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|  |         |  |   |   |  |   |
|--|---------|--|---|---|--|---|
| 1  | 2       | 3  | 4                                       | 5   |  |   |
| Drawing No   |         | KE-BASE-2211-00004-B18.2.1-A307-B-5/8x3.1/4  |   |   |  |   |
| Dimension as per   |         | ASME B18.2.1 (Table -6)  | Chemical & Mechanical properties as per | A 307   |  |   |
| Grade  |         | B  | Size                                    | 5/8"x3.1/4"                                       |  |   |
| Title  |         | Hex Bolt   | Dated                                   | 11.05.2018  |  |   |
| Thread per inch (TPI)  |         | 11 UNC   | Mass/Weight                             | 0.151 kg/piece                                    |  |   |
| Proj.  |         |  |   |   |  |   |
| Amendment  |         |  |   |   |  |   |
| Revision No.   | Details | Dated  | Remarks                                 | Authorised by                                     |  |   |
|  |         |  |   |   |  |   |
| <div style="display: flex; justify-content: space-between;"> <span>Hex Bolt ASME B18.2.1</span> <span>M-5/8"x3.1/4"</span> </div> <div style="margin-top: 10px;"> <p><b>Note:</b></p> <p>a. <math>\beta = 15^\circ</math> to <math>30^\circ</math></p> <p>b. Incomplete thread <math>\mu \leq 2P</math>.</p> <p>c. Reference datum for <math>d_w</math></p> <p>d. Maximum underhead fillet.</p> </div> <div style="text-align: right; margin-top: 10px;"> <p>'X' Enlarge View</p> </div> |         |  |   |   |  |   |
|  |         | <b>Dimension in Inch</b>   |   | <b>Dimension in mm</b>                            |  |   |
| <b>Parameters</b>  |         | <b>Symbol</b>  | <b>Minimum</b>                          | <b>Maximum</b>                                    | <b>Minimum</b>                                     |   |
| Head thickness   |         | H  | 0.378                                   | 0.403   | 9.60   |   |
| Width A/F  |         | F  | 0.922                                   | 0.938   | 23.42  |   |
| Width A/C  |         | G  | 1.051                                   | 1.083   | 26.70  |   |
| Shank diameter   |         | E  | 0.617                                   | 0.625   | 15.67  |   |
| Major diameter   |         | D  | 0.611                                   | 0.623   | 15.52  |   |
| Pitch diameter   |         | D1   | 0.559                                   | 0.564   | 14.20  |   |
| Minor diameter   |         | D2   | 0.512                                   | -   | 13.00  |   |
| Threading length   |         | LT   | 1.500                                   | 1.539   | 38.10  |   |
| Shank length   |         | LB   | 1.300                                   | -   | 33.02  |   |
| Total Shank length   |         | LG   | -                                       | 1.750   | 44.45  |   |
| Total length of bolt   |         | L  | 3.191                                   | 3.309   | 81.05  |   |
| $d_a$  |         | $d_a$  | -                                       | 0.715   | 18.16  |   |
| $d_w$  |         | $d_w$  | 0.844                                   | -   | 21.44  |   |
| Radius of fillet   |         | r  | 0.020                                   | 0.045   | 0.51   |   |
| c  |         | c  | 0.015                                   | 0.025   | 0.38   |   |
| Chamfer  |         | b  | 0.000                                   | 0.197   | 0.00   |   |
| Maximum Total Runout of Bearing Surface FIM (Specified proof load)   |         | $\Psi$   | 0.017 max.                              |   |  |   |
|  |         | <b>Kapil Enterprises</b><br>330 EHTP, HSIIDC, Kundli Industrial Estate<br>Sonapat - Haryana-131028, Ph:9811009061<br>Email:sales@bigboltnut.com, kapil@roll-fast.com |   | <br>Drawn By<br>Pankaj Kumar<br>(Ass. QC Manager) | <br>Checked By<br>Santosh Kumar<br>(Plant Head-GM) | <br>Approved By<br>Kapil Aggarwal<br>CEO-MD |
| 1  | 2       | 3  | 4                                       | 5   |  |   |