Technical data

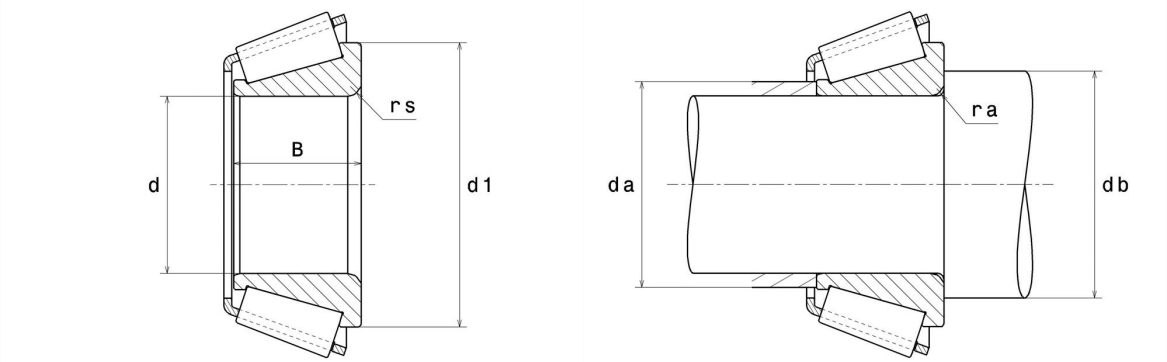
4T-13889

Single row tapered roller bearings

Mounted cone, sheet metal cage



Visual(s)



Product definition

d	38.1 mm
B	11.91 mm
d1	52.5 mm
e	0.35
Y2	1.73
Y0	0.95
Brand	NTN

Product performance

Dynamic load, C	25.9 kN
Rating life coefficient, A2	1.4
Static load, C0	33.5 kN
Fatigue limit load, Cu	4.1 kN
Nlim (oil)	7,300 Tr/min
Nlim (grease)	5,500 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.98 Hz
Characteristic outer ring frequency, BPF0	10.84 Hz
Characteristic inner ring frequency, BPFI	13.16 Hz

Abutment dimensions

ra max	1.5 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