

**SX011832-A-RL0**

Crossed roller bearing

Crossed roller bearingsdimension series 18 to
DIN 616

Technical information



Your current product variant

Radial internal clearance	RL0	Radial clearance 0 to 0,05; axial tilting clearance 0 to 0,08
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Main Dimensions & Performance Data

d ₁	160 mm	Bore Diameter
	0,004 mm	Bore diameter upper tolerance
	-0,021 mm	Bore diameter lower tolerance
D _a	200 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,029 mm	Outside diameter lower tolerance
H	20 mm	Height of the assembled bearing
h _i	20 mm	Height inner ring
	0,1 mm	Width upper tolerance
	-0,1 mm	Width lower tolerance
≈m	1,61 kg	Weight



Dimensions

D_i	180,8 mm	Inner diameter outer ring
D_M	180 mm	Rolling element pitch circle diameter
d_a	179,2 mm	Outer diameter inner ring
h	20 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,025 mm	Height of individual ring lower tolerance
r_{min}	1,1 mm	Chamfer dimension
S	1,5 mm	Diameter of lubrication hole

Temperature range

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

Calculation factors

	0,015 mm	Running accuracy, radial
	0,01 mm	Running accuracy, axial
RLO_{max}	0,004 mm	Low clearance: Radial clearance
RLO_{max}	0,008 mm	Low clearance: Preload
C_a	69.000 N	Basic dynamic load rating, axial
C_{0a}	255.000 N	Basic static load rating, axial
C_r	49.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	126.000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	850 1/min	Limiting speed for oil lubrication with normal clearance
N_G Grease	425 1/min	Limiting speed for grease lubrication with normal clearance
$N_{G\ oil}$	425 1/min	Limiting speed for oil lubrication with preload
N_G Grease	210 1/min	Limiting speed for grease lubrication with preload
	61832	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