Brand of NTN corporation

Technical data



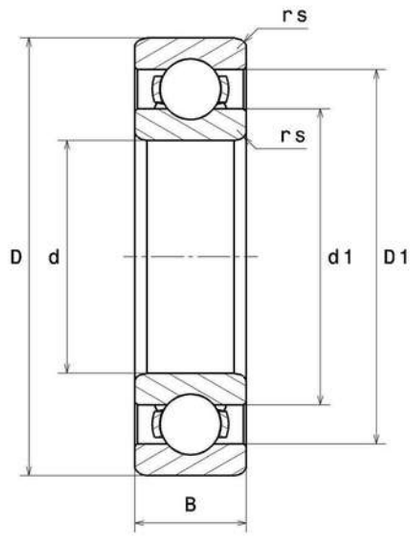
6204F600

Single row deep groove ball bearings

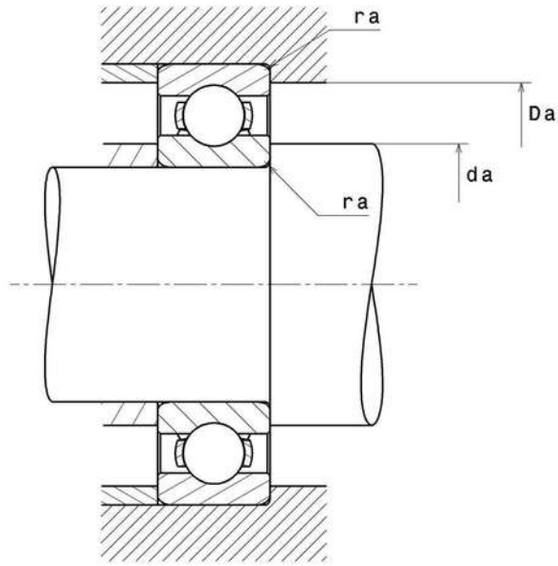
TOPLINE deep groove ball bearing, radial contact, pressed steel cage, open, applications up to 350°C.

TOPLINE

VISUAL (S)



6204F600
Single row deep groove ball bearings



PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	20 mm
D - External diameter	47 mm
B - Bearing/Inner ring width	14 mm
d1 - External diameter inner ring	25,9 mm
D1 - Inner diameter outer ring	41,4 mm
rs - Min fillet radius	1 mm
Radial clearance class	> C5
Mass	0,104 kg

PRODUCT PERFORMANCE	
C0 - Static load	6600000 mN
f0 - Coefficient	13.1
N lim - Mechanical Limit Speed	780 °/s

PRODUCT PERFORMANCE	
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	623,15 °K

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	3.052 Hz
BPFI - Over rolling frequency on inner (60 rpm)	4.948 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	3.983 Hz
BRF - Rotational frequency – rolling element (60 rpm)	1.992 Hz
FTF - Rotational frequency - cage (60 rpm)	0.382 Hz

ABUTMENT	
da min - Min shoulder diameter IR	25 mm
Da max - Max shoulder diameter OR	42 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