



Brand of NTN corporation

Technical data

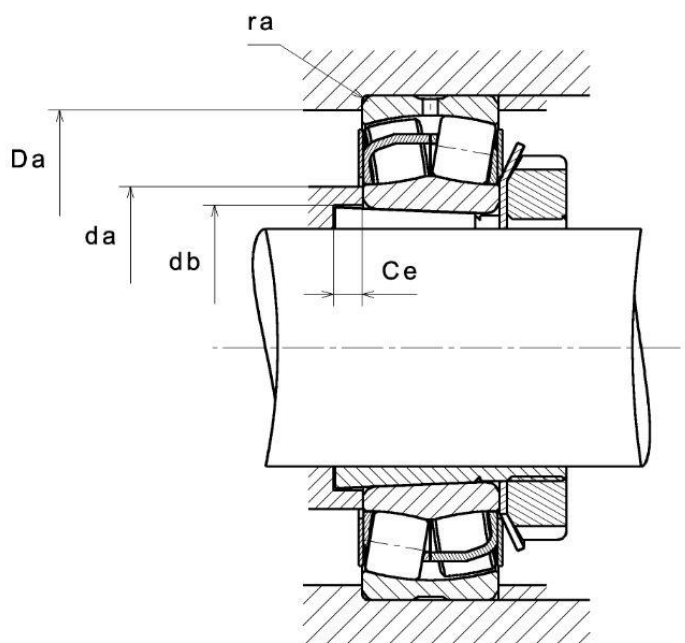
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Spherical roller bearings



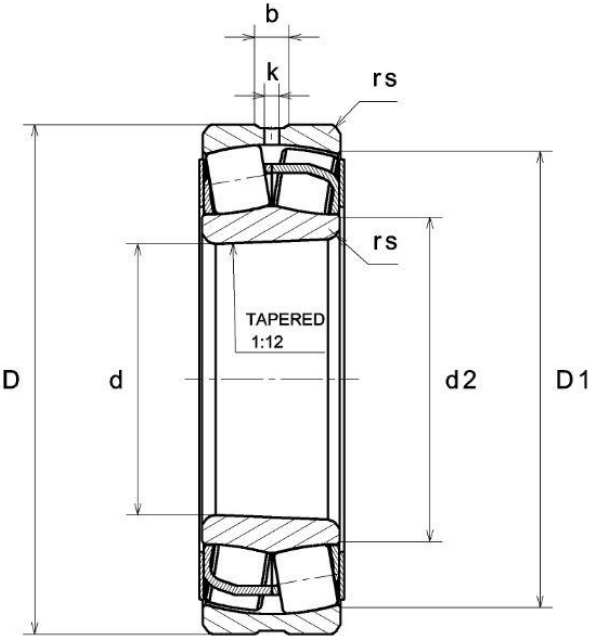
[KIZEI][®] **ULTAGE**[®]

VISUAL (S)



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 DEFINITION

Brand	SNR
d - Internal diameter	65 mm
D - External diameter	120 mm
B - Bearing/Inner ring width	31 mm
d2 - External diameter inner ring	78,2 mm
D1 - Inner diameter outer ring	107 mm
rs - Min fillet radius	1,5 mm
Number of lubrication holes	3
b - Groove width	7,83 mm
k - Hole diameter	3,5 mm
Associated sleeve reference	H313
Radial clearance class	CN
Mass	1,54 kg



PRODUCT PERFORMANCE

C - Dynamic load	226000000 mN
C0 - Static load	224000000 mN
Cu - Fatigue limit load	27300000 mN
e - Coefficient	0.24
Y0 - Static axial load coefficient	2.73
Y1 - Lower axial load coefficient	2.79
Y2 - Upper axial load coefficient	4.15
N ref - Reference thermal speed	31800 °/s
N lim - Mechanical Limit Speed	41400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	7.596 Hz
BPFI - Over rolling frequency on inner (60 rpm)	10.404 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	6.175 Hz
BRF - Rotational frequency - rolling element (60 rpm)	3.088 Hz
FTF - Rotational frequency - cage (60 rpm)	0.422 Hz

ABUTMENT

da max - Max shoulder diameter IR	78,2 mm
da min - Min shoulder diameter IR	74 mm
db - Min diameter for Sleeve	70 mm
Ce - Min length fro Sleeve	8 mm
Da max - Max shoulder diameter OR	111 mm



ABUTMENT

ra max - Max shaft & housing fillet radius

1,5 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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