

# Product selection manual



# HED-200 electric mechanism

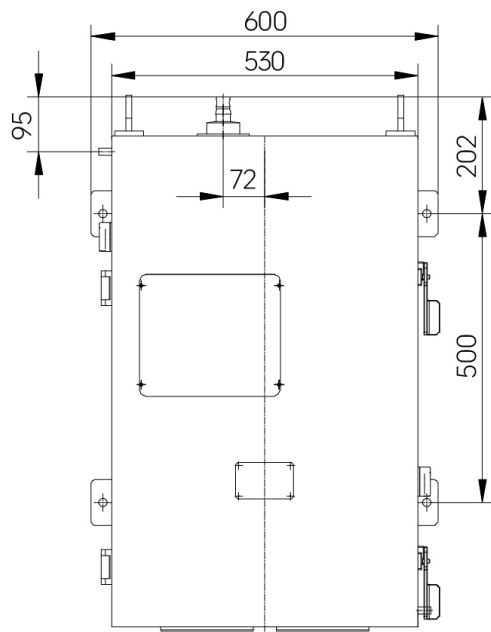
## 1. Product cartridge

The HED-200 on-load tap-changer electric operating mechanism is a new generation of intelligent full-function operating mechanism, which can be applied to various types of on-load tap-changer for electric shift or manual shift in case of power failure, and can be remotely monitored and controlled through wired communication such as RS485 or optical fiber or GPRS wireless communication.

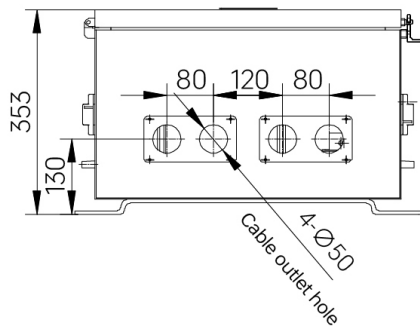
## 2. HED-200 technical parameters

| item | Classification feature                            |                      | Technical parameter     |
|------|---------------------------------------------------|----------------------|-------------------------|
| 1    | Motor parameter                                   | Rated power          | 0.75kW                  |
|      |                                                   | Rated voltage        | 380V (three-phase)      |
|      |                                                   | Rated current        | 2A                      |
|      |                                                   | Rated frequency      | 50~60Hz                 |
|      |                                                   | Rated speed          | 1400r/min               |
| 2    | Output shaft driving torque                       |                      | 18N.m                   |
| 3    | Tap-change output shaft speed at each stage       |                      | 33 charts               |
| 4    | Tap change handle speed per stage                 |                      | 33 laps                 |
| 5    | Tap change operation time per stage               |                      | Approx. 5.5s            |
| 6    | Working power supply three-phase four-wire        |                      | AC380V/10A              |
| 7    | Control loop power                                |                      | ≤100W                   |
| 8    | Auxiliary heating circuit                         |                      | AC220V/10A              |
| 9    | Heater power                                      |                      | 200W                    |
| 10   | Power frequency withstand voltage of control loop |                      | 2.0kV/1min              |
| 11   | Operating mechanism box protection level          |                      | IP65                    |
| 12   | Mechanical life                                   |                      | More than 500,000 times |
| 13   | weight                                            |                      | 95Kg                    |
| 14   | Equipped with intelligent controller              | Model number         | HKC-3D                  |
|      |                                                   | Working power supply | AC110~240V              |

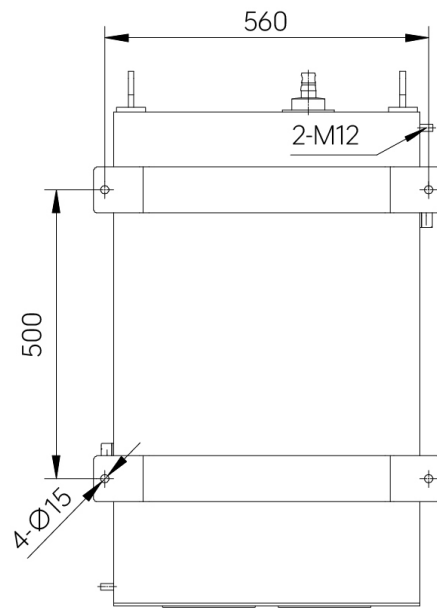
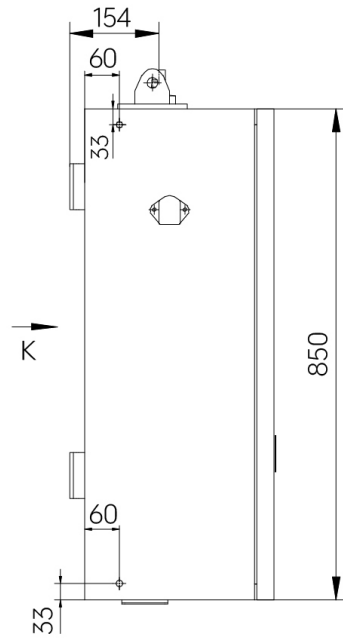
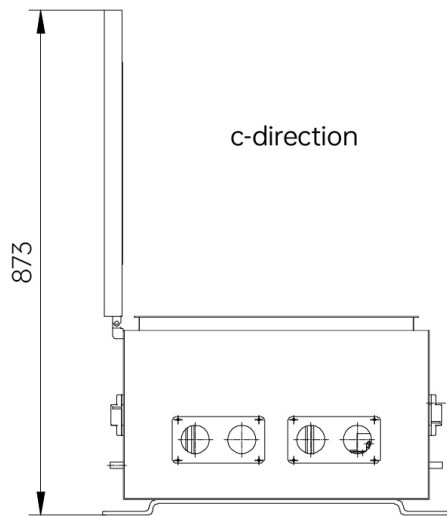
### 3. HED-200 outline size drawing



C



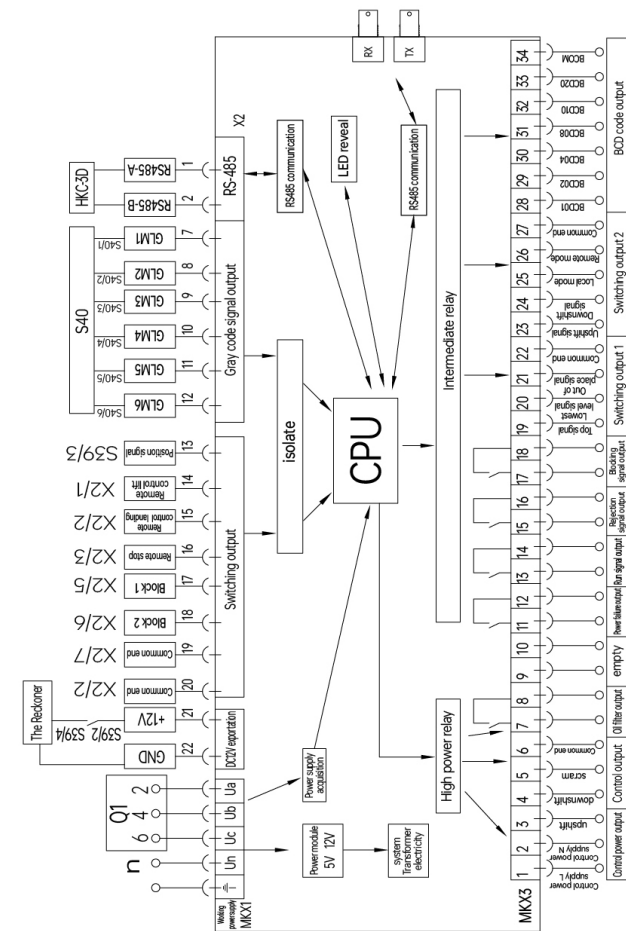
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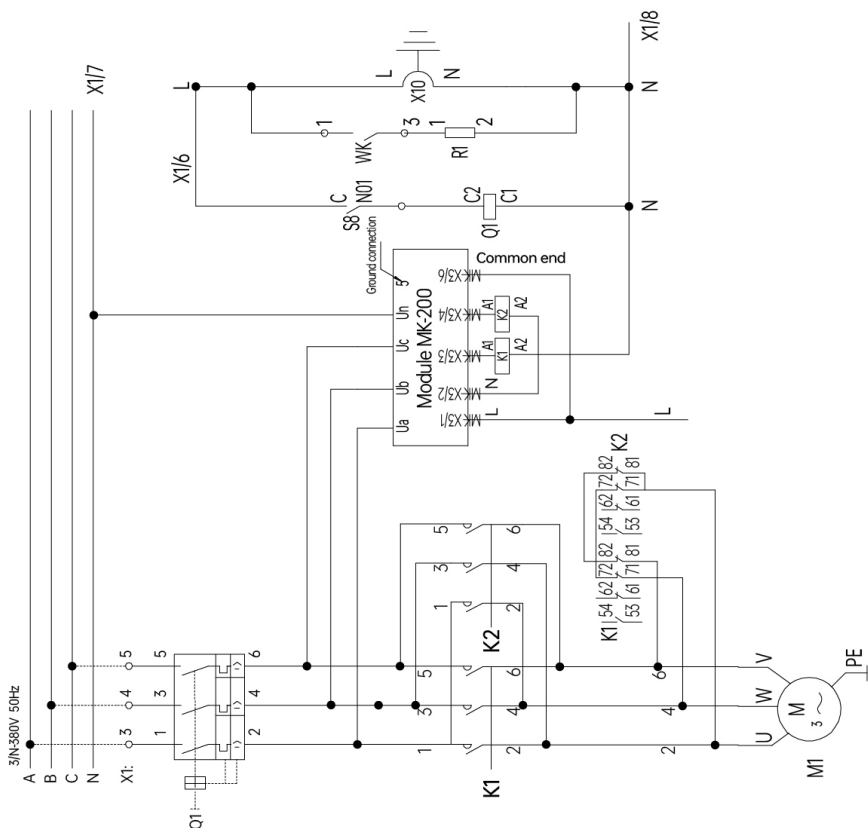
K direction

# HED-200 electric mechanism schematic diagram

## 4. HED-200 electrical schematic diagram



| Serial number | Code number | Given name                      | quantity | Type or parameter |
|---------------|-------------|---------------------------------|----------|-------------------|
| 1             | Q1          | Air circuit breaker             | 1        | NXB-63(10A)       |
| 2             | K1, K2      | contactor                       | 2        | CJX2-1210         |
| 3             | M           | Electric machine                | 1        | YS7144(0.75KW)    |
| 4             | X1-X2       | Terminal strip                  | 4        | NK6N              |
| 5             | MK-200      | Control module                  | 1        | /                 |
| 6             | S8          | Manual protection stroke switch | 1        | DZ-10GW22-1B      |
| 7             | WK          | Temperature controller          | 1        | NTK1-211G         |
| 8             | R1          | Heating resistance              | 1        | 100W              |
| 9             | X10         | Electrical outlet               | 1        | DZ47X(10A)        |



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**Shanghai Huaqi power Equipment  
Manufacturing Co., LTD**

Address: No. 377, Baoyuan 2 Road, Jiangqiao Town,  
Jiading District, Shanghai  
Tel: 021-56011920      Mobile: 13818882381  
Email: [huaqill@aliyun.com](mailto:huaqill@aliyun.com)

**Huaqi Power Equipment Manufacturing  
(Nantong) Co., LTD**

Add: No. 2057, Development Avenue, Baocang Town,  
Haimen District, Nantong City, Jiangsu Province  
Mobile: 13776859681

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