



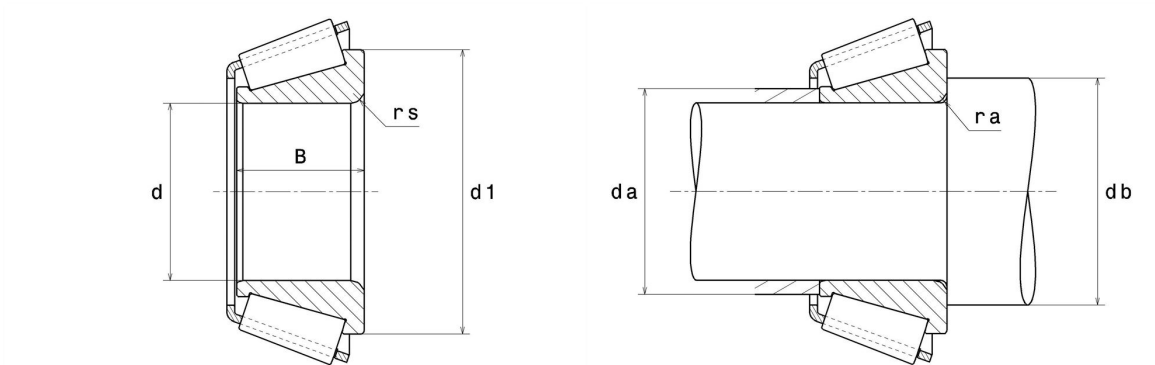
Technical datasheet

4T-47687

Single row tapered roller bearings

Mounted cone, sheet metal cage

Visual(s)



Product definition

d	82.55 mm
B	33.34 mm
d1	108 mm
e	0.4
Y2	1.48
Y0	0.82
Brand	NTN

Product performance

Dynamic load, C	153 kN
Rating life coefficient, A2	1.4
Static load, C0	235 kN
Fatigue limit load, Cu	28 kN
Nlim (oil)	3,500 rpm
Nlim (grease)	2,600 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.11 Hz
Characteristic outer ring frequency, BPF0	10.74 Hz
Characteristic inner ring frequency, BPFI	13.26 Hz

Abutment dimensions

ra max

6.8 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