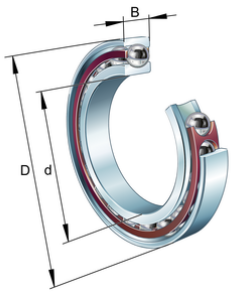


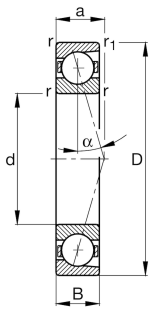
FAG

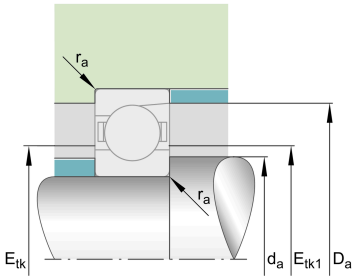
B7238-E-T-P4S-UL

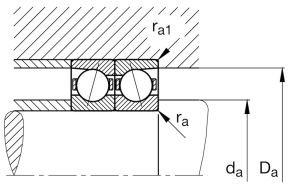
Spindle bearing

Spindle bearing B72..-E, adjusted, in pairs or sets, contact angle α = 25°, restricted tolerances

Technical information







Your current product variant

Preload class	L	Preload light
Contact angle	E	Contact angle 25°
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Sealing	Without	
Outer shape	Standard	
Cage	T	Laminated fabric cage
Arrangement bearing set	U	Single bearing

Main Dimensions & Performance Data

d	190 mm	Bore diameter
D	340 mm	Outside diameter
B	55 mm	Width
C_r	305.000 N	Basic dynamic load rating, radial
C_{0r}	275.000 N	Basic static load rating, radial
C_{ur}	17.900 N	Fatigue load limit, radial
n_G Grease	3.200 1/min	Limiting speed for grease lubrication
n_G Oil	4.800 1/min	Limiting speed for oil lubrication
≈m	20 kg	Weight

Mounting dimensions

d_a	223,5 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	306,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	3 mm	Maximum recess radius
$r_{a1\ max}$	3 mm	Maximum recess radius
$E_{tk\ min}$	242,1 mm	Minimum diameter injection pitch
$E_{tk\ max}$	255,3 mm	Maximum diameter injection pitch
$E_{tk1\ min}$	242,1 mm	Minimum diameter injection pitch
$E_{tk1\ max}$	255,3 mm	Maximum diameter injection pitch
a	89,3 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	4 mm	Minimum chamfer dimension
$r_{1\ min}$	4 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	100 °C	Operating temperature max.

Additional information

$F_{V\,L}$	2.797 N	Preload force light
$F_{V\,M}$	9.366 N	Preload force medium
$F_{V\,H}$	19.397 N	Preload force heavy
$K_{aE\,L}$	8.105 N	Lift-off force light
$K_{aE\,M}$	27.894 N	Lift-off force medium
$K_{aE\,H}$	59.391 N	Lift-off force heavy
$c_{a\,L}$	482 N/µm	Axial rigidity light
$c_{a\,M}$	755 N/µm	Axial rigidity medium
$c_{a\,H}$	1.010 N/µm	Axial rigidity heavy

Characteristics

- Radial load
- Axial load in one direction
- Grease Lubrication
- Oil Lubrication
- Not sealed
- Large bearing