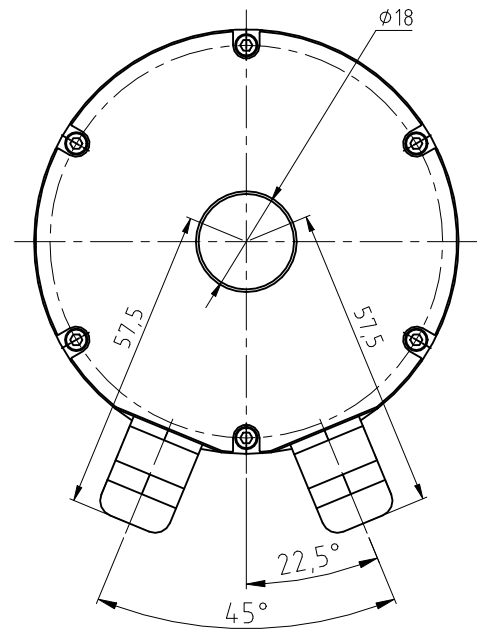
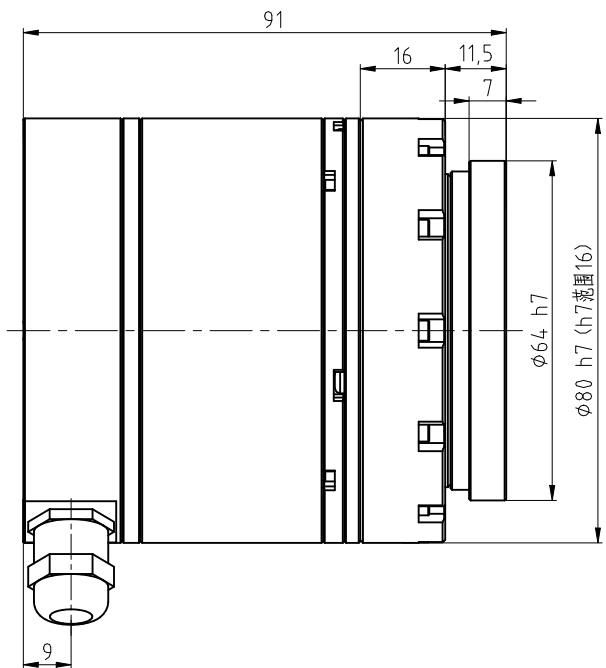
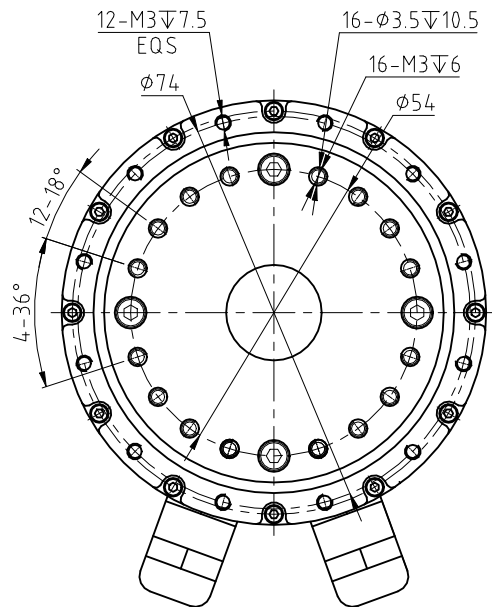
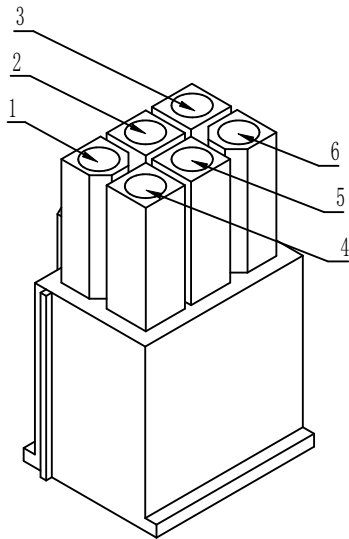


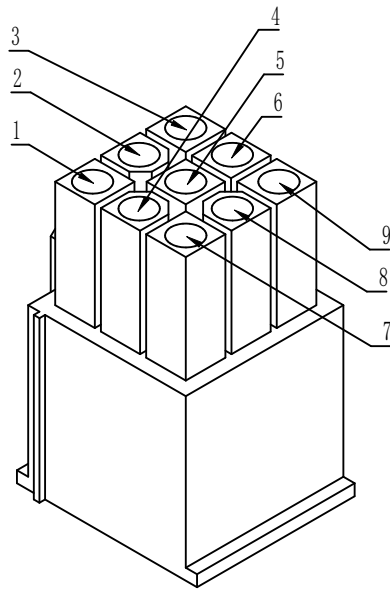


|                                                                                                                                                                             |    |      |     |     |       |              |       |  |                  |                                                                                                                              |        |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|-----|-----|-------|--------------|-------|--|------------------|------------------------------------------------------------------------------------------------------------------------------|--------|-----|
|                                                                                                                                                                             |    |      |     |     |       | Joint Module |       |  | M80-B-XXX-BS-C00 |                                                                                                                              |        |     |
|                                                                                                                                                                             |    |      |     |     |       |              |       |  | 客户图样标记           |                                                                                                                              | 重量(kg) | 比 例 |
|                                                                                                                                                                             |    |      |     |     |       |              |       |  |                  |                                                                                                                              |        |     |
| 标记                                                                                                                                                                          | 处数 | 更改内容 | 签 字 | 日 期 |       |              |       |  |                  | GJ-DW-ME-0080                                                                                                                |        |     |
| 设 计                                                                                                                                                                         |    |      |     |     |       |              |       |  |                  |  <b>Laitual Drive</b><br>浙江来福谐波传动股份有限公司 |        |     |
| 审 核                                                                                                                                                                         |    |      |     |     |       |              |       |  | 1:1              |                                                                                                                              |        |     |
| 准 批                                                                                                                                                                         |    |      |     |     |       |              |       |  |                  |                                                                                                                              |        |     |
| 工 艺 会 签                                                                                                                                                                     |    |      |     |     |       |              |       |  |                  |                                                                                                                              |        |     |
|   |    | 版本号  | A5  |     | 共 2 页 |              | 第 1 页 |  |                  |                                                                                                                              |        |     |

| Motor Parameters |                |
|------------------|----------------|
| Voltage          | AC220V         |
| Rated Power      | 200W           |
| Rated Speed      | 3000rpm        |
| Max Speed        | 6000rpm        |
| Motor Ph. Res.   | 3.06Ohm        |
| Motor Ph.Ind.    | 6.4 mH         |
| Motor Back EMF   | 30.72Vrms/krpm |
| Motor Pole Pairs | 8              |



Power Connector:  
Module-side connector housing: HX41405-6P  
Module-side connector terminals: HX41406-6R / RT Customer-side connector housing: HX41406-6R  
Customer-side connector terminals: HX41406-6P / PT



Encoder Connector:  
Module-side connector housing: HX41405-9P  
Module-side connector terminals: HX41406-9R / RT Customer-side connector housing: HX41406-9R  
Customer-side connector terminals: HX41406-9P / PT

Sign

| Housing 1: Power Connector |             |      |
|----------------------------|-------------|------|
| Pin No.                    | Signal Name | Note |
| 1                          | U           |      |
| 2                          | V           |      |
| 3                          | W           |      |
| 4                          | GND         |      |
| 5                          | Brake+      |      |
| 6                          | Brake-      |      |

| Housing 2: Encoder Connector |             |                |
|------------------------------|-------------|----------------|
| Pin No.                      | Signal Name | Note           |
| 1                            | SL1+        | Communication+ |
| 2                            | GND         | Ground         |
| 3                            | Vcc         | Power          |
| 4                            | MA1+        | Clock+         |
| 5                            | MA1-        | Clock-         |
| 6                            | SL1-        | Communication- |
| 7                            | PG          | Shielding      |
| 8                            | Battery-    |                |
| 9                            | Battery +   |                |

Technical Requirements:  
1.The module power cable and signal cable shall have a lead length of 300 mm each.  
2.Insulation resistance (DC 500V) ≥ 500 MΩ; dielectric withstand voltage: AC 1500V for 1 minute.  
3.Encoder type: Absolute encoder; Encoder protocol: BiSS-C; Encoder resolution: 16-bit multi-turn, 17-bit single-turn.  
4.The appearance shall be free from visible defects such as burrs, scratches, dents, or damage.  
5.Standard version:  
Storage temperature: -20°C to 80°C Operating temperature: -10°C to 55°C  
6.Special version:  
Storage temperature: -40°C to 80°C Operating temperature: -30°C to 55°C  
7.Protection class: IP66.  
8.Positioning accuracy (unidirectional): 60 arcsec; Repeatability: 20 arcsec.

| Joint Module Parameter |                                          |                                            |                                          |                   |                 |                   |                 |                       |                                      |                      |                                                                                                                                                                             |    |      | Joint Module |    |        |        | M80-B-XXX-BS-C00 |                                                                                                                              |  |  |
|------------------------|------------------------------------------|--------------------------------------------|------------------------------------------|-------------------|-----------------|-------------------|-----------------|-----------------------|--------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|--------------|----|--------|--------|------------------|------------------------------------------------------------------------------------------------------------------------------|--|--|
| Ratio                  | Per. Max Value for Ave. Load torque (Nm) | Permissible peak torque at start/stop (Nm) | Instantaneous Permissible max.torque(Nm) | Rated Speed (rpm) | Max Speed (rpm) | Rated Current (A) | Max Current (A) | Tq Constant (Nm/Arms) | Inertia Moment (kg•mm <sup>2</sup> ) | Weight (kg)          |                                                                                                                                                                             |    |      |              |    |        |        | GJ-DW-ME-0080    |                                                                                                                              |  |  |
|                        |                                          |                                            |                                          |                   |                 |                   |                 |                       |                                      |                      | 标记                                                                                                                                                                          | 处数 | 更改内容 |              |    |        |        | 签 字              | 日 期                                                                                                                          |  |  |
| 51                     | 34                                       | 44                                         | 91                                       | 58.8              | 117.6           | 2.23              | 2.89            | 15.23                 | 60                                   | 1.53<br>(With brake) | 设 计                                                                                                                                                                         |    |      |              |    | 客户图样标记 | 重量(kg) | 比 例              |  <i>Laitual Drive</i><br>浙江来福谐波传动股份有限公司 |  |  |
| 81                     | 35                                       | 56                                         | 113                                      | 37                | 74.1            | 1.45              | 2.31            | 24.19                 |                                      | 审 核                  |                                                                                                                                                                             |    |      |              |    |        |        |                  |                                                                                                                              |  |  |
| 101                    | 51                                       | 70                                         | 143                                      | 29.7              | 59.4            | 1.69              | 2.32            | 30.17                 |                                      | 批 准                  |                                                                                                                                                                             |    |      |              |    |        |        |                  |                                                                                                                              |  |  |
| 121                    | 51                                       | 70                                         | 112                                      | 24.8              | 49.6            | 1.41              | 1.94            | 36.14                 |                                      | 工 艺 会 签              |                                                                                                                                                                             |    |      |              |    |        |        |                  |                                                                                                                              |  |  |
|                        |                                          |                                            |                                          |                   |                 |                   |                 |                       |                                      |                      |   |    | 版本号  |              | A5 |        | 共 2 页  |                  | 第 2 页                                                                                                                        |  |  |