



SNR ML71903HVUJ84S High precision angular contact ball bearings

Bearing No. ML71903HVUJ84S

d	17 mm
D	30 mm
B	7 mm
d1	21 mm
d2	20.05 mm
D1	26.65 mm
D2	27.25 mm
a	9 mm
Contact angle	25 °
rs min	0.3 mm
r1s min	0.3 mm
f0	8.14
Precision class	P4S
Mass	0.02 kg
Dynamic load, C	2.05 kN
Static load, C0	1.02 kN
Fatigue limit load, Cu	0.08 kN
Nlim (oil)	83,000 rpm
Nlim (grease)	57,000 rpm
Axial displacement K Factor	1.03
Preload level	8
Preload value	0.05 kN
Axial rigidity	52 N/ μ m
Radial rigidity	110 N/ μ m
Min operating temperature, Tmin	-30 ° C

ML71903HVUJ84S Bearing 2D drawings and 3D CAD models



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Max operating temperature, Tmax	120 ° C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	8.29 Hz
Characteristic outer ring frequency, BPF0	8.03 Hz
Characteristic inner ring frequency, BPF1	9.97 Hz
da min	19.5 mm
db min	19.5 mm
Da max	27.5 mm
Db max	27.5 mm
r1a max	0.3 mm
ra max	0.3 mm
D6	22.2 mm