



## SNR 7009.HV.U.J74 Precision Ball Bearings

Bearing No. 7009.HV.U.J74

d	45 mm
D	75 mm
B	16 mm
d1	54.7 mm
D1	65 mm
D2	69.52 mm
a	22 mm
Contact angle	25 °
rs min	1 mm
r1s min	0.6 mm
f0	15.61
Precision class	P4
Mass	0.24 kg
Dynamic load, C	24 kN
Static load, C0	19.4 kN
Fatigue limit load, Cu	1.11 kN
Nlim (oil)	27,000 rpm
Nlim (grease)	17,500 rpm
Axial displacement K Factor	0.58
Preload level	7
Preload value	0.21 kN
Axial rigidity	145 N/ μ m
Radial rigidity	308 N/ μ m
Min operating temperature, Tmin	-30 ° C
Max operating temperature, Tmax	120 ° C

7009.HV.U.J74 Bearing 2D drawings and 3D CAD models



## Hmg Industriebedarf GmbH

Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.75 Hz
Characteristic outer ring frequency, BPF0	7.81 Hz
Characteristic inner ring frequency, BRFI	10.19 Hz
da min	50.5 mm
db min	50.5 mm
Da max	69.5 mm
Db max	69.5 mm
r1a max	0.6 mm
ra max	1 mm
D6	57.6 mm