Technical data

31315A

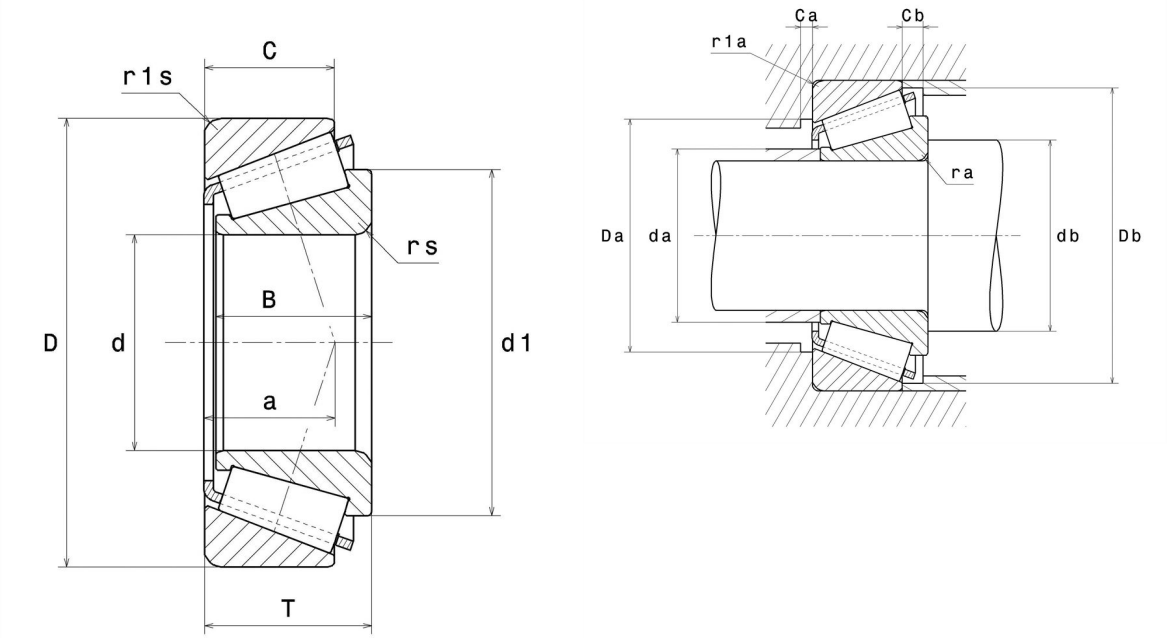
Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

ULTAGE



Visual(s)



Product definition

d	75 mm
D	160 mm
B	37 mm
C	26 mm
T	40 mm
d1	117 mm
a	49.9 mm
rs min	3 mm
r1s min	2.5 mm
e	0.83
Y2	0.73
Y0	0.4
Mass	3.38 kg
ISO 355 reference	T7GB075
Brand	SNR

Product performance

Dynamic load, C	23.47 kN
Rating life coefficient, A2	1
Static load, C0	259 kN
Fatigue limit load, Cu	30.1 kN
Nref	3,200 Tr/min
Nlim	4,400 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.39 Hz
Characteristic outer ring frequency, BPF0	6.73 Hz
Characteristic inner ring frequency, BPFI	9.27 Hz

Abutment dimensions

da max	91 mm
db min	87 mm
Da min	127 mm
Da max	148 mm
Db min	151 mm
Ca min	6 mm
Cb min	14 mm
ra max	2.5 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