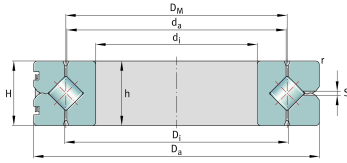


**SX011840-A-UG**

Crossed roller bearing

Crossed roller bearingsdimension series 18 to
DIN 616

Technical information

**Your current product variant**

Lubricant	UG	Ungreased
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Main Dimensions & Performance Data

d ₁	200 mm	Bore Diameter
	0,004 mm	Bore diameter upper tolerance
	-0,024 mm	Bore diameter lower tolerance
D _a	250 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,029 mm	Outside diameter lower tolerance
H	24 mm	Height of the assembled bearing
h _i	24 mm	Height inner ring
	0,1 mm	Width upper tolerance
	-0,1 mm	Width lower tolerance
≈m	2,949 kg	Weight



Dimensions

D_i	225,8 mm	Inner diameter outer ring
D_M	225 mm	Rolling element pitch circle diameter
d_a	224,2 mm	Outer diameter inner ring
h	24 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,025 mm	Height of individual ring lower tolerance
r_{min}	1,5 mm	Chamfer dimension
S	2 mm	Diameter of lubrication hole

Temperature range








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

**Calculation factors**

	0,015 mm	Running accuracy, radial
	0,01 mm	Running accuracy, axial
$S_{r \min}$	0,005 mm	Minimum radial bearing clearance, at standard bearing clearance
$S_{r \max}$	0,025 mm	Maximum radial bearing clearance, at standard bearing clearance
$S_{k \min}$	0,01 mm	Minimum axial tilting clearance, at standard bearing clearance
$S_{k \max}$	0,05 mm	Maximum axial tilting clearance, at standard bearing clearance
RLO_{\max}	0,005 mm	Low clearance: Radial clearance
RLO_{\max}	0,01 mm	Low clearance: Preload
VSP_{\min}	0,005 mm	Minimum bearing preload
VSP_{\max}	0,025 mm	Maximum bearing preload
C_a	104.000 N	Basic dynamic load rating, axial
C_{0a}	400.000 N	Basic static load rating, axial
C_r	74.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	197.000 N	Basic static load rating, radial (for radial load only)
$N_{G \text{ oil}}$	680 1/min	Limiting speed for oil lubrication with normal clearance
N_G Grease	340 1/min	Limiting speed for grease lubrication with normal clearance
$N_{G \text{ oil}}$	340 1/min	Limiting speed for oil lubrication with preload
N_G Grease	170 1/min	Limiting speed for grease lubrication with preload
	61840	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