

AST AST50 56IB72 plain bearings

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d	85 mm
D	120 mm
B	18 mm
d1	96.2 mm
D1	108.75 mm
D2	114.24 mm
a	23 mm
Contact angle α	15 °
rs min	0.6 mm
r1s min	0.6 mm
f θ	16.46
Precision class	P4
Mass	0.54 kg
Dynamic load, C	39.6 kN
Static load, C0	42.3 kN
Fatigue limit load, Cu	2.26 kN
Nlim (oil)	17,000 rpm
Nlim (grease)	11,000 rpm
Axial displacement K Factor	0.98
Preload level	7
Preload value	0.2 kN
Axial rigidity	86 N/ μ m

Radial rigidity	509 N/ μ m
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	9.84 Hz
Characteristic outer ring frequency, BPF0	11.28 Hz
Characteristic inner ring frequency, BRFI	13.72 Hz
da min	89.5 mm
db min	89.5 mm
Da max	115.5 mm
Db max	115.5 mm
r1a max	0.6 mm
ra max	0.6 mm
D6	99.5 mm