

PDF technical sheet

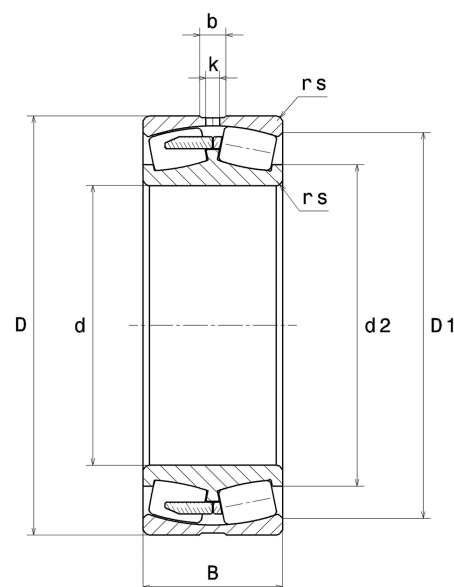
240/530BC3



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	20.8661 "
D	30.7087 "
B	9.8425 "
d2	23.8386 "
D1	27.1024 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
e	0.3
Y1	2.24
Y2	3.33
Y0	2.19
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	5,600 kN
Static load, C0	12,700 kN
Fatigue limit load, Cu	660 kN
Nref	350 RPM
Nlim	750 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.66 Hz
Characteristic outer ring frequency, BPF0	12.72 Hz
Characteristic inner ring frequency, BPF1	15.28 Hz



Abutment dimensions

da min	21.7717 "
Da max	29.8031 "
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 .