

Technical data

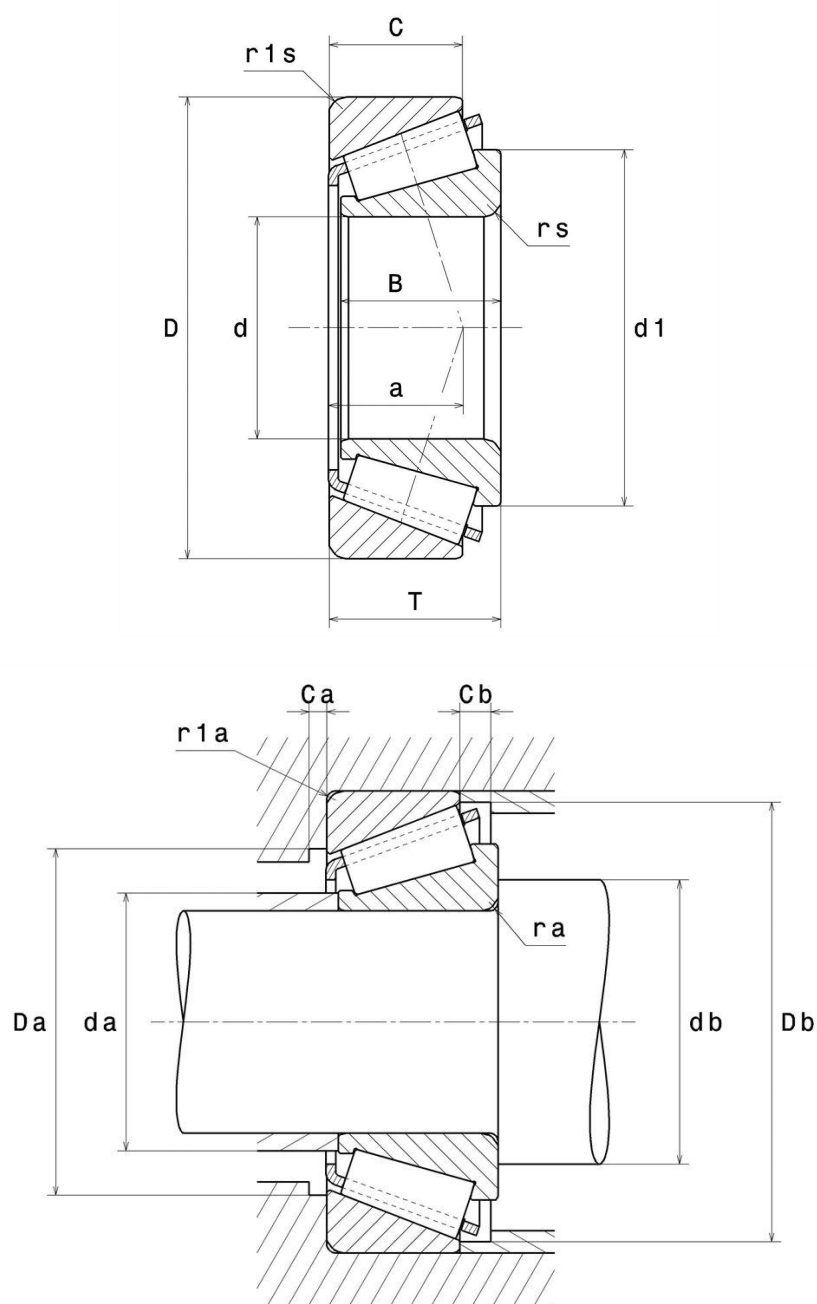
30210A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



VISUAL (S)



30210A

Single row tapered roller bearings

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	50 mm
D - External diameter	90 mm
B - Bearing/Inner ring width	20 mm
C - Outer ring width	17 mm
T - Total width	21,75 mm
d1 - External diameter inner ring	68,4 mm
a - Charge load application point	20 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	0,529 kg
ISO 355 reference	T3DB050

PRODUCT PERFORMANCE

C - Dynamic load	80,2 kN
A2 - Rating life coefficient	1
C0 - Static load	92,1 kN
Cu - Fatigue limit load	11,2 kN
e - Coefficient	0.42
Y0 - Static axial load coefficient	0.79
Y2 - Upper axial load coefficient	1.43
N ref - Reference thermal speed	5100 tr/min
N lim - Mechanical Limit Speed	8100 tr/min
Tmin - Min operating temperature	-40 °C



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

PRODUCT PERFORMANCE

Tmax - Max operating temperature	120 °C
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	8.148 Hz
BPFI - Over rolling frequency on inner (60 rpm)	10.852 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	6.628 Hz
BRF - Fréquence de rotation : Élément roulant	3.314 Hz
FTF - Rotational frequency - cage (60 rpm)	0.429 Hz

ABUTMENT

da max - Max shoulder diameter IR	58 mm
db min - Min IR shoulder diameter	58,5 mm
Da min - Min shoulder diameter OR	79 mm
Da max - Max shoulder diameter OR	81,5 mm
Db min - Min OR shoulder diameter	85 mm
Ca - Min clearance	3 mm
Cb - Min clearance	4,5 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY

Reference	30210A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No



ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
- Contact angle	15.642 °

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

Xo	Yo
0.5	Y0

If $Po \leq Fr$, then use $Po = Fr$

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

