

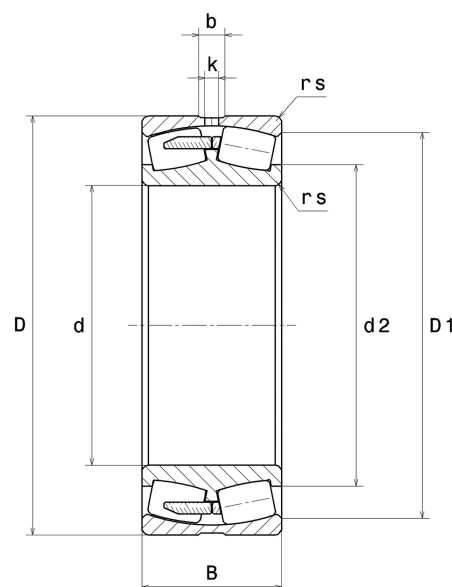
PDF technical sheet 23188BC3



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	17.3228 "
D	28.3465 "
B	8.8976 "
d2	20.7283 "
D1	24.6772 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
e	0.31
Y1	2.15
Y2	3.21
Y0	2.11
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	5,200 kN
Static load, C0	10,100 kN
Fatigue limit load, Cu	622 kN
Nref	430 RPM
Nlim	700 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.19 Hz
Characteristic outer ring frequency, BPF0	9.70 Hz
Characteristic inner ring frequency, BPF1	12.30 Hz



Abutment dimensions

da min	18.3465 "
Da max	27.3228 "
ra max	0.1969 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

Fa / Fr ≤ e		Fa / Fr > 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 .