



BEARINGS(UK)LTD.

25 mm x 47 mm x 12 mm SNR
ML7005HVUJ84S High precision angular contact
ball bearings

Bearing No. ML7005HVUJ84S

d	25 mm
D	47 mm
B	12 mm
d1	32.2 mm
d2	30.25 mm
D1	42.65 mm
D2	44.25 mm
a	14 mm
Contact angle	25 °
rs min	0.6 mm
r1s min	0.3 mm
f0	7.83
Precision class	P4S
Mass	0.08 kg
Dynamic load, C	7.1 kN
Static load, C0	3.7 kN
Fatigue limit load, Cu	0.23 kN
Nlim (oil)	54,000 rpm
Nlim (grease)	38,000 rpm
Axial displacement K Factor	0.84
Preload level	8
Preload value	0.18 kN
Axial rigidity	97 N/ μ m
Radial rigidity	206 N/ μ m
Min operating temperature,	-30 ° C

ML7005HVUJ84S Bearing 2D drawings and 3D CAD
models



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Tmin	
Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.32 Hz
Characteristic outer ring frequency, BPF0	7.3 Hz
Characteristic inner ring frequency, BPF1	9.7 Hz
da min	29.5 mm
db min	29.5 mm
Da max	42.5 mm
Db max	42.5 mm
r1a max	0.3 mm
ra max	0.6 mm
D6	34.2 mm