Technical data

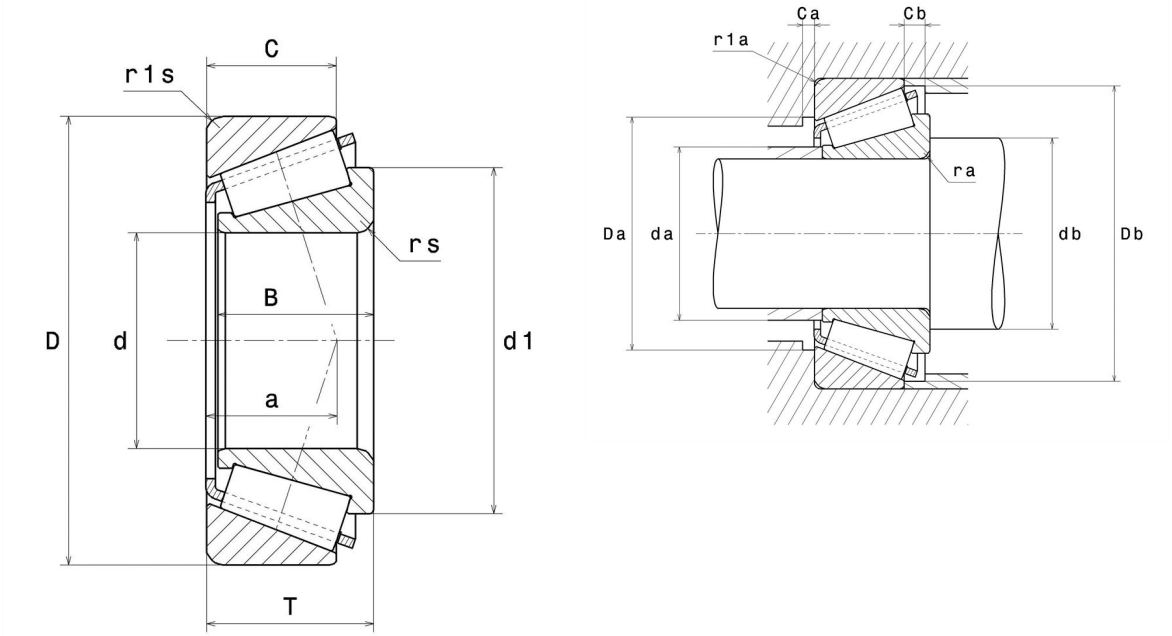
4T-30311

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	55 mm
D	120 mm
B	29 mm
C	25 mm
T	31.5 mm
d1	85.5 mm
a	24.5 mm
rs min	2.5 mm
r1s min	2 mm
e	0.35
Y2	1.74
Y0	0.96
Mass	1.66 kg
ISO 355 reference	T2FB055
Brand	NTN

Product performance

Dynamic load, C	155 kN
Rating life coefficient, A2	1.4
Static load, C0	179 kN
Fatigue limit load, Cu	21.8 kN
Nlim (oil)	4,400 Tr/min
Nlim (grease)	3,300 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.27 Hz
Characteristic outer ring frequency, BPF0	6.57 Hz
Characteristic inner ring frequency, BPFI	9.43 Hz

Abutment dimensions

da max	71 mm
db min	67 mm
Da min	104 mm
Da max	110 mm
Db min	111 mm
Ca min	4 mm
Cb min	6.5 mm
ra max	2 mm
r1a max	2 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa / Fr \leq e$		$Fa / Fr > e$	
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