Brand of NTN corporation

Technical data

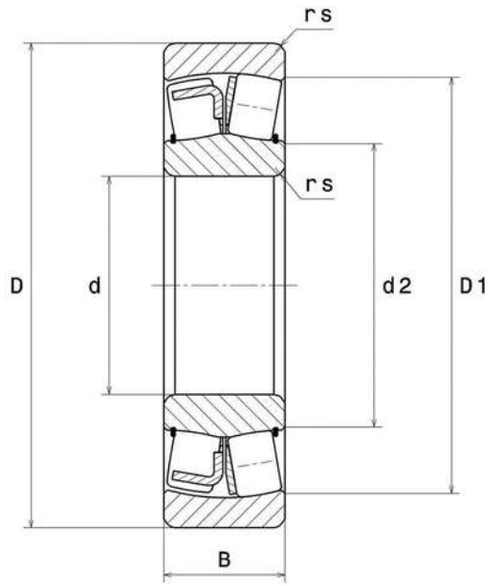
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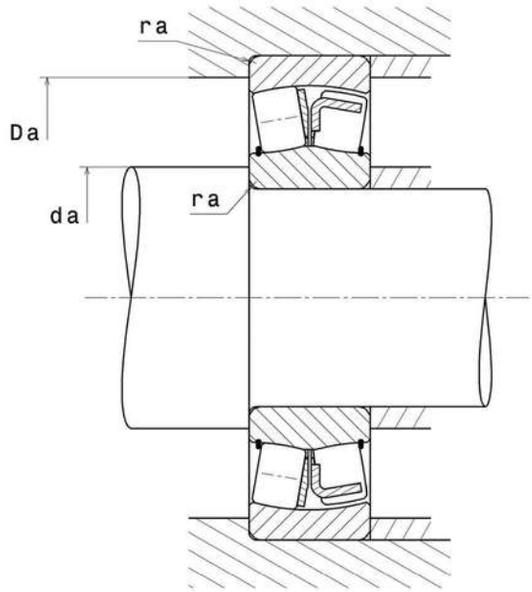
Spherical roller bearings



Spherical roller bearing, pressed steel cage

VISUAL (S)





NTN Europe
1 rue des Usines · BP 2017 · 74010 Annecy Cedex · France · Tel. +33 (0)4 50 65 30 00
S.A. au capital de 322 639 919 € · RCS ANNECY B 325 821 072 · Id. Fiscale : FR 48 325 821 072
SIRET 325 821 072 00015 · Code APE 2815 Z · Code NACE 28.15

PRODUCT DEFINITION	
Brand	SNR
d - Internal diameter	25 mm
D - External diameter	62 mm
B - Bearing/Inner ring width	17 mm
d2 - External diameter inner ring	34,5 mm
D1 - Inner diameter outer ring	51,2 mm
rs - Min fillet radius	1,1 mm
Number of lubrication holes	0
b - Groove width	0 mm
Radial clearance class	CN
Mass	0,257 kg

PRODUCT PERFORMANCE	
C - Dynamic load	51100000 mN
C0 - Static load	40300000 mN
Cu - Fatigue limit load	4900000 mN
e - Coefficient	0.29
Y0 - Static axial load coefficient	2.28
Y1 - Lower axial load coefficient	2.33
Y2 - Upper axial load coefficient	3.47
N ref - Reference thermal speed	52800 °/s
N lim - Mechanical Limit Speed	84000 °/s
Tmin - Min operating temperature	233,15 °K
Tmax - Max operating temperature	473,15 °K

BEARING FREQUENCIES	
BPFO - Over rolling frequency on outer ring (60 rpm)	4.824 Hz
BPFI - Over rolling frequency on inner (60 rpm)	7.176 Hz
BSF - Over rolling frequency on rolling element (60 rpm)	4.819 Hz
BRF - Rotational frequency – rolling element (60 rpm)	2.41 Hz
FTF - Rotational frequency - cage (60 rpm)	0.402 Hz

ABUTMENT	
da max - Max shoulder diameter IR	0 mm
da min - Min shoulder diameter IR	32 mm
Da max - Max shoulder diameter OR	55 mm
ra max - Max shaft & housing fillet radius	1 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 .