

**SX011820-A-VSP**

Crossed roller bearing

Crossed roller bearingsdimension series 18 to
DIN 616

Technical information



Your current product variant

Preload	VSP	Bearing preload Standard
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Main Dimensions & Performance Data

d ₁	100 mm	Bore Diameter
	0,004 mm	Bore diameter upper tolerance
	-0,018 mm	Bore diameter lower tolerance
D _a	125 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,025 mm	Outside diameter lower tolerance
H	13 mm	Height of the assembled bearing
h _i	13 mm	Height inner ring
	0,06 mm	Width upper tolerance
	-0,06 mm	Width lower tolerance
≈m	403 g	Weight



Dimensions

D_i	112,5 mm	Inner diameter outer ring
D_M	112 mm	Rolling element pitch circle diameter
d_a	111,5 mm	Outer diameter inner ring
h	13 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,01 mm	Height of individual ring lower tolerance
r_{min}	1 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}	0,005 mm	Minimum bearing preload
VSP _{max}	0,02 mm	Maximum bearing preload
C_a	28.000 N	Basic dynamic load rating, axial
C_{0a}	97.000 N	Basic static load rating, axial
C_r	20.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	47.500 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	680 1/min	Limiting speed for oil lubrication with preload
N_G Grease	340 1/min	Limiting speed for grease lubrication with preload
	61820	Dimensions identical to ISO dimension series 18



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Small design envelope