



Technical data

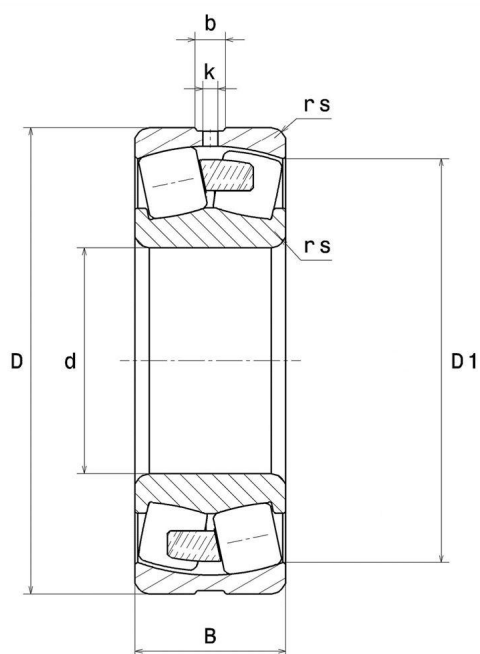
23936EMD1

Spherical roller bearings

Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE®

VISUAL (S)





PRODUCT DEFINITION

Brand	NTN
d - Internal diameter	180 mm
D - External diameter	250 mm
B - Bearing/Inner ring width	52 mm
rs - Min fillet radius	2 mm
Number of lubrication holes	4
b - Groove width	9 mm
k - Hole diameter	5 mm
Radial clearance class	CN
Mass	7,95 kg

PRODUCT PERFORMANCE

C - Dynamic load	573000000 mN
C0 - Static load	869000000 mN



PRODUCT PERFORMANCE

Cu - Fatigue limit load	57200000 mN
e - Coefficient	0.17
Y0 - Static axial load coefficient	3.81
Y1 - Lower axial load coefficient	3.9
Y2 - Upper axial load coefficient	5.81
N lim - Oil lubrication limit speed	10800 °/s
N lim - Grease lubrication limit speed	8400 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

ABUTMENT

da min - Min shoulder diameter IR	188,8 mm
Da max - Max shoulder diameter OR	241,2 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 .

