

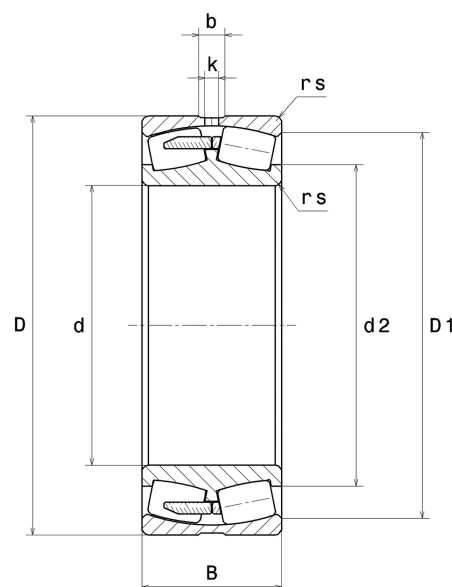
## PDF technical sheet 23964C3



### 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                           | 12.5984 " |
| D                           | 17.3228 " |
| B                           | 3.5433 "  |
| rs min                      | 0.1181 "  |
| Number of lubrication holes | 8         |
| b                           | 0.5512 "  |
| k                           | 0.3150 "  |
| e                           | 0.19      |
| Y1                          | 3.5       |
| Y2                          | 5.21      |
| Y0                          | 3.42      |
| Radial clearance class      | CN        |
| Brand                       | NTN       |



| Product performance                           |           |
|-----------------------------------------------|-----------|
| Dynamic load, C                               | 1,140 kN  |
| Static load, C0                               | 2,460 kN  |
| Fatigue limit load, Cu                        | 205 kN    |
| Nref                                          | 950 RPM   |
| Nlim                                          | 1,300 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 | 14.07 Hz  |
| Characteristic outer ring frequency, BPF0     | 17.67 Hz  |
| Characteristic inner ring frequency, BPF1     | 20.33 Hz  |



### Abutment dimensions

|        |           |
|--------|-----------|
| da min | 13.0866 " |
| Da max | 16.8346 " |
| ra max | 0.0984 "  |

### 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 .