



Technical data

30228U

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	140 mm
D	250 mm
B	42 mm
C	36 mm
T	45.75 mm
d1	189 mm
a	48.5 mm
rs min	4 mm
r1s min	3 mm
e	0.44
Y2	1.38
Y0	0.76
Mass	9.26 kg
ISO 355 reference	T4FB140
Brand	NTN

Product performance

Dynamic load, C	420 kN
Rating life coefficient, A2	1
Static load, C0	570 kN
Fatigue limit load, Cu	56.9 kN
Nlim (oil)	1,900 Tr/min
Nlim (grease)	1,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.89 Hz
Characteristic outer ring frequency, BPF0	8.63 Hz
Characteristic inner ring frequency, BPFI	11.37 Hz

Abutment dimensions

da max	163 mm
db min	158 mm
Da min	219 mm
Da max	236 mm
Db min	237 mm
Ca min	7 mm
Cb min	9.5 mm
ra max	3 mm
r1a max	2.5 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