

Weidmüller SDD200 Series

Smart Distributed Drive



Weidmüller 

Weidmueller — — Expert of Intelligent Industrial Connection

As an experienced expert in intelligent industrial connectivity, Weidmüller provides global customers and partners with products, solutions and services for power, signal and data in industrial environments. Weidmüller has always been committed to industrial links, aiming at promoting the development of industrial technology, with advanced technology and rich experience. Since its establishment more than 170 years ago, Weidmüller Group has set up many branches around the world, including R & D centers, production bases and sales companies, and has taken advantage of the global network to continuously innovate and meet the needs of different customers and partners.

Products, solutions and services. At present, Weidmüller can provide more than 40,000 kinds of electrical cabinets, automation and digital technology products to meet various levels of demand, and are widely used in machinery and factory automation, energy, process control, transportation, device manufacturing, infrastructure construction and other fields to meet various needs in the industrial environment.

Since entering the Chinese market in 1994, Weidmüller has always adhered to the principle of local customer-oriented, with 18 sales liaison offices throughout the country and hundreds of sales liaison offices.

A cooperative dealer . Weidmüller Electric Connection (Suzhou) Co., Ltd. was upgraded and expanded in 2019, ensuring efficient production and excellent quality of products through high automated and digital production. It has two R & D centers of excellence in Shanghai and Suzhou to carry out R & D and technological innovation of electronic products and electrical connection products. Located in the Asia-Pacific Logistics Center in Shanghai, the inventory of tens of thousands of varieties meets the needs of customers and partners in a timely manner . From R & D, production to sales, from technical support to logistics and after-sales service, Weidmüller provides a full range of convenient services for local customers.

Weidmueller's insistence

Intelligent Solution Provider



Innovation is the DNA of Weidmüller, and Weidmüller always carries out the concept of innovation. From the quick and easy SNAP IN innovative squirrel-cage connection technology with mouse-catching principles, to the u-remote remote I/O with a fully integrated system, the fast and efficient OMNIMATE

Product innovations such as 4.0 connectors and Klippon ® Connect terminals for different types of applications, Weidmüller has been constantly promoting technological and product innovation. In addition, efficient production and superior quality are ensured through highly automated production innovations; rapid delivery of services, connectivity advisory services,

Industrial big data analysis services and other innovative services to meet the different needs of customers and partners! From technology, products, production to service, Weidmüller's innovation has never stopped, and continues to lead the development of the industry.

In the era of industry 4.0, as an intelligent solution provider, Weidmüller is more committed to providing efficient solutions and services for customers and partners, and helping customers and partners to transform digitally. Weidmüller's industrial analysis solutions can provide early warning and reduce costs; energy management solutions help

Energy saving and emission reduction; efficient and simple cabinet solutions to meet the needs of cabinet customization; industrial automation solutions to achieve remote and efficient management.. Weidmüller enables customers and partners to stride into the era of industry 4.0 and digitalization.

Weidmüller will continue to innovate and develop sustainable products, solutions and services, constantly meet the personalized needs of the market, and shape the digital future with customers and partners.

Innovation is everywhere



Technological innovation

- The first direct connection
- technology of plastic
- insulated terminal
- Squirrel Cage Patented Connection Technology
- Non-contact Technology

PUSH IN

SNAP IN



Product innovation

- Klippon ® Connect SNAP IN Series
- Klippon ® Connect Terminal Blocks
- PROtop Power
- OMNIMATE fourth-generation connector u-remote remote I/O module
- Anti-open circuit heavy load connector for non-contact
- wireless transmission system
- TERMSERIES-compact series of surge protectors with integrated IoT capabilities



Production innovation

- Rapid delivery
- of highly automated
- production R & D
- Independent mold manufacturing



Service innovation

- Connect the consultant team
- Industrial big data Analysis Team
- Services Online Application Guide
- AppGuide Rapid Delivery Services
- Global 72-Hour Free Sample
- Service Product Selection Online
- Configuration

Based on local customers



- Sales network and service covering the whole country
- Located in the Asia-Pacific Logistics Center of Shanghai Free Trade Pilot Area, it is made in China and produced in Suzhou with German quality.
- R & D centers in Shanghai and Suzhou
- Localized customer support services
- Rich and colorful online and offline activities in
- close cooperation with associations and scientific research institutes

Weidmüller's online sample of Chinese products has been released. You can directly log in: <https://catalog.weidmueller.com.cn> to check Weidmüller's detailed product information at any time.

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SDD200 series Smart Distributed Drive

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Product introduction

Weidmüller SDD200 series distributed frequency converter is mainly used for load three-phase asynchronous motor. The working voltage is AC380V ~ 480V, and the power range is 0.75KW to 3KW.

The design concept of high protection level (IP54), high integration and pluggable interface is adopted, which can help users to carry out on-site engineering construction, wiring, configuration debugging and other work very conveniently.

It integrates multi-point digital input and output and supports Profinet bus protocol, which is very suitable for the use of logistics conveyor and sorting system with distributed electric control scheme, especially for belt conveyor, roller conveyor, chain conveyor and other applications.

Functional features



High strength

The SDD200 series frequency converter meets the EN/IEC 61800 -3 standard and complies with the RoHS specification.

- **Wide temperature operation**
-20~45°C ° There is no need to reduce the capacity at the working temperature of 45 degrees, which ensures the application in some hot environments, such as opening logistics transfer stations. Reliable low temperature operation, ideal for cold-chain storage applications.
- **IP54 high protection**
Dust and splashing can be effectively prevented, and easy maintenance on site is improved.
- **Cooling method**
Natural heat dissipation and forced air cooling. Base on ensuring the stability and reliability of the system, the back design can reduce the contact between field personnel and the heat dissipation surface during operation, thereby reducing the risk of personal injury.



High integration

SDD200 series distributed frequency converter supports Profinet communication protocol and fast configuration.

- **Frequency converter control**
Realize the function configuration of online start and stop of frequency converter, frequency setting, acceleration and deceleration time, etc.
- **Status monitoring**
Realize the monitoring of frequency converter operation status, start and stop, forward and reverse, output voltage, alarm and other data.
- **Digital I/O**
Realize the control of logical digital input and output, and can flexibly configure and access field sensors and actuators.



Easy to install

The SDD200 series distributed frequency converter adopts the same size and specification and the same installation method in the power range of 0.75 to 3 KW, and can support flexible installation methods such as wall-mounted installation and bracket installation. Combined with the experience of Weidmueller connector field, the external interface of the whole machine adopts the fast connection mode.

- **Power supply and motor output**
Adopt heavy-duty connector, compact size, large current-carrying capacity, safe and reliable.
- **Digital quantity and communication interface**
M12 circular connector standard is adopted to ensure the stability and reliability of connection.
- **Identification**
All ports are clearly marked and fool-proof to identify different functions and avoid miswiring.



Easy to debug



The user can configure the parameters of the frequency converter through Profinet online mode or local keyboard mode.

- **Online mode**

The parameters are configured and monitored by the upper PLC.

- **Local mode**

The frequency setting, acceleration and deceleration time, temperature monitoring, fault code display and other functions can be carried out locally through the accessory operation keyboard. In addition, through the factory preset parameters, it can quickly start locally without the upper controller, which brings convenience to the on-site mechanical test work.

And is easy to maintain



SDD200 series intelligent distributed frequency converter body is equipped

- **with indicator light and master control: LED indication**

Power-on status, communication status, operation mode, forward and reverse rotation information, and on-off status of DI/DO.

- **Key switch**

The remote and local control modes can be switched by switching the key switch.

- **Rotary switch**

The forward, stop and reverse functions can be realized by rotating the switch.

Maintenance switch

- **Cut off and open the power supply.**

Maintenance padlock, that is, padlock when the maintenance switch of the frequency converter is in the OFF state, to prevent the frequency converter from being powered on by mistake and the motor from running during the maintenance of the equipment, resulting in possible personal injury.

Operate the padlock, that is, padlock when the maintenance switch of the frequency converter is in the ON state, so as to prevent the misoperation during the operation process, which may cause the power failure of the frequency converter, stop the output of the motor, and affect the normal work on site.

Functional description

	Functional description	SDD200 0.75~3KW
Basic function	Standard V/F controlled three-phase asynchronous motor	✓
	Frequency setting through local and remote	✓
	Torque boost function	✓
	Overcurrent speed limiting function	✓
	Set the acceleration and deceleration time freely	✓
	Multi-speed preset	✓
	Switching between local mode and remote mode	✓
	Undervoltage, overcurrent and overvoltage protection	✓
	Fault display and operation status display	✓
External control	Manual and automatic control-start, stop, forward and reverse	✓
	Fieldbus system Profinet	✓
	Digital input (1)	4
	Digital output	6
	Mechanical braking control (2)	◎
	External braking resistor interface	✓
	Power off maintenance switch	✓
	Local light board display	✓
	Internal 24 V power supply system (for external sensors and actuators)(3)	✓
	Natural and forced heat dissipation (4)	✓

(1) Digital input is valid at high level.

(2) Used for AC control of motor with mechanical brake.

(3) There is no need to arrange external 24 V control power supply.

(4) Natural heat dissipation below 3 KW, 3 KW with strong cooling fan.

✓ Standard configuration

◎ Optional



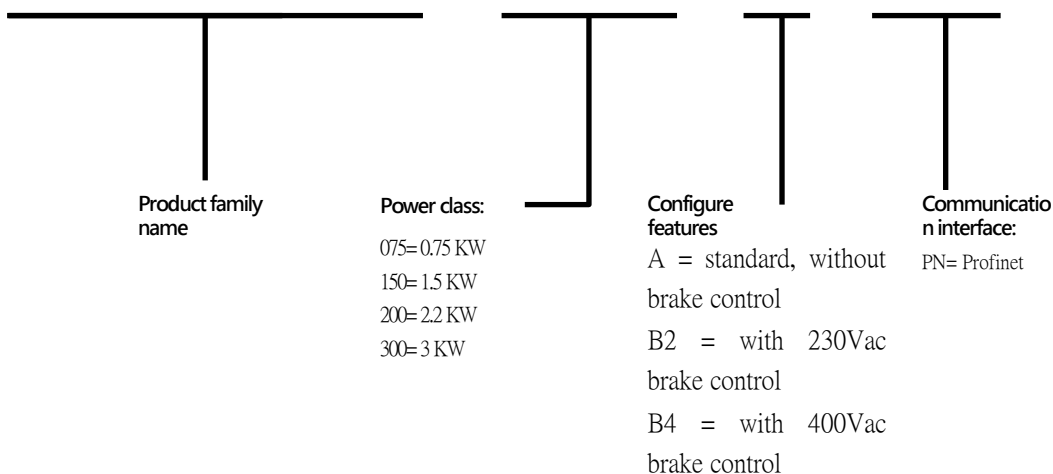
Illustration



Model parameters

SDD200 Series Distributed Inverter Profinet

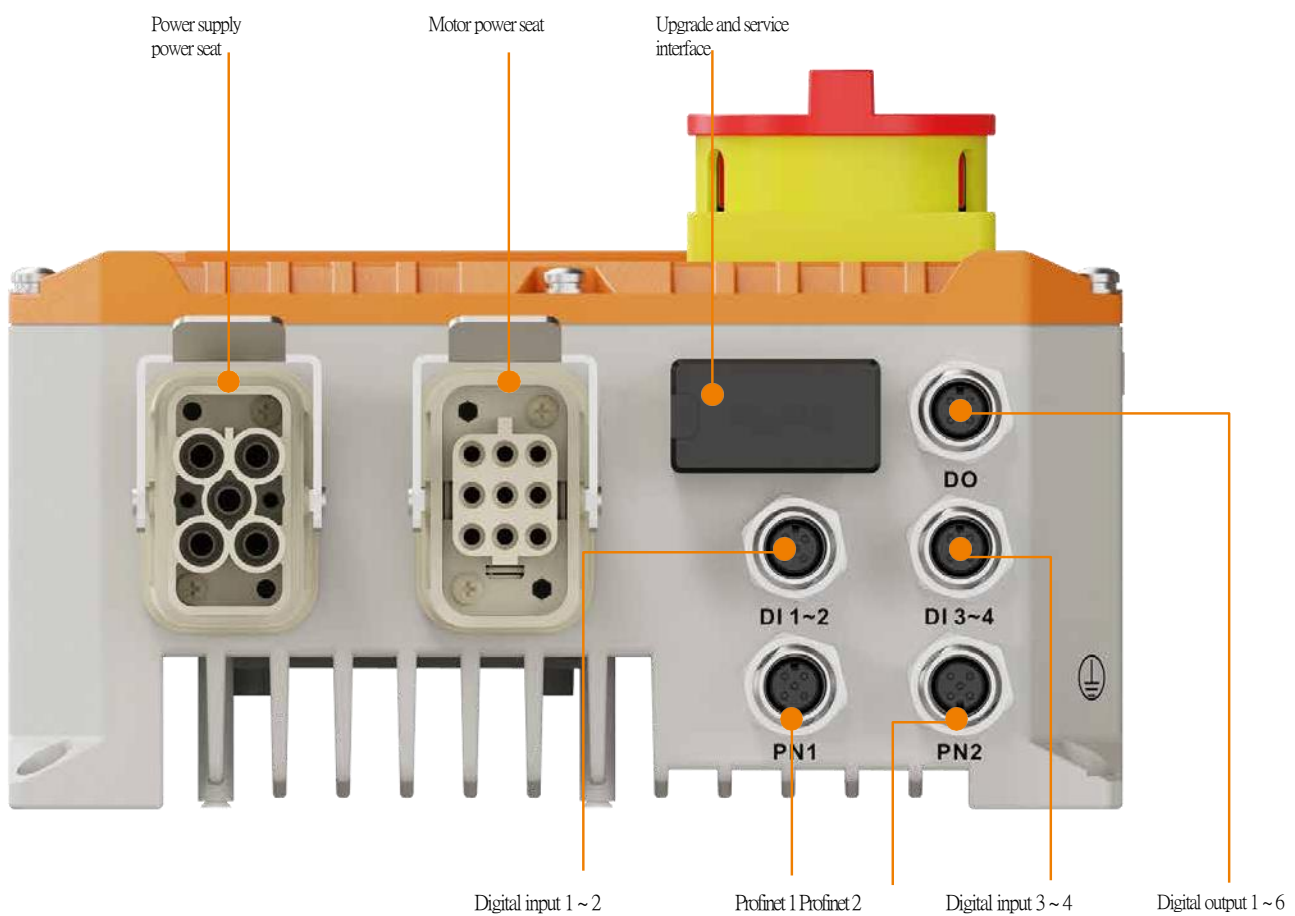
SDD200-075-A-PN



Three-phase input power supply 380 ~ 480 V, 50/60Hz

Motor power	Input current	Output current	Input/output t	Brake control voltage	Model	Material number	Weight
0.75kW	3.2A	2.3A	4DI/6DO	-	SDD200-075-A-PN	3033320000	4.18kg
0.75kW	3.2A	2.3A	4DI/6DO	230V AC	SDD200-075-B2-PN	3033410000	4.18kg
0.75kW	3.2A	2.3A	4DI/6DO	400V AC	SDD200-075-B4-PN	3033360000	4.18kg
1.5kW	5.1A	3.7A	4DI/6DO	-	SDD200-150-A-PN	3033330000	4.18kg
1.5kW	5.1A	3.7A	4DI/6DO	230V AC	SDD200-150-B2-PN	3033420000	4.18kg
1.5kW	5.1A	3.7A	4DI/6DO	400V AC	SDD200-150-B4-PN	3033370000	4.18kg
2.2kW	5.8A	5.5A	4DI/6DO	-	SDD200-220-A-PN	3033340000	4.18kg
2.2kW	5.8A	5.5A	4DI/6DO	230V AC	SDD200-220-B2-PN	3033430000	4.18kg
2.2kW	5.8A	5.5A	4DI/6DO	400V AC	SDD200-220-B4-PN	3033390000	4.18kg
3.0kW	8.2A	6.5A	4DI/6DO	-	SDD200-300-A-PN	3033350000	4.18kg
3.0kW	8.2A	6.5A	4DI/6DO	230V AC	SDD200-300-B2-PN	3033440000	4.18kg
3.0kW	8.2A	6.5A	4DI/6DO	400V AC	SDD200-300-B4-PN	3033400000	4.18kg

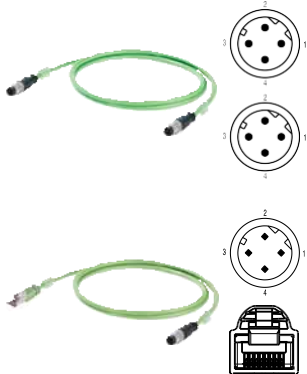
Control interface definition



Interface name	Interface form	Functional description
DO	M12 8-cell A-code	Digital quantity 6-channel output (1)
DI1-2	M12 5-cell A-code	Digital 2-channel input (PNP) (1)
DI3-4	M12 5-cell A-code	Digital 2-channel input (PNP) (1)
PN1	M12 4-cell D-code	Support Profinet bus protocol
PN2		

(1) The inverter provides +24 V DC power supply.

Attachments

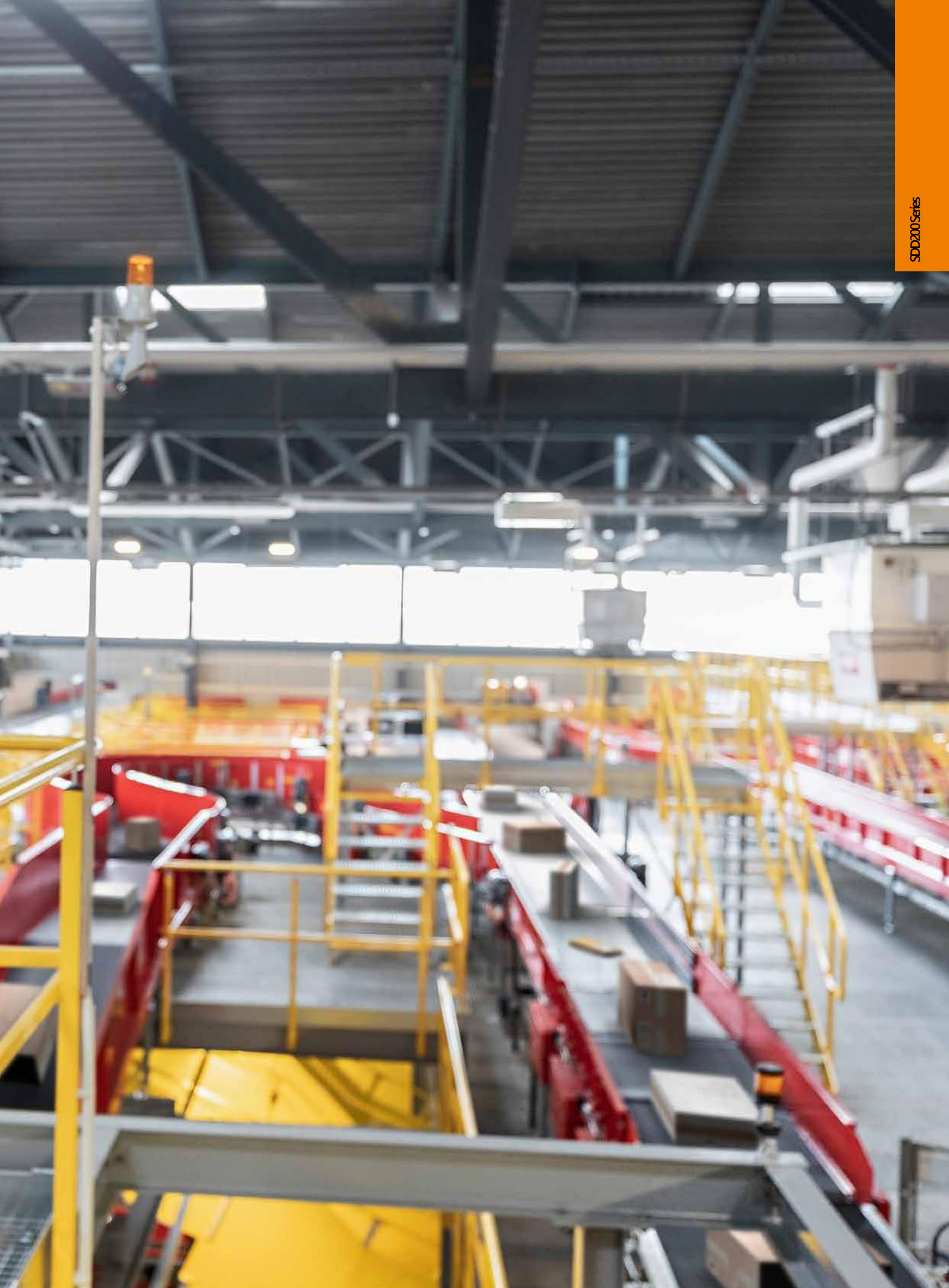
	Description	Model	Order number
Operating the keyboard			
	For local configuration		
	Digital display with RJ45 connection	SDD200-DP	3033380000
	Power plug		
	For main power input		
	Female female	HDC HQ 4/2 FC	1003160000
	Plug housing	HDC HQP TOLU 1PG16	1003070000
	pin (1)	HDC C HX BM2.5AG	1002960000
	pin (2)	HDC C HX BM4.0AG	1002970000
	Cable glade	VG 16 HQ K68 11.5-15.5	1016080000
(1) It is recommended for power of 2.2kW and below, and the number of cold-pressed pins shall be determined according to the number of incoming cable cores. (2) It is recommended to be used for 3 kW power, and the number of cold-pressed pins shall be determined according to the number of incoming cable cores.			
Motor plug			
	For motor feeders		
	Male female plug housing	HDC HQ 8 MC	1919970000
	Plug housing	HDC HQP TOLU 1PG16	1003070000
	pin (1) (2)	HDC-C-HE-SM1.5AG	1200700000
	pin (3) (4)	HDC-C-HE-SM2.5AG	1200800000
	Cable glade	VG 16 HQ K68 11.5-15.5	1016080000
(1) Recommended for UVW cables with power of 2.2kW and below. (2) Motor braking cable recommended for all power sections. (3) Recommended for 3 kW power UVW cable. (4) External resistance cable recommended for all power sections.			
Assembled IE cables			
	For Profinet communication (M12 pin)		
	M12-M12 2m	IE-C5DD4UG0020MCSMCS-EA	2780030020
	M12-M12 3m	IE-C5DD4UG0030MCSMCS-EA	2780030030
	M12-M12 5m	IE-C5DD4UG0050MCSMCS-EA	2780030050
	M12-M12 10m	IE-C5DD4UG0100MCSMCS-EA	2780030100
	M12-RJ45 1m	IE-C5DD4UG0010MCSA20-EA	2780020010
	M12-RJ45 3m	IE-C5DD4UG0030MCSA20-EA	2780020030
	M12-RJ45 5m	IE-C5DD4UG0050MCSA20-EA	2780020050
	M12-RJ45 10m	IE-C5DD4UG0100MCSA20-EA	2780020100

	Description	Model	Order number
Installation cable	PROFINET, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) PVC, 100 m		
	4-core PVC 100m	IE-C5AS4VG-100	8899000000
Sensor-Actuator-Cable (single pin connector)	Sensors and actuators		
	5-pin PUR 1m	SAIL-M12G-5-10UA	2608080100
	5-pin PUR 3m	SAIL-M12G-5-30UA	2608080300
	5-pin PUR 5m	SAIL-M12G-5-50UA	2608080500
	5-pin PUR 1.5m (double outgoing line M12-2*M8)	SAIL-ZW-M8BG-3-1.5U	9457490150
	8-pin PUR 1.5m	SAIL-M12G-8-15U	1279410150
	8-pin PUR 3m	SAIL-M12G-8-30U	1279410300
	8-pin PUR 5m	SAIL-M12G-8-50U	1279410500
Circular connector	For sensors and actuator		
	Screw type 5-pin	SAIS-5/7	9456940000
	Screw type 8-pin	SAIS-8/9	1836970000
	T- and Y-distributors	SAFY-44/24-M128	1783420000
	Screw type 5-pin connector (Double outgoing line)	SAISZW-5	9457540000



(1) The marked data is the maximum size, including the switch and interface attached to the surface of the product body.





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