

# AST AST090 27070 plain bearings

Welcome to the AST AST090 27070 plain bearings online seller.  
50 mm d 72 mm D

d	50 mm
D	72 mm
B	12 mm
d1	56.8 mm
d2	54.7 mm
D1	66.01 mm
D2	67.51 mm
a	15 mm
Contact angle $\alpha$	17 °
rs min	0.6 mm
rls min	0.3 mm
f $\theta$	8.61
Precision class	P4S
Mass	0.13 kg
Dynamic load, C	7.5 kN
Static load, C0	5.6 kN
Fatigue limit load, Cu	0.34 kN
Nlim (grease)	26,000 rpm
Axial displacement K Factor	1.11
Preload level	8
Preload value	0.11 kN
Axial rigidity	64 N/ $\mu$ m
Radial rigidity	303 N/ $\mu$ m

Min operating temperature, T <sub>min</sub>	-20 °C
Max operating temperature, T <sub>max</sub>	120 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	12.46 Hz
Characteristic outer ring frequency, BPF <sub>0</sub>	13.86 Hz
Characteristic inner ring frequency, BPF <sub>I</sub>	16.14 Hz
d <sub>a min</sub>	54.5 mm
d <sub>b min</sub>	54.5 mm
D <sub>a max</sub>	67.5 mm
D <sub>b max</sub>	67.5 mm
r <sub>1a max</sub>	0.3 mm
r <sub>a max</sub>	0.6 mm
D <sub>6</sub>	58.3 mm