

Technical data

23120EAW33

Spherical roller bearings



ULTAGE®

VISUAL (S)





PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	100 mm
D - External diameter	165 mm
B - Bearing/Inner ring width	52 mm
d2 - External diameter inner ring	114,7 mm
D1 - Inner diameter outer ring	146,9 mm
rs - Min fillet radius	2 mm
Number of lubrication holes	3
b - Groove width	8,39 mm
k - Hole diameter	4 mm
Radial clearance class	CN
Mass	4,34 kg

PRODUCT PERFORMANCE



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C - Dynamic load	464000000 mN
C0 - Static load	563000000 mN
Cu - Fatigue limit load	62800000 mN
e - Coefficient	0.28
Y0 - Static axial load coefficient	2.34
Y1 - Lower axial load coefficient	2.39
Y2 - Upper axial load coefficient	3.56
N ref - Reference thermal speed	19200 °/s
N lim - Mechanical Limit Speed	23400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

ABUTMENT

da min - Min shoulder diameter IR	111 mm
Da max - Max shoulder diameter OR	154 mm
ra max - Max shaft & housing fillet radius	2 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 .



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