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1	2	3	4	5		
Drawing No		KE-BASE-2211-00045-B18.2.1-A307-B-1x5				
Dimension as per		ASME B18.2.1 (Table -6)	Chemical & Mechanical properties as per	A 307		
Grade		B	Size	1"x5"		
Title		Hex Bolt	Dated	11.05.2018		
Thread per inch (TPI)		8 UNC	Mass/Weight	0.603 kg/piece		
Amendment						
Revision No.	Details	Dated	Remarks	Authorised by		
<div style="display: flex; justify-content: space-between;"> Hex Bolt ASME B18.2.1 M-1"x5" </div> <div style="margin-top: 10px;"> <p>Note:</p> <p>a. $\beta = 15^\circ$ to 30°</p> <p>b. Incomplete thread $\mu \leq 2P$.</p> <p>c. Reference datum for d_w</p> <p>d. Maximum underhead fillet.</p> </div> <div style="text-align: right; margin-top: 10px;"> <p>'X' Enlarge View</p> </div>						
		Dimension in Inch		Dimension in mm		
Parameters		Symbol	Minimum	Maximum	Minimum	
Head thickness		H	0.591	0.627	15.01	
Width A/F		F	1.469	1.500	37.31	
Width A/C		G	1.675	1.732	42.55	
Shank diameter		E	0.990	1.000	25.15	
Major diameter		D	0.983	0.998	24.97	
Pitch diameter		D1	0.910	0.917	23.11	
Minor diameter		D2	0.845	-	21.45	
Threading length		LT	2.250	2.289	57.15	
Shank length		LB	2.12	-	53.85	
Total Shank length		LG	-	2.750	69.85	
Total length of bolt		L	4.921	5.079	125.00	
d_a		d_a	-	1.190	30.23	
d_w		d_w	1.350	-	34.29	
Radius of fillet		r	0.060	0.095	1.52	
c		c	0.015	0.035	0.38	
Chamfer		b	0.000	0.236	0.00	
Maximum Total Runout of Bearing Surface FIM (Specified proof load)		Ψ	0.026 max.			
		<p>Kapil Enterprises 330 EHTP, HSIIDC, Kundli Industrial Estate Sonapat - Haryana-131028, Ph:9811009061 Email:sales@bigboltnut.com, kapil@roll-fast.com</p>				
		Drawn By Pankaj Kumar (Ass. QC Manager)	Checked By Santosh Kumar (Plant Head-GM)		Approved By Kapil Aggarwal CEO-MD	
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