



Icuc Corporation Japan

SNR MLE7003HVUJ84S High precision angular contact ball bearings

Bearing No. MLE7003HVUJ84S

d	17 mm
D	35 mm
B	10 mm
d1	22.65 mm
d2	21.4 mm
D1	30.45 mm
D2	31.05 mm
a	11 mm
Contact angle	25 °
rs min	0.3 mm
r1s min	0.3 mm
f0	7.82
Precision class	P4S
Mass	0.04 kg
Dynamic load, C	3.55 kN
Static load, C0	1.68 kN
Fatigue limit load, Cu	0.1 kN
Nlim (grease)	52,000 rpm
Axial displacement K Factor	1.03
Preload level	8
Preload value	0.09 kN
Axial rigidity	63 N/ μ m
Radial rigidity	133 N/ μ m
Min operating temperature, Tmin	-20 ° C
Max operating temperature,	120 ° C

MLE7003HVUJ84S Bearing 2D drawings and 3D CAD models



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Tmax	
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	6.31 Hz
Characteristic outer ring frequency, BPF0	6.44 Hz
Characteristic inner ring frequency, BRFI	8.56 Hz
da min	19.5 mm
db min	19.5 mm
Da max	32.5 mm
Db max	32.5 mm
r1a max	0.3 mm
ra max	0.3 mm
D6	24.2 mm