection pitch
E <sub>tk1 min</sub>	0,917 in	Minimum diameter injection pitch
E <sub>tk1 max</sub>	0,965 in	Maximum diameter injection pitch
а	0,437 in	Distance between the apexes of the pressure
		cones

### Dimensions

r <sub>min</sub>	0,012 in	Minimum chamfer dimension
r <sub>1 min</sub>	0,012 in	Minimum chamfer dimension
α	25 °	Contact angle

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the contact form on our website.

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#### Temperature range

T <sub>min</sub>	-22 °F	Operating temperature min.
T <sub>max</sub>	212 °F	Operating temperature max.

## Additional information

Additional mormation				
F <sub>VL</sub>	12,14 lbf	Preload force light		
F <sub>VM</sub>	49,46 lbf	Preload force medium		
F <sub>VH</sub>	108,588 lbf	Preload force heavy		
K <sub>aE L</sub>	35,072 lbf	Lift-off force light		
K <sub>aE M</sub>	149,056 lbf	Lift-off force medium		
K <sub>aE H</sub>	338,129 lbf	Lift-off force heavy		
C <sub>aL</sub>	47,6 N/µm	Axial rigidity light		
C <sub>aM</sub>	81 N/µm	Axial rigidity medium		
C <sub>aH</sub>	112 N/µm	Axial rigidity heavy		

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