Brand of NTN corporation

Technical data

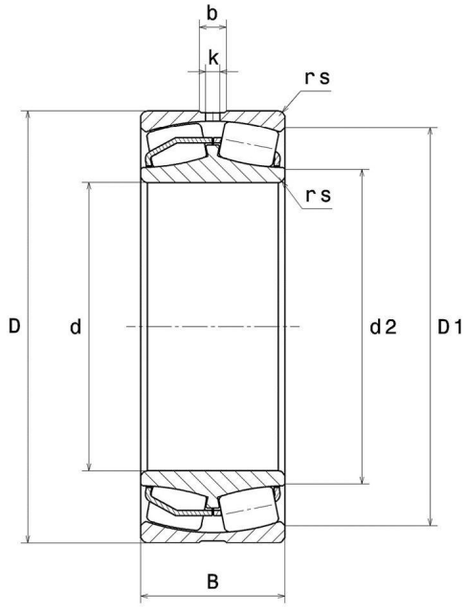
24126EAW33

Spherical roller bearings

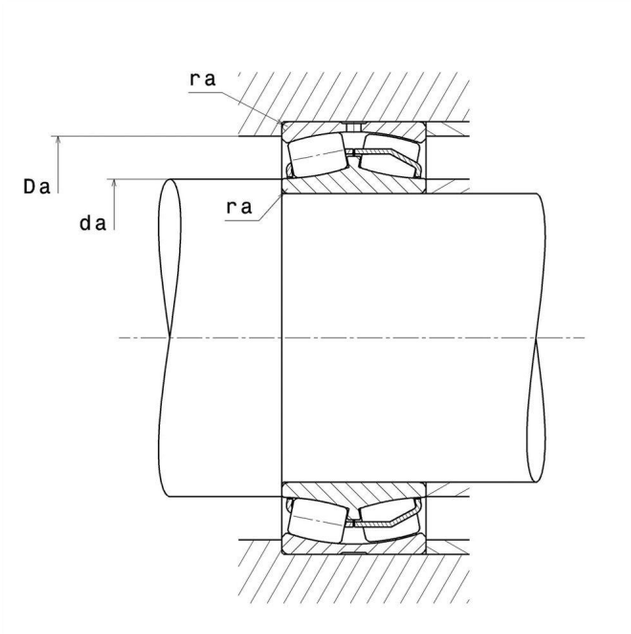
Spherical roller bearing, with central rib on inner ring, pressed steel cage, groove and lubrication holes on outer ring

ULTAGE

VISUAL (S)



24126EAW33
Spherical roller bearings



PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	130 mm
D - External diameter	210 mm
B - Bearing/Inner ring width	80 mm
d2 - External diameter inner ring	146 mm
D1 - Inner diameter outer ring	183,2 mm
rs - Min fillet radius	2 mm
Number of lubrication holes	3
b - Groove width	10,32 mm
k - Hole diameter	4,5 mm
Radial clearance class	CN
Mass	10,5 kg

PRODUCT PERFORMANCE

24126EAW33
Spherical roller bearings

PRODUCT PERFORMANCE	
C - Dynamic load	795000000 mN
C0 - Static load	1070000000 mN
Cu - Fatigue limit load	111000000 mN
e - Coefficient	0.34
Y0 - Static axial load coefficient	1.92
Y1 - Lower axial load coefficient	1.96
Y2 - Upper axial load coefficient	2.92
N ref - Reference thermal speed	10800 °/s
N lim - Mechanical Limit Speed	14400 °/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)	9.685 Hz
BPFI - Over rolling frequency on inner (60 rpm)	12.315 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	8.037 Hz
BRF - Rotational frequency – rolling element (60 rpm)	4.019 Hz
FTF - Rotational frequency - cage (60 rpm)	0.44 Hz

ABUTMENT	
da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	141 mm
Da max - Max shoulder diameter OR	199 mm
ra max - Max shaft & housing fillet radius	2 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .