Technical data

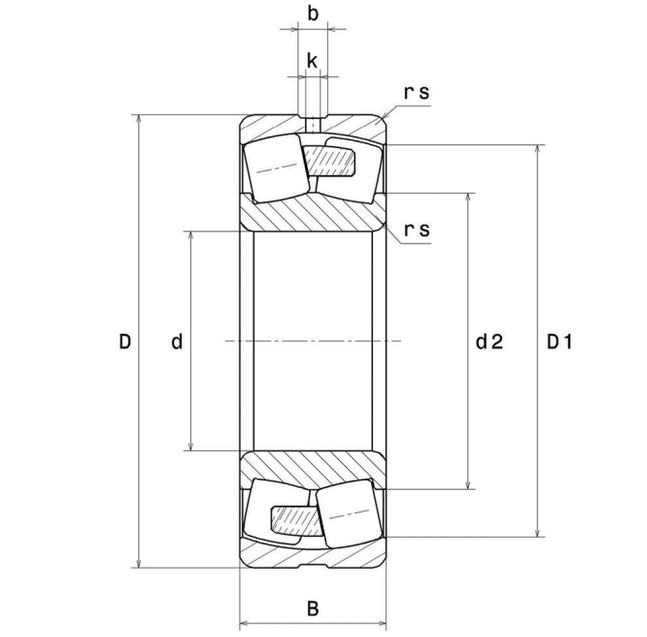
22320EF800

Spherical roller bearings

Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, special C4 class clearance

ULTAGE

VISUAL (S)



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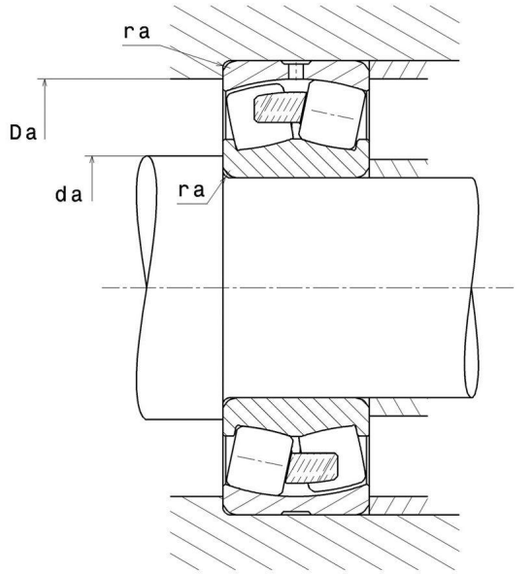

PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	100 mm
D - External diameter	215 mm
B - Bearing/Inner ring width	73 mm
d2 - External diameter inner ring	0 mm
D1 - Inner diameter outer ring	186,7 mm
rs - Min fillet radius	3 mm
Number of lubrication holes	3
b - Groove width	13,26 mm
k - Hole diameter	6 mm
Radial clearance class	C4 Special
Mass	12,776 kg

PRODUCT PERFORMANCE

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PRODUCT PERFORMANCE	
C - Dynamic load	827 kN
C0 - Static load	844 kN
Cu - Fatigue limit load	88,9 kN
e - Coefficient	0.34
Y0 - Static axial load coefficient	1.93
Y1 - Lower axial load coefficient	1.98
Y2 - Upper axial load coefficient	2.94
Nref - Reference thermal speed	2600 tr/min
Nlim - Mechanical Limit Speed	3100 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	200 °C

BEARING FREQUENCIES	
BPFO - Characteristic outer ring frequency (60 rpm)	6.08 Hz
BPFI - Characteristic inner ring frequency (60 rpm)	8.92 Hz
FTF - Characteristic cage frequency (60 rpm)	0.405 Hz
BSF - Characteristic rolling element frequency (60 rpm)	4.964 Hz

ABUTMENT	
da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	114 mm
Da max - Max shoulder diameter OR	201 mm
ra max - Max shaft & housing fillet radius	2,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$P = X.Fr + Y.Fa$

Fa / Fr ≤ 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 .