



Technical data

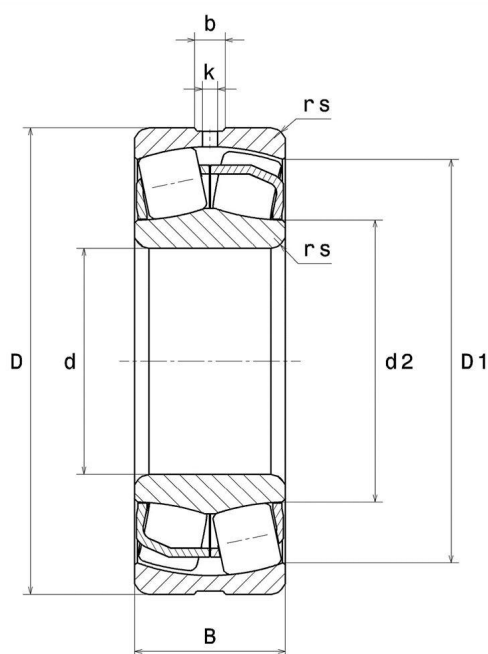
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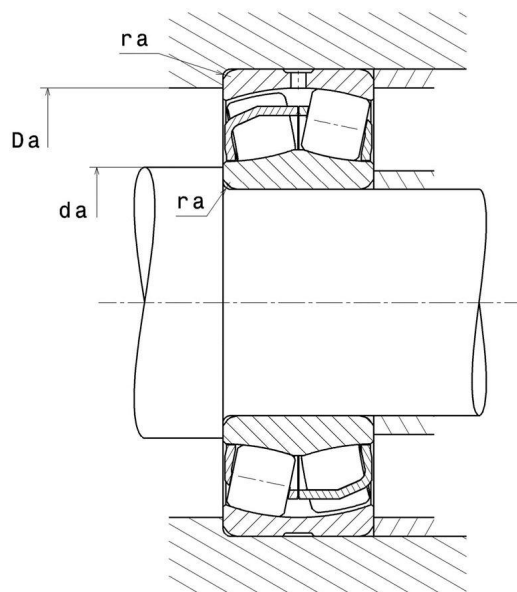
Spherical roller bearings

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

ULTAGE

VISUAL (S)





PRODUCT DEFINITION

Brand	SNR
d - Internal diameter	35 mm
D - External diameter	80 mm
B - Bearing/Inner ring width	21 mm
d2 - External diameter inner ring	50,6 mm
D1 - Inner diameter outer ring	69 mm
rs - Min fillet radius	1,5 mm
Number of lubrication holes	3
b - Groove width	6,2 mm
k - Hole diameter	2,5 mm
Radial clearance class	CN
Mass	0,527 kg

PRODUCT PERFORMANCE

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C - Dynamic load	88,5 kN
C0 - Static load	78,5 kN
Cu - Fatigue limit load	9,6 kN
e - Coefficient	0.24
Y0 - Static axial load coefficient	2.73
Y1 - Lower axial load coefficient	2.79
Y2 - Upper axial load coefficient	4.15
Nref - Reference thermal speed	6900 tr/min
Nlim - Mechanical Limit Speed	10000 tr/min
Tmin - Min operating temperature	-40 °C
Tmax - Max operating temperature	200 °C

BEARING FREQUENCIES

BPFO - Characteristic outer ring frequency (60 rpm)	6.746 Hz
BPFI - Characteristic inner ring frequency (60 rpm)	9.254 Hz
FTF - Characteristic cage frequency (60 rpm)	0.422 Hz
BSF - Characteristic rolling element frequency (60 rpm)	6.145 Hz

ABUTMENT

da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	44 mm
Da max - Max shoulder diameter OR	71 mm
ra max - Max shaft & housing fillet radius	1,5 mm

INDUSTRY CALCUL FACTORS

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

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