

Technical data

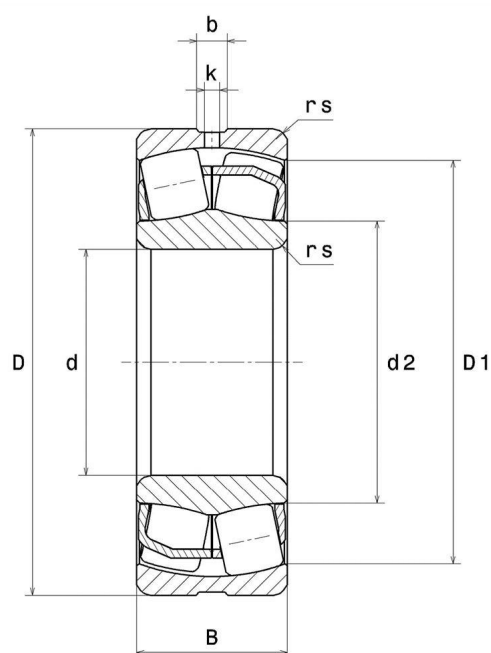
22207EAW33C3

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	35 mm
D - External diameter	72 mm
B - Bearing/Inner ring width	23 mm
d2 - External diameter inner ring	45,1 mm
D1 - Inner diameter outer ring	63 mm
rs - Min fillet radius	1,1 mm
Number of lubrication holes	3
b - Groove width	4,9 mm
k - Hole diameter	2 mm
Radial clearance class	C3
Mass	0,44 kg

PRODUCT PERFORMANCE



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C - Dynamic load	100 kN
C0 - Static load	92 kN
Cu - Fatigue limit load	11,2 kN
e - Coefficient	0.31
Y0 - Static axial load coefficient	2.16
Y1 - Lower axial load coefficient	2.21
Y2 - Upper axial load coefficient	3.29
N ref - Reference thermal speed	9500 tr/min
N lim - Mechanical Limit Speed	12000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	200 °C

ABUTMENT

da min - Min shoulder diameter IR	42 mm
Da max - Max shoulder diameter OR	65 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 .

