

# ISO 7317 BDT angular contact ball bearings

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Size (mm)	25x52x18
Bore Diameter (mm)	25,000
Outer Diameter (mm)	52,000
Width (mm)	18,000
d	25,000 mm
D	52,000 mm
B	18,000 mm
C	18,000 mm
d1	34.7 mm
D1	43.3 mm
rs min	1 mm
Radial clearance class	CN
Precision class	P0
Mass	0.16 kg
Dynamic load, C	19.1 kN
Static load, C0	14.7 kN
Fatigue limit load, Cu	0.82 kN
f0	14.4
Nref	11,000 rpm
Nlim	12,000 rpm

Min operating temperature, $T_{min}$	-20 °C
Max operating temperature, $T_{max}$	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.28 Hz
Characteristic outer ring frequency, BPF0	4.08 Hz
Characteristic inner ring frequency, BRFI	5.92 Hz
$d_a$ min	31 mm
$D_a$ max	46 mm
$r_a$ max	1 mm