

## PDF technical sheet 33024.A



### Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

| Product definition |          |
|--------------------|----------|
| d                  | 4.7244 " |
| D                  | 7.0866 " |
| B                  | 1.8898 " |
| C                  | 1.4961 " |
| T                  | 1.8898 " |
| a                  | 1.4173 " |
| rs min             | 0.0984 " |
| r1s min            | 0.0787 " |
| e                  | 0.31     |
| Y2                 | 1.97     |
| Y0                 | 1.08     |
| Mass               | 16.05 oz |
| ISO 355 reference  | T2EE120  |
| Brand              | SNR      |



| Product performance             |           |
|---------------------------------|-----------|
| Dynamic load, C                 | 310 kN    |
| Rating life coefficient, A2     | 1         |
| Static load, C0                 | 560 kN    |
| Fatigue limit load, Cu          | 60.60 kN  |
| Nref                            | 2,600 RPM |
| Nlim                            | 3,700 RPM |
| Min operating temperature, Tmin | -40 °C    |
| Max operating temperature, Tmax | 248 °C    |



### Abutment dimensions

|         |          |
|---------|----------|
| da max  | 5.1969 " |
| db min  | 5.1969 " |
| Da min  | 6.2992 " |
| Da max  | 6.6929 " |
| Db min  | 6.7756 " |
| Ca min  | 0.2362 " |
| Cb min  | 0.3937 " |
| 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  $P_0 \leq F_r$ , then use  $P_0 = F_r$

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