

PDF technical sheet

23276BL1K

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	14.9606 "
D	26.7717 "
B	9.4488 "
d2	18.7402 "
D1	22.6142 "
rs min	0.2362 "
Number of lubrication holes	8
b	1.2992 "
k	0.7874 "
Associated sleeve reference	H3276
e	0.36
Y1	1.89
Y2	2.82
Y0	1.85
Radial clearance class	CN
Brand	NTN

Product performance	
Dynamic load, C	5,200 kN
Static load, C0	9,650 kN
Fatigue limit load, Cu	581 kN
Nref	400 RPM
Nlim	800 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	7.28 Hz
Characteristic outer ring frequency, BPF0	8.69 Hz
Characteristic inner ring frequency, BPFI	11.31 Hz

Abutment dimensions

da min	15.9843 "
db min	15.9449 "
Ce min	0.5906 "
Da max	25.7480 "
ra max	0.1969 "

Calculation 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 .