

# Ruville 5546 wheel bearings

Ruville 5546 wheel bearings Needs 86 mm B Analysis 180 mm d ,  
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d	180 mm
D	320 mm
B	86 mm
D1	286.8 mm
rs min	4 mm
Number of lubrication holes	3
b	18 mm
k	8 mm
e	0.25
Y1	2.74
Y2	4.08
Y0	2.68
Radial clearance class	C3
Mass	28.94 kg
Dynamic load, C	1,450 kN
Static load, C0	1,660 kN
Fatigue limit load, Cu	144 kN
Nref	1,800 rpm
Nlim	2,600 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	200 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.11 Hz
Characteristic outer ring frequency, BPF0	7.58 Hz

Characteristic inner ring frequency, BPFI	10.42 Hz
da min	197 mm
Da max	303 mm
ra max	3 mm