Technical data

22205EMKW33C4

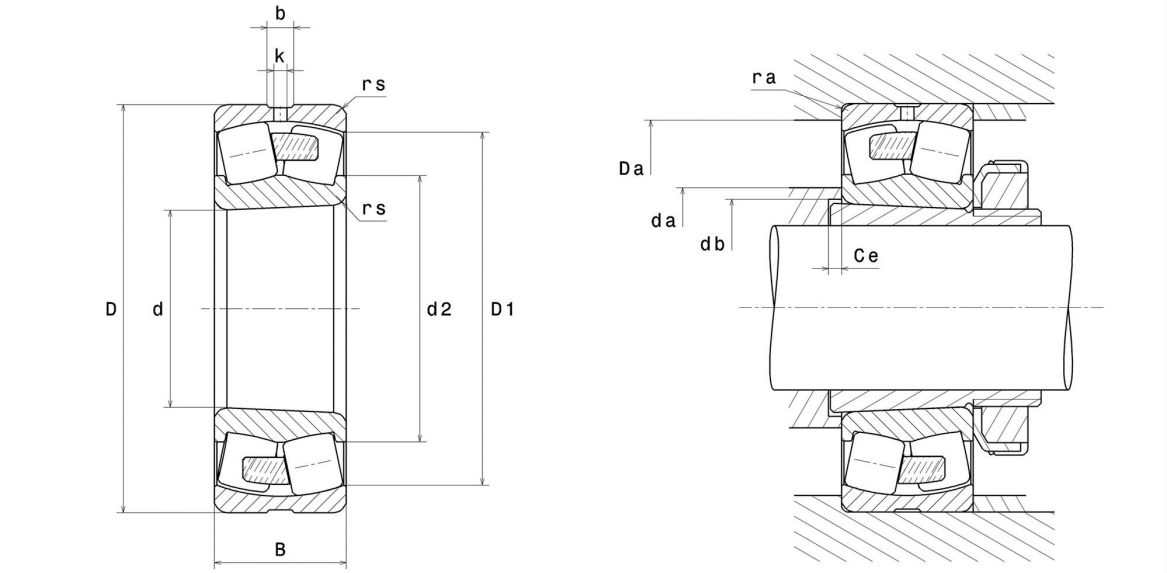
Double row spherical roller bearings



Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12

ULTAGE

Visual(s)



Product definition

d	25 mm
D	52 mm
B	18 mm
D1	45.5 mm
rs min	1 mm
Number of lubrication holes	3
b	3 mm
k	1.5 mm
Associated sleeve reference	H305
e	0.34
Y1	2
Y2	2.98
Y0	1.96
Radial clearance class	C4
Mass	0.16 kg
Brand	SNR

Product performance

Dynamic load, C	54.2 kN
Static load, C0	42.8 kN
Fatigue limit load, Cu	4.35 kN
Nref	14,000 Tr/min
Nlim	17,000 Tr/min
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.85 Hz
Characteristic outer ring frequency, BPF0	5.24 Hz
Characteristic inner ring frequency, BPFI	7.76 Hz

Abutment dimensions

da min	30.6 mm
da max	1 mm
db min	28 mm
Ce min	5 mm
Da max	46.4 mm
ra max	1 mm

Calculation factors

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

$Fa/Fr \leq e$		$Fa/Fr > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$Po = Xo.Fr + Yo.Fa$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .