Technical data

24030EAK30W33

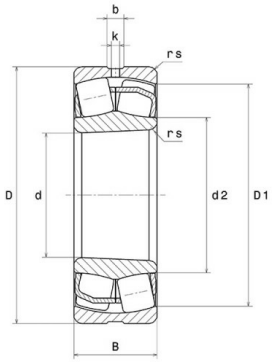
Double row spherical roller bearings

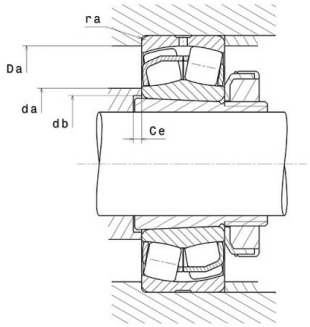


Spherical roller bearing, pressed steel cage, groove and lubrication holes on outer ring, tapered bore 1:30, non ISO width, contact seals on both sides

ULTAGE

Visual(s)





Product definition

d	150 mm
D	225 mm
B	75 mm
d2	162.9 mm
D1	202.8 mm
rs min	2.1 mm
Number of lubrication holes	3
b	8.9 mm
k	4 mm
Associated sleeve reference	P0
e	0.3
Y1	2.25
Y2	3.34
Y0	2.2
Radial clearance class	CN
Mass	9.87 kg
Brand	SNR

Product performance

Dynamic load, C	832 kN
Static load, C0	1,140 kN
Fatigue limit load, Cu	77.1 kN
Nref	1,900 Tr/min
Nlim	2,700 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	8.55 Hz
Characteristic outer ring frequency, BPF0	10.64 Hz
Characteristic inner ring frequency, BPFI	13.36 Hz

Abutment dimensions

da min	160.2 mm
da max	2 mm
Da max	214.8 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 .