



## Technical data

### 6405C3

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

#### VISUAL (S)



# 6405C3

Single row deep groove ball bearings

## PRODUCT DEFINITION

|                              |         |
|------------------------------|---------|
| Brand                        | NTN     |
| d - Internal diameter        | 25 mm   |
| D - External diameter        | 80 mm   |
| B - Bearing/Inner ring width | 21 mm   |
| rs - Min fillet radius       | 1,5 mm  |
| Radial clearance class       | C3      |
| Mass                         | 0,53 kg |

## PRODUCT PERFORMANCE

|                                        |             |
|----------------------------------------|-------------|
| C - Dynamic load                       | 38500000 mN |
| C0 - Static load                       | 17500000 mN |
| Cu - Fatigue limit load                | 1360000 mN  |
| f0 - Coefficient                       | 11.6        |
| N lim - Oil lubrication limit speed    | 72000 °/s   |
| N lim - Grease lubrication limit speed | 60000 °/s   |
| Tmin - Min operating temperature       | 233,15 °K   |
| Tmax - Max operating temperature       | 393,15 °K   |

## ABUTMENT

|                                            |        |
|--------------------------------------------|--------|
| da min - Min shoulder diameter IR          | 33 mm  |
| Da max - Max shoulder diameter OR          | 72 mm  |
| ra max - Max shaft & housing fillet radius | 1,5 mm |



**NTN Europe**

1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00  
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072  
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.F_r + Y.F_a$

| $\frac{f_0 F_a}{C_0}$ | e    | Fa / Fr ≤ e |   | Fa / 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

$P_0 = X_0.F_r + Y_0.F_a$

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

For single or DT bearing arrangement :

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

