

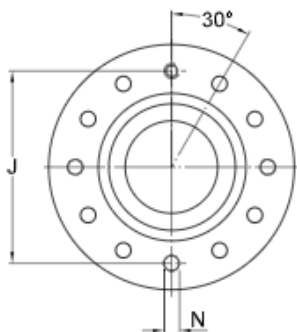
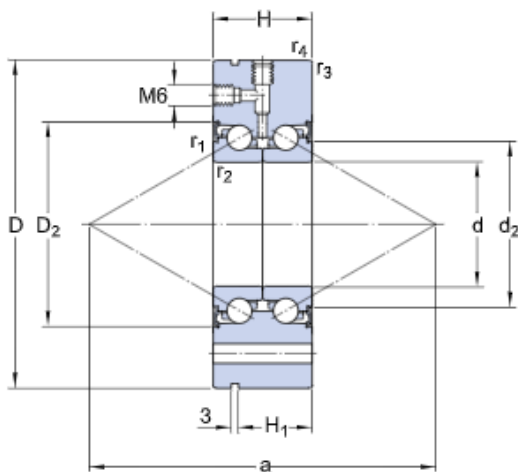
BEAM 030080 C-2RSH

Angular contact thrust ball bearings for screw drives, double direction, super-precision

Product details
[Tolerances,](#)
 table,
[Bearing preload,](#)
[Design considerations,](#)
 shafts, housings

Principles of bearing
 selection and application
[Chamfer dimensions](#)

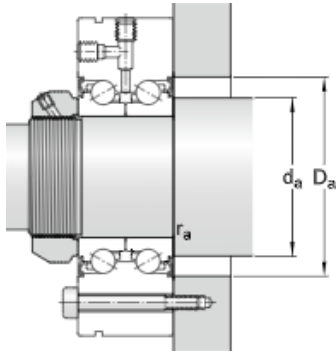
Technical specification



DIMENSIONS

d	30 mm
D	80 mm
H	28 mm
d ₂	42.3 mm
D ₂	53.2 mm
H ₁	19 mm
r _{1,2}	min. 0.3 mm
r _{3,4}	min. 0.6 mm
a	90 mm
J	63 mm
N	6.8 mm

ABUTMENT DIMENSIONS



d_a	min. 40 mm
D_a	max. 53 mm
r_a	max. 0.3 mm

CALCULATION DATA

Basic dynamic load rating	C	31 kN
Basic static load rating	C_0	69.5 kN
Fatigue load limit	P_u	2.6 kN
Attainable speed		3 000 r/min
Contact angle	α	60 °
Preload		2 250 N
Frictional moment		0.5 N·m
Static axial stiffness		900 N/ μ m
Static moment stiffness		290 N·m/mrad

MASS

Mass bearing	0.75 kg
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MOUNTING INFORMATION

Required attachment bolt size (DIN 912)	M6
Number of attachment bolts	11
Angle between holes in outer ring (Pitch)	α 30 °

More information

Product details	Engineering information	Tools
Designs and variants	Principles of bearing selection and application	SimPro Quick
Markings on bearings	General bearing knowledge	SimPro Spindle
Bearing data	Bearing selection process	Engineering Calculator
Preload, clearance, and stiffness	Bearing failure and how to prevent it	LubeSelect for SKF greases
Frictional moment		Heater selection tool
Loads		
Attainable speeds		
Design considerations		
Mounting		
Designation system		

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