Technical data

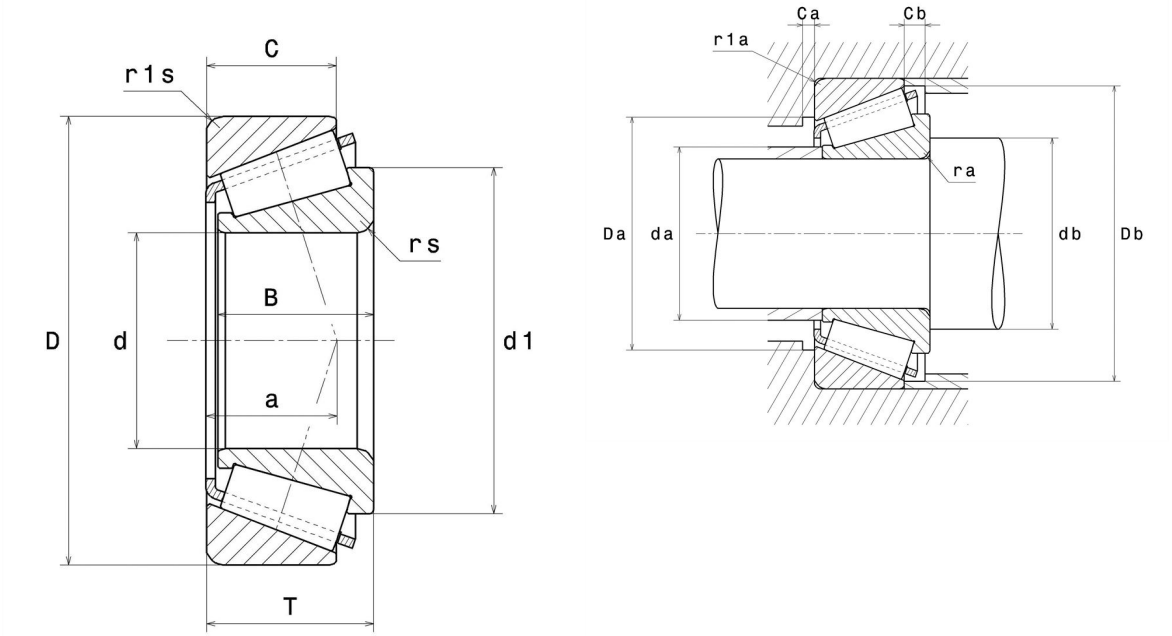
30304.A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage



Visual(s)



Product definition

d	20 mm
D	52 mm
B	15 mm
C	13 mm
T	16.25 mm
d1	34.7 mm
a	11.3 mm
rs min	1.5 mm
r1s min	1.5 mm
e	0.3
Y2	2
Y0	1.1
Mass	0.17 kg
ISO 355 reference	T2FB020
Brand	SNR

Product performance

Dynamic load, C	35 kN
Rating life coefficient, A2	1
Static load, C0	33.6 kN
Fatigue limit load, Cu	4.1 kN
Nref	9,700 Tr/min
Nlim	15,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.41 Hz
Characteristic outer ring frequency, BPF0	5.12 Hz
Characteristic inner ring frequency, BPFI	7.88 Hz

Abutment dimensions

da max	28 mm
db min	28.5 mm
Da min	42.5 mm
Da max	43.5 mm
Db min	47.5 mm
Ca min	3 mm
Cb min	3 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