



Technical data

6318CM

Single row deep groove ball bearings

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

VISUAL (S)



6318CM

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	90 mm
D - External diameter	190 mm
B - Bearing/Inner ring width	43 mm
rs - Min fillet radius	3 mm
Radial clearance class	CM
Mass	4,91 kg

PRODUCT PERFORMANCE

C - Dynamic load	158000000 mN
C0 - Static load	107000000 mN
Cu - Fatigue limit load	7100000 mN
f0 - Coefficient	13.3
N lim - Oil lubrication limit speed	25200 °/s
N lim - Grease lubrication limit speed	21600 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	103 mm
Da max - Max shoulder diameter OR	177 mm
ra max - Max shaft & housing fillet radius	2,5 mm



NTN Europe

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INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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

