



Technical data

32221U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	105 mm
D	190 mm
B	50 mm
C	43 mm
T	53 mm
a	44 mm
rs min	2.5 mm
r1s min	2 mm
e	0.42
Y2	1.43
Y0	0.79
Mass	6.25 kg
ISO 355 reference	T3FC105
Brand	NTN

Product performance

Dynamic load, C	380 kN
Rating life coefficient, A2	1
Static load, C0	540 kN
Nlim (oil)	2,500 Tr/min
Nlim (grease)	1,900 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C

Abutment dimensions

da max	119 mm
db min	119 mm
Da max	178 mm
Db min	180 mm
ra max	2.5 mm
r1a max	2 mm

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