## ⚠ 1. Safety precautions

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The products in this manual are industrial products and are all open-type housing designs. It is essential to install these products within a control cabinet that is safeguarded against dust, moisture, and accidents such as electric shocks or physical impacts. Additionally, protective measures must be taken to prevent malfunctions or damage caused by improper operation or accidents involving non-maintenance personnel. Failure to do so may lead to serious risks to personnel safety and potential loss of prope r y.

E630

Please refer to the E630 series variable frequency drive (VFD) manual for more detailed information.

## 2. Model identification

HDv E630 - 4T 037 B S - ***

1 2 3 4 5 6 7

| | Product name |
|---|---|
| HDv | Hechuan VFD |

| | Product series | |
|---|---|---|
| E630 | E630 | E630 series |

| | ~ t serie l |
|---|---|
| 4T | Three-phase 380V~480V |

| | * Power class* |
|---|---|
| 0.7 | 750W |
| 1.5 | 1.5kW |
| 2.2 | 2.2kW |
| 3.7 | 3.7kW |
| 5.5 | 5.5kW |
| @7.5 | Single phase 220V~240V |
| 011 | 11kW |
| 015 | 15kW |
| 018 | 18kW |
| 022 | 22kW |
| 037 | 37kW |
| .... | .... |
| 400 | 400kW |

| | Braking component |
|---|---|
| (N/A) | Without brake unit |
| B | With brake unit |

| | STO STO Function |
|---|---|
| (N/A) | STO Without STO function |
| S | STO With STO function |

| | / Customized software/firmware code |
|---|---|
| X | 0~9/A~Z/ (N/A) |

* >160kW

Note: The planning for power greater than 160 kW is in progress.

## 3. General electrical and environmental specifications

3.1 General electrical speci f cations

| Model | (Power capacity) | Input current | (Output current) | Compatible motor | VFD cooling air f ow |
|---|---|---|---|---|---|
| | kVA | A | A | kW | cfm |
| Single-Phase power supply 200V AC ~ 240V AC -15% ~ +10% ; 50/60Hz±5% 47Hz~ 63Hz | | | | | |
| HDV-E630-2S0.4* | 1.4 | 5.4 | 2.3 | 0.4 | 10 |
| HDV-E630-2S0.7* | 2.2 | 8.2 | 4 | 0.75 | |
| HDV-E630-2S1.5* | 3.7 | 14 | 7 | 1.5 | |
| HDV-E630-2S2.2* | 6 | 23 | 9.6 | 2.2 | 26 |
| HDV-E630-2S4.0* | 8.9 | 14.6 | 13 | 4 | |
| Three-Phase power supply 380V AC ~ 480V AC -15% ~ +10% ; 50/60Hz±5% 47Hz~ 63Hz | | | | | |
| HDv-E630-4T0.7* | 1.5 | 3.4 | 2.1 | 0.75 | 10 |
| HDv-E630-4T1.5* | 3 | 5 | 3.8 | 1.5 | |
| HDv-E630-4T2.2* | 4 | 5.8 | 5.1 | 2.2 | |
| HDv-E630-4T3.7* | 5.9 | 10.5 | 9 | 3.7 | 26 |
| HDv-E630-4T5.5* | 8.9 | 14.6 | 13 | 5.5 | |
| HDv-E630-4T7.5* | 11 | 20.5 | 17 | 7.5 | |
| HDv-E630-4T11 | 17 | 26 | 25 | 11 | 52 |
| HDv-E630-4T15 | 21 | 35 | 32 | 15 | |
| HDv-E630-4T18 | 24 | 38.5 | 37 | 18.5 | 130 |
| HDv-E630-4T22 | 30 | 46.5 | 45 | 22 | |
| HDv-E630-4T30 | 40 | 62 | 60 | 30 | |
| HDv-E630-4T37 | 57 | 76 | 75 | 37 | 157 |
| HDv-E630-4T45 | 69 | 92 | 91 | 45 | |
| HDv-E630-4T55 | 85 | 113 | 112 | 55 | 200 |
| HDv-E630-4T75 | 114 | 157 | 150 | 75 | |
| HDv-E630-4T90 | 134 | 180 | 176 | 90 | 360 |
| HDv-E630-4T110 | 160 | 214 | 210 | 110 | |
| HDv-E630-4T132 | 192 | 256 | 253 | 132 | 630 |
| HDv-E630-4T160 | 231 | 307 | 304 | 160 | |

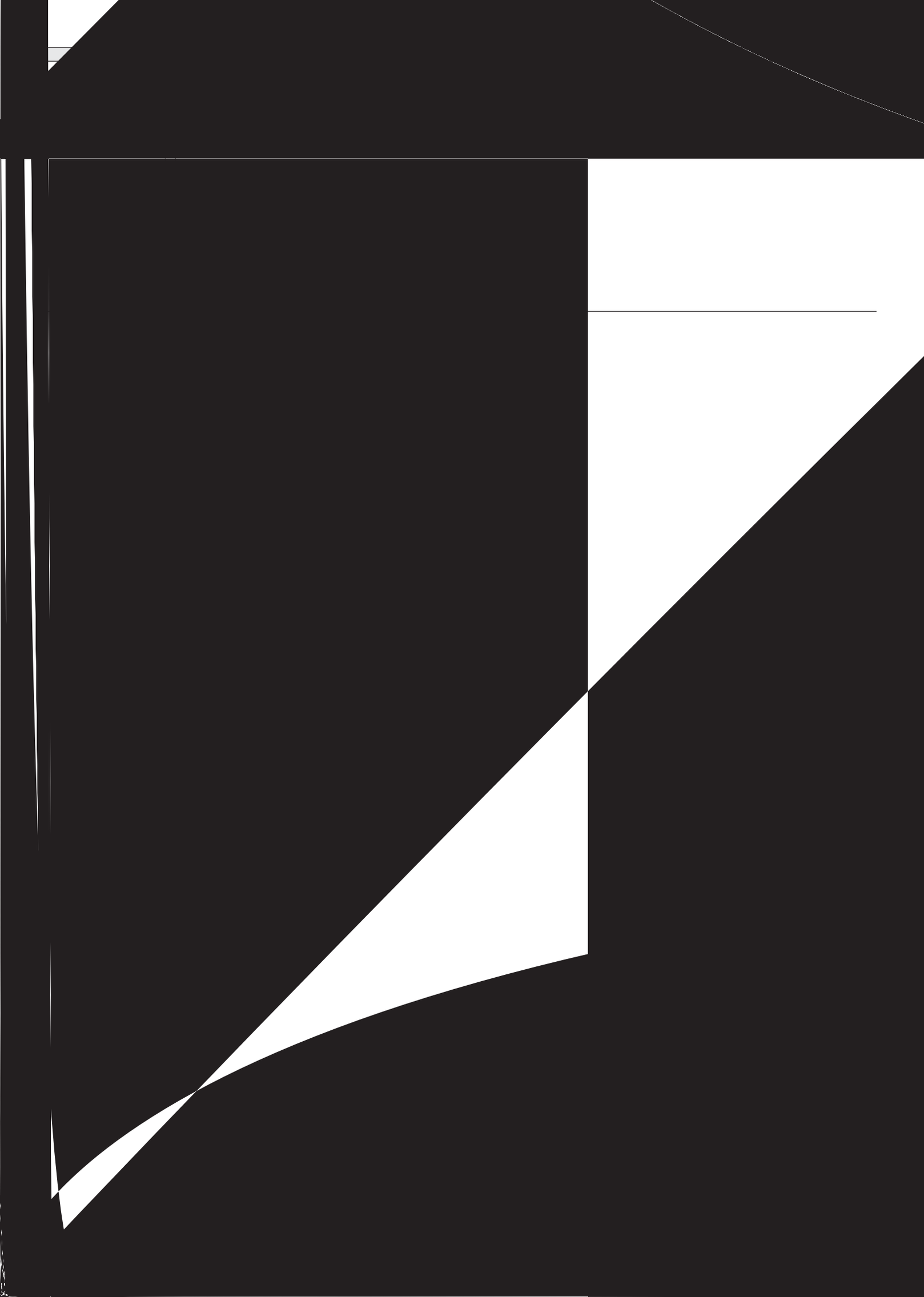
*

*Note: The product is under research and development.

3.2 Environmental requirements

| | Item | | Specif cations |
|---|---|---|---|
| | Altitude | ≤1000m 1000~3000m 2%/100m | Altitude ≤ 1000m (For altitudes ranging from 1000 to 3000 meters, a 2% derating is required for every 100 meters.) |
| | Operating environment | | Installation within a control cabinet, open-type and indoor use |

| 4.6 | 4 | Main circuit inte r ace, cable connecting and disconnecting 4 | | |
|---|---|---|---|---|
| | | | | |
| CN | | | | |



| (Screen printing) | (Indicator meaning) | (Color) | | Status | Description |
|---|---|---|---|---|---|
| RUN | (Power supply indicator) | (Red) | | Not lit | Bus in powered-of f state |
| | | | | Lit | Bus in powered-up state |

| Main circuit interface description | | |
|---|---|---|
| 11~30kW | 37~45kW | 55~110kW |
| | | |

**IO IO wiring**

| Type | Digital input wiring | | High-speed input wiring | |
|---|---|---|---|---|
| | (Internal power supply wiring) | (External power supply wiring) | (Internal power supply wiring) | (External power supply wiring) |
| (NPN Input) | 短路片或导线 | | | |
| | | | | |
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