Technical datasheet

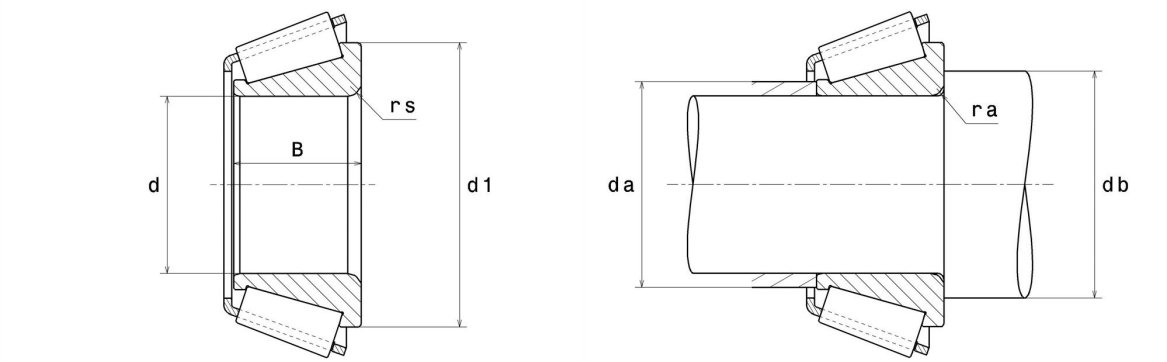
4T-48684

Single row tapered roller bearings

Mounted cone, sheet metal cage



Visual(s)



Product definition

d	142.88 mm
B	39.69 mm
d1	172.5 mm
e	0.34
Y2	1.78
Y0	0.98
Brand	NTN

Product performance

Dynamic load, C	239 kN
Rating life coefficient, A2	1.4
Static load, C0	490 kN
Fatigue limit load, Cu	50.8 kN
Nlim (oil)	2,100 rpm
Nlim (grease)	1,600 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.63 Hz
Characteristic outer ring frequency, BPF0	17.27 Hz
Characteristic inner ring frequency, BPFI	19.73 Hz

Abutment dimensions

ra max	8 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ e		Fa / Fr > e	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
0.5	Y0

If Po <Fr, then use Po = Fr

The values for e, Y2 and Y0 are shown in the above table