



Brand of NTN corporation

Technical data

10X22208EAKW33EE

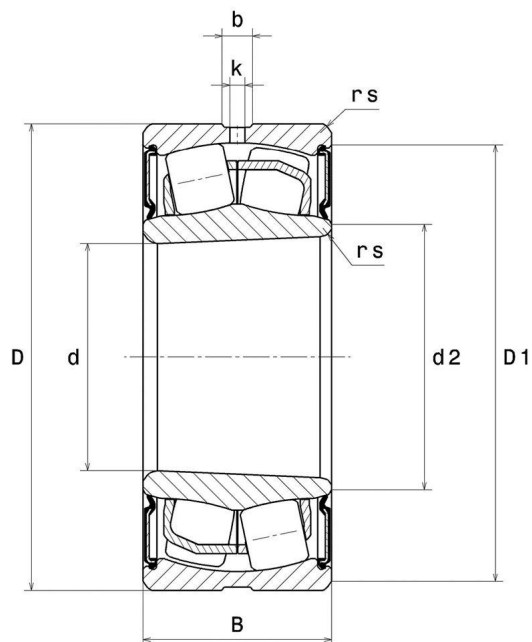
Spherical roller bearings



Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:12, non ISO width, contact seals on both sides

ULTAGE

VISUAL (S)

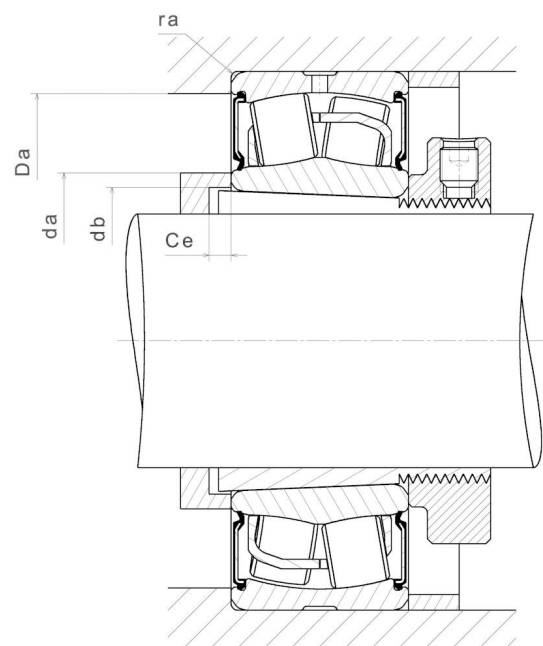


NTN Europe

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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

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Spherical roller bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	40 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	28 mm
d2 - External diameter inner ring	47,8 mm
D1 - Inner diameter outer ring	73,8 mm
rs - Min fillet radius	1,1 mm
Number of lubrication holes	3
b - Groove width	5,38 mm
k - Hole diameter	2,5 mm
Associated sleeve reference	H2308E
Radial clearance class	CN
Mass	0,597 kg



PRODUCT PERFORMANCE

C - Dynamic load	116 kN
C0 - Static load	105 kN
Cu - Fatigue limit load	12,8 kN
e - Coefficient	0.27
Y0 - Static axial load coefficient	2.41
Y1 - Lower axial load coefficient	2.47
Y2 - Upper axial load coefficient	3.68
N lim - Mechanical Limit Speed	2300 tr/min
Tmin - Min operating temperature	-20 °C
Tmax - Max operating temperature	120 °C

BEARING FREQUENCIES

BPFO - Over rolling frequency on outer ring (60 rpm)	6.641 Hz
BPFI - Over rolling frequency on inner (60 rpm)	9.359 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	5.625 Hz
BRF - Rotational frequency - rolling element (60 rpm)	2.813 Hz
FTF - Rotational frequency - cage (60 rpm)	0.415 Hz

ABUTMENT

da max - Max shoulder diameter IR	47,8 mm
da min - Min shoulder diameter IR	45,1 mm
db - Min diameter for Sleeve	45 mm
Ce - Min length fro Sleeve	10 mm
Da max - Max shoulder diameter OR	73,9 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 .

