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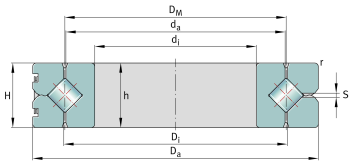
SCHAEFFLER

SX011814-A-VSP+UG

Crossed roller bearing

Crossed roller bearingsdimension series 18 to DIN 616

Technical information



Your current product variant

Preload	VSP	Bearing preload Standard
Lubricant	UG	Ungreased

Main Dimensions & Performance Data

d_1	70 mm	Bore Diameter
	0,004 mm	Bore diameter upper tolerance
	-0,015 mm	Bore diameter lower tolerance
D_a	90 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,022 mm	Outside diameter lower tolerance
H	10 mm	Height of the assembled bearing
h_i	10 mm	Height inner ring
	0,06 mm	Width upper tolerance
	-0,06 mm	Width lower tolerance
≈m	0,174 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

Dimensions

D_i	80,5 mm	Inner diameter outer ring
D_M	80 mm	Rolling element pitch circle diameter
d_a	79,5 mm	Outer diameter inner ring
h	10 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,01 mm	Height of individual ring lower tolerance
r_{min}	0,6 mm	Chamfer dimension
S	1,2 mm	Diameter of lubrication hole

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	80 °C	Operating temperature max.

Calculation factors

	0,01 mm	Running accuracy, radial
	0,01 mm	Running accuracy, axial
VSP_{min}	0,003 mm	Minimum bearing preload
VSP_{max}	0,015 mm	Maximum bearing preload
C_a	16.600 N	Basic dynamic load rating, axial
C_{0a}	52.000 N	Basic static load rating, axial
C_r	11.800 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	25.500 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	955 1/min	Limiting speed for oil lubrication with preload
N_{G} Grease	475 1/min	Limiting speed for grease lubrication with preload
	61814	Dimensions identical to ISO dimension series 18

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Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Grease Lubrication


Oil Lubrication


Not sealed


Small design envelope

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