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SCHAEFFLER

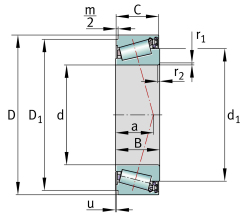
FAG

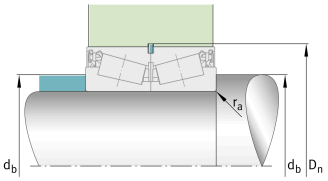
JK0S080-A>A

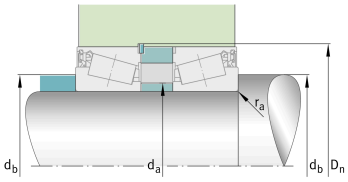
Tapered roller bearing

Tapered roller bearings JK0S, integral tapered roller bearings, lip seal on one side, diameter series 0

Technical information







Your current product variant

Tolerance class	PN	Normal (ISO 492:2023)
Heat treatment	Standard	
Cage	TVP	Cage made of glass-fiber reinforced plastic, window cage
Version code	>A	Not marked on bearing
Number of rows	1	Single-row design

Main Dimensions & Performance Data

d	80 mm	Bore diameter
D	125 mm	Outside diameter
B	30 mm	Width, inner ring
C	29,5 mm	Width, outer ring
C_r	137.000 N	Basic dynamic load rating, radial
C_{0r}	211.000 N	Basic static load rating, radial
C_{ur}	26.500 N	Fatigue load limit, radial
n_G	2.550 1/min	Limiting speed
F_{BR}	40.200 N	Load carrying capacity of snap ring connection
	27.400 N	Maximum axial clamping force
≈m	1,278 kg	Weight

Mounting dimensions

$d_{a\ max}$	89 mm	Maximum diameter of shaft shoulder
$d_{b\ min}$	87 mm	Minimum diameter of shaft shoulder
$r_{a\ max}$	1,5 mm	Maximum fillet radius of shaft
D_n	127,3 mm	Groove diameter at housing
Δ_{Dn}	0,25 mm	Upper limit deviation

Dimensions

$r_{1,2\ min}$	1,5 mm	Minimum chamfer dimension of inner ring back face
D_1	119,8 mm	Diameter of groove
m/2	1,25 mm	Width of groove
a	28 mm	Distance between the apexes of the pressure cones
d_1	104,2 mm	Guidance rib diameter of inner ring
u	0,03 mm	Stand out inner to outer ring
Δ_u	0,05 mm	Upper limit deviation

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	110 °C	Operating temperature max.

Calculation factors

e	0,42	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y	1,42	Dynamic axial load factor
Y_0	0,78	Static axial load factor

Additional information

	BR125	Snap ring

Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Sealed on one side