Brand of NTN corporation

Technical data

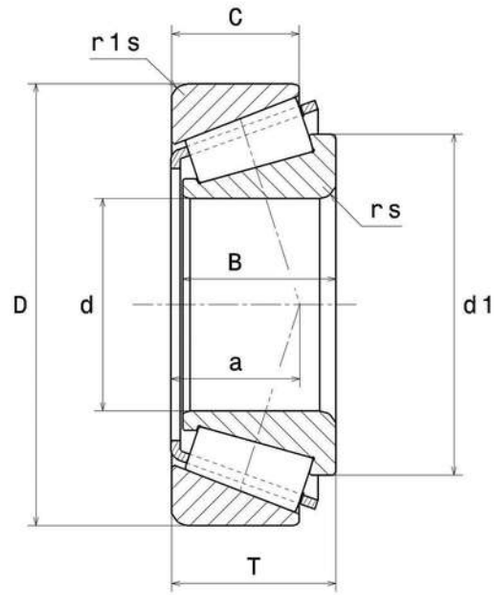
33013A

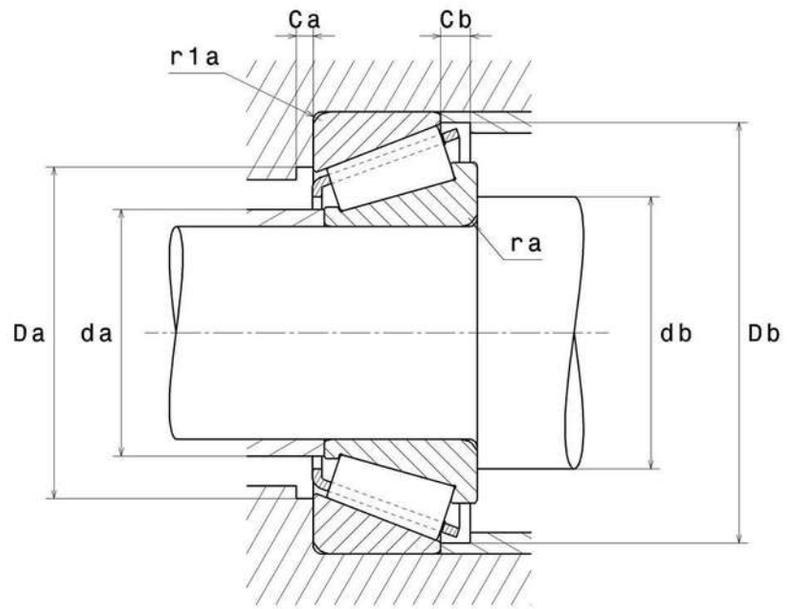
Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)





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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

33013A
Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	65 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	27 mm
C - Outer ring width	21 mm
T - Total width	27 mm
d1 - External diameter inner ring	82,7 mm
a - Charge load application point	21 mm
rs - Min fillet radius	1,5 mm
r1s - Min fillet radius	1,5 mm
Mass	0,741 kg
ISO 355 reference	T2CE065

PRODUCT PERFORMANCE	
C - Dynamic load	105 kN
A2 - Rating life coefficient	1
C0 - Static load	164 kN
Cu - Fatigue limit load	20 kN
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.95
Y2 - Upper axial load coefficient	1.72
N ref - Reference thermal speed	4300 tr/min
N lim - Mechanical Limit Speed	6800 tr/min
Tmin - Min operating temperature	-40 °C

33013A
Single row tapered roller bearings

PRODUCT PERFORMANCE	
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	12.657 Hz
BPFI - Over rolling frequency on inner (60 rpm)	15.343 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	10.69 Hz
BRF - Fréquence de rotation : Élément roulant	5.345 Hz
FTF - Rotational frequency - cage (60 rpm)	0.452 Hz

ABUTMENT	
da max - Max shoulder diameter IR	72 mm
db min - Min IR shoulder diameter	73,5 mm
Da min - Min shoulder diameter OR	89 mm
Da max - Max shoulder diameter OR	91,5 mm
Db min - Min OR shoulder diameter	96 mm
Ca - Min clearance	5 mm
Cb - Min clearance	6 mm
ra max - Max fillet radius	1,5 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY	
Reference	33013A
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	13.083 °

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

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