

Technical data

6840JR

Single row deep groove ball bearings



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

VISUAL (S)



6840JR

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	200 mm
D - External diameter	250 mm
B - Bearing/Inner ring width	24 mm
rs - Min fillet radius	1,5 mm
Radial clearance class	CN
Mass	2,73 kg

PRODUCT PERFORMANCE

C - Dynamic load	74000000 mN
C0 - Static load	91500000 mN
Cu - Fatigue limit load	2750000 mN
f0 - Coefficient	16.1
N lim - Oil lubrication limit speed	16200 °/s
N lim - Grease lubrication limit speed	13800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	208 mm
Da max - Max shoulder diameter OR	242 mm
ra max - Max shaft & housing fillet radius	1,5 mm



NTN Europe

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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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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