



Brand of NTN corporation

Technical data

24128EAW33

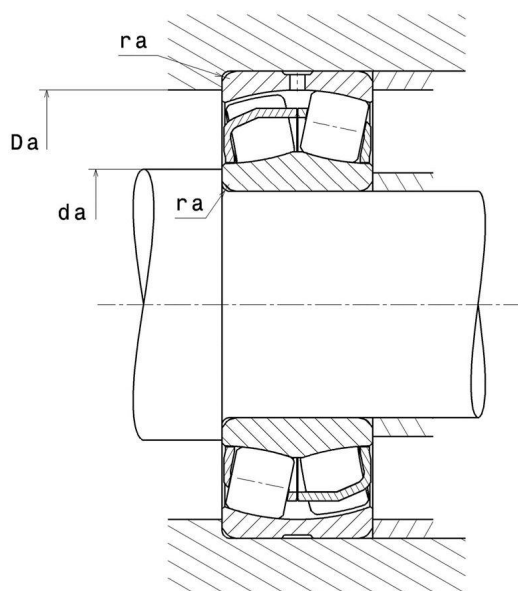
Spherical roller bearings



Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

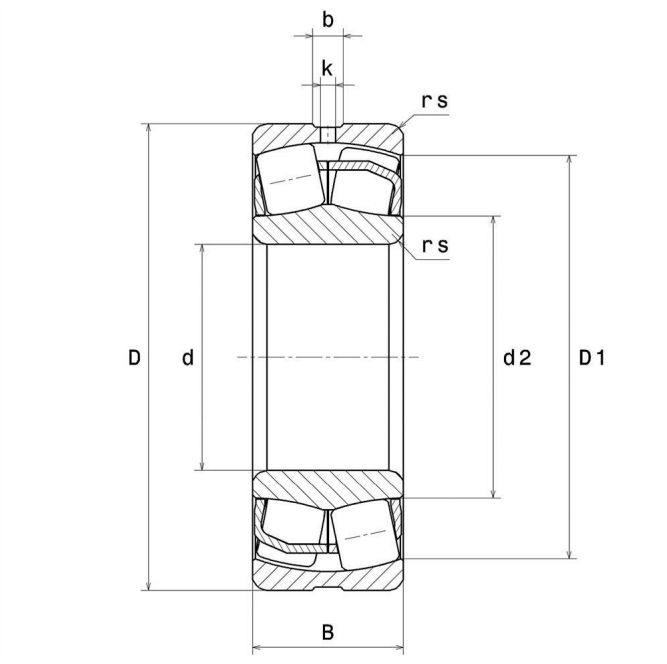
ULTAGE

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	225 mm
B - Bearing/Inner ring width	85 mm
d2 - External diameter inner ring	156,2 mm
D1 - Inner diameter outer ring	197,6 mm
rs - Min fillet radius	2,1 mm
Number of lubrication holes	3 ou 4
b - Groove width	10 mm
k - Hole diameter	4,5 mm
Radial clearance class	CN
Mass	12,77 kg

PRODUCT PERFORMANCE



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C - Dynamic load	951000000 mN
C0 - Static load	1280000000 mN
Cu - Fatigue limit load	130000000 mN
e - Coefficient	0.34
Y0 - Static axial load coefficient	1.93
Y1 - Lower axial load coefficient	1.98
Y2 - Upper axial load coefficient	2.94
N ref - Reference thermal speed	9600 °/s
N lim - Mechanical Limit Speed	13800 °/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)	9.635 Hz
BPFI - Over rolling frequency on inner (60 rpm)	12.365 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	7.737 Hz
BRF - Rotational frequency - rolling element (60 rpm)	3.869 Hz
FTF - Rotational frequency - cage (60 rpm)	0.438 Hz

ABUTMENT

da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	152 mm
Da max - Max shoulder diameter OR	213 mm
ra max - Max shaft & housing fillet radius	2 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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