



Brand of NTN corporation

Technical data

22328EF800

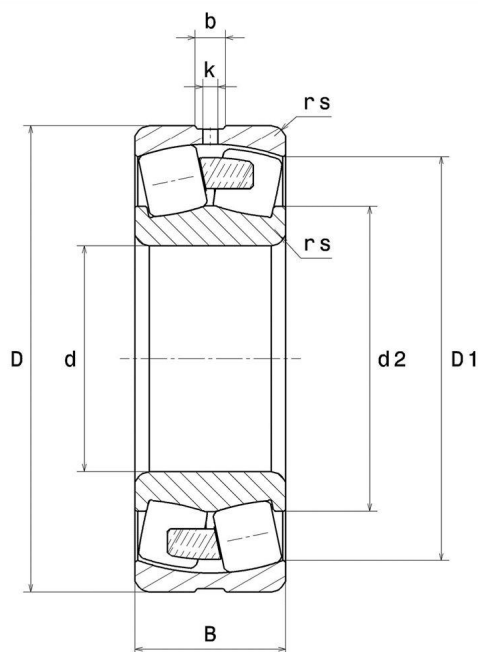
Spherical roller bearings



Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, special C4 class clearance

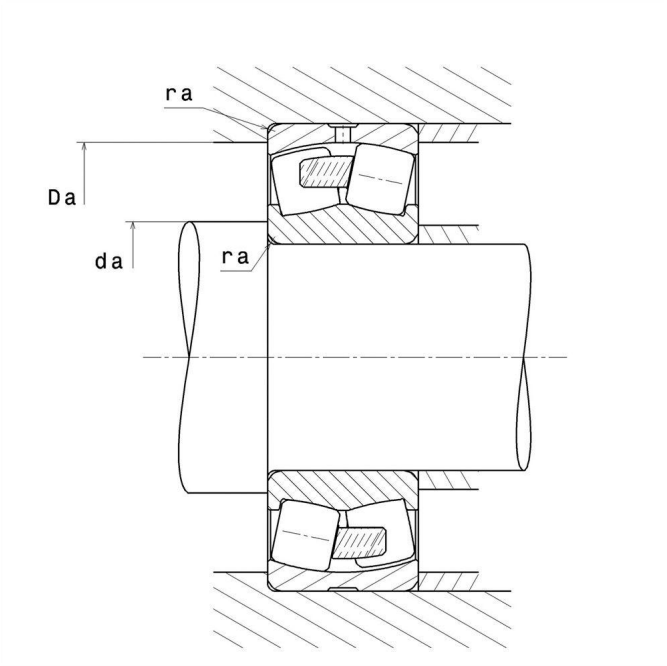
ULTAGE

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	140 mm
D - External diameter	300 mm
B - Bearing/Inner ring width	102 mm
d2 - External diameter inner ring	0 mm
D1 - Inner diameter outer ring	260,3 mm
rs - Min fillet radius	4 mm
Number of lubrication holes	3 ou 4
b - Groove width	18,94 mm
k - Hole diameter	9 mm
Radial clearance class	C4 Special
Mass	34,903 kg

PRODUCT PERFORMANCE



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C - Dynamic load	1540000000 mN
C0 - Static load	1720000000 mN
Cu - Fatigue limit load	1630000000 mN
e - Coefficient	0.33
Y0 - Static axial load coefficient	1.98
Y1 - Lower axial load coefficient	2.03
Y2 - Upper axial load coefficient	3.02
N ref - Reference thermal speed	9600 °/s
N lim - Mechanical Limit Speed	13200 °/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)	6.574 Hz
BPFI - Over rolling frequency on inner (60 rpm)	9.426 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.303 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.652 Hz
FTF - Rotational frequency - cage (60 rpm)	0.411 Hz

ABUTMENT

da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	157 mm
Da max - Max shoulder diameter OR	283 mm
ra max - Max shaft & housing fillet radius	3 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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