

PDF technical sheet 24068BC3



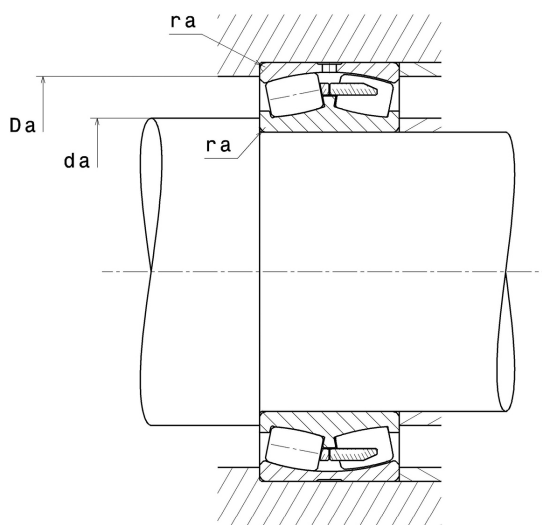
Double row spherical roller bearings

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	20.4724 "
B	7.0866 "
d2	15.5118 "
D1	17.9134 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.0630 "
k	0.6299 "
e	0.34
Y1	1.98
Y2	2.95
Y0	1.94
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	3,000 kN
Static load, C0	6,200 kN
Fatigue limit load, Cu	513 kN
Nref	610 RPM
Nlim	1,200 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	9.50 Hz
Characteristic outer ring frequency, BPF0	11.68 Hz
Characteristic inner ring frequency, BPF1	14.32 Hz



Abutment dimensions

da min	14.0945 "
Da max	19.7638 "
ra max	0.1575 "

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 .