PDF technical sheet
23272BL1K

Double row spherical roller bearings

Spherical roller bearing, with central rib on inner ring, 2-part machined cage centred on inner ring, groove and lubrication holes on outer ring, tapered bore 1:12

Product definition	
d	14.1732 "
D	25.5906 "
B	9.1339 "
d2	17.8346 "
D1	21.6929 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
Associated sleeve reference	H3272
e	0.36
Y1	1.87
Y2	2.78
Y0	1.83
Radial clearance class	CN
Brand	NTN

Product performance	
Dynamic load, C	4,850 kN
Static load, C0	8,700 kN
Fatigue limit load, Cu	530 kN
Nref	430 RPM
Nlim	850 RPM
Min operating temperature, Tmin	−40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.94 Hz
Characteristic outer ring frequency, BPF0	8.20 Hz
Characteristic inner ring frequency, BPFI	10.81 Hz

Abutment dimensions	
da min	15.1969 "
db min	15.1575 "
Ce min	0.5512 "
Da max	24.5669 "
ra max	0.1969 "

Calculation 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

$P_0 = X_0.Fr + Y_0.Fa$

X_0	Y_0
1	Y0

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