Technical data

30211.A

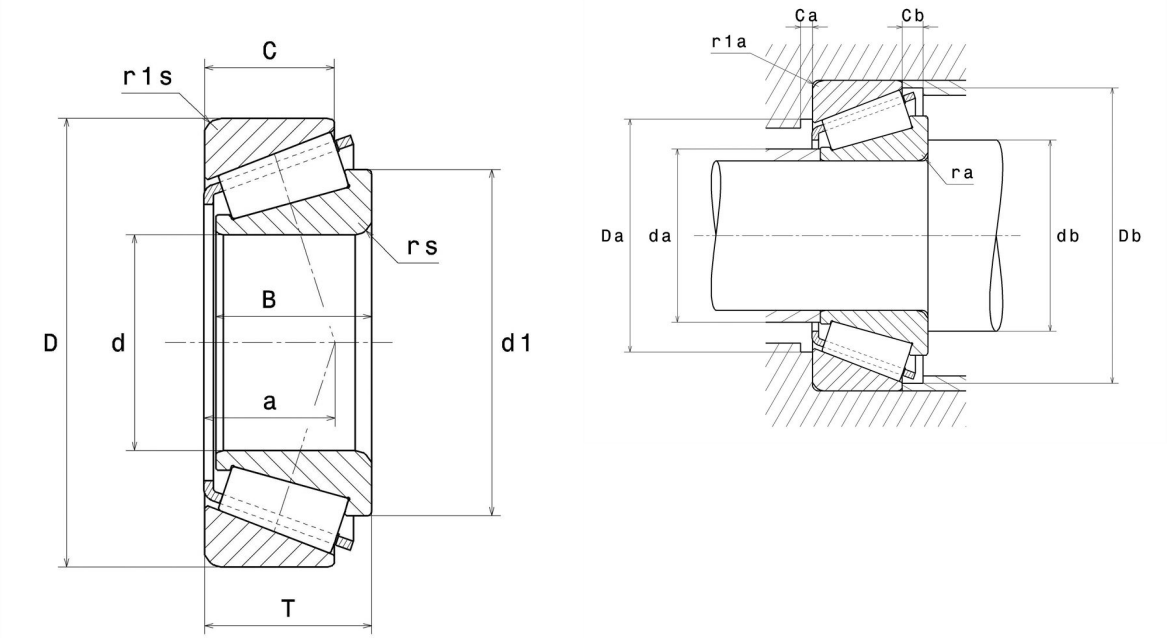
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

ULTAGE



Visual(s)



Product definition

d	55 mm
D	100 mm
B	21 mm
C	18 mm
T	22.75 mm
d1	75.2 mm
a	21.1 mm
rs min	2 mm
r1s min	1.5 mm
e	0.4
Y2	1.48
Y0	0.81
Mass	0.71 kg
ISO 355 reference	T3DB055
Brand	SNR

Product performance

Dynamic load, C	13.9 kN
Rating life coefficient, A2	1
Static load, C0	114 kN
Fatigue limit load, Cu	13.9 kN
Nref	4,500 Tr/min
Nlim	7,300 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.35 Hz
Characteristic outer ring frequency, BPF0	8.09 Hz
Characteristic inner ring frequency, BPFI	10.91 Hz

Abutment dimensions

da max	64 mm
db min	65 mm
Da min	88 mm
Da max	91.5 mm
Db min	94 mm
Ca min	4 mm
Cb min	4.5 mm
ra max	2 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