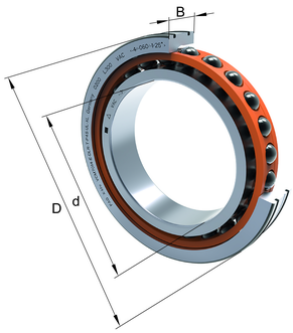


FAG

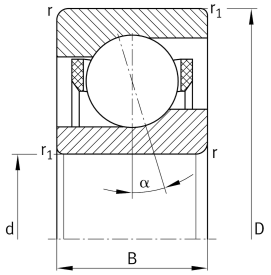
X-life

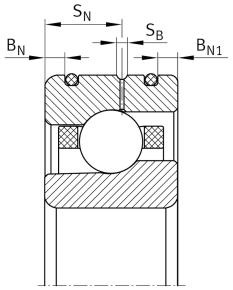
VCM71912-EDLR-T-P4S-UL-XL

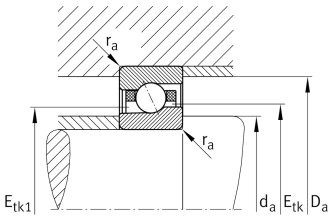
High speed spindle bearing

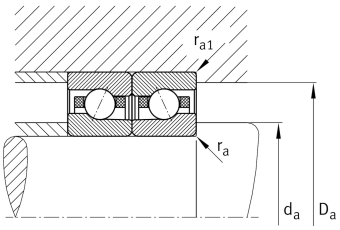
High speed spindle bearing VCM719..-EDLR, adjusted, in pairs or sets, contact angle α = 25°, with ceramic balls, rings made from Vacrodur, restricted tolerances, for direct oil feed via outer ring, with inserted O rings

Technical information









Your current product variant

Preload class	L	Preload light
Contact angle	E	Contact angle 25°
Type of Seal	Without	Not sealed
Outer shape	DLR	Direct lubrication, annular slots with O rings
Cage	T	Laminated fabric cage
Tolerance class	P4S	Tolerance class P4S, FAG standard better than P4 to ISO 492:2023
Arrangement bearing set	U	Single bearing

Main Dimensions & Performance Data

d	60 mm	Bore diameter
D	85 mm	Outside diameter
B	13 mm	Width
C_r	44.500 N	Basic dynamic load rating, radial
C_{0r}	14.000 N	Basic static load rating, radial
C_{ur}	720 N	Fatigue load limit, radial
n_G Grease	28.000 1/min	Limiting speed for grease lubrication
$n_{G\ Oil}$	40.000 1/min	Limiting speed for oil lubrication
≈m	0,146 kg	Weight

The data sheet only contains an overview of the technical data of the selected product. Please refer to the additional documentation for this product. For further information, please use the following link on our website: Contact form

Mounting dimensions

d_a	65 mm	Diameter shaft shoulder
d_a	h12	Diameter shaft shoulder clearance
D_a	80,5 mm	Shoulder diameter outer ring
D_a	H12	Shoulder diameter outer ring clearance
$r_{a\ max}$	0,6 mm	Maximum recess radius
$r_{a1\ max}$	0,3 mm	Maximum recess radius
B_N	2,8 mm	Distance ring grooves
B_{N1}	2 mm	Distance ring grooves
S_N	7,6 mm	Distance to lubrication hole
S_B	1,4 mm	Width of lubricating groove
a	23,4 mm	Distance between the apexes of the pressure cones

Dimensions

r_{min}	1 mm	Minimum chamfer dimension
$r_{1\ min}$	0,6 mm	Minimum chamfer dimension
α	25 °	Contact angle

Temperature range

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

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Additional information

$F_{V\,L}$	105 N	Preload force light
$F_{V\,M}$	275 N	Preload force medium
$F_{V\,H}$	572 N	Preload force heavy
$K_{aE\,L}$	301 N	Lift-off force light
$K_{aE\,M}$	794 N	Lift-off force medium
$K_{aE\,H}$	1.671 N	Lift-off force heavy
$c_{a\,L}$	109 N/µm	Axial rigidity light
$c_{a\,M}$	153 N/µm	Axial rigidity medium
$c_{a\,H}$	200 N/µm	Axial rigidity heavy

Characteristics

Radial load

Axial load in one direction


Oil Lubrication


Not sealed

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