

## PDF technical sheet 4T32024X



### Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

| Product definition |          |
|--------------------|----------|
| d                  | 4.7244 " |
| D                  | 7.0866 " |
| B                  | 1.4961 " |
| C                  | 1.1417 " |
| T                  | 1.4961 " |
| a                  | 1.5354 " |
| rs min             | 0.0984 " |
| r1s min            | 0.0787 " |
| e                  | 0.46     |
| Y2                 | 1.31     |
| Y0                 | 0.72     |
| Mass               | 11.46 oz |
| ISO 355 reference  | T4DC120  |
| Brand              | NTN      |



| Product performance             |           |
|---------------------------------|-----------|
| Dynamic load, C                 | 245 kN    |
| Rating life coefficient, A2     | 1.4       |
| Static load, C0                 | 420 kN    |
| Nlim (oil)                      | 2,500 RPM |
| Nlim (grease)                   | 1,800 RPM |
| Min operating temperature, Tmin | -40 °C    |
| Max operating temperature, Tmax | 248 °C    |



### Abutment dimensions

|         |          |
|---------|----------|
| da max  | 5.1969 " |
| db min  | 5.1575 " |
| Da max  | 6.6929 " |
| Db min  | 6.8110 " |
| ra max  | 0.0787 " |
| r1a max | 0.0787 " |

### 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                  | 0 | 0.4             | Y2 |

#### Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

| $X_0$ | $Y_0$ |
|-------|-------|
| 0.5   | Y0    |

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

The values for e, Y2 and Y0 are shown in the above table