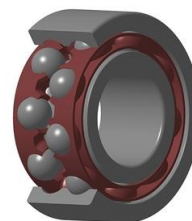


Technical data

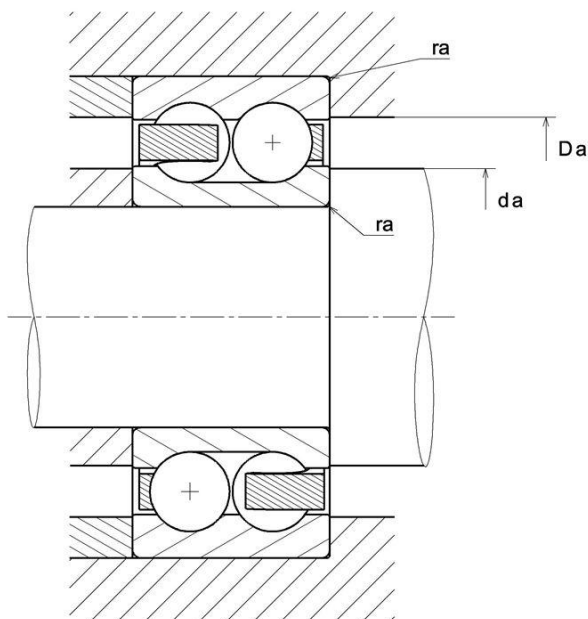
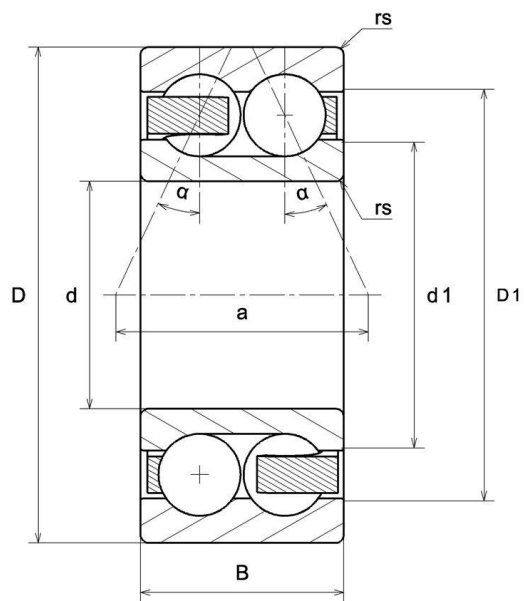
3312A

Double row angular contact ball bearings



Double row angular contact ball bearing, polyamide cage, open

VISUAL (S)



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	60 mm
D - External diameter	130 mm
B - Bearing/Inner ring width	54 mm
d1 - External diameter inner ring	81,3 mm
D1 - Inner diameter outer ring	108,7 mm
a - Charge load application point	67,3 mm
- Contact angle	25 °
rs - Min fillet radius	2,1 mm
Radial clearance class	CN
Precision class	P0
Mass	3,24 kg

PRODUCT PERFORMANCE

C - Dynamic load	121000000 mN
C0 - Static load	97900000 mN
Cu - Fatigue limit load	6100000 mN
f0 - Coefficient	13.7
N ref - Reference thermal speed	28200 °/s
N lim - Mechanical Limit Speed	30000 °/s
Tmin - Min operating temperature	253,15 °K
Tmax - Max operating temperature	393,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	3.152 Hz
---	----------



3312A

Double row angular contact ball bearings

BEARING FREQUENCIES

BPFI - Over rolling frequency on inner (60 rpm)	4.848 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.082 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.041 Hz
FTF - Rotational frequency - cage (60 rpm)	0.394 Hz

ABUTMENT

da min - Min shoulder diameter IR	71 mm
Da max - Max shoulder diameter OR	119 mm
ra max - Max shaft & housing fillet radius	2 mm



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15