



Brand of **NTN corporation**

Technical data

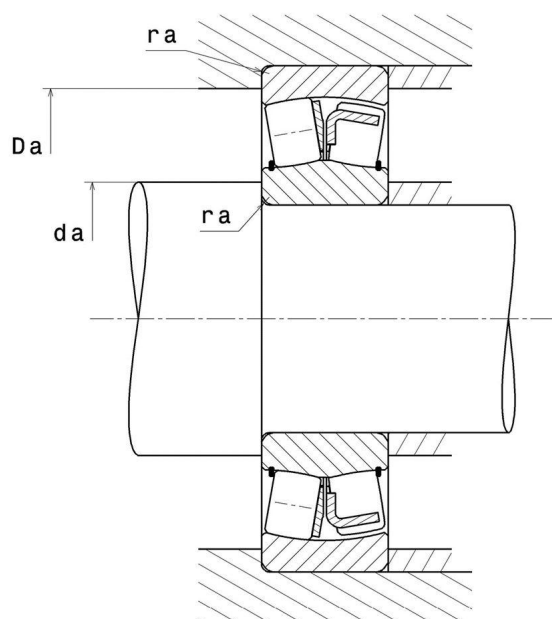
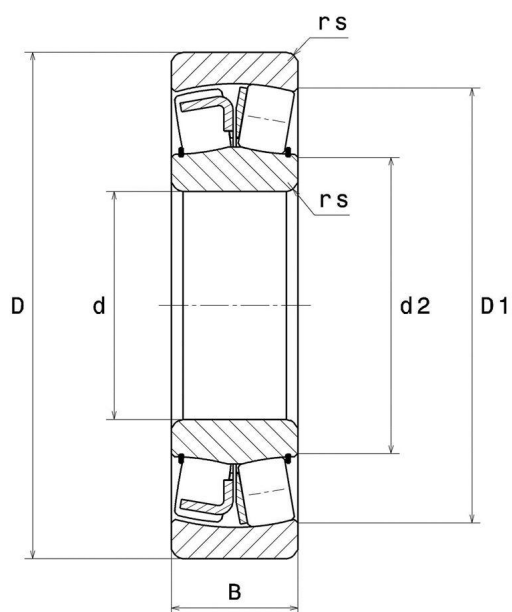
21306V

Spherical roller bearings



Spherical 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

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	30 mm
D - External diameter	72 mm
B - Bearing/Inner ring width	19 mm
d2 - External diameter inner ring	40,8 mm
D1 - Inner diameter outer ring	59,7 mm
rs - Min fillet radius	1,1 mm
Number of lubrication holes	0
b - Groove width	0 mm
k - Hole diameter	0 mm
Radial clearance class	CN
Mass	0,394 kg

PRODUCT PERFORMANCE	
C - Dynamic load	64600000 mN
C0 - Static load	52100000 mN
Cu - Fatigue limit load	6100000 mN
e - Coefficient	0.28
Y0 - Static axial load coefficient	2.39
Y1 - Lower axial load coefficient	2.45
Y2 - Upper axial load coefficient	3.64
N ref - Reference thermal speed	46800 °/s
N lim - Mechanical Limit Speed	72000 °/s
Tmin - Min operating temperature	233,15 °K



PRODUCT PERFORMANCE

Tmax - Max operating temperature	473,15 °K
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BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	4.856 Hz
BPFI - Over rolling frequency on inner (60 rpm)	7.144 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.973 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.487 Hz
FTF - Rotational frequency - cage (60 rpm)	0.405 Hz

ABUTMENT

da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	37 mm
Da max - Max shoulder diameter OR	65 mm
ra max - Max shaft & housing fillet radius	1 mm



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	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .



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