



Technical data

6920

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

VISUAL (S)



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	100 mm
D - External diameter	140 mm
B - Bearing/Inner ring width	20 mm
rs - Min fillet radius	1,1 mm
Radial clearance class	CN
Mass	0,785 kg

PRODUCT PERFORMANCE

C - Dynamic load	45,5 kN
C0 - Static load	39,5 kN
Cu - Fatigue limit load	2,44 kN
f0 - Coefficient	16.4
Nlim - Oil lubrication limit speed	5300 tr/min
Nlim - Grease lubrication limit speed	4500 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C

ABUTMENT

da min - Min shoulder diameter IR	106,5 mm
Da max - Max shoulder diameter OR	133,5 mm
ra max - Max shaft & housing fillet radius	1 mm



INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

$\frac{f_0 F_a}{C_0}$	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

$P_0 = X_0.F_r + Y_0.F_a$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If $P_0 < F_r$, then use $P_0 = F_r$

