

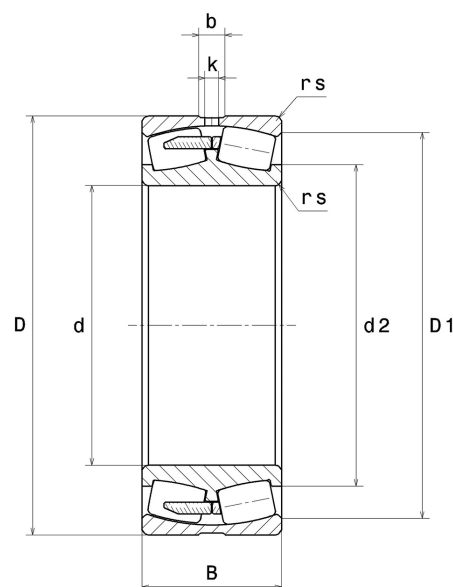
PDF technical sheet 24076BL1K30C3



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	14.9606 "
D	22.0472 "
B	7.0866 "
d2	17.2441 "
D1	19.6102 "
rs min	0.1969 "
Number of lubrication holes	8
b	1.0630 "
k	0.6299 "
e	0.3
Y1	2.23
Y2	3.32
Y0	2.18
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	3,250 kN
Static load, C0	7,100 kN
Fatigue limit load, Cu	411 kN
Nref	530 RPM
Nlim	1,100 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	10.69 Hz
Characteristic outer ring frequency, BPF0	13.18 Hz
Characteristic inner ring frequency, BPF1	15.82 Hz



Abutment dimensions

da min	15.6693 "
Da max	21.3386 "
ra max	0.1575 "

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 .