Technical datasheet

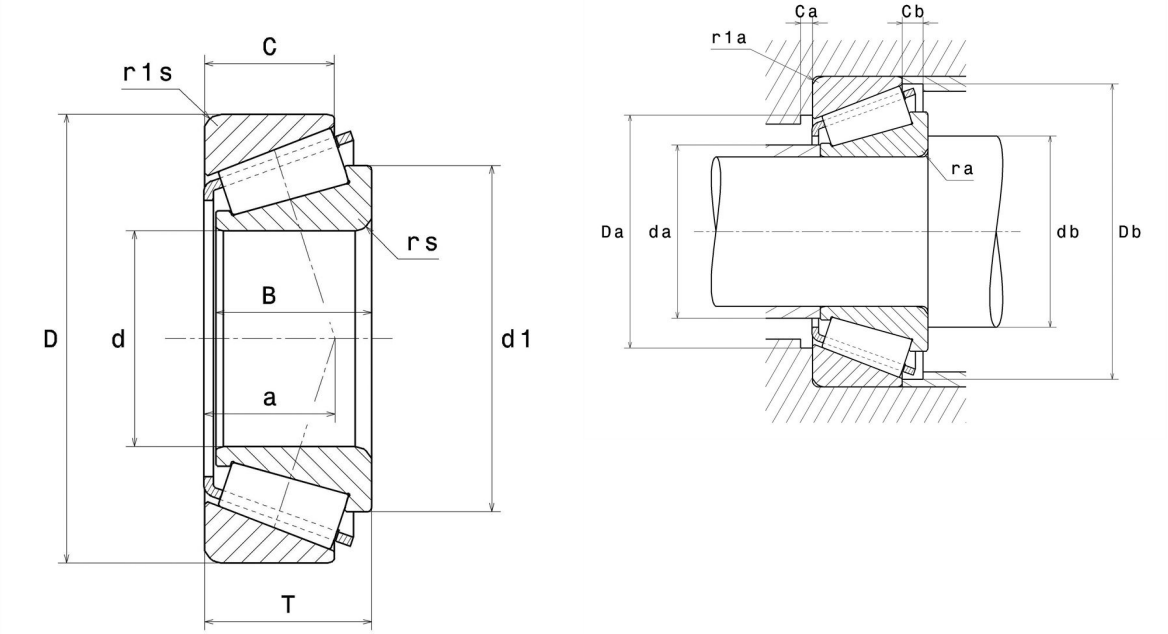
ET-33011

Single row tapered roller bearings



Tapered roller bearing, pressed steel cage

Visual(s)



Product definition

d	55 mm
D	90 mm
B	27 mm
C	21 mm
T	27 mm
d1	73.5 mm
a	19.5 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.31
Y2	1.92
Y0	1.06
Mass	0.64 kg
ISO 355 reference	T2CE055
Brand	NTN

Product performance

Dynamic load, C	91.5 kN
Rating life coefficient, A2	1.9
Static load, C0	138 kN
Fatigue limit load, Cu	16.8 kN
Nlim (oil)	5,400 rpm
Nlim (grease)	4,000 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	8.92 Hz
Characteristic outer ring frequency, BPF0	11.14 Hz
Characteristic inner ring frequency, BPFI	13.86 Hz

Abutment dimensions

da max	63 mm
db min	63.5 mm
Da min	81 mm
Da max	81.5 mm
Db min	86 mm
Ca min	5 mm
Cb min	6 mm
ra max	1.5 mm
r1a max	1.5 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