



Technical data

16018.C3

Single row deep groove ball bearings

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

VISUAL (S)



16018.C3

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	90 mm
D - External diameter	140 mm
B - Bearing/Inner ring width	16 mm
rs - Min fillet radius	1 mm
Radial clearance class	C3
Mass	0,848 kg

PRODUCT PERFORMANCE

C - Dynamic load	37000000 mN
C0 - Static load	33500000 mN
Cu - Fatigue limit load	2070000 mN
f0 - Coefficient	16.5
N lim - Oil lubrication limit speed	33600 °/s
N lim - Grease lubrication limit speed	28200 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	95 mm
Da max - Max shoulder diameter OR	135 mm
ra max - Max shaft & housing fillet radius	1 mm

OE EQUIVALENTS

Manufacturer	Part number
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NTN Europe

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 SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

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OE EQUIVALENTS

Manufacturer	Part number
ZF	0735.330.725

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X \cdot F_r + Y \cdot F_a$$

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		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

$$P_0 = X_0 \cdot F_r + Y_0 \cdot F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

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



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