Technical data

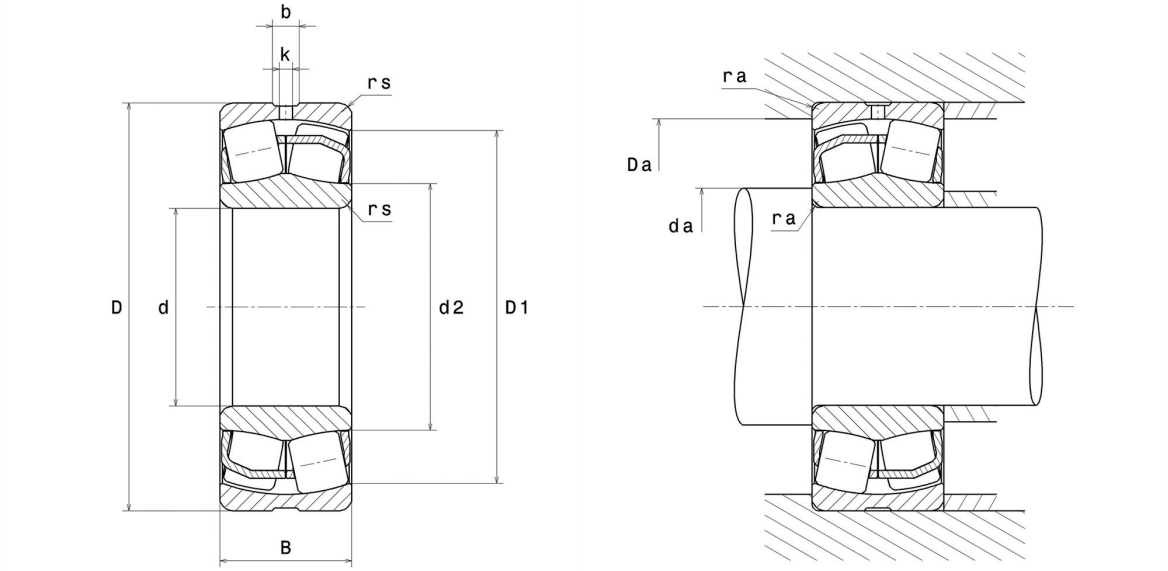
24028.EAW33

Double row spherical roller bearings

Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring

ULTAGE

Visual(s)



Product definition

d	140 mm
D	210 mm
B	69 mm
d2	152.9 mm
D1	188.2 mm
rs min	2 mm
Number of lubrication holes	3
b	8.9 mm
k	4 mm
Associated sleeve reference	P0
e	0.28
Y1	2.39
Y2	3.56
Y0	2.34
Radial clearance class	CN
Mass	8.03 kg
Brand	SNR

Product performance

Dynamic load, C	704 kN
Static load, C0	958 kN
Fatigue limit load, Cu	66.6 kN
Nref	2,100 Tr/min
Nlim	2,900 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	8.74 Hz
Characteristic outer ring frequency, BPF0	10.67 Hz
Characteristic inner ring frequency, BPFI	13.33 Hz

Abutment dimensions

da min	148.8 mm
da max	2 mm
Da max	201.2 mm
ra 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	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 .