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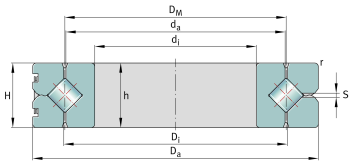
SCHAEFFLER

SX011860

Crossed roller bearing

Crossed roller bearingsdimension series 18 to
DIN 616

Technical information



Main Dimensions & Performance Data

d_1	300 mm	Bore Diameter
	0.005 mm	Bore diameter upper tolerance
	-0.027 mm	Bore diameter lower tolerance
D_a	380 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0.036 mm	Outside diameter lower tolerance
H	38 mm	Height of the assembled bearing
h_i	38 mm	heigth inner ring
	0.14 mm	Width upper tolerance
	-0.14 mm	Width lower tolerance
≈m	11.6 kg	Weight

Dimensions

D_i	340.8 mm	Inner diameter outer ring
D_M	340 mm	rolling element pitch circle diameter
d_a	339.2 mm	outer diameter inner ring
h	38 mm	height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0.05 mm	Height of individual ring lower tolerance
r_{min}	2.1 mm	chamfer dimension
S	2.5 mm	diameter of lubrication hole

Temperature range

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

Calculation factors

	0.02 mm	Running accuracy, radial
	0.01 mm	Running accuracy, axial
$S_{r\ min}$	0.01 mm	Minimum radial bearing clearance, at standard bearing clearance
$S_{r\ max}$	0.04 mm	Maximum radial bearing clearance, at standard bearing clearance
$S_{k\ min}$	0.02 mm	Minimum axial tilting clearance, at standard bearing clearance
$S_{k\ max}$	0.08 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
C_a	245,000 N	Basic dynamic load rating, axial
C_{0a}	990,000 N	Basic static load rating, axial
C_r	174,000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	485,000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	450 1/min	Limiting speed for oil lubrication with normal clearance
N_G Grease	225 1/min	Limiting speed for grease lubrication with normal clearance
	61860	Dimensions identical to ISO dimension series 18

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Moments about all axes


Grease Lubrication


Oil Lubrication


Not sealed


Large bearing