



Brand of NTN corporation

Technical data

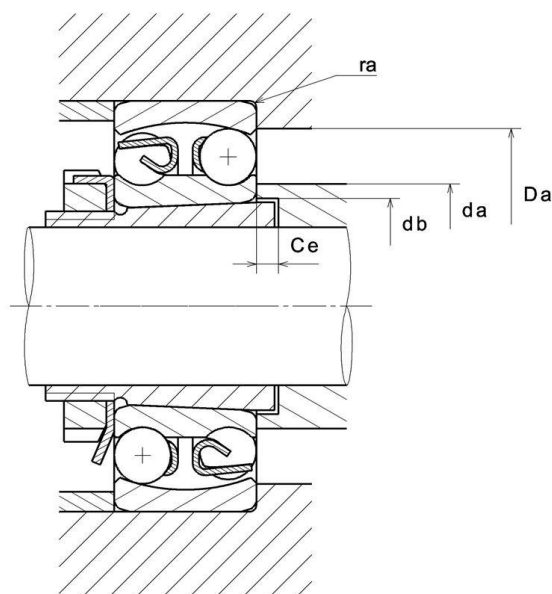
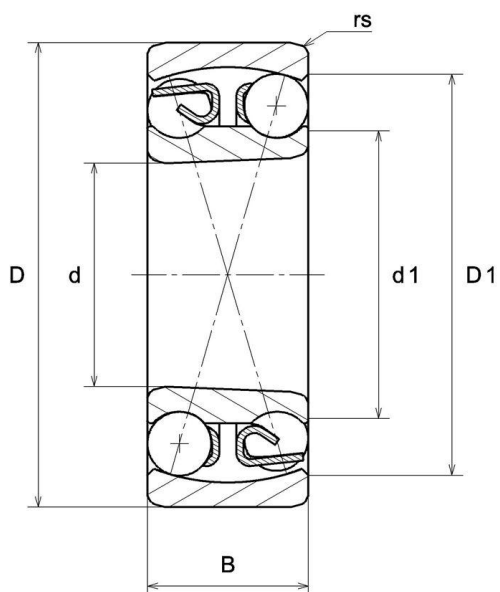
2210.K

Double-row self-aligning ball bearings



Self-aligning ball bearing, pressed steel cage, tapered bore, open

VISUAL (S)



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

2210.K

Double-row self-aligning ball bearings

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	50 mm
D - External diameter	90 mm
B - Bearing/Inner ring width	23 mm
d1 - External diameter inner ring	62,7 mm
D1 - Inner diameter outer ring	77 mm
rs - Min fillet radius	1,1 mm
Associated sleeve reference	H310
Radial clearance class	CN
Precision class	P0
Mass	0,57 kg

PRODUCT PERFORMANCE

C - Dynamic load	23000000 mN
C0 - Static load	8500000 mN
Cu - Fatigue limit load	390000 mN
e - Coefficient	0.29
Y0 - Static axial load coefficient	2.31
Y1 - Lower axial load coefficient	2.2
Y2 - Upper axial load coefficient	3.41
N ref - Reference thermal speed	44400 °/s
N lim - Mechanical Limit Speed	55800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



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BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	8.222 Hz
BPFI - Over rolling frequency on inner (60 rpm)	10.778 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	7.171 Hz
BRF - Rotational frequency - rolling element (60 rpm)	3.586 Hz
FTF - Rotational frequency - cage (60 rpm)	0.433 Hz

ABUTMENT	
da min - Min shoulder diameter IR	56,5 mm
da max - Max shoulder diameter IR	62 mm
db - Min diameter for Sleeve	55 mm
Ce - Min length fro Sleeve	10 mm
Da max - Max shoulder diameter OR	83,5 mm
ra max - Max shaft & housing fillet radius	1 mm

