



Brand of NTN corporation

Technical data

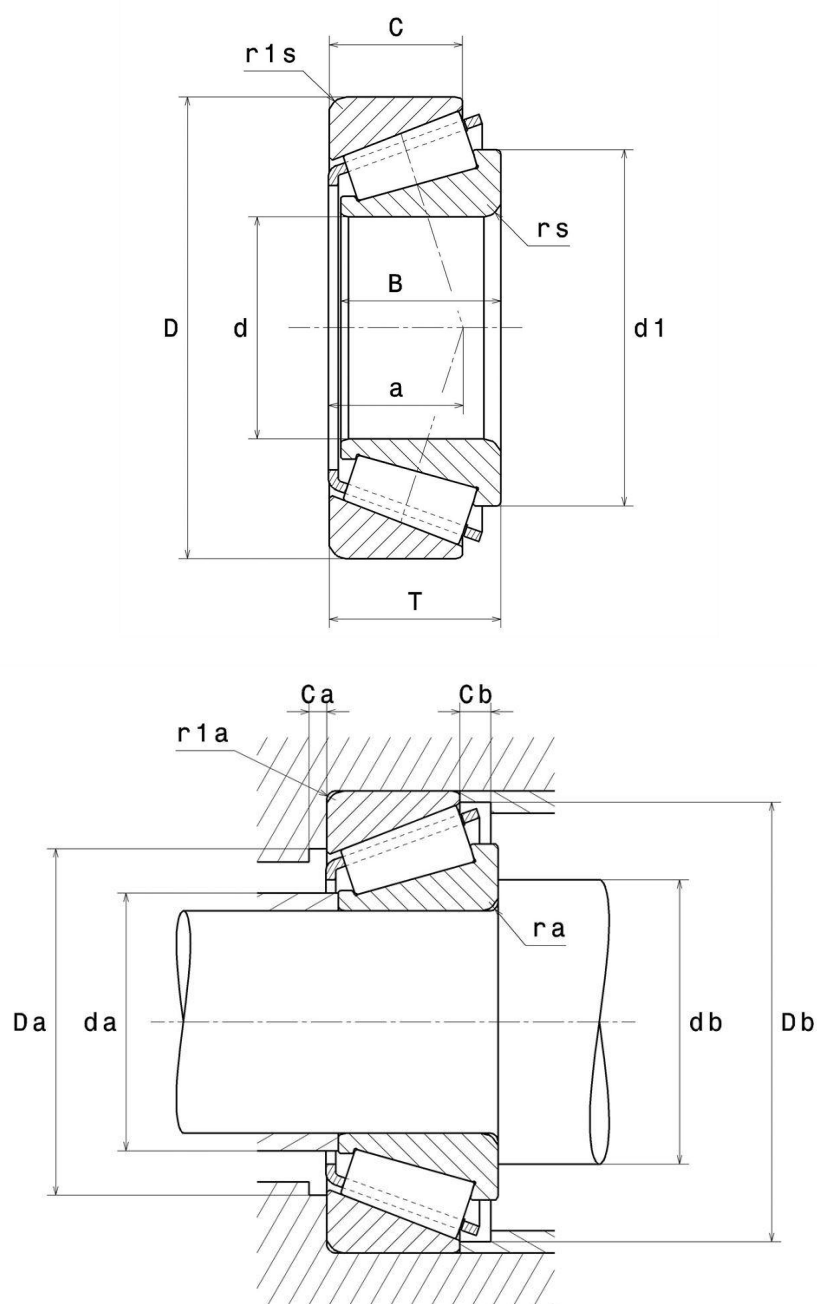
32018A

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



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

32018A

Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	90 mm
D - External diameter	140 mm
B - Bearing/Inner ring width	32 mm
C - Outer ring width	24 mm
T - Total width	32 mm
d1 - External diameter inner ring	114,5 mm
a - Charge load application point	30 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,72 kg
ISO 355 reference	T3CC090

PRODUCT PERFORMANCE	
C - Dynamic load	179 kN
A2 - Rating life coefficient	1
C0 - Static load	271 kN
Cu - Fatigue limit load	31,7 kN
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.78
Y2 - Upper axial load coefficient	1.42
N ref - Reference thermal speed	3100 tr/min
N lim - Mechanical Limit Speed	4900 tr/min
Tmin - Min operating temperature	-40 °C



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PRODUCT PERFORMANCE

Tmax - Max operating temperature	120 °C
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	12.118 Hz
BPFI - Over rolling frequency on inner (60 rpm)	14.882 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	9.302 Hz
BRF - Fréquence de rotation : Élément roulant	4.651 Hz
FTF - Rotational frequency - cage (60 rpm)	0.449 Hz

ABUTMENT

da max - Max shoulder diameter IR	100 mm
db min - Min IR shoulder diameter	100 mm
Da min - Min shoulder diameter OR	125 mm
Da max - Max shoulder diameter OR	131,5 mm
Db min - Min OR shoulder diameter	134 mm
Ca - Min clearance	6 mm
Cb - Min clearance	8 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY

Reference	32018A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No



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ESHOPDONOTDISPLAY

Tracepart	Non/No
- Contact angle	15.75 °

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

$P_o = X_o.F_r + Y_o.F_a$

X_o	Y_o
0.5	Y0

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

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