



Brand of NTN corporation

Technical data

22317EKF800

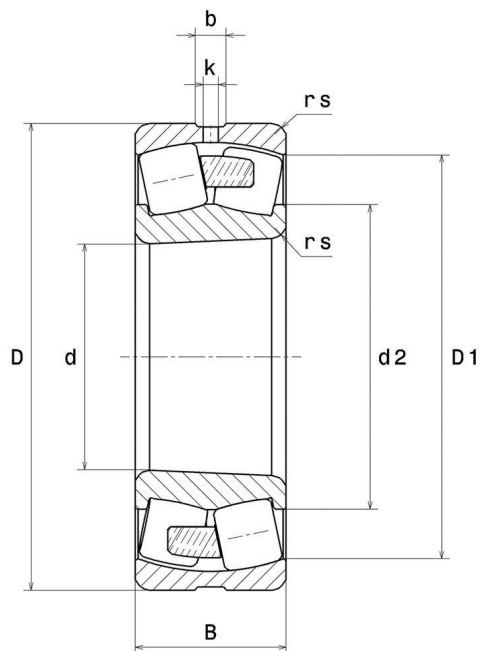
Spherical roller bearings



Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12, special C4 class clearance

ULTAGE

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

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Spherical roller bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	85 mm
D - External diameter	180 mm
B - Bearing/Inner ring width	60 mm
d2 - External diameter inner ring	0 mm
D1 - Inner diameter outer ring	156,7 mm
rs - Min fillet radius	3 mm
Number of lubrication holes	3
b - Groove width	10,98 mm
k - Hole diameter	5 mm
Associated sleeve reference	H2317
Radial clearance class	C4 Special
Mass	7,06 kg



PRODUCT PERFORMANCE

C - Dynamic load	599000000 mN
C0 - Static load	604000000 mN
Cu - Fatigue limit load	67000000 mN
e - Coefficient	0.32
Y0 - Static axial load coefficient	2.04
Y1 - Lower axial load coefficient	2.09
Y2 - Upper axial load coefficient	3.11
N ref - Reference thermal speed	19200 °/s
N lim - Mechanical Limit Speed	21600 °/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)	6.111 Hz
BPFI - Over rolling frequency on inner (60 rpm)	8.889 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.096 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.548 Hz
FTF - Rotational frequency - cage (60 rpm)	0.407 Hz

ABUTMENT

da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	99 mm
db - Min diameter for Sleeve	94 mm
Ce - Min length fro Sleeve	7 mm
Da max - Max shoulder diameter OR	166 mm



ABUTMENT

ra max - Max shaft & housing fillet radius

2,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

Fa / Fr ≤ e		Fa / Fr > 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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