

Technical data

33212U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



33212U

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	60 mm
D - External diameter	110 mm
B - Bearing/Inner ring width	38 mm
C - Outer ring width	29 mm
T - Total width	38 mm
d1 - External diameter inner ring	85,5 mm
a - Charge load application point	27,5 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,53 kg
ISO 355 reference	T3EE060

PRODUCT PERFORMANCE

C - Dynamic load	179000000 mN
C0 - Static load	223000000 mN
Cu - Fatigue limit load	27100000 mN
A2 - Rating life coefficient	1
e - Coefficient	0.4
Y0 - Static axial load coefficient	0.82
Y2 - Upper axial load coefficient	1.48
N lim - Oil lubrication limit speed	27000 °/s
N lim - Grease lubrication limit speed	20400 °/s
Tmin - Min operating temperature	233,15 °K



NTN Europe

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

PRODUCT PERFORMANCE

Tmax - Max operating temperature	393,15 °K
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ABUTMENT

da max - Max shoulder diameter IR	69 mm
db min - Min IR shoulder diameter	70 mm
Da min - Min shoulder diameter OR	93 mm
Da max - Max shoulder diameter OR	101,5 mm
Db min - Min OR shoulder diameter	105 mm
Ca - Min clearance	6 mm
Cb - Min clearance	9 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

OE EQUIVALENTS

Manufacturer	Part number
Iveco	7160361
MAN	06.32489.0005 06.32489.0045
Mercedes	005 981 2805 005 981 4205
Renault, Renault Trucks	0023336081
Scania	345835
Volvo	1652563 21627792

AUTOMOTIVE COMPATIBILITY

Brand	Model	Generation	Date	Location	Position
Iveco	M	M	01/1986 => 06/1993		Front
Renault Trucks	G	G	05/1983 => 02/1990		Front



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AUTOMOTIVE COMPATIBILITY					
Brand	Model	Generation	Date	Location	Position
Saab	900	900	02/1991 => 06/1993		Front
Saab	900	900 I	02/1991 => 06/1993		Front

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$P_0 = X_0.F_r + Y_0.F_a$

X_0	Y_0
0.5	Y0

If $P_0 \leq F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table