

Technical data

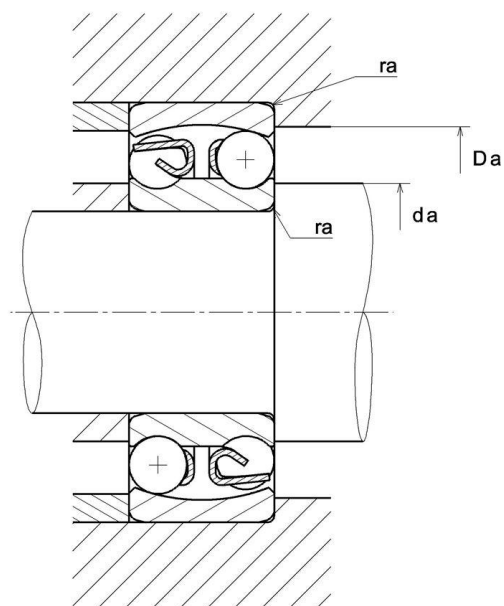
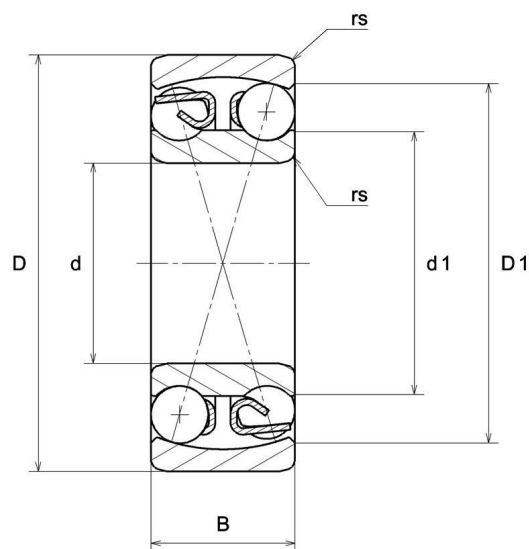
1309.C3

Double-row self-aligning ball bearings



Self-aligning ball bearing, pressed steel cage, open

VISUAL (S)



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	45 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	25 mm
d1 - External diameter inner ring	63,9 mm
D1 - Inner diameter outer ring	83,1 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	C3
Precision class	P0
Mass	0,959 kg

PRODUCT PERFORMANCE

C - Dynamic load	37400000 mN
C0 - Static load	12700000 mN
Cu - Fatigue limit load	580000 mN
e - Coefficient	0.25
Y0 - Static axial load coefficient	2.66
Y1 - Lower axial load coefficient	2.53
Y2 - Upper axial load coefficient	3.92
N ref - Reference thermal speed	40800 °/s
N lim - Mechanical Limit Speed	55200 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K



BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	6.215 Hz
BPFI - Over rolling frequency on inner (60 rpm)	8.785 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.587 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.794 Hz
FTF - Rotational frequency - cage (60 rpm)	0.414 Hz

ABUTMENT

da min - Min shoulder diameter IR	53 mm
Da max - Max shoulder diameter OR	92 mm
ra max - Max shaft & housing fillet radius	1,5 mm

