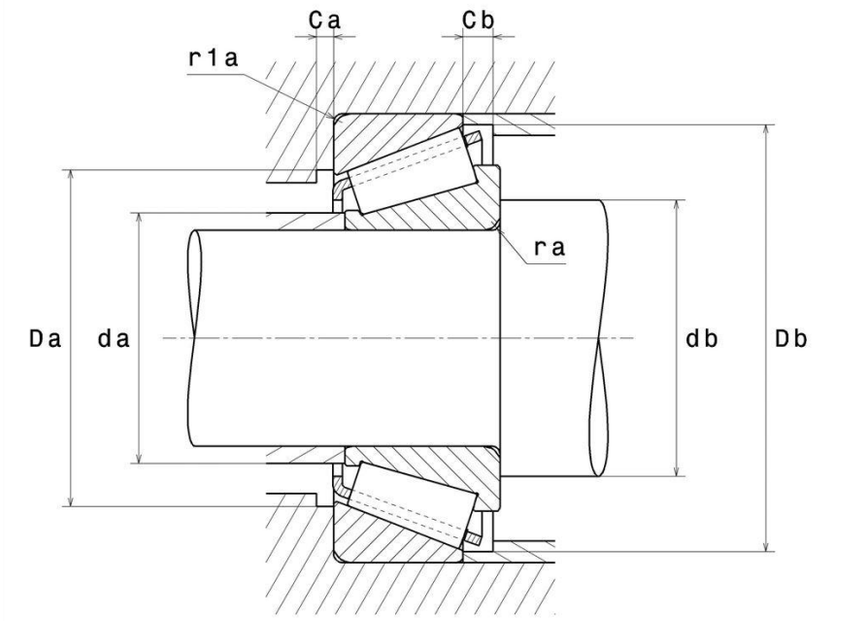
Technical data

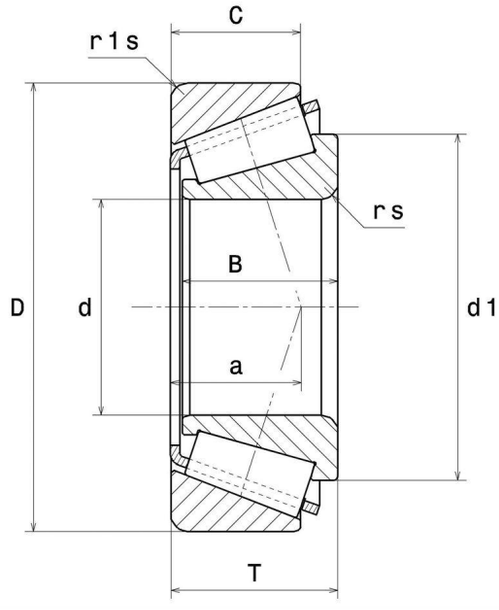
32213A

Single row tapered roller bearings

Tapered roller bearing, pressed steel cage

VISUAL (S)





32213A
Single row tapered roller bearings

PRODUCT DIMENSIONS	
Internal diameter d	65 mm
External diameter D	120 mm
Bearing/Inner ring width(B)	31 mm
Outer ring width (C)	27 mm
Total width (T)	32,75 mm
External diameter inner ring d1	91,1 mm
Charge load application point a	27,4 mm
Min fillet radius rs	2 mm
Min fillet radius r1s	1,5 mm
Coef e	0.4
Upper axial load coef (Y2)	1.48
Static axial load coef (Y0)	0.81
Mass	1,564 kg
ISO 355 reference	T3EC065
Brand	SNR

PRODUCT PERFORMANCE	
Dynamic load, C	169 kN
Rating life coefficient, A2	1.0
Static load, C0	222 kN
Fatigue limit load, Cu	27,1 kN
Reference thermal speed (Nref)	3500 tr/min
Mechanical Limit Speed Nlim	5900 tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.426 Hz
Characteristic rolling element frequency, BSF	6.345 Hz
Characteristic outer ring frequency, BPF0	8.09 Hz
Characteristic inner ring frequency, BPFI	10.91 Hz

ABUTMENT	
Max shoulder diameter IR da max	75 mm
Min IR shoulder diameter (db min)	75 mm

ABUTMENT	
Min shoulder diameter OR Da min	104 mm
Max shoulder diameter OR Da max	111,5 mm
Min OR shoulder diameter Db min	115 mm
Min clearance Ca	4 mm
Min clearance Cb	5,5 mm
Max fillet radius ra max	2 mm
Maxi fillet radius r1a	1,5 mm

INDUSTRY CALCUL 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