



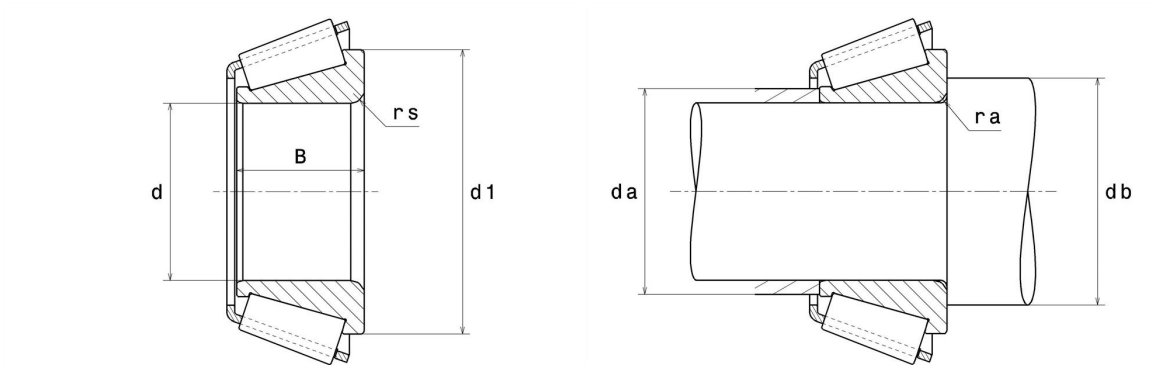
Technical datasheet

4T-LM11949

Single row tapered roller bearings

Mounted cone, sheet metal cage

Visual(s)



Product definition

d	19.05 mm
B	16.64 mm
d1	31 mm
e	0.3
Y2	2
Y0	1.1
Brand	NTN

Product performance

Dynamic load, C	28.3 kN
Rating life coefficient, A2	1.4
Static load, C0	28.6 kN
Fatigue limit load, Cu	3.5 kN
Nlim (oil)	12,000 rpm
Nlim (grease)	8,900 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.98 Hz
Characteristic outer ring frequency, BPF0	5.67 Hz
Characteristic inner ring frequency, BPF1	8.33 Hz

Abutment dimensions

ra max

1.3 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