Brand of NTN corporation

Technical data

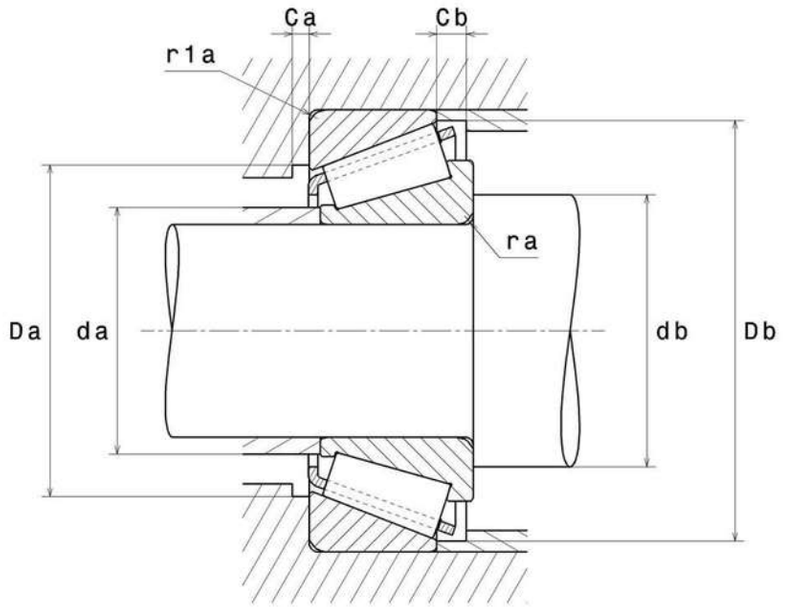
32309A

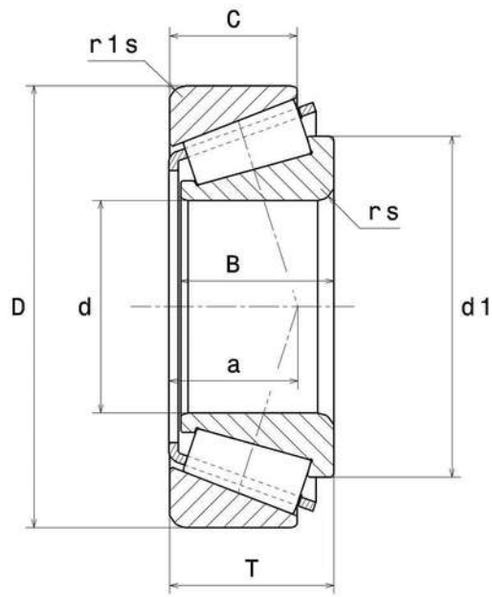
Single row tapered roller bearings



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

32309A
Single row tapered roller bearings

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	45 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	36 mm
C - Outer ring width	30 mm
T - Total width	38,25 mm
d1 - External diameter inner ring	71,1 mm
a - Charge load application point	25,6 mm
rs - Min fillet radius	2 mm
r1s - Min fillet radius	1,5 mm
Mass	1,403 kg
ISO 355 reference	T2FD045

PRODUCT PERFORMANCE	
C - Dynamic load	159 kN
A2 - Rating life coefficient	1
C0 - Static load	190 kN
Cu - Fatigue limit load	23,2 kN
e - Coefficient	0.35
Y0 - Static axial load coefficient	0.96
Y2 - Upper axial load coefficient	1.74
N ref - Reference thermal speed	5000 tr/min
N lim - Mechanical Limit Speed	7300 tr/min
Tmin - Min operating temperature	-40 °C

PRODUCT PERFORMANCE	
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	6.567 Hz
BPFI - Over rolling frequency on inner (60 rpm)	9.433 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.266 Hz
BRF - Fréquence de rotation : Élément roulant	2.633 Hz
FTF - Rotational frequency - cage (60 rpm)	0.41 Hz

ABUTMENT	
da max - Max shoulder diameter IR	56 mm
db min - Min IR shoulder diameter	55 mm
Da min - Min shoulder diameter OR	82 mm
Da max - Max shoulder diameter OR	91,5 mm
Db min - Min OR shoulder diameter	93 mm
Ca - Min clearance	3 mm
Cb - Min clearance	8 mm
ra max - Max fillet radius	2 mm
r1a - Max fillet radius	1,5 mm

ESHOPDONOTDISPLAY	
Reference	32309A
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	12.953 °

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