

PDF technical sheet

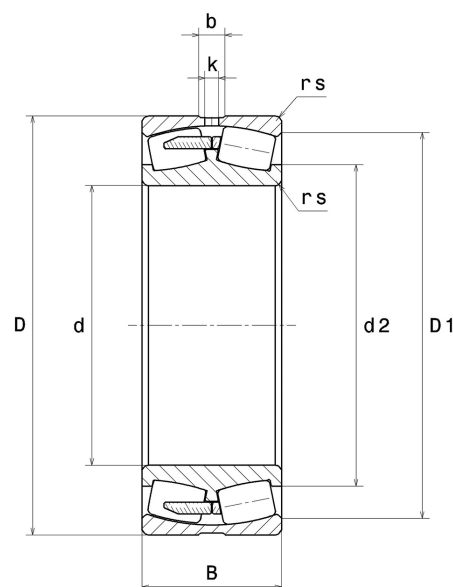
239/500L1C3



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	19.6850 "
D	26.3780 "
B	5.0394 "
d2	22.0866 "
D1	24.4291 "
rs min	0.1969 "
Number of lubrication holes	8
b	0.7874 "
k	0.4724 "
e	0.17
Y1	4.02
Y2	5.98
Y0	3.93
Radial clearance class	C3
Brand	NTN



Product performance	
Dynamic load, C	2,370 kN
Static load, C0	5,600 kN
Fatigue limit load, Cu	563 kN
Nref	560 RPM
Nlim	800 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	15.05 Hz
Characteristic outer ring frequency, BPF0	18.69 Hz
Characteristic inner ring frequency, BPF1	21.32 Hz



Abutment dimensions

da min	20.3937 "
Da max	25.6693 "
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 .