

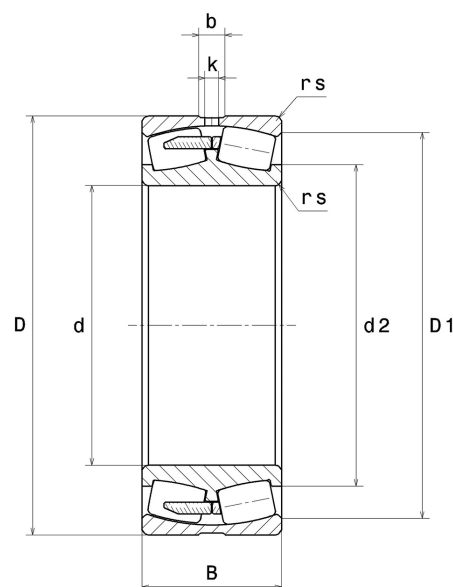
PDF technical sheet 23968



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	13.3858 "
D	18.1102 "
B	3.5433 "
rs min	0.1181 "
Number of lubrication holes	8
b	0.5512 "
k	0.3150 "
e	0.17
Y1	3.91
Y2	5.83
Y0	3.83
Radial clearance class	CN
Brand	NTN



Product performance	
Dynamic load, C	1,220 kN
Static load, C0	2,650 kN
Fatigue limit load, Cu	366 kN
Nref	900 RPM
Nlim	1,200 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.27 Hz
Characteristic outer ring frequency, BPF0	17.68 Hz
Characteristic inner ring frequency, BPF1	20.32 Hz



Abutment dimensions

da min	13.8740 "
Da max	17.6220 "
ra max	0.0984 "

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 .