

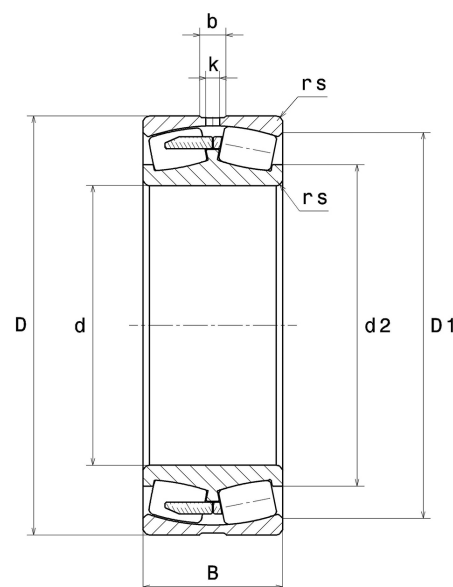
PDF technical sheet 23096B



Double row spherical roller bearings

Spherical roller bearing, with central rib on inner ring, 2-part machined cage centred on inner ring, groove and lubrication holes on outer ring

Product definition	
d	18.8976 "
D	27.5591 "
B	6.4961 "
d2	21.6929 "
D1	24.8898 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.0630 "
k	0.6299 "
e	0.23
Y1	2.94
Y2	4.38
Y0	2.88
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	3,650 kN
Static load, C0	7,700 kN
Fatigue limit load, Cu	1,008 kN
Nref	550 RPM
Nlim	750 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.86 Hz
Characteristic outer ring frequency, BPF0	13.65 Hz
Characteristic inner ring frequency, BPF1	16.36 Hz



Abutment dimensions

da min	19.8031 "
Da max	26.6535 "
ra max	0.1969 "

Calculation 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 .