Brand of NTN corporation

Technical data

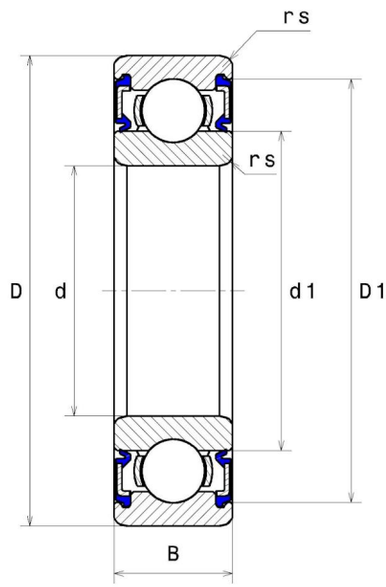
S6208EEFD

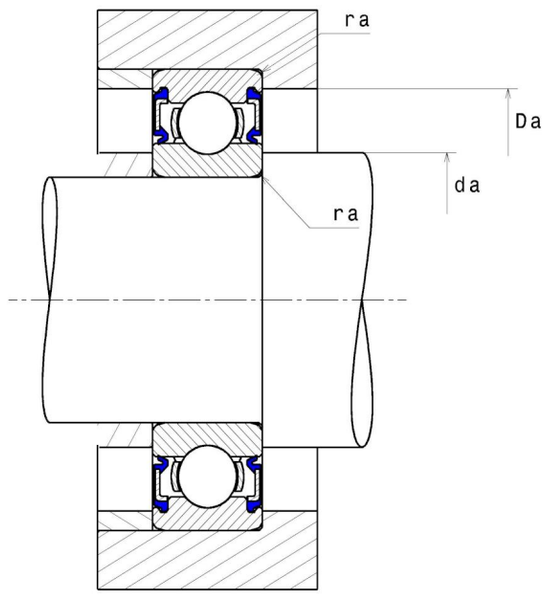
Single row deep groove ball bearings



Stainless steel deep groove ball bearing, with pressed stainless steel cage, seals with stainless steel frame on both sides, food grease lubrication.

VISUAL (S)





S6208EEFD
Single row deep groove ball bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	40 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	18 mm
d1 - External diameter inner ring	52,2 mm
D1 - Inner diameter outer ring	70 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	0,362 kg

PRODUCT PERFORMANCE	
C - Dynamic load	22,7 kN
C0 - Static load	18,1 kN
Cu - Fatigue limit load	0,82 kN
f0 - Coefficient	14
Nlim - Mechanical Limit Speed	5500 tr/min
Tmin - Min operating temperature	-30 °C
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Characteristic outer ring frequency (60 rpm)	3.6 Hz
BPFI - Characteristic inner ring frequency (60 rpm)	5.4 Hz
FTF - Characteristic cage frequency (60 rpm)	0.4 Hz
BSF - Characteristic rolling element frequency (60 rpm)	4.8 Hz

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ABUTMENT

da min - Min shoulder diameter IR	46,5 mm
da max - Max shoulder diameter IR	52,2 mm
Da max - Max shoulder diameter OR	73,5 mm
ra max - Max shaft & housing fillet radius	1 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

P = X.Fr + Y.Fa

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr