

Technical data

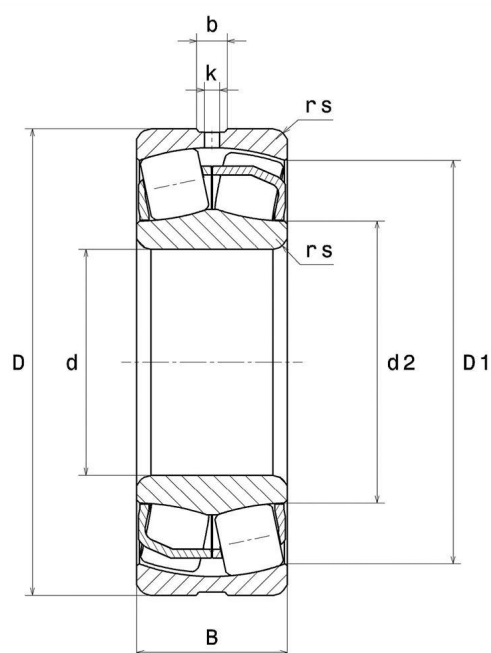
22309EAW33C3

Spherical roller bearings



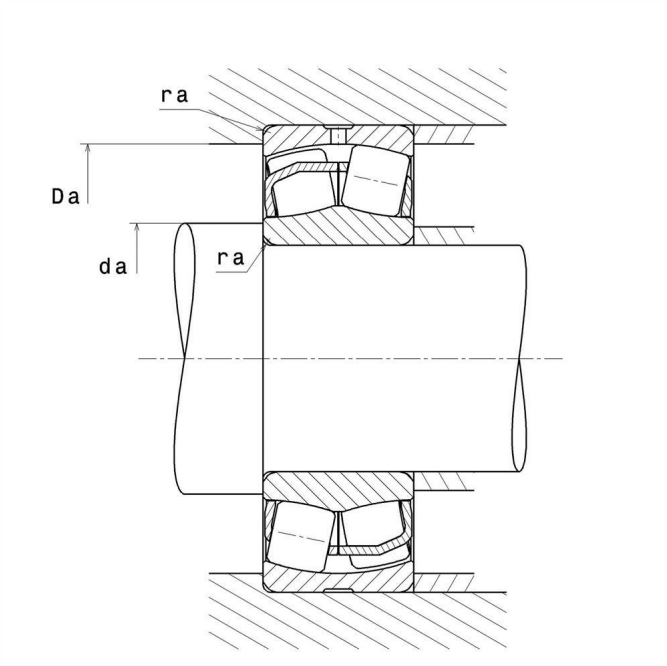
ULTAGE®

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	NTN
d - Internal diameter	45 mm
D - External diameter	100 mm
B - Bearing/Inner ring width	36 mm
d2 - External diameter inner ring	58 mm
D1 - Inner diameter outer ring	85,8 mm
rs - Min fillet radius	1,5 mm
Number of lubrication holes	3
b - Groove width	6,43 mm
k - Hole diameter	3 mm
Radial clearance class	C3
Mass	1,352 kg

PRODUCT PERFORMANCE



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C - Dynamic load	206 kN
C0 - Static load	187 kN
Cu - Fatigue limit load	22,8 kN
e - Coefficient	0.36
Y0 - Static axial load coefficient	1.86
Y1 - Lower axial load coefficient	1.9
Y2 - Upper axial load coefficient	2.83
N ref - Reference thermal speed	5300 tr/min
N lim - Mechanical Limit Speed	6700 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	200 °C

ABUTMENT

da min - Min shoulder diameter IR	54 mm
Da max - Max shoulder diameter OR	91 mm
ra max - Max shaft & housing fillet radius	1,5 mm

ESHOPDONOTDISPLAY

Tracepart	Oui/Yes
URL 3D Platform	https://www.traceparts.com/els/ntn-snr/goto?PartNumber=22309EAW33C3
Reference	22309EAW33C3
Image	SRBEAW33_1.jpg, SRBEAW33_2.jpg, SRBEAW33_3.jpg
ULTAGE	Oui/Yes
Rolling element material	Acier 100Cr6
Number of deflectors	0



ESHOPDONOTDISPLAY

Number of seals

0

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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