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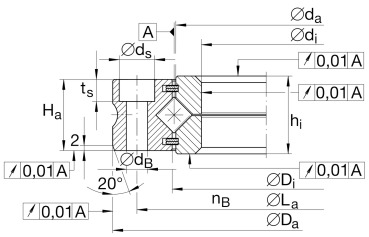
SCHAEFFLER

XV80

Crossed roller bearing

Crossed roller bearings without gear teeth,
lamellar seals on both sides

Technical information



Main Dimensions & Performance Data

d_1	80 mm	Bore Diameter
	0,013 mm	Bore diameter upper tolerance
	-0,006 mm	Bore diameter lower tolerance
D_a	135 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,025 mm	Outside diameter lower tolerance
h_i	19 mm	Height inner ring
≈m	1,078 kg	Weight

Dimensions

D_i	95,5 mm	Inner diameter outer ring
d_a	94,5 mm	Outer diameter inner ring
H_a	18 mm	Width outer ring
L_a	120 mm	Pitch circle diameter fixing holes
n_B	16	Quantity of fixed holes evenly around the circumfence
d_B	6,6 mm	Diameter fixing hole outer ring
d_S	11 mm	Countersunk diameter of fixing holes
t_S	6,4 mm	Countersunk depth of fixing holes

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
C_a	33.500 N	Basic dynamic load rating, axial
C_{0a}	101.000 N	Basic static load rating, axial
C_r	23.800 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	49.500 N	Basic static load rating, radial (for radial load only)
$F_{r\ zul.}$	15.300 N	Max. radial load screws (frictional contact)
N_G Grease	804 1/min	Limiting speed for grease lubrication with normal clearance
N_G Grease	402 1/min	Limiting speed for grease lubrication with preload

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Moments about all axes


Grease Lubrication


Sealed on both sides


Small design envelope