

## PDF technical sheet R12LLU/2AS



### Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides

| Product definition     |          |
|------------------------|----------|
| d                      | 0.7500 " |
| D                      | 1.6250 " |
| B                      | 0.4375 " |
| rs min                 | 0.0315 " |
| Radial clearance class | CN       |
| Mass                   | 0.16 oz  |
| Brand                  | NTN      |



| Product performance             |            |
|---------------------------------|------------|
| Dynamic load, C                 | 7.90 kN    |
| Nlim (grease)                   | 11,000 RPM |
| Min operating temperature, Tmin | -13 °C     |
| Max operating temperature, Tmax | 230 °C     |



### Abutment dimensions

|        |          |
|--------|----------|
| da min | 0.9291 " |
| Da max | 1.4488 " |
| ra max | 0.0315 " |

### Calculation factors

#### Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

| $\frac{f_0 F_a}{C_0}$ | e    | $F_a / Fr \leq e$ |   | $F_a / Fr > e$ |      |
|-----------------------|------|-------------------|---|----------------|------|
|                       |      | X                 | Y | X              | Y    |
| 0.172                 | 0.19 | 1                 | 0 | 0.56           | 2.3  |
| 0.345                 | 0.22 |                   |   |                | 1.99 |
| 0.689                 | 0.26 |                   |   |                | 1.71 |
| 1.03                  | 0.28 |                   |   |                | 1.55 |
| 1.38                  | 0.3  |                   |   |                | 1.45 |
| 2.07                  | 0.34 |                   |   |                | 1.31 |
| 3.45                  | 0.38 |                   |   |                | 1.15 |
| 5.17                  | 0.42 |                   |   |                | 1.04 |
| 6.89                  | 0.44 |                   |   |                | 1    |

#### Equivalent static radial load

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 0.6   | 0.5   |

For single or DT bearing arrangement:

If  $P_0 < Fr$ , then use  $P_0 = Fr$