Technical data

24056.EMW33C3

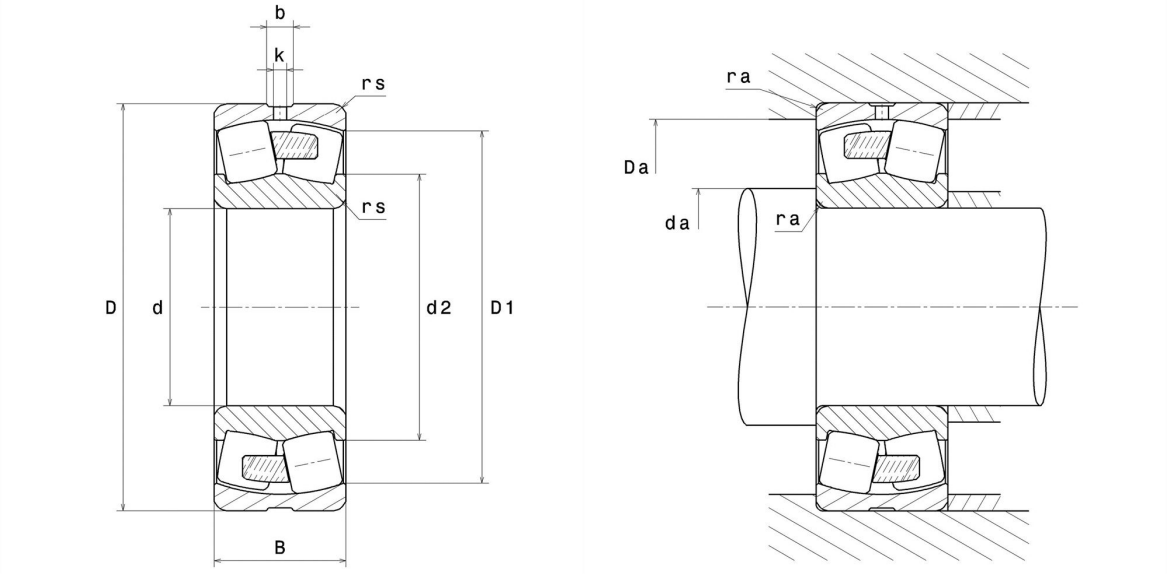
Double row spherical roller bearings



Spherical roller bearing, one-piece machined cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)



Product definition

d	280 mm
D	420 mm
B	140 mm
D1	377.4 mm
rs min	4 mm
Number of lubrication holes	3
b	16.4 mm
k	8 mm
Associated sleeve reference	P0
e	0.3
Y1	2.25
Y2	3.34
Y0	2.2
Radial clearance class	C3
Mass	66 kg
Brand	SNR

Product performance

Dynamic load, C	2,720 kN
Static load, C0	4,120 kN
Fatigue limit load, Cu	223 kN
Nref	900 Tr/min
Nlim	1,500 Tr/min
Min operating temperature, Tmin	40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.44 Hz
Characteristic rolling element frequency, BSF	8.52 Hz
Characteristic outer ring frequency, BPF0	10.64 Hz
Characteristic inner ring frequency, BPFI	13.36 Hz

Abutment dimensions

da min	294.6 mm
da max	3 mm
Da max	405.4 mm
ra max	3 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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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