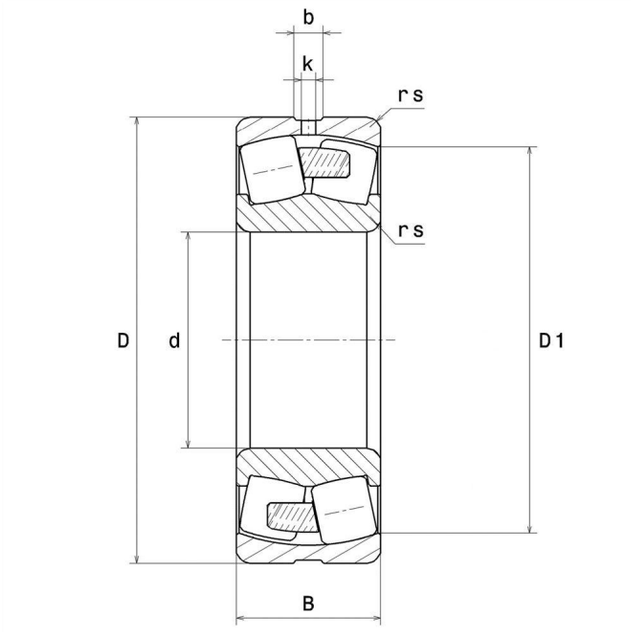
Technical data

22212EMW33

Spherical roller bearings

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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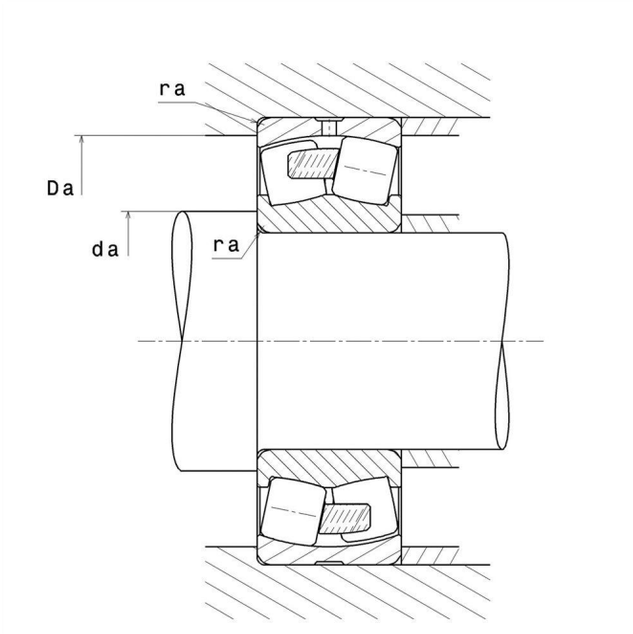

PRODUCT DEFINITION	
Brand	NTN
d - Internal diameter	60 mm
D - External diameter	110 mm
B - Bearing/Inner ring width	28 mm
D1 - Inner diameter outer ring	98,5 mm
rs - Min fillet radius	1,5 mm
Number of lubrication holes	3
b - Groove width	6,9 mm
k - Hole diameter	3 mm
Radial clearance class	CN
Mass	1,147 kg

PRODUCT PERFORMANCE	
C - Dynamic load	179000000 mN

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PRODUCT PERFORMANCE	
C0 - Static load	171000000 mN
Cu - Fatigue limit load	20900000 mN
e - Coefficient	0.24
Y0 - Static axial load coefficient	2.78
Y1 - Lower axial load coefficient	2.84
Y2 - Upper axial load coefficient	4.23
N ref - Reference thermal speed	34200 °/s
N lim - Mechanical Limit Speed	45000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

ABUTMENT	
da min - Min shoulder diameter IR	69 mm
Da max - Max shoulder diameter OR	101 mm
ra max - Max shaft & housing fillet radius	1,5 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 .