Evaluated bearings



6207
Deep groove ball bearing

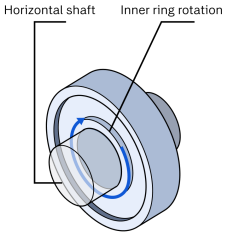
1. Input and settings

1.1 Bearing properties

		6207
Bore diameter, d	[mm]	35
Outer diameter, D	[mm]	72
Width, B	[mm]	17
Basic load ratings		
- Dynamic, C	[kN]	27
- Static, C_0	[kN]	15.3
- Fatigue load limit, P_u	[kN]	0.655
Limiting speed, n_{lim}	[r/min]	13000
Reference speed, n_{ref}	[r/min]	20000

1.2 Operating conditions

		LC1
Speed		
- Rotational speed	[r/min]	100



2. Results

2.1 Frequencies

6207		
Rotational frequency		
- Inner ring, f_i	[Hz]	1.667
- Outer ring, f_e	[Hz]	0
- Rolling element set and cage, f_c	[Hz]	0.66
- Rolling element about its axis, f_r	[Hz]	3.839
Frequency of over-rolling		
- Point on inner ring, f_{ip}	[Hz]	9.058
- Point on outer ring, f_{ep}	[Hz]	5.942
- Rolling element, f_{rp}	[Hz]	7.678

Note : Load case (LC)

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