

Technical data

22232EAKW33

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



PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	160 mm
D - External diameter	290 mm
B - Bearing/Inner ring width	80 mm
d2 - External diameter inner ring	190 mm
D1 - Inner diameter outer ring	258,7 mm
rs - Min fillet radius	3 mm
Number of lubrication holes	3
b - Groove width	16,94 mm
k - Hole diameter	8 mm
Associated sleeve reference	H3132
Radial clearance class	CN
Mass	22,8 kg



PRODUCT PERFORMANCE

C - Dynamic load	1220000000 mN
C0 - Static load	1390000000 mN
Cu - Fatigue limit load	132000000 mN
e - Coefficient	0.25
Y0 - Static axial load coefficient	2.63
Y1 - Lower axial load coefficient	2.69
Y2 - Upper axial load coefficient	4
N ref - Reference thermal speed	12000 °/s
N lim - Mechanical Limit Speed	16800 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

ABUTMENT

da min - Min shoulder diameter IR	174 mm
db - Min diameter for Sleeve	170 mm
Ce - Min length fro Sleeve	14 mm
Da max - Max shoulder diameter OR	276 mm
ra max - Max shaft & housing fillet radius	2,5 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 .



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