



Technical data

16002

Single row deep groove ball bearings

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

VISUAL (S)



16002

Single row deep groove ball bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	15 mm
D - External diameter	32 mm
B - Bearing/Inner ring width	8 mm
rs - Min fillet radius	0,3 mm
Radial clearance class	CN
Mass	0,025 kg

PRODUCT PERFORMANCE

C - Dynamic load	6200000 mN
C0 - Static load	2840000 mN
Cu - Fatigue limit load	222000 mN
f0 - Coefficient	13.9
N lim - Oil lubrication limit speed	156000 °/s
N lim - Grease lubrication limit speed	132000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	393,15 °K

ABUTMENT

da min - Min shoulder diameter IR	17 mm
Da max - Max shoulder diameter OR	30 mm
ra max - Max shaft & housing fillet radius	0,3 mm

OE EQUIVALENTS

Manufacturer	Part number
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NTN Europe

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 S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
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OE EQUIVALENTS

Manufacturer	Part number
ZF	0635.330.001

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 $P_0 = F_r$

