

Profile of rolling bearing damage (Bearing: KA01)

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
		Nominal pressure angle	°	0
	Parameters	Static load rating	N	n/a
		Dynamic load rating	N	n/a
		Speed limit	min ⁻¹	n/a
		Manufacturer	-	MTK
Application specific information	Identification	Bearing code	-	KA01
		Sample number	-	6203-A1
	Place of operation	Installation site	-	-
		Installation type (system type)	-	-
		Operator	-	Chair of design and Drive Technology, Paderborn
	Operating conditions	Number of load cycles	cycles	artificial damage, bearing was not operated
		Lifetime	h:min	
		Load	N	
		Dynamic equivalent load	N	
		Rotational speed	min ⁻¹	
		Load direction	°	
Comment		-		

		Number of damages	1		
Category			Damage 1	Damage 2	Damage 3
Damage	Type of Damage	Mode	artificial		
		Sub-mode	n/a		
		Symptom	n/a		
	Damage location	Component	OR		
		Position of damage	raceway		
		Damage combination	S		
		Arrangement of the respective damages	without repetitive damage		
	Geometry	Length	mm	0.25	
		Extent of damage		1	
		Width	mm	total	
		Depth	mm	1	
		Characteristic of damage		single point	
	Damage occurrence	Damage method	EDM machining		
		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