



- NOTES:
- GEAR PARAMETERS:  
 MODULE 2 NUMBER OF TEETH 16  
 PRESSURE ANGLE  $20^\circ$   
 ADDENDUM FACTOR  $h^* \alpha = 1$   
 MODIFICATION COEFFICIENT OF NORMAL  $x_n = 0$   
 GRADE OF PRECISION 10(GB/T10095)  
 CENTRE DISTANCE  $72\text{mm} \pm 0,044$   
 PAIRED GEAR 8GE.247.002  
 INDIVIDUAL CIRCULAR PITCH ERROR  $\pm f_{pt} \pm 0,028$   
 TOTAL CUMULATIVE PITCH ERROR  $F_p 0,081$   
 TOOTH TOTAL DEVIATION  $F_\alpha 0,029$   
 RADIAL RUN-OUT TOLERANCE  $F_r 0,065$
  - FINAL HEAT TREATMENT HRC28-33
  - REMOVE SHARP EDGES AND BURRS
  - QPQ TREATMENT ACCORDING TO TECHNICAL CONDITION OMR.583.004

\*FUNCTIONAL DIMENSIONS  $\text{F}_0$   $\text{F}_1$   $\text{F}_C$  OR  $\text{A}$ ; CHANGED DIMENSIONS  $\text{A}$

|   |                        |  |                     |                  |   |                               |                              |              |
|---|------------------------|--|---------------------|------------------|---|-------------------------------|------------------------------|--------------|
| COLOR   | SURFACE                | TOOL                                     | QPS<br>N            | FTS<br>N         | VTP<br>N                                  | UNMARKED ROUNDINGS            | UNMARKED DRAFTS              |              |
| RAW MATERIAL<br>40Cr STEEL                                |                        | MATERIAL NORM<br>GB/T 699                | NET WEIGHT<br>0,1 g |                  |   | VOLUME<br>8,8 cm <sup>3</sup> | AREA<br>53,2 cm <sup>2</sup> |              |
| CREATED<br>2020-08-05 Jerry-HengJie Guo                   |                        | MODIFIED<br>2021-02-02 Jerry-HengJie Guo |                     |                  | APPROVED<br>2021-01-26 Wesley-DeYun Zhang |                               |                              |              |
| ECN NUMBER<br>ECN000144318                                | ECN DATE<br>2021-02-01 | PRODUCT<br>OX4000                        |                     |                  | DRAWING FILE<br>8_247_001 A.4             |                               |                              |              |
| ORGANIZATION<br>Electrification-Smart Power Business Line |                        | DEPARTMENT<br>RD Center CN               |                     |                  | TOLERANCES<br>GB/T 1804-m                 |                               |                              |              |
| <b>ABB</b>  | TITLE (ZH)             |  | TYPE                |                  | SCALE<br>1:1                              | FORMAT<br>A4                  | LANGUAGE<br>EN/ZH            | SHEET<br>1/1 |
|   | TITLE (EN)             |  | DOC. NO.            |                  | REV.                                      |                               |                              |              |
|   |                        | <b>DRIVING GEAR</b>                      |                     | <b>8_247_001</b> |   | <b>A</b>                      |                              |              |

Rev Description

A  
B  
C

A  
B  
C  
D  
E  
F