

Profile of rolling bearing damage (Bearing: KI07)

Category		Unit	Specification/Value	
General info		Bearing Type	- deep groove ball bearing	
		Bearing designation (dimension series, bore code)	- 6203	
		Suffix	- -	
Manufacturer specific information	Geometry	Diameter of inner raceway	mm n/a	
		Diameter of outer raceway	mm n/a	
		Pitch circle diameter	mm 29.05	
		Number of rolling elements	pc. 8	
		Rolling element diameter	mm 6.75	
		Length of rolling element	mm 6.75	
	Parameters	Nominal pressure angle	° 0	
Application specific information		Static load rating	N n/a	
		Dynamic load rating	N n/a	
		Speed limit	min ⁻¹ n/a	
Identification	Manufacturer	- IBU		
	Bearing code	- KI07		
	Sample number	- 6203-I7		
Place of operation	Installation site	- -		
	Installation type (system type)	- -		
	Operator	- Chair of design and Drive Technology, Paderborn		
Operating conditions	Number of load cycles	cycles		
	Lifetime	h:min		
	Load	N		
	Dynamic equivalent load	N		
	Rotational speed	min ⁻¹		
	Load direction	°		
	Comment	-		

artificial damage, bearing was not operated

		Number of damages	1		
Damage	Category		Damage 1	Damage 2	Damage 3
	Type of Damage	Mode	artificial		
		Sub-mode	n/a		
		Symptom	n/a		
	Damage location	Component	IR		
		Position of damage	raceway		
		Damage combination	S		
		Arrangement of the respective damages	without repetitive damage		
	Geometry	Length mm	2.2		
		Extent of damage	2		
		Width mm	1		
		Depth mm	n/a		
		Characteristic of damage	single point		
	Damage occurrence	Damage method	electric engraver		
		Cause of damage (category)	artificial		
		Cause of damage (detailed)	n/a		

Legend

OR: outer ring

IR: inner ring

S: single damage

R: repetitive damage

M: multiple damage