

## PDF technical sheet

# 23264BL1K

### 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, tapered bore 1:12

| Product definition          |           |
|-----------------------------|-----------|
| d                           | 12.5984 " |
| D                           | 22.8346 " |
| B                           | 8.1890 "  |
| d2                          | 15.8661 " |
| D1                          | 19.3543 " |
| rs min                      | 0.1969 "  |
| Number of lubrication holes | 8         |
| b                           | 1.2992 "  |
| k                           | 0.7874 "  |
| Associated sleeve reference | H3264     |
| e                           | 0.36      |
| Y1                          | 1.86      |
| Y2                          | 2.77      |
| Y0                          | 1.82      |
| Radial clearance class      | CN        |
| Brand                       | NTN       |

| Product performance                           |          |
|-----------------------------------------------|----------|
| Dynamic load, C                               | 4,000 kN |
| Static load, C0                               | 7,050 kN |
| Fatigue limit load, Cu                        | 653 kN   |
| Nref                                          | 510 RPM  |
| Nlim                                          | 950 RPM  |
| Min operating temperature, Tmin               | -40 °C   |
| Max operating temperature, Tmax               | 248 °C   |
| Characteristic cage frequency, FTF            | 0.43 Hz  |
| Characteristic rolling element frequency, BSF | 6.85 Hz  |
| Characteristic outer ring frequency, BPF0     | 8.18 Hz  |
| Characteristic inner ring frequency, BPFI     | 10.82 Hz |

### Abutment dimensions

|        |           |
|--------|-----------|
| da min | 13.3858 " |
| db min | 13.5039 " |
| Ce min | 0.5118 "  |
| Da max | 22.0472 " |
| 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 .