Stock code: 301388

PRODUCT CATALOGUE

PROFESSIONAL MANUFACTURER OF INDUSTRIAL CONTROL COMPONENTS

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C-Lin 欣灵电气

Stock code: 301388

G-Lin 欣灵电气

ELECTRIC

DRIVE AND CONTROL SERIES

PLC, remote I/O module, gateway series

The CZA/CZD series programmable logic controller has powerful functions such as logic operation, data operation and high-speed processing. In order to better meet the control needs on site, the CZA/CZD series PLC can be externally expanded with 10 modules per basic unit, making it widely used in process control systems such as temperature, flow rate, liquid level and pressure.

The CDAM series remote I/O module is an industrial grade remote acquisition and control module. The module can be controlled by remote command. It uses industrial grade component, 24VDC voltage input, and can work normally within the range of -20°C ~50°C . It supports CAN and RS485 communication modes and has the characteristics of fast response, high reliability and convenient use.

The CBOX series gateway module is an industrial grade wireless communication module designed to connect to the C-Lin Cloud platform. With LTE 4G wireless network as the carrier network, it provides wireless data transmission channels over TCP/MQTT for industrial users to achieve remote monitoring.

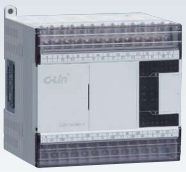
CZA1 Series
Programmable logic controller

Supply voltage	DC24V
Computing speed	0.05μs
Output method	Relay output, transistor output
Extension module	External extension unsupported
High speed interface	2-circuit high-speed pulse output
Interface	1-circuit RS232 and 1-circuit RS485
Comm. protocol	Standard Modbus Rtu protocol, Free-port communication, C-Lin communication protocol
Optional function	Analog function
Dimension	14 points: 96×107×44mm 22 points: 126×120×44mm
Installation method	Screw mounting type, DIN rail type
Ambient temp.	-20°C～ +50°C

CAM1 series (motion bus type)
Programmable logic controller

Supply voltage	AC220V
Computing speed	0.04μs
Output method	Relay output, transistor output
Extension module	10 modules extensible
High speed interface	2-circuit high-speed counting input, 2-circuit or 4-circuit high-speed pulse output
Interface	USB Type-C, RS232 port, RS485 port, Ethernet port
Comm. protocol	Standard Modbus Rtu protocol, Free-port communication, C-Lin communication protocol
Optional function	CAN bus, EtherCAT bus, G-code, electronic cam
Dimension	16 points: 71×100×88mm 24 points and 32 points: 109×100×88mm 48 points and 60 points: 177×100×88mm
Installation method	Screw mounting type, DIN rail type
Ambient temp.	-20°C～ +50°C

CZD1 Series (standard type)
Programmable logic controller

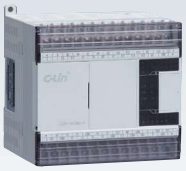


Supply voltage	AC220V
Computing speed	0.04μs
Output method	Relay output, transistor output
Extension module	10 modules extensible
High speed interface	2-circuit high-speed counting input
Interface	USB Type-C, RS232, RS485 interface
Comm. protocol	Standard Modbus Rtu protocol, Free-port communication, C-Lin communication protocol
Optional function	Analog function
Dimension	16 points: 71×100×88mm 24 points and 32 points: 109×100×88mm 48 points and 60 points: 177×100×88mm
Installation method	Screw mounting type, DIN rail type
Ambient temp.	-20°C～ +50°C

CDAM4100 Series
Remote I/O module

Supply voltage	DC24V
Input method	Switching quantity (optional), analog quantity (optional)
Output method	Relay (optional), transistor (optional)
Comm. interface	Optoelectronic isolation, RS485
Comm. protocol	Modbus-RTU, it supports 8-bit data bit, 1-bit stop bit, no/odd/even parity configurable
Baud rate	1200bps~115200bps
Power consumption	＜2000mW
Dimension	103×72×34.5mm
Installation method	DIN rail type
Ambient temp.	-20°C～ +50°C

CZD3 Series (enhanced)
Programmable logic controller



Supply voltage	AC220V
Computing speed	0.04μs
Output method	Relay output, transistor output
Extension module	10 modules extensible
High speed interface	2-circuit high-speed counting input, 2-circuit or 4-circuit high-speed pulse output
Interface	USB Type-C, RS232, RS485 interface
Comm. protocol	Standard Modbus Rtu protocol, Free-port communication, C-Lin communication protocol
Optional function	Analog function
Dimension	16 points: 71×100×88mm 24 points and 32 points: 109×100×88mm 48 points and 60 points: 177×100×88mm
Installation method	Screw mounting type, DIN rail type
Ambient temp.	-20°C～ +50°C

CBOX Series
Gateway module

Supply voltage	DC24V
Supporting frequency bands	LTE-TDD: Max. downlink speed 7.5Mbps, max. uplink speed 1Mbpd LTE-FDD: Max. downlink speed 10Mbps, max. uplink speed 5Mbpd
LTIE feature	LTE-TDD: B34/B38/B39/B40/B41 LTE-FDD: B1/B3/B5/B8
Transmission power	Class3(23dBm±2dB) for LTE TDD bands Class3(23dBm±2dB) for LTE FDD bands
Network protocol	TCP/UDP/MQTT protocol supported
RF interface	SMA-K (external thread internal hole)
Baud rate	Max. 460800 supported, default 115200bps
Data interface	RS232/RS485
Dimension	CBOX1：30×110×66mm CBOX2：75.3×90.7×21mm
Ambient temp.	-30°C～ +75°C

Inverter series

C-Lin inverter integrates the latest domestic technologies, adopts modular design, uses high-quality components, and ensures more stable and reliable application through new production processes and high-precision detection equipment. It has energy-saving speed regulation operation, multiple motor protection and control functions, and built-in PLC and PID functions. This product is widely used in plastic, textile, printing, packaging, food and other machinery, as well as petrochemical, metallurgical, mining, heating, water supply and other fields, and has received unanimous praise from users.

For more details on model, specification and technical parameter, please visit our company website or contact our company.

XLP6500-2.2 type
(input single-phase 220V)
Vector type inverter

Input voltage	1PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	0.4kW 0.75kW 1.5kW 2.2kW
Rated current	2.3A 4A 7A 9.6A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	185×118×157mm
Installation size	175×107mm(4-M4)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-7.5 type
(Input three-phase 220V)
Vector type inverter

Input voltage	3PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	7.5kW
Rated current	32A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	335×217×194mm
Installation size	324×140mm(4-M5)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-2.2 type
(Input three-phase 220V)
Vector type inverter

Input voltage	3PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	0.4kW 0.75kW 1.5kW 2.2kW
Rated current	2.3A 3.8A 7.2A 9A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	185×118×157mm
Installation size	175×107mm(4-M4)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-11 type
(Input three-phase 220V)
Vector type inverter

Input voltage	3PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	11kW
Rated current	45A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	361×228×204mm
Installation size	349×139mm(4-M5)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-5.5 type
(Input three-phase 220V)
Vector type inverter

Input voltage	3PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	3.7kW 5.5kW
Rated current	13A 25A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection level	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection function	IP20
Dimension	247×160×178mm
Installation size	235×148mm(4-M4)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-15 type
(Input three-phase 220V)
Vector type inverter

Input voltage	3PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	15kW
Rated current	60A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	463×285×224mm
Installation size	447×235mm(4-M6)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-3.7 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	0.75Kw，1.5Kw，2.2Kw，3.7Kw
Rated current	2.1A，3.8A，5.1A，9A，
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	185×118×157mm
Installation size	175×107mm(4-M4)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-37 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	30kW 37kW
Rated current	60A 75A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	463×285×224mm
Installation size	447×2335mm(4-M6)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-11 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	5.5kW 7.5kW 11kW
Rated current	13A 17A 25A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	247×160×178mm
Installation size	235×148mm(4-M5)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-75 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	45kW 55kW 75kW
Rated current	91A 112A 150A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	613×305×294mm
Installation size	592×200mm(4-M10)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-18.5 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	15kW 18.5kW
Rated current	32A 37A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	335×217×194mm
Installation size	324×140mm(4-M6)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-132 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	90kW 110kW 132kW
Rated current	176A 210A 253A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	753×400×293mm
Installation size	732×280mm(4-M10)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-22 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	22kW
Rated current	45A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	361×228×204mm
Installation size	349×139mm(4-M6)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-220 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	160kW 185kW 200kW 220kW
Rated current	304A 350A 377A 426A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overcurrent, overvoltage, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	865×520×343mm
Installation size	837×380mm(4-M12)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-400 type
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	250Kw，280Kw，315Kw，355Kw，400Kw
Rated current	465A，520A，580A，650A，725A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	1172×800×412mm
Installation size	1143×600mm(4-M14)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-G2.2 type
Single-phase universal inverter

Input voltage	1PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	0.75kW 1.5kW 2.2kW
Rated current	4A 7A 9.6A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	170.2×84.6×138.1mm
Installation size	67.3×157.5 and 35mm DIN installation
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-220 type
(vertical cabinet type)
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	160Kw，185Kw，200Kw，220Kw
Rated current	304A，350A，377A，426A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	1219×520×343mm
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-G2.2 type
Three-phase universal inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	0.75kW 1.5kW 2.2kW
Rated current	2.1A 3.8A 5.1A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	170.2×84.6×138.1mm
Installation size	67.3×157.5 and 35mm DIN installation
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-400 type
(vertical cabinet type)
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	250Kw，280Kw，315Kw，355Kw，400Kw
Rated current	465A，520A，580A，650A，725A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	1495×800×412mm
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-G5.5 type
Three-phase universal inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	3.7kW 5.5kW
Rated current	9A 13A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	194×97×153.3mm
Installation size	85×184 and 35mm DIN rail installation
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP6500-710 type
(vertical cabinet type)
Vector type inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	450Kw，500Kw，560Kw，630Kw，710Kw
Rated current	820A，900A，1020A，1120A，1300A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	1800×1080×500mm
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-G11 type
Three-phase universal inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	7.5Kw，11Kw，
Rated current	17A，25A，
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	245×142×168mm
Installation size	107×235mm
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-G22 type
Three-phase universal inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	15Kw，18.5Kw，22Kw
Rated current	32A，37A，45A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	310x164.8x195.2
Installation size	147x298
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-M1.5 type
(input single-phase 220V)
Mini inverter

Input voltage	1PH AC220V 50/60Hz
Output voltage	3PH AC0-220V 0-500Hz
Rated power	0.4Kw，0.75Kw，1.5Kw
Rated current	2.3A，4A，7A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	165×78×116mm
Installation size	65×155 and 35mm DIN rail installation
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLP530-M2.2 type
Mini inverter

Input voltage	3PH AC380V 50/60Hz
Output voltage	3PH AC0-380V 0-500Hz
Rated power	0.75Kw，1.5Kw，2.2Kw
Rated current	2.1A，3.8A，5.1A
Control mode	V/F control, vector control
Overload capacity	150% rated current 60s; 190% rated current 1.5s;
Protection function	Overvoltage, overcurrent, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	165×78×116mm
Installation size	65×155 and 35mm DIN rail installation
Cooling method	Forced air cooling
Using site	Altitude ⩽ 1000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

P6000-A
P6000-F
Single display encoder adjustment
Single display potentiometer adjustment
Finished product operation panel

Dimension	106×70×35mm
Hole size	101×66.5mm

P6000-B
P6000-E
Dual display encoder adjustment
Dual display potentiometer adjustment
Finished product operation panel

Dimension	129×70×35mm
Hole size	124×66.5mm

P530-A
P530-A Single display potentiometer adjustment
Finished product operation panel

Tray Dimension	90×131mm
Tray hole size	85×115mm

P6500-A
Single display potentiometer adjustment
Finished product operation panel

Dimension	106×70×35mm
Hole size	101×66.5mm

P6500-B
Dual display potentiometer adjustment
Finished product operation panel

Dimension	129×70×35mm
Hole size	124×66.5 mm

P530-C

Single display potentiometer adjustment
Finished product operation panel

Dimension	97×65×33mm
Hole size	94×62mm

P530-M

Single display potentiometer adjustment
Finished product operation panel

Dimension	78×63×35mm
Hole size	59.1×69.1mm

XLP6500-A

Operation panel tray
Single display panel tray

Dimension	132×91×29mm
Hole size	115×85mm

XLP6500-B

Operation panel tray
Dual display panel tray

Dimension	169×91×29mm
Hole size	146.5×75mm

Soft starter series

The XLR5000 series intelligent soft starter integrates the latest motor control theory, proprietary motor protection technology and advanced software technology. The product is a new type of starting device at the internationally advanced level, with bypass delay function and standard 485 communication function. The product has passed CCC certification and is an ideal Replace for traditional star/delta starter, auto-coupling reduced-voltage starter, magnetic control reduced-voltage starter and so on.

This series of product is widely used in fields such as power generation, petrochemicals, metallurgy, environmental protection, fire protection, construction and agricultural irrigation.

For more details on model, specification and technical parameter, please visit out company website or contact our company.

XLR5000-55 type
Soft starter

Supply voltage	AC380V±10% 50/60Hz
Rated power	5.5kW 7.5kW 11kW 15kW 18.5kW 22kW 30kW 37kW 45kW 55kW
Rated current	11A 15A 23A 30A 37A 45A 60A 75A 90A 110A
Start mode	7 modes: current limit, voltage ramp, jump+current limit, jump+voltage, current ramp, dual closed-loop, monitoring
Stop mode	Soft stop, free stop
Overload capacity	Trip according to IEC60947-4-2 standard time
Start frequency	The specific frequency depends on the load situation
Protection function	Overcurrent, overheating, phase loss, overload, etc
Protection level	IP20
Dimension	261×160×153mm
Installation size	245×149mm(4-M5)
Cooling method	Natural air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5000-200 type
Soft starter

Supply voltage	AC380V±10% 50/60Hz
Rated power	90kW 115kW 132kW 160kW 185kW 200kW
Rated current	180A 230A 260A 320A 370A 400A
Start mode	7 modes: current limit, voltage ramp, jump+current limit, jump+voltage, current ramp, dual closed-loop, monitoring
Stop mode	Soft stop, free stop
Overload capacity	Trip according to IEC60947-4-2 standard time
Start frequency	The specific frequency depends on the load situation
Protection function	Overcurrent, overheating, phase loss, overload, etc
Protection level	IP20
Dimension	530×260×210mm
Installation size	380×196mm(4-M8)
Cooling method	Natural air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5000-75 type
Soft starter

Supply voltage	AC380V±10% 50/60Hz
Rated power	75kW
Rated current	150A
Start mode	7 modes: current limit, voltage ramp, jump+current limit, jump+voltage, current ramp, dual closed-loop, monitoring
Stop mode	Soft stop, free stop
Overload capacity	Trip according to IEC60947-4-2 standard time
Start frequency	The specific frequency depends on the load situation
Protection function	Overcurrent, overheating, phase loss, overload, etc
Protection level	IP20
Dimension	363×210×185mm
Installation size	298×156mm(4-M8)
Cooling method	Natural air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5000-320 type
Soft starter

Supply voltage	AC380V±10% 50/60Hz
Rated power	250kW 280kW 320kW
Rated current	500A 560A 630A
Start mode	7 modes: current limit, voltage ramp, jump+current limit, jump+voltage, current ramp, dual closed-loop, monitoring
Stop mode	Soft stop, free stop
Overload capacity	Trip according to IEC60947-4-2 standard time
Start frequency	The specific frequency depends on the load situation
Protection function	Overcurrent, overheating, phase loss, overload, etc
Protection level	IP20
Dimension	564×290×214mm
Installation size	460×260mm(4-M8)
Cooling method	Natural air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-45 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	5.5Kw 7.5Kw 11Kw 15Kw 18.5Kw 22Kw 30Kw 37Kw 45Kw
Rated current	11A 15A 23A 30A 23A 30A 37A 45A 60A 75A 90A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, phase loss, short circuit, etc
Protection level	IP20
Dimension	250×155×190mm
Installation size	235×143mm(4-M6)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-75 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	55Kw 75Kw
Rated current	110A 150A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, phase loss, short circuit, etc
Protection level	IP20
Dimension	290×158×200mm
Installation size	270×100mm(4-M8)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-90 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	90Kw
Rated current	180A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, phase loss, short circuit, etc
Protection level	IP20
Dimension	370×210×245mm
Installation size	330×150mm(4-M8)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-160 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	115Kw 132Kw 160Kw
Rated current	230A 260A 320A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, overheating, short circuit
Protection level	IP20
Dimension	435×323×246mm
Installation size	380×260mm(4-M8)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-250 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	185Kw 200Kw 220Kw 250Kw
Rated current	370A 400A 440A 500A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, phase loss, short circuit, etc
Protection level	IP20
Dimension	468×380×270mm
Installation size	400×320mm(4-M8)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-320 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	280Kw 320Kw
Rated current	560A 630A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, phase loss, short circuit, etc
Protection level	IP20
Dimension	540×470×290mm
Installation size	460×335mm(4-M8)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

XLR5800-500 type
Online soft starter

Supply voltage	3PH AC380V(-10%，+15%)，50Hz
Rated power	400Kw 450Kw 500Kw
Rated current	800A 900A 998A
Start mode	Current limit, voltage ramp, jogging
Stop mode	voltage ramp+jump, voltage ramp+current limit
Overload capacity	Soft stop, free stop
Start frequency	Trip according to IEC60947-4-2 standard time
Protection function	Overcurrent, overheating, undervoltage, phase loss, short circuit, etc
Protection level	IP20
Dimension	650×620×320mm
Installation size	660×560mm(4-M10)
Cooling method	Forced air cooling
Using site	Altitude ⩽ 2000m, derating is required if exceeding this altitude, no corrosive gas or liquid indoors

Electric motor protector series

The HHD series motor protector is used to form motor control circuit with AC contactors and other switching devices in power supply circuit with frequency of AC 50Hz, rated operating voltage of AC380V and below. When the main circuit of the motor experiences abnormal working conditions such as phase failure, overload, locked rotor, three-phase imbalance, overvoltage, undervoltage, short circuit, grounding, etc., the switching device contact should be open in a timely manner to disconnect the three-phase power supply of the motor and protect it quickly and reliably.

This series of motor protector complies with the GB/T14048.4 standard, and the product has passed the CCC self-declaration.

HHD1-1A，1，1B
Motor protector

Supply voltage	AC220V，AC380V 50Hz
Current range	-1A:1~5A -1:4~20A -1B:16~80A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, startup avoidance
Display mode	LED displays max. phase current and memory fault status
Display accuracy	Class 2.0
Setting mode	Static quantization setting of potentiometer
Reset mode	Panel reset or power-off reset
Release level	2，5……40 continuously adjustable
Contact form	1 set of NO and NC transfer contacts
Contact capacity	3A AC380V(resistive)
Dimension	125×71×120mm
Installation method	Compatible with both installation and DIN rail type

HHD1B-☐F
Motor protector

Supply voltage	AC220V，AC380V 50Hz
Current range	-1:2~100A -2:40~200A -3:80~400A -4:160~800A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, startup avoidance, short circuit, overvoltage, undervoltage, underload, grounding (it requires dedicated zero-sequence transformer)
Display mode	LED circularly displays three-phase current and memory fault status and check
Display accuracy	Class 2.0
Setting mode	Button setting
Contact form	1 set of NO and 1 set of NC independent contacts
Contact capacity	3A AC380V(resistive)
Dimension	Display part 100×52.5×106mm
Hole size	$92.5^{+0.5}\times45^{+0.5}$mm
Installation method	Panel type
Transformer	HHD1B-3 and 4 require additional transformers
Optional feature	RS-485 communication interface (code T), 4~20mA transmission output (code B)

HHD1-2，3，3A
Motor protector

Supply voltage	AC220V，AC380V 50Hz
Current range	-2:20~100A -3:40~200A -3A:60~300A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, startup avoidance
Display mode	LED displays max. phase current and memory fault status
Display accuracy	Class 2.0
Setting mode	Static quantization setting of potentiometer
Reset mode	Panel reset or power-off reset
Release level	2，5……40 continuously adjustable
Contact form	1 set of NO and 1 set of NC independent contacts
Contact capacity	3A AC380V(resistive)
Dimension	154×65×157mm
Installation method	Screw mounting type

HHD1C-☐Z
Motor protector

Supply voltage	AC220V，AC380V 50Hz
Current range	-1:2~100A -2:40~200A -3:80~400A -4:160~800A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, startup avoidance, short circuit, overvoltage, undervoltage, underload, grounding (it requires dedicated zero-sequence transformer)
Display mode	Chinese/English LCD display and memory fault status and check
Setting mode	Button setting
Contact form	1 set of NO and 1 set of NC independent contacts
Contact capacity	3A AC380V(resistive)
Dimension	HHD1C-1，3，4：100×66×156mm；HHD1C-2：120×62.5×168.5mm
Installation method	Compatible with both installation and DIN rail type
Transformer	HHD1C-3 and 4 require additional CT
Optional feature	RS-485 communication interface (code T), 4~20mA transmission output (code B)

HHD1B-☐Z
Motor protector

Supply voltage	AC220V，AC380V 50Hz
Current range	-1:2~100A -2:40~200A -3:80~400A -4:160~800A
Protection function	Phase failure, three-phase imbalance, overload, locked rotor, starting avoidance, short circuit, overvoltage, undervoltage, underload, grounding (it requires dedicated zero-sequence transformer)
Display mode	LED circularly displays three-phase current and memory fault status and check
Display accuracy	Class 2.0
Setting mode	Button setting
Contact form	1 set of NO and 1 set of NC independent contacts
Contact capacity	3A AC380V(resistive)
Dimension	HHD1B-1，3，4：100×66×156mm；HHD1B-2：120×62.5×168.5mm
Installation method	Compatible with both installation and DIN rail type
Transformer	HHD1B-3 and 4 require additional CT
Optional feature	RS-485 communication interface (code T), 4~20mA transmission output (code B)

HHD1C-☐F
Motor protector

Supply voltage	AC220V，AC380V 50Hz
Current range	-1:2~100A -2:40~200A -3:80~400A -4:160~800A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, startup avoidance, short circuit, overvoltage, undervoltage, underload, grounding (it requires dedicated zero-sequence transformer)
Display mode	Chinese/English LCD display and memory fault status and check
Setting mode	Button setting
Contact form	1 set of NO and 1 set of NC independent contacts
Contact capacity	3A AC380V(resistive)
Dimension	Display part 100×52.5×106mm
Hole size	$92.5^{+0.5}\times45^{+0.5}$mm
Installation method	Panel type
Transformer	HHD1C-3 and 4 require additional CT
Optional feature	RS-485 communication interface (code T), 4~20mA transmission output (code B)

HHD1F-A，B
Motor protector
Replace for HHD1 series, HHD3i series, HHD3H series

Supply voltage	AC220V，AC380V 50Hz
Current range	-A：0.5～6.5A -B：1～100A
Protection function	Start avoidance, phase failure, three-phase imbalance, overload (definite/inverse time limit), locked rotor, underload, grounding
Display mode	LED displays max. phase current and fault status indication
Display accuracy	Class 2.0
Setting mode	Button setting
Reset mode	Panel reset, power-off reset, and automatic reset
Contact form	1 set of independent NO and NC contacts
Contact capacity	3A AC380V（resistive）
Dimension	125×71×120mm
Installation method	Compatible with both installation and 35mm DIN rail type
Optional feature	Grounding (code J requires dedicated zero-sequence transformer) or 4-20mA transmission output (code B)

HHD1F-C
Motor protector
Replace for HHD1 series, HHD3i series, HHD3H series

Supply voltage	AC220V，AC380V 50Hz
Current range	-C：20～300A
Protection function	Start avoidance, phase failure, three-phase imbalance, overload (definite/inverse time limit), locked rotor, underload, grounding
Display mode	LED displays max. phase current and fault status indication
Display accuracy	Class 2.0
Setting mode	Button setting
Reset mode	Panel reset, power-off reset, and automatic reset
Contact form	1 set of independent NO and NC contacts
Contact capacity	3A AC380V（resistive）
Dimension	154×65×157mm
Installation method	Screw mounting type
Optional feature	Grounding (code J requires dedicated zero-sequence transformer) or 4-20mA transmission output (code B)

HHD2-A~F
Motor protector
Passive type

Current range	-A：1~2.5A -B：2~5A -C：4~10A -D：8~20A -E：16~40A -F：32~80A
Protection function	Phase failure, overload
Setting mode	Static quantization setting of potentiometer
Display mode	LED indicates working status
Contact form	(solid-state switch) NC contact
Contact capacity	1A AC380V(resistive)
Control circuit operating voltage	AC220V and AC380V are compatible
Dimension	76×43×74mm
Installation method	Screw mounting type

HHD2-T，G
Motor protector
Passive type

Current range	-T：32~80A -G：64~160A
Protection function	Phase failure, overload
Setting mode	Static quantization setting of potentiometer
Display mode	LED indicates working status
Contact form	(solid-state switch) NC contact
Contact capacity	1A AC380V(resistive)
Control circuit operating voltage	AC220V and AC380V are compatible
Dimension	84×57.5×100mm
Installation method	Screw mounting type and DIN rail type compatible

HHD2-A~F/G
Motor protector
Passive type

Current range	-A/G：1～2.5A -B/G：2～5A -C/G：4～10A -D/G：8～40A -E/G：16～40A -F/G：32～80A
Protection function	Phase failure, overload
Setting mode	Static quantization setting of potentiometer
Display mode	LED indicates working status
Contact form	(solid-state switch) NC contact
Contact capacity	1A AC380V(resistive)
Control circuit operating voltage	AC220V and AC380V are compatible
Dimension	53×64×104mm
Installation method	Screw mounting type and rail type compatible

HHD3E-1P(JD-5)，2P(JD-5)，ATP(JD-5)，AP(JD-5)，BP(JD-5)，CP(JD-5)
Motor protector
BHQ,JD-5(B),JD-6 Terminator

Supply voltage	AC220V，AC380V 50Hz
Current range	-1P：0.2~1A -2P：0.4~2A -ATP：1~5A -AP：2~10A -BP：8~40A -CP：20~100A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, start avoidance
Display mode	LED indicates the status
Setting mode	Static quantization setting of potentiometer
Start avoidance	2~60s continuously adjustable
Reset mode	Power-off reset
Contact form	1 NC contact
Contact capacity	3A AC380V(resistive)
Dimension	125×66×92mm
Installation method	Screw mounting type and DIN rail type compatible

HHD3E-DP(JD-6)
Motor protector
BHQ,JD-5(B),JD-6 Terminator

Supply voltage	AC220V，AC380V 50Hz
Current range	40~160A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, start avoidance
Display mode	LED indicates working status
Setting mode	Static quantization setting of potentiometer
Start avoidance	2~60s continuously adjustable
Reset mode	Power-off reset
Contact form	1 set of NC and NO transfer contacts
Contact capacity	3A AC380V(resistive)
Dimension	155×60×111mm
Installation method	Screw mounting type

HHD3E-EP(JD-6)，FP(JD-6)
Motor protector
BHQ,JD-5(B),JD-6 Terminator

Supply voltage	AC220V，AC380V 50Hz
Current range	-EP：120~300A -FP：120~400A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, start avoidance
Display mode	LED indicates the status
Setting mode	Static quantization setting of potentiometer
Start avoidance	2~60s continuously adjustable
Reset mode	Power-off reset
Contact form	1 set of NC and NO transfer contacts
Contact capacity	3A AC380V(resistive)
Dimension	154×65×157mm
Installation method	Screw mounting type

HHD3E-ATPL，APL，BPL，CPL
Motor protector
Equipped with ammeter drive function

Supply voltage	AC220V，AC380V 50Hz
Current range	-ATPL：1~5A -APL：2~10A -BPL：8~40A -CPL：20~100A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, start avoidance
Display mode	LED indicates the status
Setting mode	Static quantization setting of potentiometer
Start avoidance	2~60s continuously adjustable
Reset mode	Power-off reset
Contact form	1 NC contact, 1 set of meter head drive
Contact capacity	3A AC380V(resistive)
Dimension	125×71×92mm
Installation method	Screw mounting type and DIN rail type compatible
DC meter head	Purchase separately

HHD5-C，E
Phase failure and phase sequence protection relay

Supply voltage	三相 AC380V 50Hz
Protection function	-C: Phase failure, phase sequence -E: Phase failure, phase sequence, voltage imbalance
Contact form	1 NO and 1 NC contact
Contact capacity	3A AC250V(resistive)
Dimension	45×82×106mm
Installation method	Screw mounting type or 35mm DIN rail type
Replace for	XJ2，XJ3-G，XJ5

HHD3E-DPL
Motor protector
Equipped with ammeter drive function

Supply voltage	AC220V，AC380V 50Hz
Current range	40~160A
Protection function	Phase failure, three-phase imbalance, overload locked rotor, start avoidance
Display mode	LED indicates the status
Setting mode	Static quantization setting of potentiometer
Start avoidance	2~60s continuously adjustable
Reset mode	Power-off reset
Contact form	1 NC contact, 1 set of meter head drive
Contact capacity	3A AC380V(resistive)
Dimension	155×60×111mm
Installation method	Screw mounting type
DC meter head	Purchase separately

HHD5-G
Phase failure and phase sequence overvoltage/undervoltage protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Overvoltage, undervoltage, phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	50×87.5×70mm
Installation method	Screw mounting type or 35mm DIN rail type
Replace for	XJ11，ABJ1-18

EOCR-SS 05, 30, 60 type
Motor protector

Supply voltage	AC220~380V 50Hz
Current range	05type: 0.5~6.5A 30type: 3~30A 60type: 5~65A
Start avoidance time	D-Time：0.2~38s±5%
Phase failure operation time Overload operation time	O-Time：2~17s
Start delay	⩽ 2s±5%
Reset mode	Panel reset or power-off reset
Contact form	1 set of NO and NC transfer contacts
Contact status	Power-on pull-on (code R) Power-on non pull-on (code N)
Contact capacity	3A AC380V(resistive)
Dimension	55×72.5×66mm
Installation method	DIN rail type

HHD5-II
Self-reset overvoltage/undervoltage protection relay

Supply voltage	AC220V 50Hz
Protection function	Overvoltage and undervoltage protection
Display mode	LED indicates work status
Wiring method	Upper inlet lower outlet, lower inlet upper outlet (please specify)
Contact form	Voltage output
Contact capacity	4 specifications: 20A, 32A, 40A and 60A
Dimension	36×80×65.5mm
Installation method	35mm DIN rail type

HHD5-A
Phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Phase sequence protection
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	40.5×50.5×73mm
Installation method	Screw mounting type or 35mm DIN rail type

HHD5-II 3P+N
Self-reset overvoltage/undervoltage protection relay

Supply voltage	3-phase 4-wire AC380V 50Hz
Protection function	Overvoltage and undervoltage protection
Display mode	LED displays work status
Wiring method	Upper inlet lower outlet, lower inlet upper outlet (please specify)
Contact form	Voltage output
Contact capacity	60A，80A，100A
Dimension	73×91.5×66mm
Installation method	35mm DIN rail type

HHD7-A/A1(JZF-01)
Forward and reverse controller

Supply voltage	AC24V，AC220V，AC380V 50Hz
Delay range	-A: Forward/reverse 15s, stop 5s -A1: Forward/reverse 25s, stop 5s
Repeat error	⩽ 1%
Operation mode	Forward rotation → stop → reverse → stop → .....
Contact form	-A, A1: 2 NO contacts
Contact capacity	3A AC250V(resistive)
Dimension	65×77.5×72.5mm
Installation method	Screw mounting type

HHD7-F
Forward and reverse controller

Supply voltage	DC24V; AC24V,AC220V,AC380V 50Hz
Delay range	Forward/reverse: 1s~99m99s 0.1s~999.9s 1s~9999s Stop: 0.1s~999.9s
Repeat error	⩽ 1%
Operation mode	1. Stop → forward rotation → stop → backwar → ..... Forward rotation → stop → reverse → .....
Number of Forward and reverses	Unlimited, 1~9999 times settable
Contact form	2 NO contacts with control reset terminal
Contact capacity	3A AC250V(resistive)
Dimension	48×48×108mm
Installation method	Panel type, screw mounting type, 35mm DIN rail type

HHD7-C(JZF-06)
Forward and reverse controller

Supply voltage	AC24V，AC220V，AC380V 50Hz
Delay range	Forward/reverse: 1，2，4，8，16s Stop: 0.5，1，2，4s
Repeat error	⩽ 1%
Operation mode	Forward rotation → stop → reverse → stop → .....
Contact form	2 NO contacts
Contact capacity	3A AC250V(resistive)
Dimension	65×77.5×72.5mm
Installation method	Screw mounting type

HHD7-G
Forward and reverse controller

Replace for JZF-04 series

Supply voltage	DC24V; AC24V,AC220V,AC380V 50Hz
Delay range	Forward/reverse: 1s~999h settable Stop: 1s-999h settable Total time: 1s-999h settable
Operation mode	Forward rotation → stop → reverse → stop → .....
Contact form	Forward/reverse: 2 NO contacts Total time: 1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	57×86×81mm
Hole size	53×61mm 75.5-2×Φ4.5mm
Installation method	Panel type

HHD7-D/D1/D2 (JZF-07 15m/15s/225s)
Forward and reverse controller

Supply voltage	AC24V，AC220V，AC380V 50Hz
Delay range	Forward/reverse: -D：1，2，4，8m -D1：1，2，4，8s -D2：(1，2，4，8s)×15 Stop: 1，2，4，8s
Repeat error	⩽ 1%
Operation mode	Forward rotation → stop → reverse → stop → .....
Contact form	2 NO contacts
Contact capacity	3A AC250V(resistive)
Dimension	65×77.5×72.5mm
Installation method	Screw mounting type

HHD7-H1(JZF-01B)
Forward and reverse controller

Supply voltage	DC24V; AC24V,AC220V,AC380V
Delay range	Forward/reverse:15s, stop 5s; Forward/reverse: 25s, stop 5s
Repeat error	⩽ 1%
Operation mode	Forward rotation → stop → reverse → stop → .....
Contact form	2 NO contacts
Contact capacity	3A AC250V(resistive)
Dimension	50×78×80mm
Installation method	Screw mounting type or 35mm DIN rail type

HHD7-E
Forward and reverse controller

Supply voltage	DC24V; AC24V,AC220V,AC380V 50Hz
Delay range	Forward/reverse: 0.1s~990h Stop: 0.1s~990h
Repeat error	⩽ 1%
Operation mode	Forward rotation → stop → flip → stop (Customizable)
Contact form	2 NO contacts with reset and pause terminal
Contact capacity	3A AC250V(resistive)
Dimension	48×48×105mm
Installation method	Panel type, screw mounting type, 35mm DIN rail type

HHD7-H4
Forward and reverse controller for yarn dyeing machine

Supply voltage	DC24V; AC24V,AC220V,AC380V
Delay range	Spraying 10~99s settable Forward and reverse 3s Stop positioning time 0.1~24s settable
Counting times	1~9 times settable
Repeat error	⩽ 1%
Operation mode	Cycle delay
Display mode	Digital tube indication
Contact form	2 voltage outputs
Contact capacity	3A AC250V(resistive)
Dimension	57×86×81mm
Hole size	53×61mm，75.5-2×Φ4.5mm
Installation method	Panel type

HHD10-A
Phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Phase sequence protection
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	33×78×68.5mm
Installation method	Screw mounting type or 35mm DIN rail type
Replace for	ABJ1-10W

HHD11-A
Phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Phase sequence protection
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	24.5×85.5×90.5mm
Installation method	Screw mounting type or 35mm DIN rail type

Note: HHD11-A phase sequence protector is suitable for phase sequence protection of elevator power supply (replacing market elevator phase sequence protector).

HHD10-B
Phase failure, phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	33×78×68.5mm
Installation method	Screw mounting type or 35mm DIN rail type
Replace for	ABJ1-11W

HHD11-B
Phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	24.5×85.5×90.5mm
Installation method	Screw mounting type or 35mm DIN rail type

HHD10-C
Overvoltage/undervoltage, phase failure, phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Overvoltage, undervoltage, phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	33×78×68.5mm
Installation method	Screw mounting type or 35mm DIN rail type
Replace for	GMR-32B

HHD11-C
Overvoltage/undervoltage, phase failure, phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Overvoltage, undervoltage, phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	24.5×85.5×90.5mm
Installation method	Screw mounting type or 35mm DIN rail type

HHD10-D
Overvoltage/undervoltage, phase failure, phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Overvoltage (adjustable), undervoltage (adjustable), phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	33×78×68.5mm
Installation method	Screw mounting type or 35mm DIN rail type
Replace for	ABJ1-18，XJ11

HHD11-D
Overvoltage/undervoltage, phase failure, phase sequence protection relay

Supply voltage	Three-phase AC380V 50Hz
Protection function	Overvoltage (adjustable), undervoltage (adjustable), phase failure, phase sequence, voltage imbalance
Display mode	LED indicates work status
Contact form	1 set of NO and NC contacts
Contact capacity	3A AC250V(resistive)
Dimension	24.5×85.5×90.5mm
Installation method	Screw mounting type or 35mm DIN rail type

Motor speed regulator series

The US-52A and SS-22 series AC motor speed regulators, with soft start and stepless speed regulation functions, are widely used in motor drive industries such as assembly lines, weaving machinery and packaging machinery.

The DC-51 and HHD6-E DC motor speed regulators have simple wiring and support multiple DC voltage outputs, widely used in control circuits for low-power motors.

The HHD6-G high-power DC motor speed regulator is suitable for regulating DC motors below 1200W.

US-52A
AC motor speed regulator
(with soft start and stepless speed regulation functions) 3 types of plugs: square, flat, and C-shaped. The standard leave-factory type is flat plug

Supply voltage	AC220V 50Hz
Rated power	15W,25W,40W,60W,90W 120W,180W,200W,250W
Speed regulation range	90~1400 rpm 50Hz; 90~1600 rpm 60Hz
Control mode	Forward/reverse optional: Connecting COM to CW for forward rotation, connecting COM to CCW for reverse
Application scope	YYDJ, YCJT, YYCJ, YCJFK series five-wire motors with speed measuring wire
Dimension	60×99.6×104.2mm
Hole size	81×53mm 90.5-2×Φ4.5mm
Installation method	Panel screw installation

HHD6-G
High-power DC motor speed regulator

Supply voltage	AC220V 50/60Hz
Speed regulation power	HHD6-G：400W 1.8A HHD6-G：1200W 5.5A
Armature output voltage	DC0~220V
Excitation output voltage	DC220V±10%
Relative humidity	⩽ 90%
Altitude	⩽ 1000 米
Dimension	90×145×41mm
Application	When used in two-wire motor, the excitation output line is not connected, only the armature line is connected

DC-51A
DC motor speed regulator
(Suitable for two-in two-out DC motor)

Supply voltage	AC220V 50Hz
Rated power	Power 60W for output DC0-24V Power 120W for output DC0-90V Power 120W for output DC0-180V
Control mode	Forward rotation
Application scope	Suitable for two-wire DC motor with power less than 120W
Dimension	100×60×112mm
Hole size	82×54mm 90-2×Φ4.5mm
Installation method	Panel screw installation

SS-22
Small AC motor speed regulator
(with soft start and stepless speed regulation functions)

Supply voltage	AC220V 50/60Hz
Rated power	15W,25W,40W,60W,90W 120W,180W,200W
Speed regulation range	90~1400r/min 50Hz；90~2800r/min 60Hz
Control mode	Forward/reverse optional
Application scope	YYDJ, YCJT, YYCJ, YCJFK series five-wire motors with speed measuring wire
Dimension	57×40×78mm
Installation method	35mm DIN rail