

GMTCNT

INDUSTRIAL AUTOMATION PRODUCTS



GMTCNT



Total Solutions in Industry

GMT, in addition to its PLCs and Compact PLCs equipped with 100% production and design technology, offers a complete solution with HMI (Operator Panels), AC inverters, Servo Systems, Stepper Motors and Drivers, Industrial Robots, as well as products capable of serial communication and RF operation for the service of the industry.





GMT ENDÜSTRİYEL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ.

GMT Electronics is a technology company established in 2014 by a group of engineers engaged in automation R&D for more than 30 years.

GMT aims to increase the efficiency and competitiveness of its customers by offering quality and cost effective products.

GMT Electronics offers total solutions with its six product families under its brand GMTCONT : PLC, HMI, AC Drive, Servo Systems, Stepper and industrial communication products.

GMT products are widely used in different sectors. Our products aid several machine manufacturers in different applications such as filling packaging, pressing, cutting, extruder, textile, etc. They are also commonly used in factory automation for data acquisition and remote monitoring.

Our products have proved themselves in many different places in the sector with their performance and quality.

GMT will always continue to invest in innovation and offer cost effective, easy and quick solutions.



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GMTCNT

gmtcontrol.com

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PLC

CPU & EXPANSION MODULES



PLC - CPU & EXPANSION MODULES



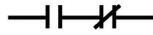
GMCNT PLC family is developed to meet easy, economic and smart solutions for small and medium sized applications.

Digital, analog, temperature and loadcell modules provide users with a wide range of applications such as packing, textile, food, filling, wood, etc.

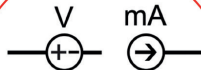
All analog, temperature and digital modules are designed with isolated components to keep PLC system stable against any interference.

GMCNT PLCs are generally used to control machines.

Built-in Ethernet port offers economical and easy solutions for process automation, SCADA and IoT applications.



Digital I/O



Analog I/O



NTC
RTD
TC



HSC
High Speed
Counter



Force and Weight



HSO
Motion Control



Modbus
RTU/TCP
ASCII



RTC
Real Time Clock



E-Mail
Telegram



USB
Datalog



Web Machine
Interface



MQTT
Web Scada

PLC / CPU

MODEL

DESCRIPTION



GLC - 196 SERIES

- 24 VDC power supply
- 9 digital inputs (24 VDC, PNP/NPN)
- Modular structure with support for up to 16 expansion modules (up to 271 I/O points)
- Program upload, download & simulation via 100 Mbps Ethernet port
- RS232 and RS485 communication ports
- Modbus RTU Master/Slave protocol support
- Floating-point operation function
- 196 kB program memory / 10 kB variable memory
- Maximum 20 kHz program cycle speed
- DIN rail mounting
- 3 dual-phase (A, B, Z) encoder inputs or 3 high-speed counter inputs (20 kHz)

GLC - 196R

- 6 relay outputs (5 A @ 250 VAC)

GLC - 196T

- 6 transistor outputs (450 mA @ 24 VDC, PNP)
- 3 pulse outputs (20 kHz)



GLC - 296 SERIES

- 24 VDC power supply
- 9 digital inputs (24 VDC, PNP/NPN)
- Modular structure with support for up to 16 expansion modules (up to 273 I/O points)
- Program upload, download & simulation via 100 Mbps Ethernet port
- RS232 and RS485 communication ports
- Modbus RTU Master/Slave protocol support
- ASCII read/write support
- Floating-point operation function
- 196 kB program memory / 10 kB variable memory
- Maximum 20 kHz program cycle speed
- DIN rail mounting
- 3 dual-phase (A, B, Z) encoder inputs or 3 high-speed counter inputs (50 kHz)
- 1 selectable analog input (0-10 VDC / 0-20 mA, 12 Bit resolution)
- 1 analog output (0-20 mA / 0-10 VDC via 500 Ω resistor, 14 Bit resolution)

GLC - 296R

- 6 relay outputs (5 A @ 250 VAC), 1 analog input, 1 analog output

GLC - 296T

- 6 transistor outputs (450 mA @ 24 VDC, PNP), 1 analog input, 1 analog output
- 3 pulse outputs (100 kHz)

PLC / CPU

MODEL

DESCRIPTION



WMI
RTC
E-MAIL
TELEGRAM

GLC - 396 SERIES

- 24 VDC power supply
- 9 digital inputs (24 VDC, PNP/NPN)
- Modular structure with support for up to 16 expansion modules (up to 273 I/O points)
- Program upload, download & simulation via 100 Mbps Ethernet port
- RS232 and RS485 communication ports
- Modbus RTU Master/Slave protocol support
- ASCII read/write support
- Floating-point operation function
- 196 kB program memory / 10 kB variable memory
- Maximum 20 kHz program cycle speed
- DIN rail mounting
- 3 dual-phase (A, B, Z) encoder inputs or 3 high-speed counter inputs (50 kHz)
- PLC Internet connectivity via 100 Mbps Ethernet port (WMI - Web Machine Interface)
- E-mail sending function
- Telegram message function
- 1 selectable analog input (0-10 VDC / 0-20 mA, 12 Bit resolution)
- 1 analog output (0-20 mA / 0-10 VDC via 500 Ω resistor, 14 Bit resolution)
- Modbus TCP Client/Server protocol support
- Real-Time Clock (RTC)

GLC - 396R

- 6 relay outputs (5 A @ 250 VAC), 1 analog input, 1 analog output, RTC, WMI

GLC - 396T

- 6 transistor outputs (450 mA @ 24 VDC, PNP), 1 analog input, 1 analog output, RTC, WMI
- 3 pulse outputs (100 kHz)



WMI
RTC
E-MAIL
TELEGRAM
DATALOG
WEB SCADA

GLC - 496 SERIES

- 24 VDC power supply
- 9 digital inputs (24 VDC, PNP)
- Modular structure with support for up to 16 expansion modules (up to 273 I/O points)
- Program upload, download & simulation via 100 Mbps Ethernet port
- RS232 and RS485 communication ports
- Modbus RTU Master/Slave protocol support
- ASCII read/write support
- Floating-point operation function
- 196 kB program memory / 10 kB variable memory
- Maximum 20 kHz program cycle speed
- DIN rail mounting
- 3 dual-phase (A, B, Z) encoder inputs or 3 high-speed counter inputs (200 kHz)
- PLC Internet connectivity via 100 Mbps Ethernet port (WMI - Web Machine Interface)
- E-mail sending function
- Telegram message function
- 1 selectable analog input (0-10 VDC / 0-20 mA, 12 Bit resolution)
- 1 analog output (0-20 mA / 0-10 VDC via 500 Ω resistor, 14 Bit resolution)
- Modbus TCP Client/Server protocol support
- Real-Time Clock (RTC)
- GMT SCADA feature
- USB data logging feature

GLC - 496R

- 6 relay outputs (5 A @ 250 VAC), 1 analog input, 1 analog output, RTC, WMI, GMT SCADA, USB data logging

GLC - 496T

- 6 transistor outputs (450 mA @ 24 VDC, PNP), 1 analog input, 1 analog output, RTC, WMI, GMT SCADA, USB data logging
- 3 pulse outputs (400 kHz)

PLC / EXPANSION MODULES



	MODEL	DESCRIPTION
DIGITAL MODULES	GXM-44RA	• 4 digital inputs (24 VDC, PNP/NPN) and 4 relay outputs (5 A @ 250 VAC)
	GXM-80IA	• 8 digital inputs (24 VDC, PNP/NPN)
	GXM-08TA	• 8 transistor outputs (24 VDC, 450 mA, short-circuit protected, PNP)
	GXM-88RA	• 8 digital inputs (24 VDC, PNP/NPN) and 8 relay outputs (5 A @ 250 VAC)
	GXM-88TA	• 8 digital inputs (24 VDC, PNP/NPN) and 8 transistor outputs (24 VDC, 450 mA, short-circuit protected, PNP)
	GXM-16IA	• 16 digital inputs (24 VDC, PNP/NPN)
ANALOG MODULES	GXM-16TA	• 16 transistor outputs (24 VDC, 450 mA, short-circuit protected, PNP)
	GXM-40AN	• 4 analog inputs (0-10 VDC / 0-20 mA / 4-20 mA, 16 Bit resolution)
	¹ GXM-42AN	• 4 analog inputs (0-10 VDC / 0-20 mA / 4-20 mA, 16 Bit resolution) • 2 analog inputs (0-10 VDC / 0-20 mA / 4-20 mA, 16 Bit resolution)
	¹ GXM-02AN	• 2 analog outputs (0-10 VDC / 0-20 mA / 4-20 mA, 16 Bit resolution)
LOAD CELL MODULES	² GXM-06AN	• 6 analog outputs (0-10 VDC / 0-20 mA / 4-20 mA, 16 Bit resolution) * Only compatible with GMTSuite
	GXM-20L	• 2 load cell inputs (24 Bit resolution)
	GXM-10L	• 1 load cell input (24 Bit resolution)
TEMPERATURE MODULES	GXM-40UA	• 4 universal temperature inputs • Thermocouples (B, E, J, K, N, R, S, T) • PT-100, PT-1000, NTC (10 kΩ @ 25°C) • 0-60 mVDC • 0-20 Ω resistance
	GXM-20UA	• 2 universal temperature inputs • Thermocouples (B, E, J, K, N, R, S, T) • PT-100, PT-1000, NTC (10 kΩ @ 25°C) • 0-60 mVDC • 0-20 Ω resistance

¹ A maximum of 10 modules can be connected to a single CPU.
² A maximum of 4 modules can be connected to a single CPU.

MINI PLC WITH SCREEN



MINI PLC WITH SCREEN



Panel Mounting



DIN Rail Mounting



Function Keys



1.8" TFT LCD Display



Keypad Control Panel

GSR-164R

- 24 VDC power supply
- 6 configurable inputs (Digital PNP or 0-10 V analog, 12 Bit resolution)
- 4 relay outputs (5 A @ 220 VAC)
- Floating-point arithmetic support
- 48 kB program memory / 2 kB variable memory
- Maximum program cycle up to 20 kHz
- High-speed pulse reading up to 2 kHz per input
- Real-Time Clock (RTC)
- 1.8" TFT LCD display (128 × 160 RGB)
- 12 function keys (6 programmable)
- DIN rail or panel mounting

GSR-2118R

- 24 VDC power supply
- 11 configurable inputs (Digital PNP or 0-10 V analog, 12 Bit resolution)
- 8 relay outputs (5 A @ 220 VAC)
- Floating-point arithmetic support
- 196 kB program memory / 10 kB variable memory
- Maximum program cycle up to 20 kHz
- High-speed pulse reading up to 2 kHz per input
- Real-Time Clock (RTC)
- 1.8" TFT LCD display (128 × 160 RGB)
- 12 function keys (6 programmable)
- DIN rail or panel mounting

GSR-2108T

- 24 VDC power supply
- 10 digital inputs (first 7 configurable as 0-10 V analog inputs, 12 Bit resolution)
- 8 transistor outputs (0.5 A @ 24 VDC)
- Floating-point arithmetic support
- 196 kB program memory / 10 kB variable memory
- Maximum program cycle up to 20 kHz
- High-speed counter capability up to 2 kHz on all inputs
- 1 dual-phase (A, B, Z) encoder input or 1 high-speed counter input (10 kHz), 1 pulse output (10 kHz)
- Real-Time Clock (RTC)
- 12 function keys (6 programmable)
- Programmable via GMTSuite software
- DIN rail or panel mounting

MINI PLC WITH SCREEN



Panel Mounting



DIN Rail Mounting



Function Keys



1.8" TFT LCD Display



Keypad Control Panel

GSR-276TC

- 24 VDC power supply
- 7 Ch. Digital (PNP) Input / 2 Ch. Thermocouple input
- 2 Relay Outputs (220 V AC @ 5A) and 4 Transistor Outputs (0.35A @ 24 VDC)
- Short circuit and overload protection for transistor outputs
- Built-in 1.8 inch 128 (RGB) x 160 TFT LCD color display
- 196 kB program / 10 kB variable memory
- Maximum 20 kHz program cycle speed
- Reverse polarity protection for power supply
- Advanced new generation PID algorithm
- Program upload via USB (with GSR-COM1 adapter)
- Program upload via USB flash disk (with GSR-COM2 adapter)
- RTC (Real Time Clock)
- Maximum counting speed 2 kHz (50% duty cycle) on digital inputs
- A total of 12 function keys, 6 of which are programmable
- DIN RAIL and Panel mounting
- Programmable with GMTSuite editor software

GSR-244L

- Technical Specifications
- 24 VDC power supply
- 4 digital inputs (PNP/NPN), 1 load cell input
- 4 relay outputs (220 VAC, 5 A), 1 analog output (14 Bit)
- 1 RS-232 port and 1 RS-485 communication port
- Integrated 1.8" TFT LCD color display (128 x 160 RGB)
- Floating-point operation support
- 196 kB program memory / 10 kB variable memory
- Maximum program cycle speed: 20 kHz
- Reverse polarity protection for the power supply input
- 24 Bit resolution
- Sampling rate: 500 measurements/second
- Advanced weighing functions including gravity compensation, automatic zero tracking, manual zeroing, tare, stability detection, under/over-range protection, two- or three-point load calibration, and mV/V-based equivalent input calibration
- Program upload via USB (with GSR-COM1 adapter)
- Program upload via USB flash drive (with GSR-COM2 adapter)
- Integrated RTC (Real-Time Clock)
- 6 programmable function keys
- Suitable for DIN rail or panel mounting
- Programmable via GMTSuite editor software

GSR-COM1



- GSR-COM1 communication adapter
- USB 2.0 A-Male - Mini-B cable.

GSR-COM2



- GSR-COM2 communication adapter
- USB flash memory.

UNIVERSAL PID CONTROLLERS



UNIVERSAL PID CONTROLLERS

GENERAL SPECIFICATIONS

Power Supply : 24VDC (-15%, +10%)

Power Consumption : $\leq 5W$

Input Types

- Thermocouple : J, K, S, R, E, T, B, N, WRe3-WRe25, WRe5-WRe26, Cu50, PT100
- DC voltage : 0-5 V, 1-5 V, 0-1 V, 0-100 mV, 0-20 mV, 0-500 mV etc.
- DC current : 4-20 mA (with external 250 Ω shunt resistor)

Measurement Range : J: 0-1000°C, K: -50-1300°C, S and R: -50-1700°C, T: -200-350°C, E: 0-800°C, B: 200-1800°C, N: 0-1300°C, Cu50: -50-150°C, Pt100: -200-600°C

Accuracy : 0.25% FS ± 1

Control Period : Adjustable from 0.24 to 300.0 seconds, must be set in 0.5-second increments

Control Modes : ON/OFF control (adjustable dead band), fuzzy logic PID control, AI-PID (advanced artificial intelligence algorithm) with auto-tuning

Sampling Period : 8 samples per second, response time adjustable to 0.5 seconds by setting digital filter parameter FILT = 0

Alarm Functions : Upper limit, lower limit, deviation upper limit, deviation lower limit

Electromagnetic Compatibility (EMC)

- IEC61000-4-4: ± 4 kV / 5 kHz
- IEC61000-4-5: 4 kV

Insulation Withstand Voltage : ≥ 600 V between terminals

Operating Conditions :

- Temperature: -10 to 60°C
- Humidity: $\leq 90\%$ RH

Communication : Modbus RTU (RS485), 9600, 8, None, 1

Mounting : DIN rail mounting

MODEL

DESCRIPTION

GTC12S

Universal input, SSR output, PID controller

GTC12R

Universal input, relay output, PID controller

GTC12A

Universal input, analog output, PID controller

GTC12S-D

Universal input, SSR + relay output (Heating/Cooling), dual PID controller

GTC41S-TC

4 thermocouple inputs, 4 SSR outputs, PID controller

GTC41S-PT

4 PT100 inputs, 4 SSR outputs, PID controller

COMMUNICATION MODULES

GTC-ETCH

8-channel EtherCAT module

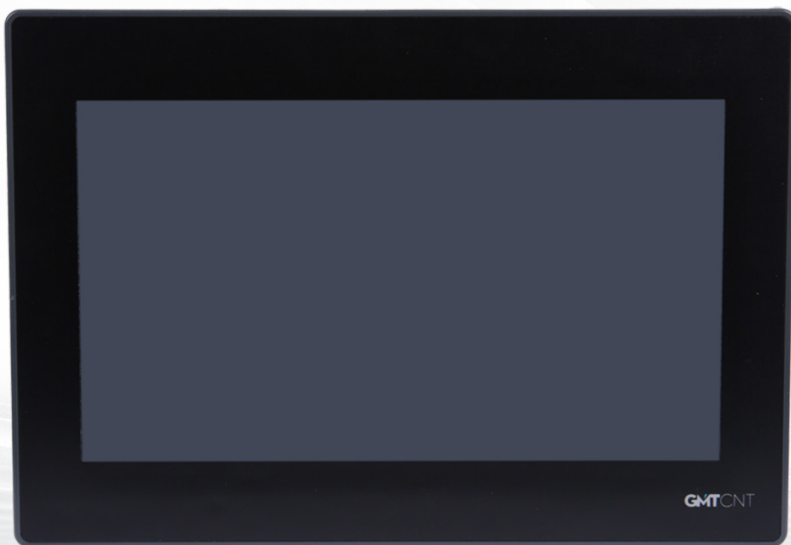
GTC-TCP

32-channel Modbus TCP module

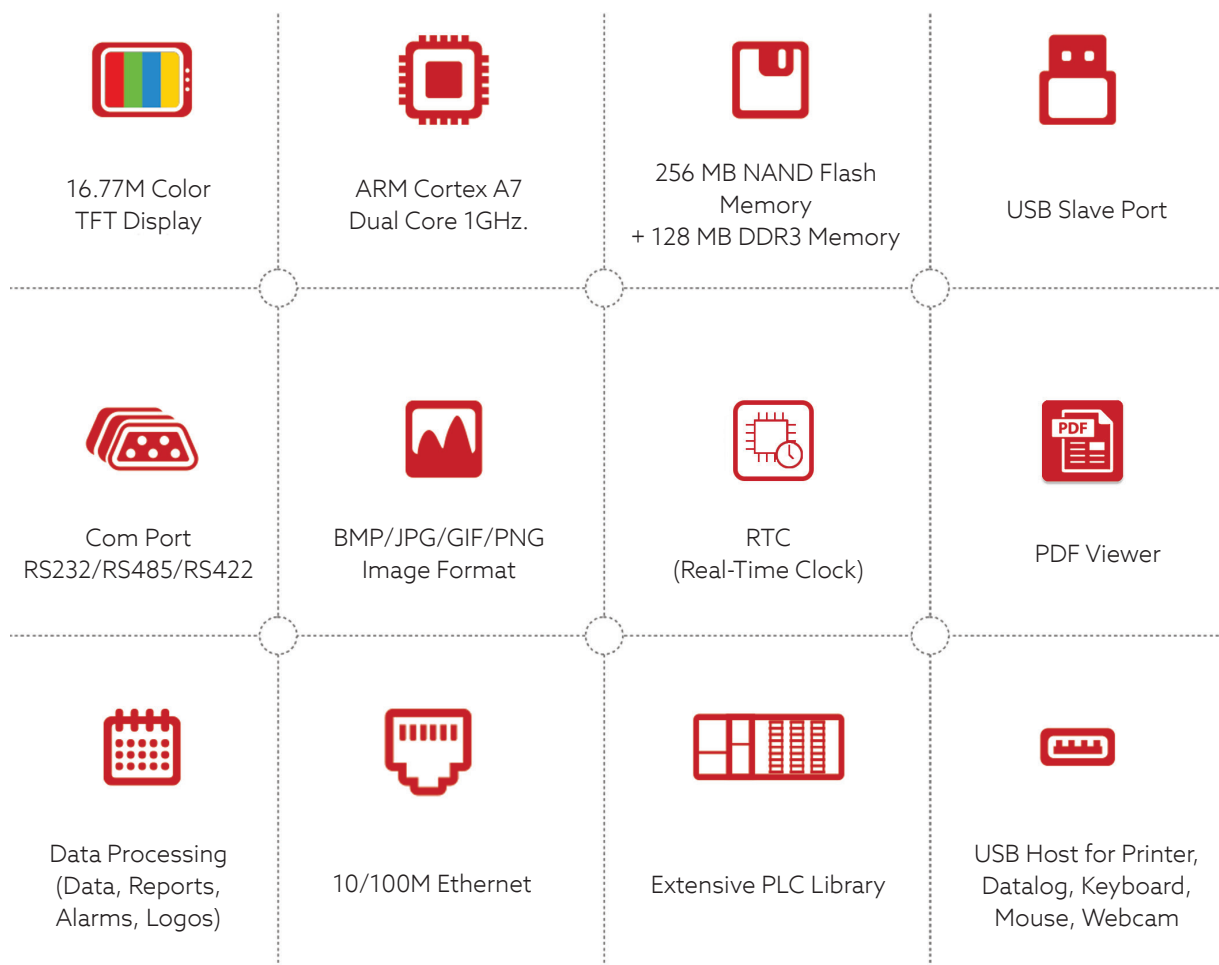


HMI

(HUMAN MACHINE INTERFACE)



HMI (HUMAN MACHINE INTERFACE)



The GHS series is a new generation of industrial human machine interface. The new design and open Linux operating system make it a paradigm of high quality human machine interface.

The GHS series adopts mainstream processors in the market. This quality doesn't only improve the product's lifetime, but it also greatly improves the product's performance.

GMTCNT PDesigner editor software supports scripts, VNC, data report and alarm.

OPERATOR PANELS / GHS SERIES



Superior Performance and Ease of Use for Machine Manufacturers

One of the leading brands in the automation industry, GMT is attracting the attention of machine manufacturers with its next-generation GHS and MSG Series Operator Panels, designed to enhance productivity and transparency in manufacturing. Featuring a user-friendly interface, an extensive PLC library, and easy programming, the MSG Series also supports VNC, enabling remote monitoring and control via tablets, smartphones, and PCs.

Powerful Hardware, Advanced Communication Options

The GHS and MSG Series HMIs deliver an outstanding visual experience with their TFT touchscreen supporting 16.77 million colors, specifically designed for industrial applications. Equipped with a built-in Real-Time Clock (RTC) and a PDF Viewer function, they provide greater convenience for document management.

The USB Host port allows data logging, program upload/download, and connection of peripheral devices such as keyboards, mice, and webcams. On Ethernet-enabled models, FTP access enables remote access to both the HMI's internal storage and a connected USB flash drive.

MODEL	DISPLAY	PANEL CUTOUT	RESOLUTION	BRIGHTNESS cd/m ²	SERIAL PORT	ETHERNET PORT
GHS-043	4.3"	119x93 mm	800x480	300	2 Serial Ports	-
GHS-043E						Available
GHS-070	7"	192x138 mm	1024x600	450	3 Serial Ports	-
GHS-070E						Available
GHS-101	10.1"	260x179 mm	1024x600	450	3 Serial Ports	-
GHS-101E						Available
MSG-156E	15.6"	381.5x245.5 mm	1920x1080	250	2 Serial Ports	Available

VPN-ENABLED OPERATOR PANELS

Smart and Powerful HMI for Machine Manufacturers

The GHPro Series HMI combines the speed, efficiency, and ease of use expected by machine manufacturers in a single solution. Its intuitive, user-friendly interface helps reduce operator errors while providing maximum control and transparency throughout production processes. With broad PLC compatibility and a practical programming environment, the GHPro Series enables faster project commissioning.



Superior Visual Experience, Powerful Hardware

Featuring a high-resolution TFT touchscreen supporting 16.77 million colors, the GHPro Series delivers a clear, vibrant, and professional user experience. Built-in Real-Time Clock (RTC) support ensures reliable recording of production data, while the USB Host port enables data logging, fast program upload, and easy connection of peripheral devices.

Flexible Communication, Easy Integration

With Ethernet-enabled models, the GHPro Series HMI provides fast and seamless integration into industrial networks, meeting the remote monitoring and management requirements of modern automation systems. Its robust hardware, industrial-grade design, and reliable performance make it a valuable addition to a wide range of automation projects.

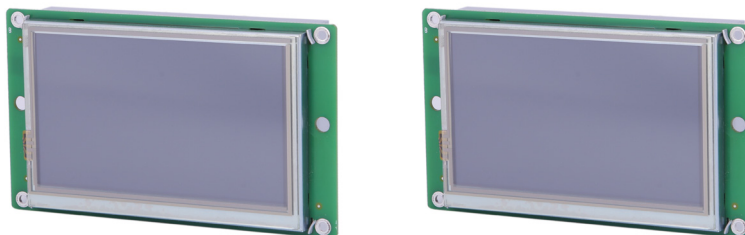
GHPro & GHPro2 SERIES

MODEL	DISPLAY	PANEL CUTOUT	RESOLUTION	BRIGHTNESS cd/m ²	SERIAL PORT	ETHERNET PORT
GHPro-070E-WIFI	7"	192x138 mm	1024x600	450	3 Serial Ports	Available
GHPro-070E-4G	7"	192x138 mm	1024x480	450	3 Serial Ports	Available
GHPro-101E-WIFI	10.1"	260x179 mm	1024x600	300	3 Serial Ports	Available
GHPro-101E-4G	10.1"	260x179 mm	1024x600	300	3 Serial Ports	Available
GHPro2-070E2	7"	192x138 mm	1024x600	450	3 Serial Ports	2 Ethernet Ports
GHPro2-101E2	10.1"	260x179 mm	1024x600	300	3 Serial Ports	2 Ethernet Ports
GHPro2-156E-WIFI	15.6"	381.5x245x5 mm	1920x1080	250	3 Serial Ports	Available

GHPro2 SERIES CAPACITIVE TOUCH PANEL

MODEL	DISPLAY	PANEL CUTOUT	RESOLUTION	BRIGHTNESS cd/m ²	SERIAL PORT	ETHERNET PORT
GHPro2-101E-LX	10.1"	192x138 mm	1280x800	350	3 Serial Ports	Available

HUMAN MACHINE INTERFACE / FLG & WSGBOX SERIES



MODEL	DISPLAY	PANEL CUTOUT	RESOLUTION	BRIGHTNESS cd/m ²	SERIAL PORT	ETHERNET PORT
FLG-043	4.3"	118x67	480x272	450	2 Serial Ports	-
FLG-070E	7"	158x108	800x480	250	2 Serial Ports	Available
FLG-101E	10.1"	237x140	1024x600	400	2 Serial Ports	Available

- 16.77 M color TFT display
- ARM RISC 32 Bit, 792 MHz
- 128 MB NAND Flash + 128 MB DDR3 RAM
- RTC (Real-Time Clock)
- 1 USB Slave port and 1 USB Host port
- 1 RS232 port and 1 configurable communication port supporting RS232/RS485/RS422
- VNC support on Ethernet-enabled models for remote monitoring and control via a tablet, smartphone, or PC

- GMTCNT protocol supporting communication between HMIs, allowing multiple HMIs to access a single PLC
- Supports connection of a keyboard, mouse, USB flash drive, and other peripherals via the USB Host port
- Data, alarm, and trend logging to a USB flash drive connected to the USB Host port, allowing historical data queries
- Supports macro creation using the C programming language
- Configurable security levels and user configuration
- On Ethernet-enabled models, FTP access to both the HMI's internal memory and an externally connected USB flash drive

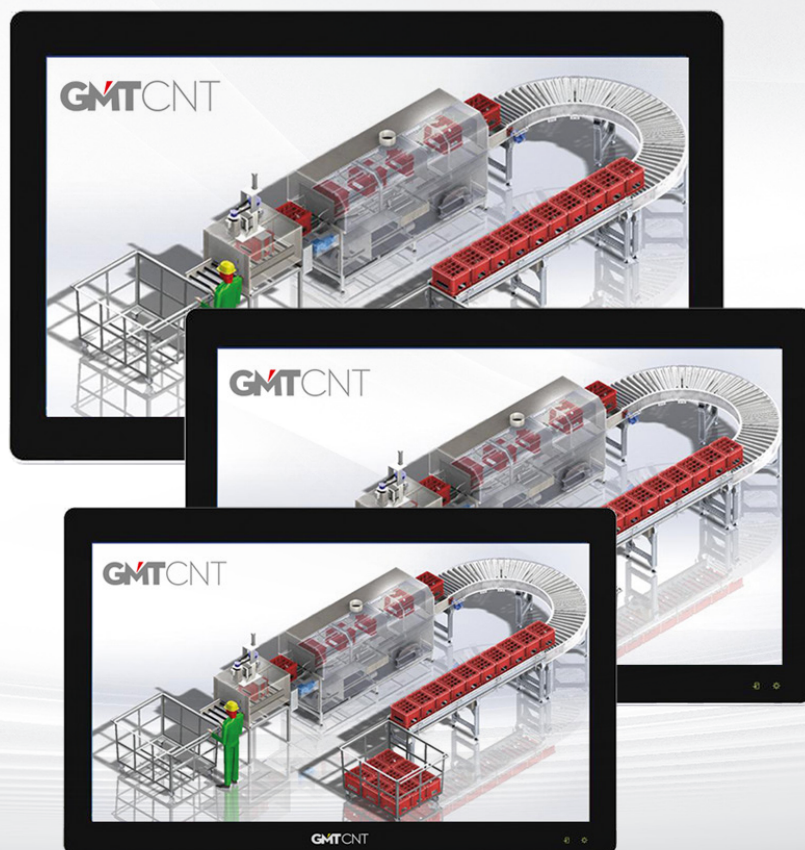
HUMAN MACHINE INTERFACE / WSGBOX-01

MODEL	PROCESSOR	DIMENSIONS W×H×D(mm)	DISPLAY OUTPUT	MEMORY	ADDITIONAL FEATURES	ETHERNET PORT
WSGBOX-01	32 Bit RISC Cortex-A9 1 GHz	30.2x133x104	HDMI V1.4 FHD (1920 * 1080 @ 60Hz)	512 MB DDR3 + 4 GB eMMC Memory	3 Serial Port	Available



- Cortex-A9 Processor
512MB DDR3 + 4 GB eMM Memory
- HDMI V1.4 FHD (1920*1080 @ 60Hz) Display Port
- 2 USB Host Ports
- 1 10/100M Ethernet Port
- 3 Serial Communication Ports
COM0: PLC RS232 / RS422 / RS485
COM1: PLC RS485
COM2: PC / PLC RS232
- 2 Digital Inputs
- 3 Digital Outputs
- Programmed with the PDesigner HMI Editor Program

INDUSTRIAL PANEL PC & MONITOR



INDUSTRIAL PANEL PC & MONITOR



FANLESS INDUSTRIAL PANEL PC

MODEL	PROCESSOR	SIZE	RESOLUTION	RAM
GPC8-101-J1900-4-128	J1900	10.1"	1280x800	4 GB
GPC8-101-J6412-8-128	J6412	10.1"	1280x800	8 GB
GPC8-156-J6412-8-128	J6412	15.6"	1920x1080	8 GB
GPC8-215-J6412-8-128	J6412	21.5"	1920x1080	8 GB
GPC8-156-i508-8-128	i5 8th Gen.	15.6"	1920x1080	8 GB
GPC8-215-i508-8-128	i5 8th Gen.	21.5"	1920x1080	8 GB
GPC8-156-i510-16-128	i5 10th Gen.	15.6"	1920x1080	16 GB
GPC8-215-i510-16-128	i5 10th Gen.	21.5"	1920x1080	16 GB
GPC8-156-i710-16-128	i7 10th Gen.	15.6"	1920x1080	16 GB
GPC8-215-i710-16-128	i7 10th Gen.	21.5"	1920x1080	16 GB

- 4 GB RAM (expandable up to 32 GB)
- 128 GB SSD (expandable up to 2 TB)
- IP65 front panel protection
- 16:9 capacitive touchscreen
- 2 × RJ-45 (Supports EtherCAT)
- 4 × USB 3.0
- 4 × RS-232
- 2 × RS-485 / RS-232 / RS-422
- 1 × HDMI output port
- 1 × audio output port
- Integrated Wi-Fi module
- 350 nits brightness, 16 million colors
- Operating temperature: -30° to +70°C
- Anti-static, anti-surge, anti-pulse protection & power supply protection
- DC 9–36V power supply
- Desktop / embedded / wall-mount installation
- Operating systems: Windows 11 Pro / Linux / Ubuntu

For models with Windows 11 Pro, add WIN11-Pro to the end of the model that you want.

INDUSTRIAL MONITOR

MODEL	SIZE	RESOLUTION
GPM-215	21.5"	1920x1080
GPM-215	21.5"	1920x1080

- 16:9 capacitive touchscreen
- IP65 front panel protection
- HDMI + VGA
- Touchscreen interface via USB
- 350 nits brightness, 16 million colors
- Operating temperature: -20° to +60°C
- DC 9–36V power supply
- Desktop / embedded / wall-mount installation

Contact us directly for different sizes and configurations.

AC MOTOR DRIVES

STANDARD
DETACHABLE
OPERATOR PANEL
TORQUE CONTROL
PID CONTROL



AC MOTOR DRIVES / MICNO SERIES

SINGLE PHASE - 220 VAC

POWER (kW)	CURRENT (A)	DIMENSIONS W x H x D (mm)	MODEL
0.40	2.3	80x150x125	MICNO-00040S
0.75	4.0	80x150x125	MICNO-00075S
1.5	7.0	80x150x125	MICNO-00150S
2.2	9.6	110x185x153	MICNO-00220S

SINGLE PHASE - 380 VAC

HEAVY DUTY	NORMAL DUTY	HEAVY DUTY	NORMAL DUTY	DIMENSIONS W x H x D (mm)	MODEL
0.75	1.5	2.1	3.8	110x185x153	MICNO-00075H
1.5	2.2	3.8	6	110x185x153	MICNO-00150H
2.2	3.7	6.0	9	110x185x153	MICNO-00220H
3.7	5.5	9.0	13	110x185x153	MICNO-00370H
5.5	13	7.5	17	135x240x173	MICNO-00550H
7.5	17	11	25	135x240x173	MICNO-00750H
11	25	15	32	170x285x176	MICNO-01100H
15	32	18.5	37	200x330x180	MICNO-01500H
18.5	37	22	45	200x330x180	MICNO-01850H
22	45	30	60	225x400x185	MICNO-02200H
30	60	37	75	255x440x210	MICNO-03000HS
37	75	45	90	255x440x210	MICNO-03700HS
45	90	55	110	255x440x210	MICNO-04500HS
55	110	75	150	280x570x260	MICNO-05500HS
75	150	90	176	320x600x330	MICNO-07500HS
90	176	110	210	320x600x330	MICNO-09000HS
110	210	132	253	320x600x330	MICNO-11000HS
132	253	160	304	320x715x330	MICNO-13200HS
160	304	185	340	320x715x330	MICNO-16000HS
185	340	200	377	480x790x385	MICNO-18500H
200	377	220	423	480x790x385	MICNO-20000H
220	423	250	465	480x790x385	MICNO-22000HS
250	465	280	520	480x790x385	MICNO-25000HS
280	520	315	585	700x970x408	MICNO-28000H
315	585	350	640	700x970x408	MICNO-31500H
350	640	400	720	940x1140x458	MICNO-35000H
400	720	450	820	940x1140x458	MICNO-40000H
450	820	500	900	940x1140x458	MICNO-45000H

- V/F and vector control
- High starting torque: 150% at 0.5 Hz
- 7 programmable digital inputs
- 2 programmable relay outputs
- 2 analog inputs (0/4-20 mA or 0-10 V)
- Up to 2 analog outputs (0/4-20 mA or 0-10 V)
- 1 programmable transistor output
- Built-in braking unit for models up to 30 kW
- Automatic energy balancing via common DC bus
- PID control
- Fire mode (optional)
- Built-in simple PLC function
- RS485 communication port supporting Modbus RTU
- Maximum output frequency:
 - o 300 Hz (vector mode)
 - o 3000 Hz (V/F mode)
- Built-in EMC filter for models 37 kW and above
- Removable operator panel (remote mounting via Ethernet cable)
- Dual operating mode for fan and pump applications
- Open-loop torque control
- Auto-tuning function

Contact our sales point for powers above 450kW.

AC MOTOR DRIVES / GAIN



SINGLE PHASE - 220 VAC

POWER (kW)	CURRENT (A)	DIMENSIONS W x H x D (mm)	MODEL
0.40	2.6	85x160x130	GAIN-00040S
0.75	4.6	85x160x130	GAIN-00075S
1.5	8	85x160x130	GAIN-00150S
2.2	11	85x160x130	GAIN-00220S

THREE PHASE - 380 VAC

POWER (kW)	CURRENT (A)	DIMENSIONS W x H x D (mm)	MODEL
0.75	3.4	85x160x130	GAIN-00075H
1.5	4.8	85x160x130	GAIN-00150H
2.2	6	85x160x130	GAIN-00220H
3.7	9.5	85x160x130	GAIN-00370H

TECHNICAL SPECIFICATIONS

- V/F control
- High starting torque: 150% at 1 Hz
- 4 programmable digital inputs (PNP/NPN)
- 1 relay output
- 1 analog input (0-10 VDC / 4-20 mA)
- 1 analog output (0-10 VDC)
- PID control
- Built-in braking unit
- Automatic energy balancing via common DC bus
- RS485 communication port supporting Modbus RTU
- User-friendly interface
- Auto-tuning function
- Adjustable output frequency up to 3000 Hz

AC MOTOR DRIVES / MICNO ACCESSORIES

MICNO AND GAIN SERIES BRAKING RESISTORS

DRIVE POWER (kW)	BRAKING RESISTORS		DESCRIPTION	DIMENSIONS W x H x D (mm)	MODEL
	POWER (W)	RESISTANCE (Ω)			
SINGLE PHASE					
0.40 / 0.75 / 1.5 / 2.2	300	200	Aluminium Housing	56x230x35	BRA0300/200
THREE PHASE					
0.75 / 1.5 / 2.2	300	300	Aluminium Housing	56x230x35	BRA0300/300
3.7 / 5.5	600	130	Aluminium Housing	56x230x35	BRA0600/130
7.5 / 11	1400	80	Aluminium Housing	70x280x50	BRA1400/080
15 / 18.5 / 22	3000	32	Galvanized Housing	180x365x130	BR03000/032
30	4000	25	Galvanized Housing	180x365x130	BR04000/025
37 / 45 / 55 ⁽¹⁾	7000	15	Galvanized Housing	200x365x230	BR07000/015
75 ⁽²⁾	9000	10	Galvanized Housing	200x450x230	BR09000/010
90 ⁽²⁾	11000	10	Galvanized Housing	200x450x230	BR11000/010
110 ⁽²⁾	14000	5	Galvanized Housing	280x450x230	BR14000/005
132 ⁽²⁾	16000	5	Galvanized Housing	280x450x230	BR16000/005
160 / 185 ⁽³⁾	9000	10	Galvanized Housing	200x450x230	BR09000/010
200 / 220 / 250 ⁽⁴⁾	19000	5	Galvanized Housing	280x450x230	BR19000/005
280 / 315 / 350 ⁽⁵⁾	19000	5	Galvanized Housing	280x450x230	BR19000/005
400 / 450 ⁽⁶⁾	19000	5	Galvanized Housing	280x450x230	BR19000/005

Braking Resistors (Catalogue Structure with Footnotes)

⁽¹⁾ 1 × BU-080A and BR07000/015 must be used

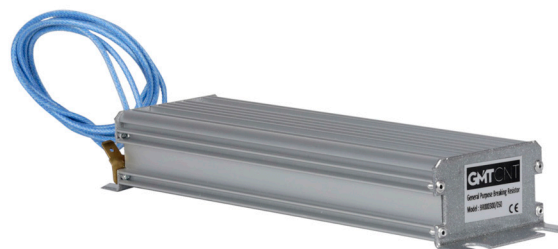
⁽²⁾ 1 × BU-160A and corresponding resistor must be used

⁽³⁾ 3 × BU-080A and 3 × BR09000/010 must be used

⁽⁴⁾ 2 × BU-160A and 2 × BR19000/005 must be used

⁽⁵⁾ 3 × BU-160A and 3 × BR19000/005 must be used

⁽⁶⁾ 4 × BU-160A and 4 × BR19000/005 must be used



MODEL	DESCRIPTION
MOP-S	Operator Panel for MICNO Single-Phase 0.40/0.75/1.5 kW
MOP-H	Operator Panel for MICNO Single-Phase 2.2 kW and Three-Phase Models
BU-080A	Braking Module for 37/45/55 kW
BU-160A	Braking Module for 75-315 kW

MODEL	DESCRIPTION
CN-MPY	Panel Mounting Frame for MICNO Single-Phase 2.2 kW and Three-Phase 0.75-11 kW Models
CN-PE2M	PLC programming & MICNO / GFD panel cable (2m)

GESI SERIES DRIVES

TORQUE CONTROL
PID CONTROL

NEW



GESI Series AC Drives

Combining high performance, flexibility, and reliability, the GESI Series AC Drives are designed to maximize efficiency in industrial motor control.

With V/F and Sensorless Vector Control (SVC) technologies, the GESI Series delivers high torque even at low speeds. Its built-in braking unit and Modbus RS485 communication support simplify control and system integration.

Featuring multi-step speed control, a built-in simple PLC function, and an autotune feature, the GESI Series offers a user-friendly operating experience while prioritizing energy efficiency and system stability.

Its compact design and powerful performance distinguish it in pump, fan, conveyor, and general industrial automation applications.

AC MOTOR DRIVES / GESI & ACCESSORIES

SINGLE PHASE 220VAC

POWER (kW)	CURRENT (A)	DIMENSIONS W x H x D (mm)	MODEL
0.4	2.3	68x160x117,7	GESI-00040S
0.75	4	68x160x117,7	GESI-00075S
1.5	7	68x160x117,7	GESI-00150S
2.2	9.6	68x160x117,7	GESI-00220S

- AC single-phase 220 V $\pm 15\%$
- AC three-phase 380 V $\pm 15\%$
- V/F and Sensorless Vector Control (SVC)
- Starting torque: 150% at 0.5 Hz (SVC)
- Built-in braking unit
- Built-in Modbus RS485 communication support
- Multi-step speed control and built-in simple PLC function
- Autotune feature
- 1 analog input (AI1): 0-10 V / 4-20 mA
- 1 analog output (AO1): 0-10 V / 4-20 mA
- 5 digital inputs
- 1 relay output

THREE PHASE - 380 VAC

POWER (kW)	CURRENT (A)	DIMENSIONS W x H x D (mm)	MODEL
0.75	2.1	68x160x117,7	GESI-00075H
1.5	3.8	68x160x117,7	GESI-00150H
2.2	6	68x160x117,7	GESI-00220H
3.7	9	85x222,5x157,5	GESI-00370H
5.5	13	85x222,5x157,5	GESI-00550H
7.5	17	85x222,5x157,5	GESI-00750H

GESI SERIES BRAKING RESISTORS

DRIVE POVER (kW)	BRAKING RESISTORS		DESCRIPTION	DIMENSIONS W x H x D (mm)	MODEL
	POWER (W)	RESISTANCE (Ω)			
SINGLE PHASE					
0.40 / 0.75	750	60	Aluminium Housing	56x230x35	BRA0750/060
1.5 / 2.2	750	45	Aluminium Housing	56x230x35	BRA0750/045
THREE PHASE					
0.75 / 7.5	750	110	Aluminium Housing	56x230x35	BRA0750/110

NEW GENERATION GFD SERIES DRIVES



New Generation GFD Series AC Drives

Advanced Technology and Innovative Design: GFD Speed Control Drives

The GFD Speed Control Drives, distinguished by their advanced technology and innovative design, have been introduced to the market as a new-generation product for industrial motor control. Featuring high-performance capabilities and a user-friendly interface, these drives are designed to provide reliability and efficiency across various industrial applications.

Product Applications

The GFD Speed Control Drive has a wide range of applications including pump systems, fans, conveyors, industrial machinery, and other motorized equipment. With flexible configuration options and robust performance, it is an ideal solution for enhancing energy efficiency in industrial facilities and reducing maintenance costs.

AC MOTOR DRIVES / GFD ACCESSORIES

SINGLE PHASE 220 VAC

POWER (kW)	CURRENT (A)	DIMENSIONS W x H x D (mm)	MODEL
0.4	2.5	60x190x155	GFD-00040S
0.75	4.2	60x190x155	GFD-00075S
1.5	7.5	70x190x155	GFD-00150S
2.2	10	70x190x155	GFD-00220S

SINGLE PHASE 380 VAC

POWER (kW)	CURRENT (A)	DIMENSIONS (mm) G x H x D	MODEL
0.75	2.5	60x190x155	GFD-00075H
1.5	3.7	60x190x155	GFD-00150H
2.2	5.5	70x190x155	GFD-00220H
4	9.5	70x190x155	GFD-00400H
5.5	14	90x235x155	GFD-00550H
7.5	18.5	90x235x155	GFD-00750H
11	25	130x250x185	GFD-01100H
15	32	130x250x185	GFD-01500H
18.5	38	160x300x190	GFD-01850H
22	45	160x300x190	GFD-02200H

- AC 1 Phase 200–240 V
- AC 3 Phase 380–480 V
- V/F control and Sensorless Vector Control (SVC)
- Suitable for IM and PM motors
- Overload capacity: 150% for 60 seconds, 180% for 10 seconds
- Built-in braking unit
- Built-in Modbus RS485 communication
- Multi-step speed and simple PLC function
- 2 analog inputs (AI1: 0–10 V / 0–20 mA; AI2: 0–10 V)
- 1 analog output (AO1: 0–10 V / 0–20 mA)
- 4 digital inputs
- 2 relay outputs
- One-click parameter copy and upload
- Spring-loaded control terminals
- Independent air channel
- Side-by-side installation
- Auto-tuning function
- Class C3 EMC filter
- PID control
- Open-loop torque control
- STO (optional)

BRAKING RESISTANCE FOR GFD SERIES DRIVES

DRIVE POWER (kW)	BRAKING RESISTOR		EXPLANATION	DIMENSIONS W x H x D (mm)	MODEL
	POWER (W)	RESISTANCE (Ω)			
SINGLE PHASE					
0.40	300	300	Aluminum Housing	56x230x35	BRA0300/200
0.75	600	130	Aluminum Housing	56x230x35	BRA0600/130
1.5	1400	80	Aluminum Housing	70x280x50	BRA1400/080
2.2	1800	60	Aluminum Housing	70x280x50	BRA1800/060
THREE PHASE					
0.75	600	600	Aluminum Housing	56x230x35	BRA0600/600
1.5	1500	300	Aluminum Housing	70x280x50	BRA1500/300
2.2	2000	200	Aluminum Housing	70x280x50	BRA2000/200
4	3000	100	Galvanized Housing	180x365x130	BR03000/100
5.5	5000	70	Galvanized Housing	180x365x130	BR05000/070
7.5	6000	55	Galvanized Housing	180x365x130	BR06000/055
11	9000	40	Galvanized Housing	200x365x230	BR09000/040
15	11000	30	Galvanized Housing	200x450x230	BR11000/030
18.5	14000	20	Galvanized Housing	280x450x230	BR14000/020
22	19000	20	Galvanized Housing	280x450x230	BR19000/020



MODEL EXPLANATION

GFD-HP	GFD Operator Panel (Parameter copying, loading)
CN-PE2M	PLC Programming / MICNO Panel remote cable (2m Ethernet)

SD6 SERIES SERVO SYSTEMS



SD6 SERIES SERVO SYSTEMS

High-performance SD6 Series Servo Motors and Drives offer a compact design, Position / Speed / Torque control modes, and high performance. They provide solutions for machine manufacturers in applications such as testing equipment, press machines, cutting, filling, packaging, plastics, and food industries. Automatic motor recognition, USB programming, and One-Click Tune functionality ensure user-friendly operation.

Technical Specifications

- Single-phase 220 V (–15% ~ +10%), 50/60 Hz
- Power range: 400 W – 750 W
- Position / Speed / Torque control modes
- Speed and torque control adjustable via parameters or RS485 communication
- Mode switching capability between control modes
- Easy setup and flexible control
- Automatic motor recognition
- Communication: Modbus RTU (RS485)
- 17 Bit encoder
- Parameter configuration via PC software or built-in keypad and display
- USB Type-C connection terminal for PC
- 9 digital inputs
- 5 digital outputs
- Pulse input:
 - 5 V (500 kHz)
 - 24 V (200 kHz)
- Auto-tuning
- Zero-speed holding function
- Black box function for fault analysis
- Protection functions:
 - Overcurrent
 - Overvoltage
 - Undervoltage
 - Overtemperature
 - Overload
 - Encoder error
 - Overspeed protection

SD6 SERVO SYSTEMS / SINGLE PHASE 220VAC

PRODUCT CODE	DESCRIPTIONS
SD6RS04	400W Servo Drive, Pulse + Modbus RTU RS485
S0M040F0100FDX	100W Motor Without Brake,, 17 Bit encoder, 0.32Nm, 3000 rpm, IP67, 40 flange, 8mm shaft
S0M040F0100FDB	100W Motor With Brake, 17 Bit encoder, 0.32Nm, 3000 rpm, IP67, 40 flange, 8mm shaft
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5 m)
CM10S-D	Motor Cable (10mt)
CE10S-D	Incremental Encoder Cable (10mt)
CM10S-D-B	Brake Motor Cable (10mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)

	DESCRIPTIONS	PRODUCT CODE / SET CONTENTS
Incremental 100W	Without Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS04 + S0M40F0100FDX + CM05S-D + CE05S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS04 + S0M40F0100FDB + CM05S-D-B + CE05S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS04 + S0M40F0100FDX + CM10S-D + CE10S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS04 + S0M40F0100FDB + CM10S-D-B + CE10S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS04 + S0M40F0100FDX + CM15S-D + CE15S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS04 + S0M40F0100FDB + CM15S-D-B + CE15S-D)

PRODUCT CODE	DESCRIPTIONS
SD6RS04	400W Servo Drive, Pulse + Modbus RTU RS485
S0M060F0200FDX	200W Motor Without Brake,, 17 Bit encoder, 0.64Nm, 3000 rpm, IP67, 60 flange, 14mm shaft
S0M060F0200FDB	200W Motor With Brake, 17 Bit encoder, 0.64Nm, 3000 rpm, IP67, 60 flange, 14mm shaft
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5 m)
CM10S-D	Motor Cable (10mt)
CE10S-D	Incremental Encoder Cable (10mt)
CM10S-D-B	Brake Motor Cable (10mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)

	DESCRIPTIONS	PRODUCT CODE / SET CONTENTS
Incremental 200W	Without Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS04 + S0M60F0200FDX + CM05S-D + CE05S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS04 + S0M60F0200FDB + CM05S-D-B + CE05S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS04 + S0M60F0200FDX + CM10S-D + CE10S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS04 + S0M60F0200FDB + CM10S-D-B + CE10S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS04 + S0M60F0200FDX + CM15S-D + CE15S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS04 + S0M60F0200FDB + CM15S-D-B + CE15S-D)

SD6 SERVO SYSTEMS / SINGLE PHASE 220VAC

PRODUCT CODE	DESCRIPTIONS
SD6RS04	400 W Servo Drive, Pulse + Modbus RTU RS485
S0M060F0400FDX	400 W Motor Without Brake, 17 Bit encoder, 1.27 Nm, 3000 rpm, IP67, 60 flange, 14 mm shaft
S0M060F0400FDB	400 W Motor With Brake, 17 Bit encoder, 1.27 Nm, 3000 rpm, IP67, 60 flange, 14 mm shaft
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5 m)
CM10S-D	Motor Cable (10mt)
CE10S-D	Incremental Encoder Cable (10mt)
CM10S-D-B	Brake Motor Cable (10mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)

	DESCRIPTIONS	PRODUCT CODE / SET CONTENTS
Incremental 400W	Without Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS04 + S0M06F0400FDX + CM05S-D + CE05S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS04 + S0M06F0400FDB + CM05S-D-B + CE05S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS04 + S0M06F0400FDX + CM10S-D + CE10S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS04 + S0M06F0400FDB + CM10S-D-B + CE10S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS04 + S0M06F0400FDX + CM15S-D + CE15S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS04 + S0M06F0400FDB + CM15S-D-B + CE15S-D)

PRODUCT CODE	DESCRIPTIONS
SD6RS07	750 W Servo Drive, Pulse + Modbus RTU RS485
S0M080F0750FDX	750 W Motor Without Brake, 17 Bit encoder, 2.39 Nm, 3000 rpm, IP67, 80 flange, 19 mm shaft
S0M080F0750FDB	750 W Motor With Brake, 17 Bit encoder, 2.39 Nm, 3000 rpm, IP67, 80 flange, 19 mm shaft
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5 m)
CM10S-D	Motor Cable (10mt)
CE10S-D	Incremental Encoder Cable (10mt)
CM10S-D-B	Brake Motor Cable (10mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)

	DESCRIPTIONS	PRODUCT CODE / SET CONTENTS
Incremental 750W	With Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS07+S0M080F0750FDX+CM05S-D+CE05S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS07+S0M080F0750FDB+CM05S-D-B+CE05S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS07+S0M080F0750FDX+CM10S-D+CE10S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS07+S0M080F0750FDB+CM10S-D-B+CE10S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS07+S0M080F0750FDX+CM15S-D+CE15S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS07+S0M080F0750FDB+CM15S-D-B+CE15S-D)

SD6 SERVO SYSTEMS / SINGLE PHASE 220VAC

PRODUCT CODE	DESCRIPTIONS
SD6RS10	1000 W Servo Drive, Pulse + Modbus RTU RS485
S0M080F1000FDX	1000 W Motor Without Brake, 17 Bit encoder, 3.18 Nm, 3000 rpm, IP67, 80 flange, 19 mm shaft
S0M080F1000FDB	1000 W Motor With Brake, 17 Bit encoder, 3.18 Nm, 3000 rpm, IP67, 80 flange, 19 mm shaft
CM05S-D	Motor Cable (5mt)
CE05S-D	Incremental Encoder Cable (5mt)
CM05S-D-B	Brake Motor Cable (5mt)
CM10S-D	Motor Cable (10mt)
CE10S-D	Incremental Encoder Cable (10mt)
CM10S-D-B	Brake Motor Cable (10mt)
CM15S-D	Motor Cable (15mt)
CE15S-D	Incremental Encoder Cable (15mt)
CM15S-D-B	Brake Motor Cable (15mt)

	DESCRIPTIONS	PRODUCT CODE / SET CONTENTS
Incremental 1000W	Without Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS10+S0M080F1000FDX+CM05S-D+CE05S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 5 m Set	(SD6RS10+S0M080F1000FDB+CM05S-D-B+CE05S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS10+S0M080F1000FDX+CM10S-D+CE10S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 10 m Set	(SD6RS10+S0M080F1000FDB+CM10S-D-B+CE10S-D)
	Without Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS10+S0M080F1000FDX+CM15S-D+CE15S-D)
	With Brake – RS485 + Pulse – Incremental Encoder – 15 m Set	(SD6RS10+S0M080F1000FDB+CM15S-D-B+CE15S-D)

BRAKING RESISTOR MODEL	DRIVE MODEL	BRAKING RESISTANCE (Ω)	BRAKING RESISTOR POWER (W)
BRA0750/060	SD1EC/SD7RS04/SD6RS04	60	750
BRA0750/045	SD2EC/SD7RS07/SD06RS07	45	750
BRA0750/045	SD3EC/SD7RS10/SD6RS10	45	750
BRA0750/045	SD4EC/SDRS15	45	750
BRA0750/045	SD5EC/SD7RS20	45	750
BRA03000/032	SD7EC30H/SD7RS30H	32	3000
BRA03000/032	SD7EC44H/SD7RS44H	32	3000
BRA03000/032	SD7EC55H/SD7RS55H	32	3000
BRA03000/032	SD7EC75H/SD7RS75H	32	3000

SD7 SERIES SERVO SYSTEMS



SD7 SERIES SERVO SYSTEMS

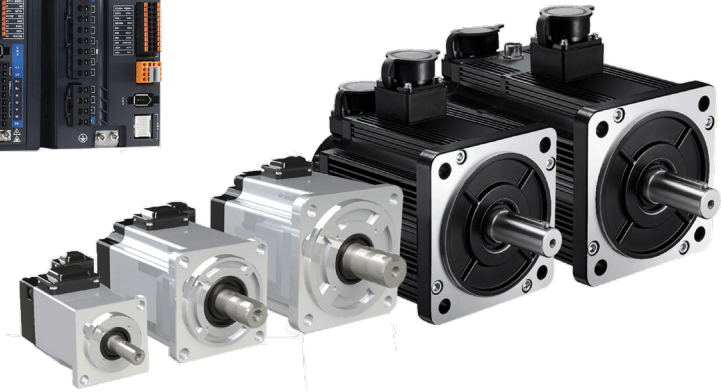


EtherCAT®

Modbus

PULS

ANALOG



SD7 SERIES SERVO SYSTEMS

High-performance SD7 Series Servo Motors and Drives offer a compact design, Position / Speed / Torque control modes, and high performance. They provide solutions for machine manufacturers in applications such as testing equipment, press machines, cutting, filling, packaging, plastics, and food industries. Automatic motor recognition, USB programming, and One-Click Tune functionality ensure user-friendly operation.

Technical Specifications

- Single-phase 220 V (-15% ~ +10%), 50/60 Hz
- Three-phase 380-400 V (-15% ~ +10%), 50/60 Hz
- Power range: 400 W – 7.5 kW
- Position / Speed / Torque control modes
- Mode switching capability between control modes
- Easy setup and flexible control
- Automatic motor recognition
- Communication: Modbus RTU (RS485) / EtherCAT
- 23 Bit absolute / incremental encoder
- Built-in braking resistor
- Parameter configuration via PC software or built-in keypad and display
- USB Type-C connection terminal for PC
- 8 digital inputs
- 5 digital outputs
- Pulse input:
 - 5 V (500 kHz)
 - 24 V (200 kHz)
- 2 analog inputs (-10 V to +10 VDC)
- 1 analog output (-10 V to +10 VDC)
- Auto-tuning
- Zero-speed holding function
- Black box function for fault analysis
- Protection functions:
 - Overcurrent
 - Overvoltage
 - Undervoltage
 - Overtemperature
 - Overload
 - Encoder error
 - Overspeed protection

SD7 SERVO SYSTEMS / 100W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS04	400W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD1EC	400W EtherCAT Servo Drive
S2M040F0100ADX	100W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 1.32 Nm, 3000 rpm, IP67, 60 mm Flange, 8 mm Shaft Diameter
S2M040F0100ADB	100W Brake Servo Motor, 23 Bit Absolute Encoder, 0,32 Nm, 3000 rpm, IP67, 60 mm Flange, 8 mm Shaft Diameter
CM05S-D	Motor Cable (5 m)
CE05S-D	Incremental Encoder Cable (5 m)
CM05S-D-B	Brake Motor Cable (5 m)
CE05S-D-A	Absolute Encoder Cable (5m)
CM10S-D	Motor Cable (10 m)
CE10S-D	Incremental Encoder Cable (10 m)
CM10S-D-B	Brake Motor Cable (10 m)
CE10S-D-A	Absolute Encoder Cable (10 m)
CM15S-D	Motor Cable (15 m)
CE15S-D	Incremental Encoder Cable (15m)
CM15S-D-B	Brake Motor Cable (15m)
CE15S-D-A	Absolute Encoder Cable (15m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Without Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS04 + S2M040F0100ADX + CM05S-D + CE05S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS04 + S2M040F0100ADB + CM05S-D-B + CE05S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS04 + S2M040F0100ADX + CM10S-D + CE10S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS04 + S2M040F0100ADB + CM10S-D-B + CE10S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS04 + S2M040F0100ADX + CM15S-D + CE15S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS04 + S2M040F0100ADB + CM15S-D-B + CE15S-D)
	Absolute	Without Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS04 + S2M040F0100ADX + CM05S-D + CE05S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS04 + S2M040F0100ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS04 + S2M040F0100ADX + CM10S-D + CE10S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS04 + S2M040F0100ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS04 + S2M040F0100ADX + CM15S-D + CE15S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS04 + S2M040F0100ADB + CM15S-D-B + CE15S-D-A)
EtherCat	Incremental	Without Brake - EtherCAT - Incremental Encoder - 5 m Set	(SD1EC + S2M040F0100ADX + CM05S-D + CE05S-D)
		With Brake - EtherCAT - Incremental Encoder - 5 m Set	(SD1EC + S2M040F0100ADB + CM05S-D-B + CE05S-D)
		Without Brake - EtherCAT - Incremental Encoder - 10 m Set	(SD1EC + S2M040F0100ADX + CM10S-D + CE10S-D)
		With Brake - EtherCAT - Incremental Encoder - 10 m Set	(SD1EC + S2M040F0100ADB + CM10S-D-B + CE10S-D)
		Without Brake - EtherCAT - Incremental Encoder - 15 m Set	(SD1EC + S2M040F0100ADX + CM15S-D + CE15S-D)
		With Brake - EtherCAT - Incremental Encoder - 15 m Set	(SD1EC + S2M040F0100ADB + CM15S-D-B + CE15S-D)
	Absolute	Without Brake - EtherCAT - Absolute Encoder - 5 m Set	(SD1EC + S2M040F0100ADX + CM05S-D + CE05S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 5 m Set	(SD1EC + S2M040F0100ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - EtherCAT - Absolute Encoder - 10 m Set	(SD1EC + S2M040F0100ADX + CM10S-D + CE10S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 10 m Set	(SD1EC + S2M040F0100ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - EtherCAT - Absolute Encoder - 15 m Set	(SD1EC + S2M040F0100ADX + CM15S-D + CE15S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 15 m Set	(SD1EC + S2M040F0100ADB + CM15S-D-B + CE15S-D-A)

SD7 SERVO SYSTEMS / 200W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS04	400W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD1EC	400W EtherCAT Servo Drive
S2M060F0200ADX	200W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 0,64 Nm, 3000 rpm, IP67, 60 mm Flange, 14 mm Shaft Diameter
S2M060F0200ADB	200W Brake Servo Motor, 23 Bit Absolute Encoder, 0,64 Nm, 3000 rpm, IP67, 60 mm Flange, 14 mm Shaft Diameter
CM05S-D	Motor Cable (5 m)
CE05S-D	Incremental Encoder Cable (5 m)
CM05S-D-B	Brake Motor Cable (5 m)
CE05S-D-A	Absolute Encoder Cable (5m)
CM10S-D	Motor Cable (10 m)
CE10S-D	Incremental Encoder Cable (10 m)
CM10S-D-B	Brake Motor Cable (10 m)
CE10S-D-A	Absolute Encoder Cable (10 m)
CM15S-D	Motor Cable (15 m)
CE15S-D	Incremental Encoder Cable (15m)
CM15S-D-B	Brake Motor Cable (15m)
CE15S-D-A	Absolute Encoder Cable (15m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Without Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS04 + S2M060F0200ADX + CM05S-D + CE05S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS04 + S2M060F0200ADB + CM05S-D-B + CE05S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS04 + S2M060F0200ADX + CM10S-D + CE10S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS04 + S2M060F0200ADB + CM10S-D-B + CE10S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS04 + S2M060F0200ADX + CM15S-D + CE15S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS04 + S2M060F0200ADB + CM15S-D-B + CE15S-D)
	Absolute	Without Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS04 + S2M060F0200ADX + CM05S-D + CE05S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS04 + S2M060F0200ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS04 + S2M060F0200ADX + CM10S-D + CE10S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS04 + S2M060F0200ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS04 + S2M060F0200ADX + CM15S-D + CE15S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS04 + S2M060F0200ADB + CM15S-D-B + CE15S-D-A)
EtherCat	Incremental	Without Brake - EtherCAT - Incremental Encoder - 5 m Set	(SD1EC + S2M060F0200ADX + CM05S-D + CE05S-D)
		With Brake - EtherCAT - Incremental Encoder - 5 m Set	(SD1EC + S2M060F0200ADB + CM05S-D-B + CE05S-D)
		Without Brake - EtherCAT - Incremental Encoder - 10 m Set	(SD1EC + S2M060F0200ADX + CM10S-D + CE10S-D)
		With Brake - EtherCAT - Incremental Encoder - 10 m Set	(SD1EC + S2M060F0200ADB + CM10S-D-B + CE10S-D)
		Without Brake - EtherCAT - Incremental Encoder - 15 m Set	(SD1EC + S2M060F0200ADX + CM15S-D + CE15S-D)
		With Brake - EtherCAT - Incremental Encoder - 15 m Set	(SD1EC + S2M060F0200ADB + CM15S-D-B + CE15S-D)
	Absolute	Without Brake - EtherCAT - Absolute Encoder - 5 m Set	(SD1EC + S2M060F0200ADX + CM05S-D + CE05S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 5 m Set	(SD1EC + S2M060F0200ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - EtherCAT - Absolute Encoder - 10 m Set	(SD1EC + S2M060F0200ADX + CM10S-D + CE10S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 10 m Set	(SD1EC + S2M060F0200ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - EtherCAT - Absolute Encoder - 15 m Set	(SD1EC + S2M060F0200ADX + CM15S-D + CE15S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 15 m Set	(SD1EC + S2M060F0200ADB + CM15S-D-B + CE15S-D-A)

SD7 SERVO SYSTEMS / 400W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS04	400W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD1EC	400W EtherCAT Servo Drive
S2M060F0400ADX	400W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 1.27 Nm, 3000 rpm, IP67, 60 mm Flange, 14 mm Shaft Diameter
S2M060F0400ADB	400W Brake Servo Motor, 23 Bit Absolute Encoder, 1.27 Nm, 3000 rpm, IP67, 60 mm Flange, 14 mm Shaft Diameter
CM05S-D	Motor Cable (5 m)
CE05S-D	Incremental Encoder Cable (5 m)
CM05S-D-B	Brake Motor Cable (5 m)
CE05S-D-A	Absolute Encoder Cable (5m)
CM10S-D	Motor Cable (10 m)
CE10S-D	Incremental Encoder Cable (10 m)
CM10S-D-B	Brake Motor Cable (10 m)
CE10S-D-A	Absolute Encoder Cable (10 m)
CM15S-D	Motor Cable (15 m)
CE15S-D	Incremental Encoder Cable (15m)
CM15S-D-B	Brake Motor Cable (15m)
CE15S-D-A	Absolute Encoder Cable (15m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Without Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADX + CM05S-D + CE05S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADB + CM05S-D-B + CE05S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADX + CM10S-D + CE10S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADB + CM10S-D-B + CE10S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7R04 + S2M060F0400ADX + CM15S-D + CE15S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS04 + S2M060F0400ADB + C15S-D-B + CE15S-D)
	Absolute	Without Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADX + CM05S-D + CE05S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADX + CM10S-D + CE10S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS04 + S2M060F0400ADX + CM15S-D + CE15S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS04 + S2M060F0400ADB + CM15S-D-B + CE15S-D-A)
EtherCat	Incremental	Without Brake - EtherCAT - Incremental Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADX + CM05S-D + CE05S-D)
		With Brake - EtherCAT - Incremental Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADB + CM05S-D-B + CE05S-D)
		Without Brake - EtherCAT - Incremental Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADX + CM10S-D + CE10S-D)
		With Brake - EtherCAT - Incremental Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADB + CM10S-D-B + CE10S-D)
		Without Brake - EtherCAT - Incremental Encoder - 15 m Set	(SD7R04 + S2M060F0400ADX + CM15S-D + CE15S-D)
		With Brake - EtherCAT - Incremental Encoder - 15 m Set	(SD7RS04 + S2M060F0400ADB + C15S-D-B + CE15S-D)
	Absolute	Without Brake - EtherCAT - Absolute Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADX + CM05S-D + CE05S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 5 m Set	(SD7RS04 + S2M060F0400ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - EtherCAT - Absolute Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADX + CM10S-D + CE10S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 10 m Set	(SD7RS04 + S2M060F0400ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - EtherCAT - Absolute Encoder - 15 m Set	(SD7RS04 + S2M060F0400ADX + CM15S-D + CE15S-D-A)
		With Brake - EtherCAT - Absolute Encoder - 15 m Set	(SD7RS04 + S2M060F0400ADB + CM15S-D-B + CE15S-D-A)

SD7 SERVO SYSTEMS / 750W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS07	750W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD2EC	750W EtherCAT Servo Drive
S2M080F0750ADX	750W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 2.39 Nm, 3000 rpm, IP67, 80 mm Flange, 19 mm Shaft Diameter
S2M080F0750ADB	750W Brake Servo Motor, 23 Bit Absolute Encoder, 2.39 Nm, 3000 rpm, IP67, 80 mm Flange, 19 mm Shaft Diameter
CM05S-D	Motor Cable (5 m)
CE05S-D	Incremental Encoder Cable (5 m)
CM05S-D-B	Brake Motor Cable (5 m)
CE05S-D-A	Motor Cable (10 m)
CM10S-D	Incremental Encoder Cable (10 m)
CE10S-D	Brake Motor Cable (10 m)
CM10S-D-B	Absolute Encoder Cable (10 m)
CE10S-D-A	Motor Cable (15 m)
CM15S-D	Incremental Encoder Cable (15 m)
CE15S-D	Brake Motor Cable (15 m)
CM15S-D-B	Absolute Encoder Cable (15 m)
CE15S-D-A	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Without Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS07 + S2M080F0750ADX + CM05S-D + CE05S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 5 m Set	(SD7RS07 + S2M080F0750ADB + CM05S-D-B + CE05S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS07 + S2M080F0750ADX + CM10S-D + CE10S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 10 m Set	(SD7RS07 + S2M080F0750ADB + CM10S-D-B + CE10S-D)
		Without Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS07 + S2M080F0750ADX + CM15S-D + CE15S-D)
		With Brake - RS485 + Pulse - Incremental Encoder - 15 m Set	(SD7RS07 + S2M080F0750ADB + CM15S-D-B + CE15S-D)
	Absolute	Without Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS07 + S2M080F0750ADX + CM05S-D + CE05S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 5 m Set	(SD7RS07 + S2M080F0750ADB + CM05S-D-B + CE05S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS07 + S2M080F0750ADX + CM10S-D + CE10S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 10 m Set	(SD7RS07 + S2M080F0750ADB + CM10S-D-B + CE10S-D-A)
		Without Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS07 + S2M080F0750ADX + CM15S-D + CE15S-D-A)
		With Brake - RS485 + Pulse - Absolute Encoder - 15 m Set	(SD7RS07 + S2M080F0750ADB + CM15S-D-B + CE15S-D-A)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD2EC + S2M080F0750ADX + CM05S-D + CE05S-D)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD2EC + S2M080F0750ADB + CM05S-D-B + CE05S-D)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD2EC + S2M080F0750ADX + CM10S-D + CE10S-D)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD2EC + S2M080F0750ADB + CM10S-D-B + CE10S-D)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD2EC + S2M080F0750ADX + CM15S-D + CE15S-D)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD2EC + S2M080F0750ADB + CM15S-D-B + CE15S-D)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD2EC + S2M080F0750ADX + CM05S-D + CE05S-D-A)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD2EC + S2M080F0750ADB + CM05S-D-B + CE05S-D-A)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD2EC + S2M080F0750ADX + CM10S-D + CE10S-D-A)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD2EC + S2M080F0750ADB + CM10S-D-B + CE10S-D-A)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD2EC + S2M080F0750ADX + CM15S-D + CE15S-D-A)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD2EC + S2M080F0750ADB + CM15S-D-B + CE15S-D-A)

SD7 SERVO SYSTEMS / 850W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS10	1000W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD3EC	1000W EtherCAT Servo Drive
S2M130F0850X-TS	850W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 5.4 Nm, 1500 rpm, 130 mm Flange, 22 mm Shaft Diameter
S2M130F0850B-TS	850W Brake Servo Motor, 23 Bit Absolute Encoder, 5.4 Nm, 1500 rpm, 130 mm Flange, 22 mm Shaft Diameter
CM05H-TS	Motor Cable (5 m)
CE05H-TS	Incremental Encoder Cable (5 m)
CM05H-B-TS	Brake Motor Cable (5 m)
CE05H-A-TS	Absolute Encoder Cable (5 m)
CM10H-TS	Motor Cable (10 m)
CE10H-TS	Incremental Encoder Cable (10 m)
CM10H-B-TS	Brake Motor Cable (10 m)
CE10H-A-TS	Absolute Encoder Cable (10 m)
CM15H-TS	Motor Cable (15 m)
CE15H-TS	Incremental Encoder Cable (15 m)
CM15H-B-TS	Brake Motor Cable (15 m)
CE15H-A-TS	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS10 + SM130F0850X-TS + CM05H-TS + CE05H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS10 + SM130F0850B-TS + CM05H-B-TS + CE05H-TS)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS10 + S2M130F0850X-TS + CM10H-TS + CE10H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS10 + S2M130F0850B-TS + CM10H-B-TS + CE10H-TS)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS10 + S2M130F0850X-TS + CM15H-TS + CE15H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS10 + S2M130F0850B-TS + CM15H-B-TS + CE15H-TS)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS10 + S2M130F0850X-TS + CM05H-TS + CE05H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS10 + S2M130F0850B-TS + CM05H-B-TS + CE05H-A-TS)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS10 + S2M130F0850X-TS + CM10H-TS + CE10H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS10 + S2M130F0850B-TS + CM10H-B-TS + CE10H-A-TS)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS10 + S2M130F0850X-TS + CM15H-TS + CE15H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS10 + S2M130F0850B-TS + CM15H-B-TS + CE15H-A-TS)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD3EC + S2M130F0850X-TS + CM05H-TS + CE05H-TS)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD3EC + S2M130F0850B-TS + CM05H-B-TS + CE05H-TS)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD3EC + S2M130F0850X-TS + CM10H-TS + CE10H-TS)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD3EC + S2M130F0850B-TS + CM10H-B-TS + CE10H-TS)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD3EC + S2M130F0850X-TS + CM15H-TS + CE15H-TS)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD3EC + S2M130F0850B-TS + CM15H-B-TS + CE15H-TS)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD3EC + S2M130F0850X-TS + CM05H-TS + CE05H-A-TS)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD3EC + S2M130F0850B-TS + CM05H-B-TS + CE05H-A-TS)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD3EC + S2M130F0850X-TS + CM10H-TS + CE10H-A-TS)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD3EC + S2M130F0850B-TS + CM10H-B-TS + CE10H-A-TS)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD3EC + S2M130F0850X-TS + CM15H-TS + CE15H-A-TS)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD3EC + S2M130F0850B-TS + CM15H-B-TS + CE15H-A-TS)

SD7 SERVO SYSTEMS / 1300W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS15	1500W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD4EC	1500W EtherCAT Servo Drive
S2M130F1300X-TS	1300W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 8.4 Nm, 1500 rpm, 130 mm Flange, 22 mm Shaft Diameter
S2M130F1300B-TS	1300W Brake Servo Motor, 23 Bit Absolute Encoder, 8.4 Nm, 1500 rpm, 130 mm Flange, 22 mm Shaft Diameter
CM05H-TS	Motor Cable (5 m)
CE05H-TS	Incremental Encoder Cable (5 m)
CM05H-B-TS	Brake Motor Cable (5 m)
CE05H-A-TS	Absolute Encoder Cable (5 m)
CM10H-TS	Motor Cable (10 m)
CE10H-TS	Incremental Encoder Cable (10 m)
CM10H-B-TS	Brake Motor Cable (10 m)
CE10H-A-TS	Absolute Encoder Cable (10 m)
CM15H-TS	Motor Cable (15 m)
CE15H-TS	Incremental Encoder Cable (15 m)
CM15H-B-TS	Brake Motor Cable (15 m)
CE15H-A-TS	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS15 + S2M130F1300X-TS + CM05H-TS + CE05H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS15 + S2M130F1300B-TS+CM05H-B-TS + CE05H-TS)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS15 + S2M130F1300X-TS + CM10H-TS + CE10H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS15 + S2M130F1300B-TS + CM10H-B-TS+CE10H-TS)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS15 + S2M130F1300X-TS + CM15H-TS + CE15H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS15 + S2M130F1300B-TS + CM15H-B-TS + CE15H-TS)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS15 + S2M130F1300X-TS + CM05H-TS + CE05H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS15 + S2M130F1300B-TS + CM05H-B-TS + CE05H-A-TS)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS15 + S2M130F1300X-TS + CM10H-TS + CE10H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS15 + S2M130F1300B-TS + CM10H-B-TS + CE10H-A-TS)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS15 + S2M130F1300X-TS + CM15H-TS + CE15H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS15 + S2M130F1300B-TS + CM15H-B-TS + CE15H-A-TS)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD4EC + S2M130F1300X-TS + CM05H-TS + CE05H-TS)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD4EC + S2M130F1300B-TS + CM05H-B-TS + CE05H-TS)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD4EC + S2M130F1300X-TS + CM10H-TS + CE10H-TS)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD4EC + S2M130F1300X-TS + CM10H-TS + CE10H-TS)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD4EC + S2M130F1300X-TS + CM15H-TS + CE15H-TS)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD4EC + S2M130F1300B-TS + CM15H-B-TS + CE15H-TS)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD4EC + S2M130F1300X-TS + CM05H-TS + CE05H-A-TS)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD4EC + S2M130F1300B-TS + CM05H-B-TS + CE05H-A-TS)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD4EC + S2M130F1300X-TS + CM10H-TS + CE10H-A-TS)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD4EC + S2M130F1300B-TS+CM10H-B-TS + CE10H-A-TS)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD4EC + S2M130F1300X-TS + CM15H-TS + CE15H-A-TS)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD4EC + S2M130F1300B-TS + CM15H-B-TS + CE15H-A-TS)

SD7 SERVO SYSTEMS / 1800W (SINGLE PHASE 220VAC)

PRODUCT CODE	DESCRIPTION
SD7RS20	2000W Servo Drive, Pulse/Direction + Analog + Modbus RTU RS485
SD5EC	2000W EtherCAT Servo Drive
S2M130F1800X-TS	1800W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 11.5 Nm, 1500 rpm, 130 mm Flange, 24 mm Shaft Diameter
S2M130F1800B-TS	1800W Brake Servo Motor, 23 Bit Absolute Encoder, 11.5 Nm, 1500 rpm, 130 mm Flange, 24 mm Shaft Diameter
CM05H-TS	Motor Cable (5 m)
CE05H-TS	Incremental Encoder Cable (5 m)
CM05H-B-TS	Brake Motor Cable (5 m)
CE05H-A-TS	Absolute Encoder Cable (5 m)
CM10H-TS	Motor Cable (10 m)
CE10H-TS	Incremental Encoder Cable (10 m)
CM10H-B-TS	Brake Motor Cable (10 m)
CE10H-A-TS	Absolute Encoder Cable (10 m)
CM15H-TS	Motor Cable (15 m)
CE15H-TS	Incremental Encoder Cable (15 m)
CM15H-B-TS	Brake Motor Cable (15 m)
CE15H-A-TS	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS20+S2M130F1800X-TS+CM05H-TS+CE05H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS20+S2M130F1800B-TS+CM05H-B-TS+CE05H-TS)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS20+S2M130F1800B-TS+CM10H-B-TS+CE10H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS20 + SM130F1800B + CM15H + CE15H + BC05H)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS20+S2M130F1800X-TS+CM15H-TS+CE15H-TS)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS20+S2M130F1800B-TS+CM15H-B-TS+CE15H-TS)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS20+S2M130F1800X-TS+CM05H-TS+CE05H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS20+S2M130F1800B-TS+CM05H-B-TS+CE05H-A-TS)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS20+S2M130F1800X-TS+CM10H-TS+CE10H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS20+S2M130F1800B-TS+CM10H-B-TS+CE10H-A-TS)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS20+S2M130F1800X-TS+CM15H-TS+CE15H-A-TS)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS20+S2M130F1800B-TS+CM15H-B-TS+CE15H-A-TS)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD5EC+S2M130F1800X-TS+CM05H-TS+CE05H-TS)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD5EC+S2M130F1800B-TS+CM05H-B-TS+CE05H-TS)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD5EC+S2M130F1800X-TS+CM10H-TS+CE10H-TS)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD5EC+S2M130F1800X-TS+CM10H-TS+CE10H-TS)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD5EC+S2M130F1800X-TS+CM15H-TS+CE15H-TS)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD5EC+S2M130F1800B-TS+CM15H-B-TS+CE15H-TS)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD5EC+S2M130F1800X-TS+CM05H-TS+CE05H-A-TS)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD5EC+S2M130F1800B-TS+CM05H-B-TS+CE05H-A-TS)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD5EC+S2M130F1800X-TS+CM10H-TS+CE10H-A-TS)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD5EC+S2M130F1800B-TS+CM10H-B-TS+CE10H-A-TS)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD5EC+S2M130F1800X-TS+CM15H-TS+CE15H-A-TS)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD5EC+S2M130F1800B-TS+CM15H-B-TS+CE15H-A-TS)

SD7 SERVO SYSTEMS / 2900W (THREE PHASE 380VAC)

PRODUCT CODE	DESCRIPTION
SD7RS30H	3000W Servo Drive, 3×380 VAC, Pulse/Direction + Analog + Modbus RTU RS485
SD7EC30H	3000W EtherCAT Servo Drive, 3×380 VAC
S2M180F2900XH	2900W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 18.6 Nm, 1500 rpm, 180 mm Flange, 35 mm Shaft Diameter
S2M180F2900BH	2900W Brake Servo Motor, 23 Bit Absolute Encoder, 18.6 Nm, 1500 rpm, 180 mm Flange, 35 mm Shaft Diameter
CM05HB380	Motor Cable (5 m)
CM10HB380	Motor Cable (10 m)
CM15HB380	Motor Cable (15 m)
CE05H380	Incremental Encoder Cable (5 m)
CE10H380	Incremental Encoder Cable (10 m)
CE15H380	Incremental Encoder Cable (15 m)
BC05H380	Brake Cable (5 m)
BC10H380	Brake Cable (10 m)
BC15H380	Brake Cable (15 m)
CE05H380-AB	Absolute Encoder Cable (5 m)
CE10H380-AB	Absolute Encoder Cable (10 m)
CE15H380-AB	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS30H + S2M180F2900XH + CM05HB380 + CE05H380)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS30H + S2M180F2900BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS30H + S2M180F2900XH + CM10HB380 + CE10H380)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS30H + S2M180F2900BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS30H + S2M180F2900XH + CM15HB380 + CE15H380)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS30H + S2M180F2900BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS30H + S2M180F2900XH + CM05HB380 + CE05H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS30H + S2M180F2900BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS30H + S2M180F2900XH + CM10HB380 + CE10H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS30H + S2M180F2900BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS30H + S2M180F2900XH + CM15HB380 + CE15H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS30H + S2M180F2900BH + CM15HB380 + BC15H380 + CE15H380-AB)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD7EC30H + S2M180F2900XH + CM05HB380 + CE05H380)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD7EC30H + S2M180F2900BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD7EC30H + S2M180F2900XH + CM10HB380 + CE10H380)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD7EC30H + S2M180F2900BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD7EC30H + S2M180F2900XH + CM15HB380 + CE15H380)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD7EC30H + S2M180F2900BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD7EC30H + S2M180F2900XH + CM05HB380 + CE05H380-AB)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD7EC30H + S2M180F2900BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD7EC30H + S2M180F2900XH + CM10HB380 + CE10H380-AB)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD7EC30H + S2M180F2900BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD7EC30H + S2M180F2900XH + CM15HB380 + CE15H380-AB)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD7EC30H + S2M180F2900BH + CM15HB380 + BC15H380 + CE15H380-AB)

SD7 SERVO SYSTEMS / 4400W (THREE PHASE 380VAC)

PRODUCT CODE	DESCRIPTION
SD7RS44H	4400W Servo Drive, 3×380 VAC, Pulse/Direction + Analog + Modbus RTU RS485
SD7EC44H	4400W EtherCAT Servo Drive, 3×380 VAC
S2M180F4400XH	4400W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 28.6 Nm, 1500 rpm, 180 mm Flange, 35 mm Shaft Diameter
S2M180F4400BH	4400W Brake Servo Motor, 23 Bit Absolute Encoder, 28.6 Nm, 1500 rpm, 180 mm Flange, 35 mm Shaft Diameter
CM05HB380	Motor Cable (5 m)
CM10HB380	Motor Cable (10 m)
CM15HB380	Motor Cable (15 m)
CE05H380	Incremental Encoder Cable (5 m)
CE10H380	Incremental Encoder Cable (10 m)
CE15H380	Incremental Encoder Cable (15 m)
BC05H380	Brake Cable (5 m)
BC10H380	Brake Cable (10 m)
BC15H380	Brake Cable (15 m)
CE05H380-AB	Absolute Encoder Cable (5 m)
CE10H380-AB	Absolute Encoder Cable (10 m)
CE15H380-AB	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS44H + S2M180F4400XH + CM05HB380 + CE05H380)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS44H + S2M180F4400BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS44H + S2M180F4400XH + CM10HB380 + CE10H380)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS44H + S2M180F4400BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS44H + S2M180F4400XH + CM15HB380 + CE15H380)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS44H + S2M180F4400BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS44H + S2M180F4400XH + CM05HB380 + CE05H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS44H + S2M180F4400BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS44H + S2M180F4400XH + CM10HB380 + CE10H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS44H + S2M180F4400BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS44H + S2M180F4400XH + CM15HB380 + CE15H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS44H + S2M180F4400BH + CM15HB380 + BC15H380 + CE15H380-AB)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD7EC44H + S2M180F4400XH + CM05HB380 + CE05H380)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD7EC44H + S2M180F4400BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD7EC44H + S2M180F4400XH + CM10HB380 + CE10H380)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD7EC44H + S2M180F4400BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD7EC44H + S2M180F4400XH + CM15HB380 + CE15H380)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD7EC44H + S2M180F4400BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD7EC44H + S2M180F4400XH + CM05HB380 + CE05H380-AB)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD7EC44H + S2M180F4400BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD7EC44H + S2M180F4400XH + CM10HB380 + CE10H380-AB)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD7EC44H + S2M180F4400BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD7EC44H + S2M180F4400XH + CM15HB380 + CE15H380-AB)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD7EC44H + S2M180F4400BH + CM15HB380 + BC15H380 + CE15H380-AB)

SD7 SERVO SYSTEMS / 5500W (THREE PHASE 380VAC)

PRODUCT CODE	DESCRIPTION
SD7RS55H	5500W Servo Drive, 3×380 VAC, Pulse/Direction + Analog + Modbus RTU RS485
SD7EC55H	5500W EtherCAT Servo Drive, 3×380 VAC
S2M180F5500XH	5500W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 35 Nm, 1500 rpm, 180 mm Flange, 42 mm Shaft Diameter
S2M180F5500BH	5500W Brake Servo Motor, 23 Bit Absolute Encoder, 35 Nm, 1500 rpm, 180 mm Flange, 42 mm Shaft Diameter
CM05HB380	Motor Cable (5 m)
CM10HB380	Motor Cable (15 m)
CM15HB380	Incremental Encoder Cable (5 m)
CE05H380	Incremental Encoder Cable (15 m)
CE10H380	Brake Cable (5 m)
CE15H380	Brake Cable (15 m)
BC05H380	Absolute Encoder Cable (5 m)
BC10H380	Absolute Encoder Cable (15 m)
BC15H380	Brake Cable (15 m)
CE05H380-AB	Absolute Encoder Cable (5 m)
CE10H380-AB	Absolute Encoder Cable (10 m)
CE15H380-AB	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7EC44H + S2M180F4400XH + CM05HB380 + CE05H380-AB)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7EC44H + S2M180F4400BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7EC44H + S2M180F4400XH + CM10HB380 + CE10H380-AB)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7EC44H + S2M180F4400BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7EC44H + S2M180F4400XH + CM15HB380 + CE15H380-AB)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7EC44H + S2M180F4400BH + CM15HB380 + BC15H380 + CE15H380-AB)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS55H + S2M180F5500XH + CM05HB380 + CE05H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS55H + S2M180F5500BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS55H + S2M180F5500XH + CM10HB380 + CE10H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS55H + S2M180F5500BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS55H + S2M180F5500XH + CM15HB380 + CE15H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS55H + S2M180F5500BH + CM15HB380 + BC15H380 + CE15H380-AB)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD7EC55H + S2M180F5500XH + CM05HB380 + CE05H380)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD7EC55H + S2M180F5500BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD7EC55H + S2M180F5500XH + CM10HB380 + CE10H380)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD7EC55H + S2M180F5500BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD7EC55H + S2M180F5500XH + CM15HB380 + CE15H380)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD7EC55H + S2M180F5500BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD7EC55H + S2M180F5500XH + CM05HB380 + CE05H380-AB)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD7EC55H + S2M180F5500BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD7EC55H + S2M180F5500XH + CM10HB380 + CE10H380-AB)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD7EC55H + S2M180F5500BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD7EC55H + S2M180F5500XH + CM15HB380 + CE15H380-AB)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD7EC55H + S2M180F5500BH + CM15HB380 + BC15H380 + CE15H380-AB)

SD7 SERVO SYSTEMS / 7500W (THREE PHASE 380VAC)

PRODUCT CODE	DESCRIPTION
SD7RS75H	7500W Servo Drive, 3×380 VAC, Pulse/Direction + Analog + Modbus RTU RS485
SD7EC75H	7500W EtherCAT Servo Drive, 3×380 VAC
S2M180F7500XH	7500W Non-Brake Servo Motor, 23 Bit Absolute Encoder, 48 Nm, 1500 rpm, 180 mm Flange, 35 mm Shaft Diameter
S2M180F7500BH	7500W Brake Servo Motor, 23 Bit Absolute Encoder, 48 Nm, 1500 rpm, 180 mm Flange, 35 mm Shaft Diameter
CM05HB380	Motor Cable (5 m)
CM10HB380	Motor Cable (10 m)
CM15HB380	Motor Cable (15 m)
CE05H380	Incremental Encoder Cable (5 m)
CE10H380	Incremental Encoder Cable (10 m)
CE15H380	Incremental Encoder Cable (15 m)
BC05H380	Brake Cable (5 m)
BC10H380	Brake Cable (10 m)
BC15H380	Brake Cable (15 m)
CE05H380-AB	Absolute Encoder Cable (5 m)
CE10H380-AB	Absolute Encoder Cable (10 m)
CE15H380-AB	Absolute Encoder Cable (15 m)

		DESCRIPTION	PRODUCT CODE / SET CONTENTS
Modbus RTU + Analog + Pulse/Direction	Incremental	Brake-less RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS75H + S2M180F7500XH + CM05HB380 + CE05H380)
		With Brake RS485 + Pulse + Incremental Encoder 5m Set	(SD7RS75H + S2M180F7500BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS75H + S2M180F7500XH + CM10HB380 + CE10H380)
		With Brake RS485 + Pulse + Incremental Encoder 10m Set	(SD7RS75H + S2M180F7500BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS75H + S2M180F7500XH + CM15HB380 + CE15H380)
		With Brake RS485 + Pulse + Incremental Encoder 15m Set	(SD7RS75H + S2M180F7500BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS75H + S2M180F7500XH + CM05HB380 + CE05H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 5m Set	(SD7RS75H + S2M180F7500BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS75H + S2M180F7500XH + CM10HB380 + CE10H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 10m Set	(SD7RS75H + S2M180F7500BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS75H + S2M180F7500XH + CM15HB380 + CE15H380-AB)
		With Brake RS485 + Pulse + Absolute Encoder 15m Set	(SD7RS75H + S2M180F7500BH + CM15HB380 + BC15H380 + CE15H380-AB)
EtherCat	Incremental	Brake-less EtherCAT + Incremental Encoder 5m Set	(SD7EC55H + S2M180F7500XH + CM05HB380 + CE05H380)
		With Brake EtherCAT + Incremental Encoder 5m Set	(SD7EC55H + S2M180F7500BH + CM05HB380 + BC05H380 + CE05H380)
		Brake-less EtherCAT + Incremental Encoder 10m Set	(SD7EC55H + S2M180F7500XH + CM10HB380 + CE10H380)
		With Brake EtherCAT + Incremental Encoder 10m Set	(SD7EC55H + S2M180F7500BH + CM10HB380 + BC10H380 + CE10H380)
		Brake-less EtherCAT + Incremental Encoder 15m Set	(SD7EC55H + S2M180F7500XH + CM15HB380 + CE15H380)
		With Brake EtherCAT + Incremental Encoder 15m Set	(SD7EC55H + S2M180F7500BH + CM15HB380 + BC15H380 + CE15H380)
	Absolute	Brake-less EtherCAT + Absolute Encoder 5m Set	(SD7EC55H + S2M180F7500XH + CM05HB380 + CE05H380-AB)
		With Brake EtherCAT + Absolute Encoder 5m Set	(SD7EC55H + S2M180F7500BH + CM05HB380 + BC05H380 + CE05H380-AB)
		Brake-less EtherCAT + Absolute Encoder 10m Set	(SD7EC55H + S2M180F7500XH + CM10HB380 + CE10H380-AB)
		With Brake EtherCAT + Absolute Encoder 10m Set	(SD7EC55H + S2M180F7500BH + CM10HB380 + BC10H380 + CE10H380-AB)
		Brake-less EtherCAT + Absolute Encoder 15m Set	(SD7EC55H + S2M180F7500XH + CM15HB380 + CE15H380-AB)
		With Brake EtherCAT + Absolute Encoder 15m Set	(SD7EC55H + S2M180F7500BH + CM15HB380 + BC15H380 + CE15H380-AB)

ACCESSORIES

PRODUCT CODE	DESCRIPTION
S-36E-C	Dual-Connector Servo I/O Cable
S-BT-36	Dual-Socket Servo I/O Terminal

STEP MOTORS & DRIVERS



STEP MOTORS & DRIVERS

PULSE INPUT MODELS

PRODUCT CODE	DESCRIPTION	NEMA
GSTD2542	24-48 VDC 4.2A Stepper Driver	
GSTD2556	24-60 VDC 5.6A Stepper Driver	
GSTM4218-048-810	42 Flange, 1.0A, 0.34Nm Stepper Motor	NEMA 17
GSTM5718-080-830	57 Flange, 3.0A, 2.0Nm Stepper Motor	NEMA 23
GSTD2860	18-80 VAC / 24-110 VDC 8.2A Stepper Driver	
GSTM8618-080-842	86 Flange, 4.2A, 4.5Nm Stepper Motor	NEMA 34
GSTM8618-118-842	86 Flange, 4.2A, 8.5Nm Stepper Motor	NEMA 34
GSTM8618-156-845	86 Flange, 4.5A, 12Nm Stepper Motor	NEMA 34
GSTD22280	80-220 VAC 8.4A Stepper Driver	
GSTM11018-115-460	110 Flange, 6.0A, 12Nm Stepper Motor	NEMA 42
GSTM11018-150-460	110 Flange, 6.0A, 20Nm Stepper Motor	NEMA 42
GSTM11018-165-460	110 Flange, 6.0A, 24Nm Stepper Motor	NEMA 42



- 32 Bit DSP technology
- Optically isolated inputs
- Low noise and vibration
- Compatible with 4- and 8-wire stepper motors
- Adjustable current setting
- Automatic current reduction at standstill
- Input frequency up to 250 kHz
- Overvoltage, undervoltage, and short-circuit protection
- Microstep adjustment capability
- Alarm output

INTEGRATED DRIVER MODELS

PRODUCT CODE	DESCRIPTION	NEMA
IGSS573620	57 Flange, 2Nm, Integrated Driver Stepper Motor	NEMA 23
IGSS603630	60 Flange, 3Nm, Integrated Driver Stepper Motor	NEMA 24

- Space-saving integrated driver step motor
- Closed-loop, high positioning accuracy
- User-defined pulse/rev
- Low vibration, smooth operation
- Overcurrent and overvoltage protection with position tracking



STEP MOTORS & DRIVERS

ANALOG INPUT MODELS

PRODUCT CODE	DESCRIPTION	NEMA
LGSD-0A10-8A	18-40 VDC, 0-10 VDC Analog Speed Input Referenced, 0-450 rpm, 8A Dual Motor Output Stepper Driver	
LGSM86-35	86 Flange, 4A, 2.5Nm Stepper Motor	NEMA 34
LGSM86-45C	86 Flange, 6A, 4.5Nm Stepper Motor	NEMA 34
GSTM4218-048-810	42 Flange, 1.0A, 0.34Nm Stepper Motor	NEMA 17
GSTM5718-080-830	57 Flange, 3.0A, 2.0Nm Stepper Motor	NEMA 23
GSTM8618-080-842	86 Flange, 4.2A, 4.5Nm Stepper Motor	NEMA 34
GSTM8618-118-842	86 Flange, 4.2A, 8.5Nm Stepper Motor	NEMA 34
GSTM8618-156-845	86 Flange, 4.5A, 12Nm Stepper Motor	NEMA 34

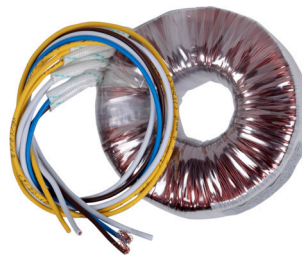


In dual motor combinations, motor selection must ensure that the total current remains below 8 A.

- Power supply: 18-40 VDC
- Command source: simple switch signal, PLC I/O signal, or 0-10 V analog input
- 24 V logic voltage for motor start/stop and direction control
- Low noise and vibration
- Supports 4-wire and 8-wire step motors
- Adjustable current
- Speed range: 0-450 rpm
- Dual motor output, 8 A total

TRANSFORMERS

PRODUCT CODE	DESCRIPTION
TRF060-220-070-1	60W, 70V 1 Output Transformer
TRF120-220-070-2	120W 70V 2 Output Transformer
TRF180-220-070-3	180W 70V 3 Output Transformer



INDUSTRIAL ROBOTS



Industrial Robots

Featuring 4-axis SCARA and 6-axis industrial robots, GMT's industrial robot solutions deliver high precision, flexible motion, high speed, and outstanding accuracy. With payload capacities of up to 220 kg, they are widely used in the electronics, pharmaceutical, and food industries.

For pricing information, please contact:
gmt@gmtcontrol.com

INDUSTRIAL ROBOTS / SRG46

SRG46		DESCRIPTION
Number of Axes		4
Maximum Payload		6KG
Maximum Reach		600mm
Repeatability		±0.02mm
Working Range	J1	±132°
	J2	±150°
	J3	0~200mm
	J4	±360°
	J5	-
	J6	-
Rated Speed	J1	225°/s, 3.92rad/s
	J2	360°/s, 6.28rad/s
	J3	666mm/s
	J4	1200°/s, 20.93rad/s
	J5	-
	J6	-
Maximum Speed	J1	375°/s, 6.54rad/s
	J2	600°/s, 10.46rad/s
	J3	1111mm/s
	J4	2000°/s, 34.88rad/s
	J5	-
	J6	-
Permissible Moment of Inertia	J4	0.12/0.01kgm ²
	J5	-
	J6	-
Permissible Torque	J4	4.23Nm
	J5	-
	J6	-
Operating Environment	Temperature	0~45°C
	Humidity	20%~80%
	Others	Avoid contact with flammable, explosive, or corrosive gases and liquids. Keep away from sources of electrical noise (e.g., plasma equipment).
Teach Pendant Cable Length		8m
Robot-to-Control Cabinet Cable Length		3m
I/O Specifications		Pins: 32 Digital Inputs (NPN/PNP Selectable), 32 Digital Outputs (NPN)
Pneumatic Tube		3*Φ6
Battery Capacity		0.8kVA
Rated Power / Voltage / Current		0.62 kW / Single-Phase AC 220 V, 50 Hz / 3.2 A
Robot/Control Cabinet Protection Rating (IP Rating)		IP54/IP20
Robot/Control Cabinet Weight		21.5 kg / 10.65 kg

INDUSTRIAL ROBOTS / ARG6 220/2.7

ARG6 220/2.7

DESCRIPTION

Number of Axes	6
Maximum Payload	220KG
Maximum Reach	2705mm
Repeatability Accuracy	±0.06mm

Range of Motion	J1	±175°
	J2	-65° / +85°
	J3	-185° / +80°
	J4	±200°
	J5	±130°
	J6	±360°
Maximum Speed	J1	120° / s
	J2	110° / s
	J3	110° / s
	J4	150° / s
	J5	150° / s
	J6	220° / s

Operating Temperature	0°C / +45°C
Storage Temperature	-10°C / +55°C
Protection Class	IP67
Mounting Method	Floor Mount
Mass	1138KG
Air	2-Φ12,8 Bar
Signal	DI/DO, AI/AO (Additional Modules Can Be Added)



POWER SUPPLIES

INDUSTRIAL

COMMUNICATION



POWER SUPPLY / INDUSTRIAL COMMUNICATION

POWER SUPPLY

NEW



DESCRIPTION

- Fixed output voltage
- Fixed output current
- Low cost
- High reliability
- Overload protection
- Overvoltage protection
- Short-circuit protection
- 100% full load test
- DIN rail mounting
- LED power indicator
- CE approved in compliance with EN standards

MODEL

POWER (W)

INPUT VOLTAGE

OUTPUT VOLTAGE

OUTPUT CURRENT

HPS060

60

100-240 VAC

24 VDC

2.5A

HPS120

120

100-240 VAC

24 VDC

5A

HPS240

240

200-240 VAC

24 VDC

10A

ETHERNET SWITCH



DESCRIPTION

- 5 Port RJ45 / 5 Port RJ45
- IEEE 802.3, 802.3u, 802.3x
- 10/100 Base-TX
- 100 m communication distance
- 12-48 VDC supply
- Metal housing
- DIN rail mounting
- 4000 V (Ethernet) ESD protection
- 3000 V surge protection
- Operating temperature: -10...+60 °C
- CE approved

MODEL

NUMBER OF PORTS

G-6405S

5 Port RJ45

G-6408S

8 Port RJ45

WIRELESS LORA - RS232/485/422 CONVERTER

DESCRIPTION

- Wireless data transmission up to 5 km
- RS232/485/422 serial port support
- 255 selectable wireless channels
- Star, tree, and chain topology
- Point-to-point and transparent data transmission modes
- Operating temperature: -40...+85 °C
- Minimum 2 units required (transceiver configuration)

MODEL

G-9921



WIRELESS LORA-RS485 CONVERTER / 10 KM

DESCRIPTION

- Wireless data transmission up to 10 km
- RS485 serial port support
- Supports data broadcasting, data monitoring, master-slave mode, automatic relay, and target wake-up response functions
- With the automatic response function, the receiver automatically sends an ACK response to ensure transmission reliability
- Supports continuous transmission via automatic relay
- AES encryption support
- Maximum output power: 30 dBm (1 W)
- Multiple baud rate options
- 410-490 MHz frequency range with 116 channel at 1 MHz intervals
- 512-byte FIFO (First In, First Out) ring buffer memory
- Sold without a power adapter

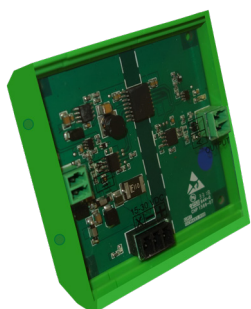
MODEL

G-LORA-485-D10



INDUSTRIAL COMMUNICATION

ISOLATED RS485 REPEATER



DESCRIPTION

- 24 VDC supply
- Automatic data flow control (1 Mbps)
- Automatic data direction detection
- 7 kV galvanic isolation
- Asynchronous, P2P, M2P half-duplex operation modes
- ESD protection up to 8 kV
- EFT protection up to 4 kV
- Surge protection up to 0.5 kV

MODEL

GRP 485

CONVERTERS



DESCRIPTION

- USB-RS232 converter
- USB ver. 2.0
- Asynchronous, P2P, P2M, full-duplex operation modes
- Automatic data flow control
- 4800-256000 bps transfer rate
- Terminal block connection
- Signal LEDs
- Operating temperature: 0...+50 °C
- CE approved

MODEL

GCM 232-USB



- USB-RS485 converter
- USB ver. 2.0
- Asynchronous, P2P, P2M, half-duplex operation modes
- Automatic data flow control
- 4800-256000 bps transfer rate
- Supports up to 32 devices
- 1.1 km transfer distance (9600 bps)
- Terminal block connection
- Signal LEDs
- Operating temperature: 0...+50 °C
- CE approved

GCM 485-USB

PROGRAMMING & COMMUNICATION CABLES

MODEL

DESCRIPTION

GIM01-BC-3P-1.5M	PLC-HMI communication cable (RS232 / RS485, 1.5 m)
GIM01-BC-3P-3M	PLC-HMI communication cable (RS232 / RS485, 3 m)
GIM01-BC-3P-5M	PLC-HMI communication cable (RS232 / RS485, 5 m)
GCON-USB-MICRO	HMI programming cable (1.5 m Micro USB)
GCON-USB-MINI	SD Series & PLC programming cable (1.5 m Mini USB)
CN-PE2M	PLC programming & MICNO / GFD panel cable (2m)

GMTCNT



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