



## BEARINGS(UK)LTD.



ML7001HVUJ74S Bearing 2D drawings and 3D CAD models

12 mm x 28 mm x 8 mm SNR  
ML7001HVUJ74S High precision angular contact  
ball bearings

Bearing No. ML7001HVUJ74S

Size	12x28x8 mm
Bore Diameter	12 mm
Outer Diameter	28 mm
Width	8 mm
d	12 mm
D	28 mm
B	8 mm
C	8 mm
Angle ( ° )	20 °
d1	16.65 mm
d2	15.55 mm
D1	22.95 mm
D2	23.75 mm
a	8 mm
Contact angle	25 °
rs min	0.3 mm
r1s min	0.3 mm
f0	7.7
Precision class	P4S
Mass	0.02 kg
Dynamic load, C	2.17 kN
Static load, C0	0.91 kN
Fatigue limit load, Cu	0.06 kN
Nlim (oil)	98,000 rpm
Nlim (grease)	68,000 rpm



## BEARINGS(UK)LTD.

Axial displacement K Factor	1.23
Preload level	7
Preload value	0.018 kN
Axial rigidity	30 N/ $\mu$ m
Radial rigidity	66 N/ $\mu$ m
Min operating temperature, T <sub>min</sub>	-30 ° C
Max operating temperature, T <sub>max</sub>	120 ° C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.85 Hz
Characteristic outer ring frequency, BPF0	5.52 Hz
Characteristic inner ring frequency, BPF1	7.48 Hz
da min	14.5 mm
db min	14.5 mm
Da max	25.5 mm
Db max	25.5 mm
r1a max	0.3 mm
ra max	0.3 mm
D6	18 mm