

PDF technical sheet

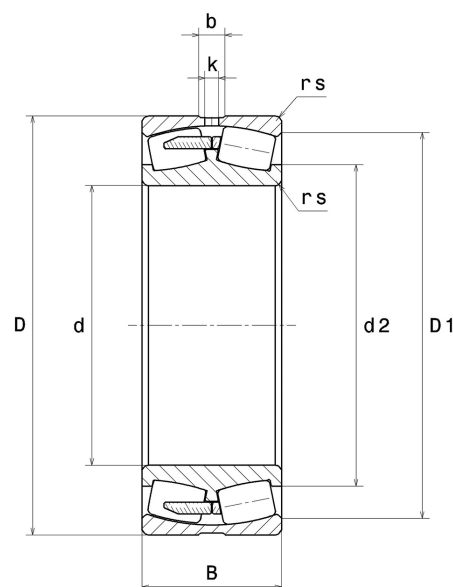
23984L1C3



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	16.5354 "
D	22.0472 "
B	4.1732 "
d2	17.9331 "
D1	19.4173 "
rs min	0.1575 "
Number of lubrication holes	8
b	0.6299 "
k	0.3937 "
e	0.17
Y1	3.95
Y2	5.88
Y0	3.86
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	1,630 kN
Static load, C0	3,850 kN
Fatigue limit load, Cu	324 kN
Nref	690 RPM
Nlim	950 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	15.84 Hz
Characteristic outer ring frequency, BPF0	19.69 Hz
Characteristic inner ring frequency, BPF1	22.31 Hz



Abutment dimensions

da min	17.1102 "
Da max	21.4724 "
ra max	0.1181 "

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 .