

Technical data

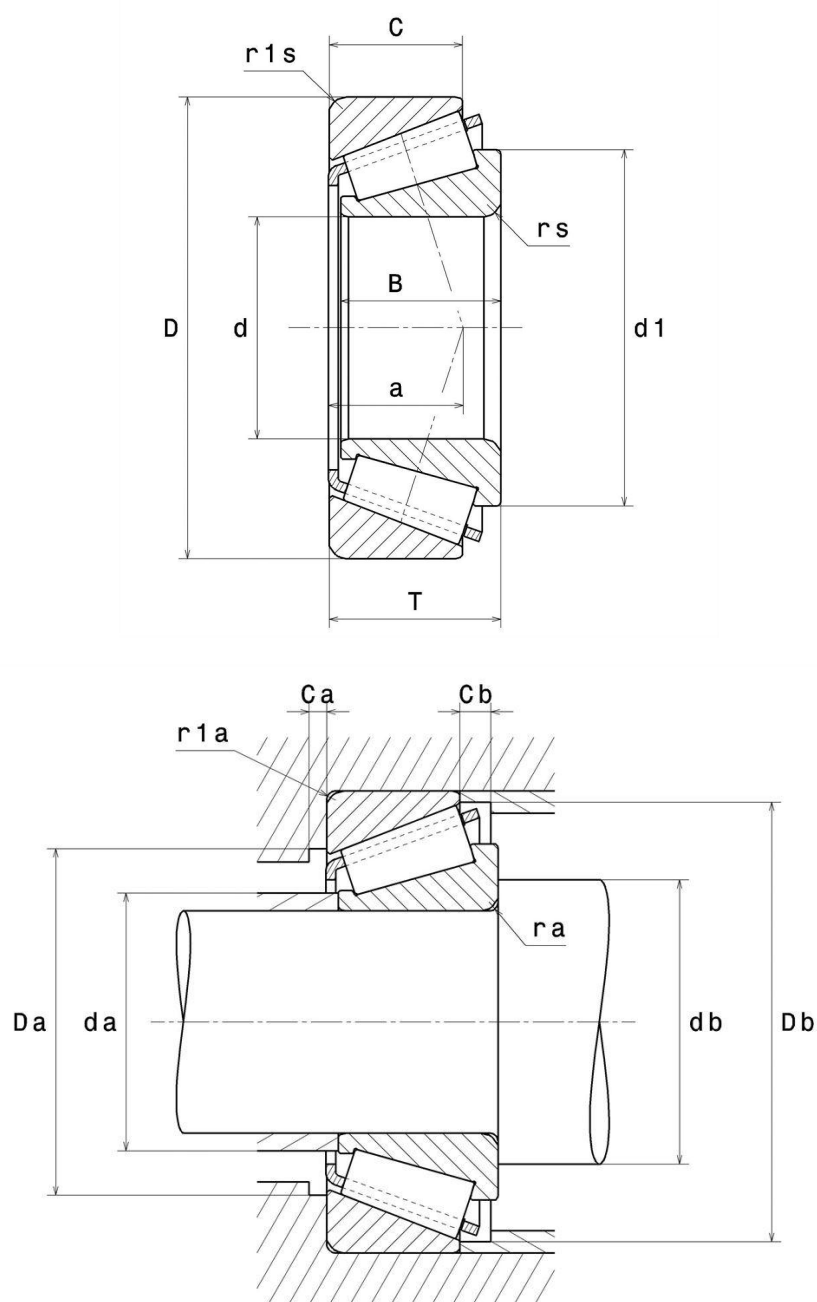
30202A

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

VISUAL (S)



PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	15 mm
D - External diameter	35 mm
B - Bearing/Inner ring width	11 mm
C - Outer ring width	10 mm
T - Total width	11,75 mm
d1 - External diameter inner ring	25,5 mm
a - Charge load application point	8,4 mm
rs - Min fillet radius	0,6 mm
r1s - Min fillet radius	0,6 mm
Mass	0,054 kg

PRODUCT PERFORMANCE	
C - Dynamic load	16,4 kN
A2 - Rating life coefficient	1
C0 - Static load	14,3 kN
Cu - Fatigue limit load	1,75 kN
e - Coefficient	0.32
Y0 - Static axial load coefficient	1.04
Y2 - Upper axial load coefficient	1.88
N ref - Reference thermal speed	13000 tr/min
N lim - Mechanical Limit Speed	23000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	120 °C



BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	5.227 Hz
BPFI - Over rolling frequency on inner (60 rpm)	7.773 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.802 Hz
BRF - Fréquence de rotation : Élément roulant	2.401 Hz
FTF - Rotational frequency - cage (60 rpm)	0.402 Hz

ABUTMENT	
da max - Max shoulder diameter IR	20 mm
db min - Min IR shoulder diameter	20,5 mm
Da min - Min shoulder diameter OR	29 mm
Da max - Max shoulder diameter OR	29,5 mm
Db min - Min OR shoulder diameter	33 mm
Ca - Min clearance	2 mm
Cb - Min clearance	1,8 mm
ra max - Max fillet radius	1 mm
r1a - Max fillet radius	1 mm

ESHOPDONOTDISPLAY	
Reference	30202A
Image	TRB_1.jpg, TRB_2.jpg, TRB_3.jpg
KIZEI	Non/No
TOPLINE	Non/No
ULTAGE	Non/No
Tracepart	Oui/Yes
- Contact angle	12 °



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

