

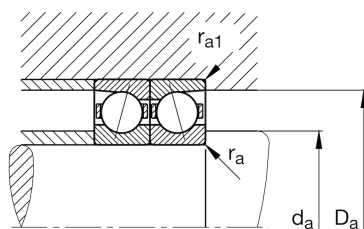
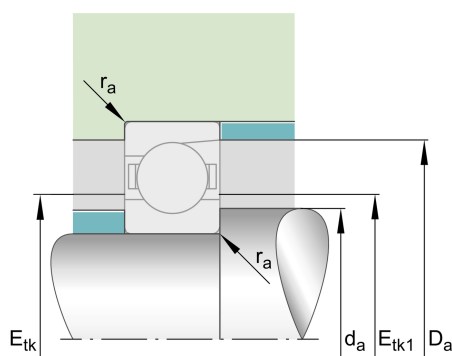
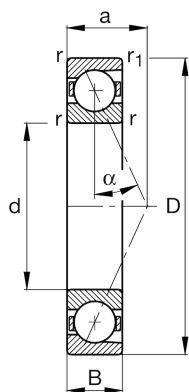
FAG

**B7209-E-T-P4S-UL**

Spindle bearing

Schaeffler ID:  
0191564720000Spindle bearings B72...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , restricted tolerances

## Technical information

**Main Dimensions & Performance Data**

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	19 mm	Width
$C_r$	32.500 N	Basic dynamic load rating, radial
$C_{0r}$	16.900 N	Basic static load rating, radial
$C_{ur}$	1.790 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	15.000 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	24.000 1/min	Limiting speed for oil lubrication
	0,408 kg	Weight

**Dimensions**

$r_{\min}$	1,1 mm	Minimum chamfer dimension
$r_{1 \min}$	1,1 mm	Minimum chamfer dimension
$\alpha$	$25^\circ$	Contact angle

**Mounting dimensions**

$d_a$	52,5 mm	Diameter shaft shoulder
$d_a$	h12	Diameter shaft shoulder clearance
$D_a$	78 mm	Shoulder diameter outer ring
$D_a$	H12	Shoulder diameter outer ring clearance
$r_{a \max}$	1 mm	Maximum recess radius
$r_{a1 \max}$	0,6 mm	Maximum recess radius
$E_{tk \min}$	58,5 mm	Minimum diameter injection pitch
$E_{tk \max}$	62,2 mm	Maximum diameter injection pitch
$E_{tk1 \min}$	58,5 mm	Minimum diameter injection pitch
$E_{tk1 \max}$	62,2 mm	Maximum diameter injection pitch
a	24,7 mm	Distance between the apexes of the pressure cones

**Additional information**

$F_{VL}$	268 N	Preload force light
$F_{VM}$	948 N	Preload force medium
$F_{VH}$	1.994 N	Preload force heavy
$K_{aEL}$	782 N	Lift-off force light
$K_{aEM}$	2.873 N	Lift-off force medium
$K_{aEH}$	6.261 N	Lift-off force heavy
$c_{aL}$	121 N/ $\mu\text{m}$	Axial rigidity light
$c_{aM}$	196 N/ $\mu\text{m}$	Axial rigidity medium
$c_{aH}$	268 N/ $\mu\text{m}$	Axial rigidity heavy