

## PDF technical sheet 32236A



### Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

| Product definition |           |
|--------------------|-----------|
| d                  | 7.0866 "  |
| D                  | 12.5984 " |
| B                  | 3.3858 "  |
| C                  | 2.7953 "  |
| T                  | 3.5827 "  |
| a                  | 3.0236 "  |
| rs min             | 0.1969 "  |
| r1s min            | 0.1575 "  |
| e                  | 0.45      |
| Y2                 | 1.33      |
| Y0                 | 0.73      |
| Mass               | 106.17 oz |
| ISO 355 reference  | T4GD180   |
| Brand              | SNR       |



| Product performance             |           |
|---------------------------------|-----------|
| Dynamic load, C                 | 1,010 kN  |
| Rating life coefficient, A2     | 1         |
| Static load, C0                 | 1,640 kN  |
| Fatigue limit load, Cu          | 152 kN    |
| Nref                            | 1,200 RPM |
| Nlim                            | 2,100 RPM |
| Min operating temperature, Tmin | -40 °C    |
| Max operating temperature, Tmax | 248 °C    |



### Abutment dimensions

|         |           |
|---------|-----------|
| da max  | 8.0315 "  |
| db min  | 7.9528 "  |
| Da min  | 10.5118 " |
| Da max  | 11.8898 " |
| Db min  | 12.0079 " |
| Ca min  | 0.3937 "  |
| Cb min  | 0.7874 "  |
| ra max  | 0.1575 "  |
| r1a max | 0.1181 "  |

### 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