

New Value for Control Panels



New Value for Control Panels

Control Panels: The Heart of Manufacturing Sites.

Evolution in control panels results in large evolution in production facilities. And if control panel design, control panel manufacturing processes, and human interaction with them are innovated, control panel manufacturing becomes simpler and takes a leap forward.





Process

Realize greatly reduces design/manufacturing work

Innovation for design, building Process

Further Evolution for Panels

New Value for Control Panels

Panel

Realize compact & highly reliable control panels

Simple & Easy People

People

Provide reliable and comfortable manufacturing for all people who deal with control panels





Innovation for Control Panels Building with Value Design

Our shared concept for the specifications of products used in control panels, "Value Design for Panel" (herein after referred to as Value Design) will create new value to our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided to control panels.



- 1 """ Unified height & slim size*1
- 2 Side-by-side mounting at (55°C) ambient temperature*2
- 3 Unique Push-In Plus technology*1
- 4 Front-in and front-release wiring
- 5 ---- eCAD library
- 6 ---- Certifi cation for CE, UL, and CSA

^{*1.} Expect for some products

^{*2.} Side-by-side mounting is possible in the same series

Overwhelming Line up That Innovates Your Control Panel Manufacturing

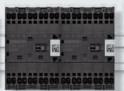
DIN Track Terminal Blocks

Magnetic Contactors

Ultra-Compact Interface Wiring System

Common Terminal Blocks Switch mode power supplies / Related equipment













I/O Relay Terminals



Motor Protective Relays

Power Monitors

Wireless Pushbutton Switches

Condition Monitoring

Temperature











Devices





Manual Motor Starters

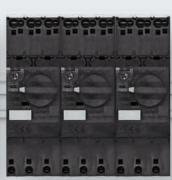


Switch mode power supplies / Related equipment

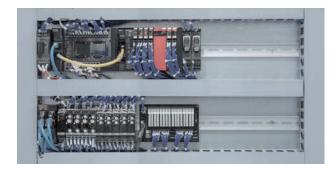








Our Value Design Products Deliver Innovation to Your Manufacturing Site







Reducing Wiring Work P8

Relays, Solid-state Relays



Uninterruptible Power Supplys

Machine Automation Controllers

Safety Relays













Pushbutton Switches

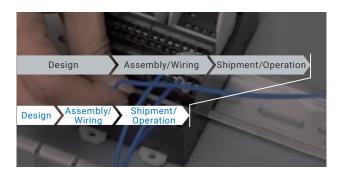


Power Monitors



Temperature Controllers

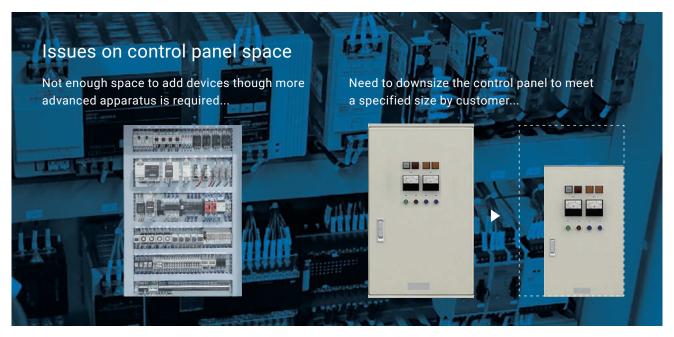




Shortening Lead Time for Control Panel Building

Saving Space and More-advanced Control Panels

Unified size and side-by-side mounting help delivering more compact control panels with additional functionality.



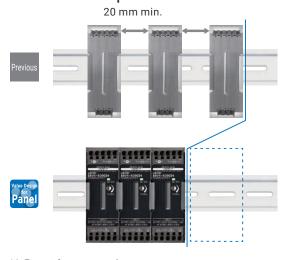


Unified height & slim size*1



S8VK-S (60W)

Side by side mounting at (55°C) ambient temperature *2



- *1. Expect for some products
- *2. Side-by-side mounting is possible in the same series

Heat Control Technology that allows side-by-side mounting

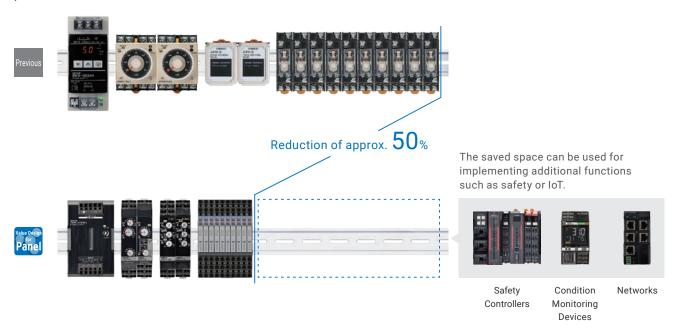
OMRON's unique heat modeling know-how let you understand the accurate heat flow and thereby achieve a device layout with high heat dissipation.





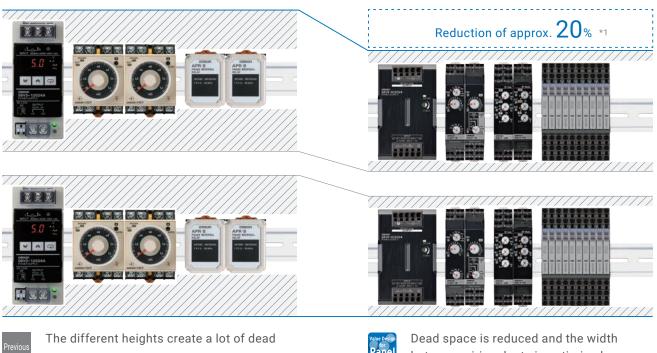
Slim + Side-by-side mounting technology save space, and make moreadvanced Control Panels

You can add a new function, at the re-engineering stage for improving product quality and securing safety of the production line.



Unified height reduces dead space and downsizes control panels

When newly designing, you can decrease the height of a control panel to secure a wide view of a whole production line for improved safety.



space.



between wiring ducts is optimized.

Reducing Wiring Work

Push-In Plus technology and Front-in / Front-release Wiring allow wiring work easier and speedier.

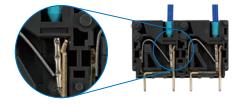


OMRON Push-In Plus technology for easy wire insertion and firm wire holding ability



OMRON's Push-In Plus technology is as easy as inserting to an earphone jack.

This reduces the load on worker ngers.



IEC standard *1

Push-In Plus*2

Screw*2

20 N min.

125 N

112 N

Even though less insertion force is required, the wires are held firmly in place by a unique spring structure that ensures reliability.

Front-in and Front-release Wiring that allows easy insertion to terminal holes facing forward



Space for devices

+
Space for wiring work





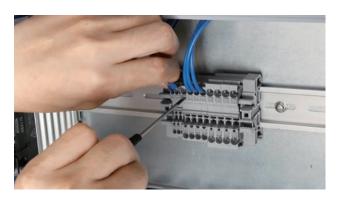


Wiring in vertical direction is hard and need more space...



Easy insertion to the terminal holes facing forward, and saving space in a vertical direction

Easy wiring with both hands for stranded wires with holding screwdriver





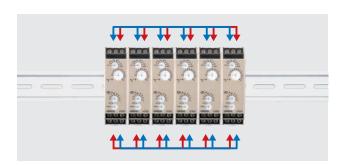
One hand wiring with the other hand holding the screwdriver...





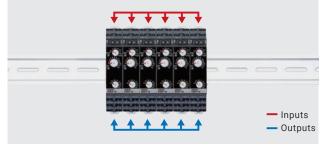
Wiring with both hands, because the screwdriver is held in the release hole

Improved wiring workability by unified I/O terminal positions on the top and bottom





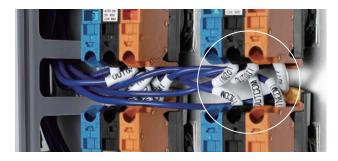
Hard wiring due to mixed I/O terminals located on the top and bottom...





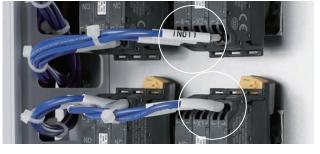
Unified method so that inputs are on the top and outputs are on the bottom, and make work easire.

Front-in Wiring improves workability and safety without interference of wires even in the narrow space among devices





Hard wiring in the narrow space by the interference of wires due to the screw terminals requiring wiring in vertical direction....

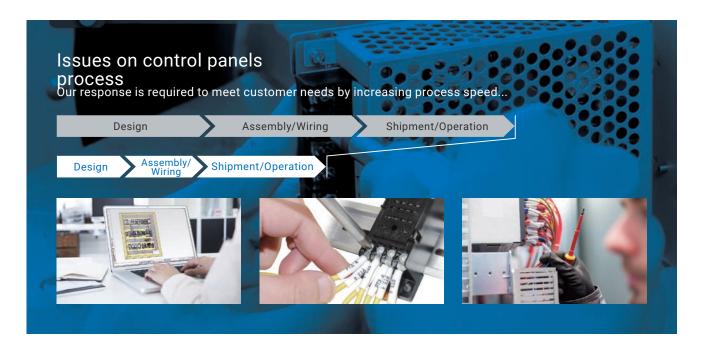




No interference of wiring helps improve workability and safety

Shortening Lead Time for Control Panel Building

Compatible with eCAD and worldwide safety standards, accelerating an entire process of control panel manufacturing.



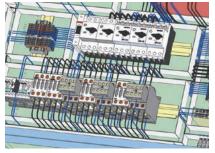
Design

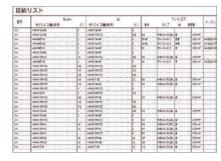
eCAD library provided for all models greatly reduces design work



OMRON provides the libraries for over 45,000 models*2, highest in the industry, to achieve the great reduction of works for electrical design drawing and data creation.







BOM (Bils of materials)

Wiring length data

Wiring list

- st1. In the case of ZUKEN E3 series
- *2. In the case of EPLAN, based on OMRON's investigation as of 2019 September

eCAD Partners

By cooperating with various partners, we offer you more choices for your eCAD solutions.

E3.series is a product name of Zuken Inc. for their Electrical and Control Cable Design Solution.

EPLAN is a registered trademark of EPLAN Software & Service GmbH & Co. KG.





Zuken Inc.

EPLAN

Assembly/Wiring

Push-In Plus technology requires only a single step, greatly reducing wiring work

Reduction of approx. 60%



- 1. Remove the screw
- 2. Connect with the terminal
- 3. Tighten the screw
- 4. Put a check mark
- 5. Retighten the screw



1. Insert the terminal



A lot of steps are required to complete wiring for the screw terminal...



Push-In Plus technology completes by a single step

*1. Information for Push-In Plus and Screw Terminal Blocks is based on OMRON's actual measurement data

Shipment/Operation

No need for retightening, even when vibration is applied on terminals

The pressure of the clamp spring holds the ferrule or wire securely with Push-In Plus technology, eliminating worries about screws loosening or disconnection due to vibration.







The screw is loosened and dropped by vibration...



Retightening is needed before export and shipment...





No drop-off or retightening of screws

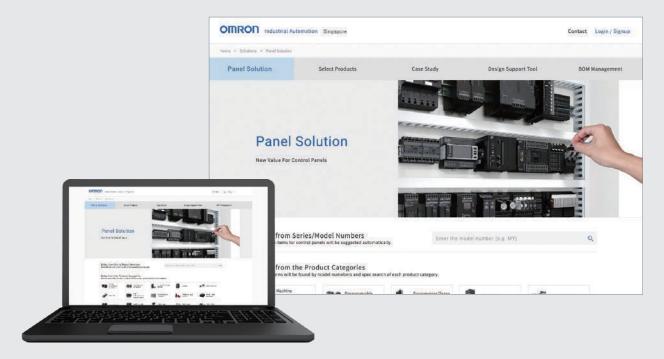
Smooth shipment with our products compliant with worldwide safety standards CE, UL, and CSA.

All of Value Design products are certified for CE, UL, and CSA, and shipment to abroad goes smoothly. Further, Express Delivery Services to 37^{*2} countries and regions worldwide offer easy troubleshooting.



Simplify and Accelerate Panel Designing with Panel Solution Site

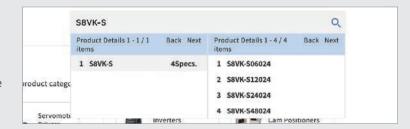
Panel Solution Site supports your control panel manufacturing through from selection to design.



You can select your best product by searching with models, categories and solutions

Select based on model

Entering a model name with a first few letters will show you a list of model candidates, where you can review those product specifications.



Select based on categories

Select a category, and you can narrow model selection by the specifications.



Case Study

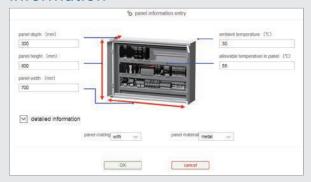
Various contents introduce you the solutions for your control panel manufacturing issues.



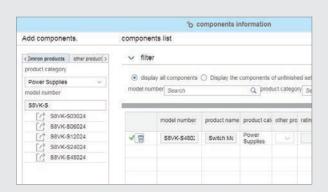
Thermal Simulation Tool

For customers who need to understand heat risks in advance, Thermal Simulation Tool supports the heat design from a simple calculation of heat inside the control panel to selection of fans.

Input control panel information

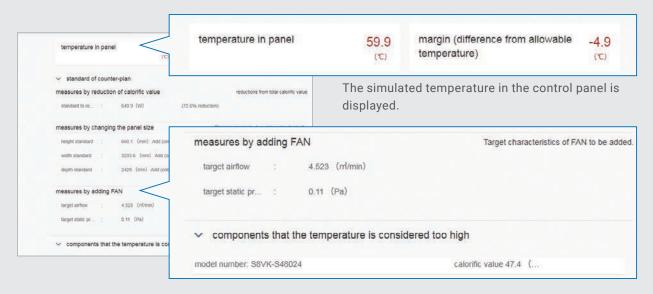


Input the specification of your control panel.



Input product information. For OMRON products, selecting a type will automatically display its heat value.

Simulation results



Provides proposed measures for bringing temperature to a target value and information about the parts with a risk of being overheated.

Customer's voice

Our Value Design products help solve issues with many customers.

Reduce the size by 30 % as well as the wiring lead time by half.

Semiconductor / FPD manufacturing equipment manufacturer

[Issues] Reducing wiring work at site was necessary to shorten the electric construction period. To achieve it, smaller, simpler control panels are required. He adds that smaller control panels can be incorporated into equipment, thus saving space at client factories.

[Effect] Not only downsized components, but also terminal holes on the front helped a lot to reduce wiring lead time. Terminal holes on the front eliminate the need for maintaining work space, thus downsizing the control panels and reducing wiring work drastically.







Reduction by 30 % for both of control panel footprint and lead time

Transferring machine manufacturer

[Issues] Our existing transferring line systems are mostly driven by mechanical structures. Advancing them to meet customer needs will result in increase in control I/Os and size of the control panels.

On the other hand, needs for saving space are growing at the customers' factories. Further, the demand for built-in control panel in line system is also increasing to operate and maintain system close, not at the standalone control panel installed on the wall.

[Effect] The effect was obvious, because the maintenance work completed in three days earlier than planned, where 10 days are allowed in the beginning. We will promote adoption of the Value Design products in our systems in order to reduce the cost and lead time of existing products as well as to accelerate space-saving.

Streamline control panel manufacturing with improved reliability

Control panel builder

[Issues] As demand increases for quality assurance, one of most possible errors with switchboards and control panels is a screw loosening error. All control panel and switchboard manufacturers perform the inspection of course; however, a possibility of human error still exists.

[Effect] Once the devices in control panel are unified to Push-In Plus technology and engineers get used to the wiring work, we can expect workability greatly improves. In addition, we expect for the reliability enhancement in the future by reducing workload of engineers who check for loose screws and recheck for recurrence prevention.





Improved maintainability for equipment by saving space

Confectionery equipment manufacturer

[Issues] The control panel for existing oven line is engineered with a basic design of 20 years ago. The electrical control devices for the panel are large and so the control panel itself should be, as those devices also need much space for mounting with screws. It was in a situation that many devices are mounted on the door of the control panel due to no space inside.

[Effect] I am fully convinced that a wide variety of OMRON lineups help downsize our control panels. Replacing the existing devices mounted in the control panel are with OMRON panel solution devices will save space by approx. 40%. We achieved zero-cabinet by utilizing those devices, and now the control panels are not conspicuous. Further, we have changed the connection method for input cables coming from the machine body to the Push-In Plus technology. This allows us to complete the wiring work in about one and a half hours, which used to take a half day before.

Needless of retightening allows wiring time reduction to one-fourth

Packaging machine manufacturer

[Issues] To achieve space-saving on machines, the needs for downsizing control panels has increased year by year. The devices can be forcibly mounted in the machine when considering only design aspect. However, workability at the manufacturing process and maintainability at the after-sales service will need a hassle. We were thinking if the devices in the control panels would become more compact.

[Effect] For the conventional screw terminal, we provided the works relating to screws such as check and retightening to have three times, though, for the Push-In Plus technology, retightening is needless, resulting in the work reduction. Considering it as a work time, it is reduced to about a quarter.

Selection Guide

Available in a wide range from input to control, output, and safety.

>P.18-19

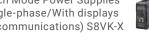
Switch Mode Power Supplies (Single-phase) S8VK-S



Switch Mode Power Supplies (Three-phase/single-phase) S8VK-WA (Three-phase) S8VK-WB



Switch Mode Power Supplies (Single-phase/With displays and communications) S8VK-X



Noise Filters S8V-NF



DC Electronic Circuit Protectors S8V-CP



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Magnetic Contactors (Contactor) J7KC



Manual Motor Starters J7MC



Thermal Overload Relays J7TC



Auxiliary Relay (Contactor Relays) J7KCA



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Solid-state Timers H3DT



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Motor Protective Relays K8DT



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DIN Track Terminal Blocks XW5T



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Ultra-Compact Interface Wiring System XW2K



Ultra-Compact Common Terminal Blocks XW2K-COM







Single-phase input type S8VK-S

Cat. No. T205

- · Compact and side-by-side mounting, contributing to space saving.
- · Coated PCBs for Better Resistance to Environment



Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
100 to 240 VAC	30 W	1.3 A	1.56 A	S8VK-S03024	32×90×86	
		60 W	2.5 A	3 A	S8VK-S06024	32×90×86
(allowable range: 85 to 264VAC or	24 VDC	120 W	5 A	6 A	S8VK-S12024	55×90×86
90 to 350 VDC)		240 W	10 A	15 A	S8VK-S24024	38×124×117.8
,		480 W	20 A	30 A	S8VK-S48024	60×124×117.8

Single-phase input type (With Indication and communication) S8VK-X

Cat. No. T210

- Product replacement time, output voltage, output current, and more are acquired on the network and can be managed all at once.
- Product status can be checked on-site using the indication monitor.



With Indication Monitor

Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
100 to 240 VAC		90 W	3.75 A	_	S8VK-X09024A-EIP	55×90×86
(allowable range:	24 VDC	120 W	5 A	6 A	S8VK-X12024A-EIP	55×90×86
85 to 264 VAC, 90 to 350 VDC)		240 W	10 A	15 A	S8VK-X24024A-EIP	38×124×117
		480 W	20 A	30 A	S8VK-X48024A-EIP	60×124×117

Without Indication Monitor

Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
	5 VDC	30 W	5 A *1	6 A S8VK-X03005-EI		40×90×86
1	12 VDC	60 W	4.5 A *2	5.4 A	S8VK-X06012-EIP	40×90×86
100 to 240 VAC		00 00	2.5 A	3 A	S8VK-X06024-EIP	40×90×86
(allowable range: 85 to 264 VAC,		90 W	3.75 A	_	S8VK-X09024-EIP	55×90×86
90 to 350 VDC)	24 VDC	120 W	5 A	6 A	S8VK-X12024-EIP	55×90×86
		240 W	10 A	15 A	S8VK-X24024-EIP	38×124×117
		480 W	20 A	30 A	S8VK-X48024-EIP	60×124×117

- \pm 1. Output power is 25 W at rated output current.
- \star 2. Output power is 54 W at rated output current.

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.D (depth) of the external dimension is the length from the front to the DIN rail.

Three-phase input type S8VK-W

Cat. No. T219

- •Three-phase Input Power Supplies harmonized with Value design for Panel concept.
- With a line-up that includes two model types, 200 to 240 V input and 380 to 480 V input.



Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
Three-phase / single-phase		240 W	10 A	15 A	S8VK-WA24024	55×124×117
200 to 240 VAC(Allowable range:Three-phase / single-	24 VDC	480 W	20 A	30 A	S8VK-WA48024	65×124×117
phase170 to 264 VAC, 240 to 350 VDC)		960 W	40 A	60 A	S8VK-WA96024	118×124×117
Dated input	Datad autnut	Dower	Datad output	Maximum boost		Size W×H×D
Rated input voltage	Rated output voltage	Power rating	Rated output current	current	Model	(mm)

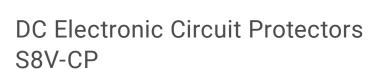
Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
Three-phase / two-phase		240 W	10 A	15 A	S8VK-WB24024	55×124×117
	24 VDC	480 W	20 A	30 A	S8VK-WB48024	65×124×117
380 to 480 VAC		960 W	40 A	60 A	S8VK-WB96024	118×124×117
(Allowable range: Three-phase / two-phase 320 to 576 VAC, 450 to 810 VDC)	48 VDC	240 W	5 A	7.5 A	S8VK-WB24048	55×124×117
		480 W	10 A	15 A	S8VK-WB48048	65×124×117
		960 W	20 A	30 A	S8VK-WB96048	118×124×117

Noise Filters S8V-NF

Cat. No. T212

- Featuring a Slim Design that Saves Space
- · Push-In Connections for Safe and Easy Wiring

Rated input voltage	Rated output voltage	Model	Size W×H×D (mm)	
250 VAC	3 A	S8V-NFS203	32×90×86	
250 VDC	6 A	S8V-NFS206	32~90~80	



Cat. No. T226

- Simplified safety design of DC circuits
- · Saves space even with multi-channel







Number of Outputs	UL Class 2 output	Rated output voltage	Model	Size W×H×D (mm)
4 a b	NO NO		S8V-CP0424	44.0×00×00.0
4 ch	YES	24 VDC	S8V-CP0424S	44.8×90×90.8
8 ch	NO		S8V-CP0824	42×127×118.1

Magnetic Contactors (Contactor) J7KC

Cat. No. J230

- Motor Control up to 2.2 kW (200 to 240 VAC), 5.5 kW (380 to 440 VAC), AC-3 class compatible, ideal for small pumps such as conveyors and coolant pumps.
- · Ideal for safety applications thanks to mirror contact mechanism with feedback function.



Product Type	Operation	Coil rating	Auxiliary contact	Model	Size W×H×D (mm)	
		24 VAC	SPST-1NO	J7KC-12-10 AC24		
		Z4 VAC	SPST-1NC	J7KC-12-01 AC24		
		100 VAC	SPST-1NO	J7KC-12-10 AC100		
	AC-operated	100 VAC	SPST-1NC	J7KC-12-01 AC100		
Magnetic	AC-operated	200 VAC	SPST-1NO	J7KC-12-10 AC200	45×67.5×49	
contactor		200 VAC	SPST-1NC	J7KC-12-01 AC200	45^07.5^49	
		230 VAC	SPST-1NO	J7KC-12-10 AC230		
		230 VAC	SPST-1NC	J7KC-12-01 AC230		
	DC-operated	24 VDC	SPST-1NO	J7KC-12-10 DC24		
	(With built-in surge absorption unit)	24 VDC	SPST-1NC	J7KC-12-01 DC24		
	AC-operated	200 VAC	SPST-1NO	J7KCR-12-10 AC200		
Reversing	AC-operated	200 VAC	SPST-1NC	J7KCR-12-01 AC200	00.5×77.5×70	
magnetic contactor	DC-operated	24 VDC	SPST-1NO	J7KCR-12-10 DC24	90.5×77.5×78	
	(With built-in surge absorption unit)	Z4 VDC	SPST-1NC	J7KCR-12-01 DC24		

Auxiliary contact unit

Number of poles	Auxiliary contact	Model
2 Poles	2PST-1NO 1NC	J73KC-AM-11
	4PST-4NO	J73KC-AM-40
4 Poles	4PST-2NO 2NC	J73KC-AM-22
	4PST-4NC	J73KC-AM-04

Auxiliary Relays(Contactor Relay) J7KCA

Cat. No. J232

• Same shape as J7KC magnetic contactors Ideal for standardizing panel design

Coil rating	Contact configuration	Model	Size W×H×D (mm)
	4PST-4NO	J7KCA-40 DC24	
24 VDC	4PST-3NO 1NC	J7KCA-31 DC24	45×67.5×49
	4PST-2NO 2NC	J7KCA-22 DC24	



For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

Manual Motor Starters J7MC

Cat. No. T212

- · MPCB system, protection from Overload, Phase failure and Short Circuit
- In combination with magnetic contactor model J7KC, it is ideal for control of motors to AC-3 class, 2.2 kW (200 to 240 VAC) *1 or 5.5 kW (380 to 440 VAC).



*1. Based on JIS C 8201-4-1

3-phase standard and full loa (reference	ad current	Current setting range	Rocker switch (standard type)		Rotary (high-perfo	Magnetic	
200 to 2 Capacity [kW]	240 VAC Current [A]	Rated operating current [A]	Model	Size W×H×D (mm)	Model	Size W×H×D (mm)	contactor model
_	_	0.1-0.16	J7MC-3P-E16		J7MC-3R-E16		J7KC-12
0.03	0.24	0.16-0.25	J7MC-3P-E25		J7MC-3R-E25	45×	
0.06	0.37	0.25-0.4	J7MC-3P-E4		J7MC-3R-E4		
_	_	0.4-0.63	J7MC-3P-E63		J7MC-3R-E63		
0.1	0.68	0.63-1	J7MC-3P-1		J7MC-3R-1		
0.2	1.3	1-1.6	J7MC-3P-1E6	45×120×747	J7MC-3R-1E6		
0.4	2.3	1.6-2.5	J7MC-3P-2E5	45×130×74.7	J7MC-3R-2E5	130×94.7	
0.75	3.5	2.5-4	J7MC-3P-4		J7MC-3R-4		
_	_	4-6.3	J7MC-3P-6		J7MC-3R-6		
1.5	6.9	6.0.10	17MO 2D 10		17MO 2D 10		
2.2	9.5	6.3-10	J/MC-3P-10	J7MC-3P-10 J	J7MC-3R-10		
2.2	9.5	9-13	J7MC-3P-13		J7MC-3R-13		

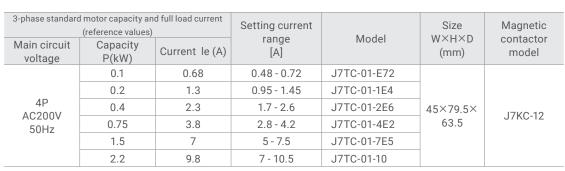
^{*2.} The 3-phase motor full load current is a reference value. When applying, check the full load current of the motor you will use.

Thermal Overload Relays J7TC

Cat. No. T212

- · One-touch Installation with magnetic contactor J7KC to configure a magnetic starter
- Motor Protection from Overload and Phase -loss by Combination with J7KC for up to 2.2 kW (240 VAC), 5.5 kW (440 VAC).





Note: The 3-phase motor full load current is a reference value. When applying, check the full load current of the motor you will use.



Sockets with Push-In Plus technology

P2RF-□□-PU/P7SA-PU

Cat. No. J212, J120

 Sockets with Push-In Plus technology to Save Work Added to Series for MY, LY, G2R-S Relays and G7SA Relays with Forcibly Guided Contacts



Applicabl	Applicable model (typical example)			Model	Size W×H×D (mm)	
	NAV O circo	MY2	2	PYF-08-PU	01,400,471.4	
	MY Seires	MY4	4	PYF-14-PU	31×90×71.4	
		LY2	2	PTF-08-PU	24.8×90×70.1	
	LY Seires	LY2-CR	2	PTF-08-PU-L	24.8×90×52.1	
General Purpose		LY4	4	PTF-14-PU-L	43.4×90×52.1	
Relays	00110	G3H				
	G3H Seires	G3HD	1	PTF-08-PU	24.8×90×70.1	
	G9H Seires	G9H				
		G2R-1-S	1	P2RF-05-PU	45.5000055	
	G2R-□-S Seires	G2R-2-S	2	P2RF-08-PU	15.5×90×57	
		H3Y(N)-2-B	2	PYF-08-PU-L	2411221157	
	H3Y、H3YN Seires	H3Y(N)-4-B	4	PYF-14-PU-L	31×90×57	
Timers		H3RN-1-B	1	P2RF-05-PU		
	H3RN Seires	H3RN-2-B	2		15.5×90×57	
Liquid Leakage Sensors	K7L Seires	K7L-□B	2	P2RF-08-PU		
Relays with Forcibly	0704 0 - in -	0704	4	P7SA-10F-ND-PU DC24	22.5×100×61	
Guided Contacts	G7SA Seires	G7SA	6	P7SA-14F-ND-PU DC24	27.7×100×61	

PYF-PU-Applicable Models

Annliaghla madala	General Pur	pose Relays	SSRs	Tim	ners
Applicable models	MY2	MY4	G3F/G3FD	H3Y(N)-2-B	H3Y(N)-4-B
No. of poles	2	4	1	2	4
Socket model	PYF-08-PU	PYF-14-PU	PYF-08-PU	PYF-08-PU-L*1	PYF-14-PU-L*1
Appearance			a o		

PTF-PU-Applicable Models

Applicable models	Ge	eneral Purpose Rela	iys	SSRs	Temperature	e Controllers
Applicable models	LY2	LY2-CR	LY4	G3H/G3HD/G9H	E5L-A	E5L-C
No. of poles	2	2	4	1	_	_
Socket model	PTF-08-PU	PTF-08-PU-L*1	PTF-14-PU-L*1	PTF-08-PU	PTF-14-PU-L*1	PTF-14-PU-L*1
Appearance						

P2RF-PU-Applicable Models

Applicable models	General Purpose Relays		General Purpose Relays SSRs T		Tim	ners	Liquid Leakage Sensor Amplifiers
	G2R-1-S	G2R-2-S	G3R-I/O/G3RZ	H3RN-1-B	H3RN-2-B	K7L-B	
No. of poles	1	2	1	1	2	_	
Socket model	P2RF-05-PU	P2RF-08-PU	P2RF-05-PU	P2RF-05-PU	P2RF-08-PU	P2RF-08-PU	
Appearance							

P7SA-PU-Applicable Models

Appliachle medale	Relays with Forcibly Guided Contacts				
Applicable models	G7SA	G7SA			
No. of poles	4	6			
Socket model	P7SA-10F-ND-PU DC24	P7SA-14F-ND-PU DC24			
Appearance	122	7 17			

^{*}A release lever is not included.

Slim I/O Relays G2RV-ST

Cat. No. J267

- Slim I/O relay with width 6.2 mm
- •The test button function and mounted relay use plug-in terminals that are difficult to bend when exchanging.
- Since G2RV is a transparent case, confirming the state of the contact with the naked eye is possible, and easy to confirm abnormality on-site (installed location).

Classification	Latching lever (Test switch)	Rated input voltage	Model	Size W×H×D (mm)
		12 VDC	G2RV-ST500 12 VDC	
		24 VDC	G2RV-ST500 24 VDC	
	No	24 VAC/VDC	G2RV-ST500 24 VAC/VDC	
Standard	NO	48 VAC/VDC	G2RV-ST500 48 VAC/VDC	
Standard		100 VAC	G2RV-ST500 100 VAC	
		200 VAC	G2RV-ST500 200 VAC	6.2×90×88
	Yes	24 VDC	G2RV-ST501 24 VDC	
	res	24 VAC/VDC	G2RV-ST501 24 VAC/VDC	
		12 VDC G2RV-ST500-AP 12		
Microloads	No	24 VDC	G2RV-ST500-AP 24 VDC	
		24 VAC/VDC	G2RV-ST500-AP 24 VAC/VDC	

Slim I/O Solid State Relays G3RV-ST

Cat. No. J267

• Width 6.2 mm., high frequency, high-speed opening and closing SSR (solid state relay).

		,	<u> </u>		
Applicable output load	Zero cross function	Rated input voltage	Model	Size W×H×D (mm)	
		12 VDC	G3RV-ST500-D 12 VDC		
		24 VDC	G3RV-ST500-D 24 VDC		
DC load	_	24 VAC/VDC	G3RV-ST500-D 24 VAC/VDC		
		100 VAC	G3RV-ST500-D 100 VAC		
		200 VAC	G3RV-ST500-D 200 VAC		
DC load (high-speed		24 VDC	G3RV-ST500-D-H 24 VDC		
opening and closing)	_	24 VAC/VDC	G3RV-ST500-D-H 24 VAC/VDC	6.2×90×88	
		12 VDC	G3RV-ST500-A 12 VDC		
	Yes	24 VDC	G3RV-ST500-A 24 VDC		
AC load		24 VAC/VDC	VAC/VDC G3RV-ST500-A 24 VAC/VDC		
AO IOdd		12 VDC	G3RV-ST500-AL 12 VDC		
	No	24 VDC	G3RV-ST500-AL 24 VDC		
		24 VAC/VDC	G3RV-ST500-AL 24 VAC/VDC		







Terminal Relays G6D-F4PU/G3DZ-F4PU

Cat. No. J228



- Model with Push-In Plus technology Added to Terminal Relays with Four-point Output Lineup.
- Rated 5A is achieved with optimum designs than conventional screw-type G6D-F4B (rated 3A).

Wide Variety of Application

Mounted Relay type	Contact form	Operation coil ratings	Model	Size W×H×D (mm)
Machanical Dalay		12 VDC	G6D-F4PU DC12	
Mechanical Relay	SPST x 4	SPST x 4 24 VDC G6D-F4PU DC24		01,400,405
Power MOS FET relay	(1N0 x 4)	12 VDC	G3DZ-F4PU DC12	31×90×35
		24 VDC	G3DZ-F4PU DC24	

I/O Relay Terminals G70V

Cat. No. J215

• I/O Relay Terminals with 16 Points and Push-In Plus terminal blocks to Downsize Control Panels and Save Labor





Classification	Daint	Commo	n Line	Rated	Model	Size
Classification	Point	Terminal Block Side	Connector Side	voltage	wodei	W×H×D (mm)
		No internal	NPN(- common)		G70V-SID16P	
Input		connections	PNP(+ common)		G70V-SID16P-1	
		16 points internally	NPN(- common)		G70V-SID16P-C16	
		connected PNP(+ common)			G70V-SID16P-1-C16	
	16	No internal	NPN(+ common)	24 VDC	G70V-SOC16P	143×90×56
		connections PNP(- common)	G70V-SOC16P-1			
Output		Every 4 points internally	NPN(+ common)		G70V-SOC16P-C4	
		connected at terminal block bottom row	PNP(- common)	G70V-S0C16P-1-C4		

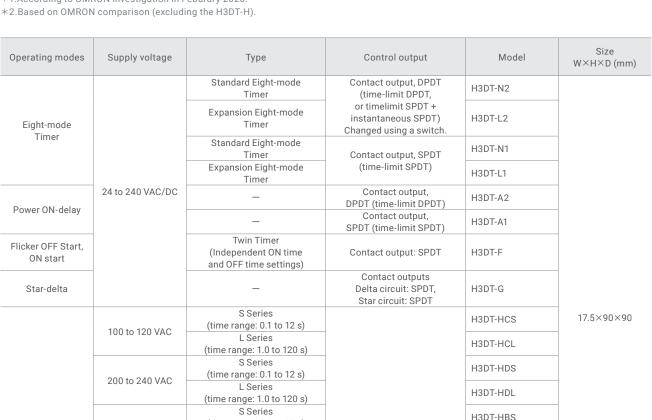
- · Width 6.2 mm., high frequency, high-speed opening and closing SSR (solid state relay).
- Realized a slim shape with a switching capacity up to 3 A (DC), and 2 A (AC)

Solid-state Timers H3DT

Cat. No. M090

- \bullet Slim Timers (17.5-mm width) with two sets of contacts: One of the slimmest Timers worldwide. *1
- Reduces power consumption (active power) by up to 60% to help reduce heat generation in control panels.*2





Contact output:

SPDT

H3DT-HBL

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

(time range: 0.1 to 12 s)

L Series

(time range: 1.0 to 120 s)



Power OFF-delay

24 to 48 VAC/DC



Measuring and Monitoring Relays K8DT

- Models with transistor outputs available for long-term contact reliability.
- Control panel downsizing and reduced wiring; flexible layout with a 17.5-mm width
- Push-In Plus terminal blocks for easy wiring



	ring and ng object	Input	Output	Alarm operation	Function	Series name*1	Size W×H×D (mm)		
		Current		Upper or lower limit (switched)	Single-phase Undercurrent or Single-phase Overcurrent	K8DT-AS Cat. No. N201	,		
	Single	Current				Upper and lower limits (redundant operation	Single-phase Undercurrent Single-phase Overcurrent	K8DT-AW Cat. No. N202	
	phase	Voltage							Upper or lower limit (switched)
Motor		voltage		Upper and lower limits (redundant operation	Single-phase Undervoltage Single-phase Overvoltage	K8DT-VW Cat. No. N204			
protection			One SPDT	Fixed	Phase sequence 、 Phase loss	K8DT-PH Cat. No. N206			
	Three		relay output or One Transistor		Phase sequences Phase losss Three-phase Undervoltages Three-phase Overvoltage	K8DT-PM Cat. No. N207	17.5×90×90		
	Three Voltage		Upper and lower limits	Phase sequences Phase losss Three-phase Undervoltages Three-phase Overvoltages Three-phase Asymmetry	K8DT-PZ Cat. No. N208				
	erature toring	Thermocouple or platinum resistance thermometer		Upper or lower limit (switched)	Temperature Monitoring	K8DT-TH Cat. No. N209			
	r level ntrol	Electrode		Water supply or discharge (switched)	Water level control	K8DT-LS Cat. No. N205			

 $^{*1.} For detailed format specifications and inventory information, please refer to Catalog \ or \ data \ sheet.$

DIN Track Terminal Blocks XW5T

Cat. No. G124





	Common specifications	Feed Through Terminal blocks (Dark gray)	Grounding Terminal blocks (Green / Yeloow)	Size		
Product Type	Applicable wire sizes*1	Number of levels	Wiring	Model	Model	W×H×D (mm)
04	0.08 mm² to 1.5 mm² AWG28 to AWG16			XW5T-P1.5-1.1-1	XW5G-P1.5-1.1-1	3.5×45×30.5
Standard terminals	0.14 mm² to 2.5 mm² AWG26 to AWG14	1	1:1	XW5T-P2.5-1.1-1	XW5G-P2.5-1.1-1	5.2×48.8×35.3
terrimais	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-1.1-1	XW5G-P4.0-1.1-1	6.2×56.1×35.3
N.A. Jat at	0.08 mm² to 1.5 mm² AWG28 to AWG16			XW5T-P1.5-1.1-2	XW5G-P1.5-1.1-2	3.5×65.7×41.1
Multi tiers terminal	0.14 mm² to 2.5 mm² AWG26 to AWG14	2	1:1	XW5T-P2.5-1.1-2	XW5G-P2.5-1.1-2	5.2×78.8×45.9
terrimai	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-1.1-2	XW5G-P4.0-1.1-2	6.2×85×45.9
	0.08 mm² to 1.5 mm² AWG28 to AWG16			XW5T-P1.5-1.2-1	XW5G-P1.5-1.2-1	3.5×54.1×30.5
	0.14 mm² to 2.5 mm² AWG26 to AWG14	1	1:2	XW5T-P2.5-1.2-1	XW5G-P2.5-1.2-1	5.2×60.5×35.3
Multi	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-1.2-1	XW5G-P4.0-1.2-1	6.2×66.5×35.3
conductor terminals	0.08 mm²v1.5 mm² AWG28 to AWG16			XW5T-P1.5-2.2-1	XW5G-P1.5-2.2-1	3.5×63.2×30.5
terrilliais	0.14 mm² to 2.5 mm² AWG26 to AWG14	1	2:2	XW5T-P2.5-2.2-1	XW5G-P2.5-2.2-1	5.2×72.2×35.3
	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-2.2-1	XW5G-P4.0-2.2-1	6.2×76.9×35.3

Common Terminal Blocks XW6T

Cat. No. G139

- Downsize Control Panels and Save Work with Common Terminal Blocks with Visible Indicators
- Indicators make wiring completion simply visible. Proper wiring without skillful operators.



Number of pins	Color of Short Bars	Applicable wire sizes*1	Model	Size W×H×D (mm)	Applicable wire sizes*	Model	Size W×H×D (mm)			
8	Red Blue		XW6T-COM1.5X8RD XW6T-COM1.5X8BL	9.2×78	9.2×78	9.2×78		9.2×78	XW6T-COM2.5X8RD XW6T-COM2.5X8BL	12.6×82.6×
	Yellow		XW6T-COM1.5X8YL	×31.3		XW6T-COM2.5X8YL	36.1			
12	Red Blue		XW6T-COM1.5X12RD XW6T-COM1.5X12BL	12.7×78×31.3	12.7×78×31.3		XW6T-COM2.5X12RD XW6T-COM2.5X12BL	17.8×82.6× 36.1		
	Yellow Red	2,000	XW6T-COM1.5X12YL XW6T-COM1.5X16RD		0.14 to	XW6T-COM2.5X12YL XW6T-COM2.5X16RD				
16	Blue Yellow	0.08~1.5 mm²/ AWG28~16	XW6T-COM1.5X16BL XW6T-COM1.5X16YL	16.2×78×31.3	AWG26 to 14 X	XW6T-COM2.5X16BL XW6T-COM2.5X16YL	23.0×82.6 ×36.1			
	Red	-	XW6T-COM1.5X20RD	10.7.7.70.7.01.0		AW 020 to 14	XW6T-COM2.5X20RD	28.2×82.6		
20	Blue Yellow		XW6T-COM1.5X20BL XW6T-COM1.5X20YL	19.7×78×31.3 37.2×78×31.3		XW6T-COM2.5X20BL XW6T-COM2.5X20YL	×36.1			
40	Red Blue		XW6T-COM1.5X40RD XW6T-COM1.5X40BL			XW6T-COM2.5X40RD XW6T-COM2.5X40BL	54.2×82.6			
	Yellow		XW6T-COM1.5X40YL			XW6T-COM2.5X40YL	×36.1			

*1.For stranded lines

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

Ultra-Compact Interface Wiring System

XW2K

Cat. No.G152



- •This product is the industry's smallest*1 and is mountable in two ways (vertical and horizontal), so you can use space efficiently to downsize and save space on your control panels.
- Wiring patterns specifically designed for connections with the PLCs of each company reduce the work required for signal layout checking.

*1. According to OMRON investigation in March 2022

Ultra-Compact Connector-Terminal Blocks (For PLC Connection)

Applicable PLCs	Applicable PLCs Circuit	I/O Points	Model	Dimension W×H×D (mm)		
/ tppilouble 1 200	Onoun	1,0101110	Wiodei	Vertical mount	Horizontal mount	
OMRON, Yokogawa	Circuit pattern A		XW2K-40G-032A		75×39×40.8	
Electric,	Circuit pattern B		XW2K-40G-032B	39×75×40.8		
Hitachi Industrial Equipment Systems	Circuit pattern A	32 Points	XW2K-40G-032C			
Mitsubishi Electric, Fuji Electric	Mixed I/O		XW2K-40G-M32			
KEYENCE	Mixed I/O		XW2K-40G-K32			

Ultra-Compact Connector-Terminal Blocks (For PLC Connection • Integrated Common Terminal Type)

Applicable PLCs	Circuit	I/O Points	Model	Dimension W	$V \times H \times D \ (mm)$	
Applicable 1 203	Ollouit	1/01 011113	Wodel	Vertical mount Horizontal mod		
OMRON	Input	16 Points	XW2K-20G-016A-IN	52.7×75×40.8	75×52.7×40.8	
UWRUN	Output	16 Points	XW2K-20G-016B-0UT	39×75×40.8	75×39×40.8	
OMRON, Yokogawa	Input(Circuit pattern A)		XW2K-40G-032A-IN	52.7×124×40.8	124×52.7×40.8	
Electric,	Input(Circuit pattern C)		XW2K-40G-032C-IN	52.7 ^ 124 ^ 40.0	1247.32.7740.0	
Hitachi Industrial	Output(Circuit pattern B)		XW2K-40G-032B-0UT	39×124×40.8	124×39×40.8	
Equipment Systems	Input(Circuit pattern C)	00 D : .	XW2K-40G-032C-0UT	39/124/40.0		
Mitsubishi Electric,	Input	32 Points	XW2K-40G-M32-IN	52.7×124×40.8	124×52.7×40.8	
Fuji Electric	Output		XW2K-40G-M32-0UT	39×124×40.8	124×39×40.8	
KEVENOE	Input		XW2K-34G-K32-IN	52.7×124×40.8	124×52.7×40.8	
KEYENCE	Output		XW2K-34G-K32-OUT	39×124×40.8	124×39×40.8	

Ultra-Compact Connector-Terminal Blocks (General-Purpose)

Circuit	Connector poles	Model	Dimension W×H×D (mm)		
onoun	Commenter perce	odoi	Vertical mount	Horizontal mount	
	20 poles	XW2K-20G-T	39×56×40.8	56×39×40.8	
Straight wiring	34 poles	XW2K-34G-T	39×75×40.8	75×39×40.8	
(1:1 Circuit)	40 poles	XW2K-40G-T	39×75×40.8	75×39×40.8	
	50 poles	XW2K-50G-T	39×92.5×40.8	92.5×39×40.8	

■Applicable PLCs

- OMRON: CS, CJ and NX series Mitsubishi Electric: MELSEC L, Q and iQ-R series KEYENCE: KV-1000, 3000, 5000, 5500 and Nano series
- Yokogawa Electric : FA-M3 series Hitachi Industrial Equipment Systems : EH-150/EHV series Fuji Electric : MICREX-SX series

Ultra-Compact Common Terminal Blocks

(For Sensor Power Supply)

XW2K-COM

Cat. No.G152

· Ideal for supplying power to a sensor or actuator

Number of poles	Application	Model	Dimension W×H×D (mm)
	For + common	XW2K-COM20N	
20 poles	For - common	XW2K-COM20P	14.8×75×29.4
	+/- mix	XW2K-COM20	



Solid State Relays for Heater G3PJ

Cat. No. J210

• Single-phase SSR for low heat generation enables carrying 25 A even for close mounting of three SSRs to contribute to downsizing of control panels.



	Input erminal	Output terminal	Insulation method	Rated input	Zero	Rated load	Rated load current (ambient temperature of 40 °C)* Close mounting Separate		Model	Size W×H×D (mm)	
		voltage function voltage		voltage	(Three SSRs) mounting			()			
	Push-In							15A	18A	G3PJ-215B-PU	
						24 to 240 VAC		1071	DC12-24		
F							25A	27A	G3PJ-225B-PU		
	Plus	Screw	Phototriac	12 to 24	Yes		ZJA	Z/A	DC12-24	22.5×84×100	
te	erminal	terminals	coupler	VDC	res	100 +0	1 E A	23A	G3PJ-515B-PU	22.5^84^100	
-	olocks					100 to	15A	23A	DC12-24		
					480	054 074	G3PJ-525B-PU				
						VAC	25A	27A	DC12-24		

Power Monitors KM-N2/KM-N3

Cat. No. N213

- · Power Monitors applicable around the globe
- Solve design, installation, and operation topics with one model for each installation type
- Handle circuits up to 3-phase 4-wire and 3-phase 480 V



Installation method	Applicable phase wiring methods		Power supply voltage	Communications	Model	Size W×H×D (mm)	
	Single-phase, 2-wire	100 to 277 VAC					
	Single-phase,	100 to 240 VAC(L-N)	Same as measured	DO 405	KM-N2-FLK		
DIN Rail	3-wire	200 to 480 VAC(L-L)	circuits:	RS-485 communications,		90×90×65	
mounting	Three-phase, 3-wire	173 to 480 VAC(L-L)	100 to 277 VAC (L-N) 173 to 480 VAC (L-L)	pulse output		90/90/03	
	Three-phase,	100 to 277 VAC(L-N)					
	4-wire	173 to 480 VAC(L-L)					
	Single-phase, 2-wire 100 to 277 VAC						
	Single-phase,	100 to 240 VAC(L-N)	100 to 240 VAC	RS-485			
On-panel	3-wire	200 to 480 VAC(L-L)	Separate from	communications.	KM-NO-ELK	96×96×64	
nstallation	Three-phase, 3-wire	173 to 480 VAC(L-L)	measurement voltage	pulse output	KM-N3-FLK	90/90/04	
	Three-phase,	100 to 277 VAC(L-N)					
	4-wire	173 to 480 VAC(L-L)					

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

Uninterruptible Power Supply (UPS) S8BA

Cat. No. U701

• DIN rail to provide an ideal countermeasure for momentary power losses and power failures in industrial computers (IPC) and controllers.



Integrated battery type

Input voltage	Output current/ capacity	Model	Size W×H×D)(mm)
	5 A/120 W	S8BA-24D24D120LF	94×100×100
24 VDC	10 A/240 W	S8BA-24D24D240LF	148×100×100
24 VDC	15 A/360 W	S8BA-24D24D360LF	270×100×100
	20 A/480 W*1	S8BA-24D24D480LF	270×100×100

^{*1.16.7} A/400 W for use as a UL compliant device.

Separated battery type: Control unit

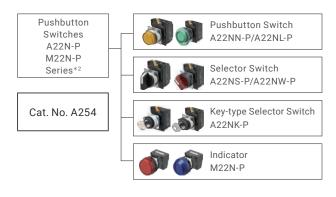
Input voltage	Output current/ capacity	Model	Size W×H×D)(mm)
24.VDC	20 A/480 W	S8BA-24D24D480SBF	44×124×120.9
24 VDC	40 A/960 W	S8BA-24D24D960SBF	52×124×120.9

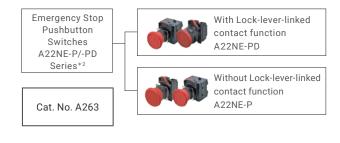
Separated battery type: Battery unit

Rated voltage	Rated capacity	UPS Model : Required units	Model	Size W×H×D (mm)
25.2 VDC	3900 mAh	S8BA-24D24D480SBF	S8BA-S480L	80×124×120.9
	7800 mAh	S8BA-24D24D480SBF	S8BA-S960L	150×124×120.9
	7000 IIIAII	S8BA-24D24D960SBF	30DA-390UL	150 \ 124 \ 120.9

Pushbutton Switches / Emergency Stop Pushbutton Switches A22N-P/A22NE-P

- · Pushbutton with Push-In Plus technology for easy wiring
- · Improved workability in wiring and installation
- Changes to the wiring direction and a shorter body provide freedom in the layout
- In a model equipped with Lock-lever-linked contact function, the improper installation of the Switch Unit can be detected.
- · Improved Workability in Wiring and Installation
- · Pushbutton with Push-In Plus technology for easy wiring





st2. For detailed format specifications and inventory information, please refer to Catalog $\,$ or data sheet.

Temperature Controllers E5CC-B/E5EC-B/E5DC-B

Cat. No. H177

- · Large White PV Display That's Easier to Read.
- High-speed sampling at 50 ms.
- Easy to Use, from Model Selection to Setup and Operation.
- Push-In Plus technology for easy wiring.
- Easy connections to a PLC with programless communications.

 Use component communications to link Temperature Controllers to each other.



E5CC-B (48 ×48 mm)

Control	Auxiliary	Power supply		Optio	ns				Size
outputs	outputs	voltage	HB alarm and HS alarm	Communications	Event inputs	Remote SP Input	Transfer output	Model Model	W×H×D) (mm)
			_	_	_	_	_	E5CC-RX2ABM-000	
			1	_	2	_	_	E5CC-RX2ABM-001	
		100 to 240 VAC	1	RS-485	_	_	_	E5CC-RX2ABM-002	
Control output 1 :			_	RS-485	2	_	_	E5CC-RX2ABM-004	
Relay output	2		_	_	2	_	Provided.	E5CC-RX2ABM-006	
Control output 2:	2		_	_	_	_	_	E5CC-RX2DBM-000	
None			1	_	2	_	_	E5CC-RX2DBM-001	
		24 VAC/ DC	1	RS-485	_	_	_	E5CC-RX2DBM-002	
			_	RS-485	2	_	_	E5CC-RX2DBM-004	48×48× 67.4*1
			_	_	2	_	Provided.	E5CC-RX2DBM-006	
		100 to 240 VAC	_	_	_	_	_	E5CC-QX2ABM-000	
			1	_	2	_	_	E5CC-QX2ABM-001	
			1	RS-485	_	_	_	E5CC-QX2ABM-002	
Control output 1 :			_	RS-485	2	_	_	E5CC-QX2ABM-004	
Voltage output	2		_	_	2	_	Provided.	E5CC-QX2ABM-006	
(for driving SSR) Control output 2:	Ζ.		_	_	_	_	_	E5CC-QX2DBM-000	
None			1	_	2	_	_	E5CC-QX2DBM-001	
		24 VAC/ DC	1	RS-485	_	_	_	E5CC-QX2DBM-002	
			_	RS-485	2	_	_	E5CC-QX2DBM-004	
			_	_	2	_	Provided.	E5CC-QX2DBM-006	
Control output 1:		100+- 040 1/40	_	_	_	_	_	E5CC-CX2ABM-000	
Linear current output	2	100 to 240 VAC	_	RS-485	2	_	_	E5CC-CX2ABM-004	
Control output 2 :	2	24 VAC/ DC	_	_	_	_	_	E5CC-CX2DBM-000	-

^{*1.}The depth is the size under the neck.

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

E5EC-B (48 ×96 mm)

	Auxiliary	Power supply		Optio	ons				Size
Control outputs	outputs	voltage	HB alarm and HS alarm	Communications	Event inputs	Remote SP Input	Transfer output	Model	W×H×D) (mm)
			_	_	_	_	_	E5EC-RX2ABM-000	
		100 to 240 VAC	1	RS-485	2	_	_	E5EC-RX2ABM-008	
Control output 1:	2	100 to 240 VAC	1	_	4	_	_	E5EC-RX2ABM-010	
Relay output			1	_	6	Provided.	Provided.	E5EC-RX2ABM-011	
Control output 2:		24 VAC/ DC	_	_	_	_	_	E5EC-RX2DBM-000	
None			_	_	_	_	_	E5EC-RX4ABM-000	
	4	100 to 240 VAC	1	RS-485	2	_	_	E5EC-RX4ABM-008	
			1	_	4	_	_	E5EC-RX4ABM-010	
		100 to 240 VAC	_	_	_	_	_	E5EC-QX2ABM-000	48×96×
			1	RS-485	2	_	_	E5EC-QX2ABM-008	
Control output 1:	2		1	_	4	_	_	E5EC-QX2ABM-010	
Voltage output (for driving SSR)			1	_	6	Provided.	Provided.	E5EC-QX2ABM-011	67.4
Control output 2:		24 VAC/ DC	_	_	_	_	_	E5EC-QX2DBM-000	
None None			_	_	_	_	_	E5EC-QX4ABM-000	
	4	100 to 240 VAC	1	RS-485	2	_	_	E5EC-QX4ABM-008	
			1	_	4	_	_	E5EC-QX4ABM-010	
		100 to 240 VAC	_	_	_	_	_	E5EC-CX2ABM-000	
Control output 1:	2	100 to 240 VAC	_	RS-485	2	_	_	E5EC-CX2ABM-004	
Linear current		24 VAC/ DC	_	_	_	_	_	E5EC-CX2DBM-000	
output Control output 2 :		100 to 240 VAC	_	_	_	_	_	E5EC-CX4ABM-000	
None None	4	100 to 240 VAC	_	RS-485	2	_	_	E5EC-CX4ABM-004	
,,,,		24 VAC/ DC	_	_	_	_	_	E5EC-CX4DBM-000	

$E5DC\text{-}B \hspace{0.2cm} \textbf{(22.5 mm Wide, and DIN Track-mounting Type)} \\$

	Auxiliary	Power supply		Optio	ons				Size	
Control outputs	outputs	voltage	HB alarm and HS alarm	Communications	Event inputs	Remote SP Input	Transfer output	Model	W×H×D) (mm)	
Control output 1 :		100 to 240 VAC	_	RS-485	_	_	_	E5DC-RX0ABM-015		
	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-RX0DBM-015		
Relay output		100 to 240 VAC	_	_	_	_	_	E5DC-RX2ABM-000		
Control output 2:	2	100 to 240 VAC	1	RS-485	_	_	_	E5DC-RX2ABM-002		
None		041/40/50	_	_	_	_	_	E5DC-RX2DBM-000		
		24 VAC/ DC	1	RS-485	_	_	_	E5DC-RX2DBM-002		
	_	100 to 240 VAC	_	RS-485	_	_	_	E5DC-QX0ABM-015		
Control output 1 :		24 VAC/ DC	_	RS-485	_	_	_	E5DC-QX0DBM-015		
Voltage output	0	100 to 240 VAC	_	_	_	_	_	E5DC-QX2ABM-000	00 51/061/	
(for driving SSR) Control output 2:			1	RS-485	_	_	_	E5DC-QX2ABM-002	22.5×96× 90*1	
None	2	2	24.VAC/DC	_	_	_	_	_	E5DC-QX2DBM-000	90
		24 VAC/ DC	1	RS-485	_	_	_	E5DC-QX2DBM-002		
		100 to 240 VAC	_	RS-485	_	_	_	E5DC-CX0ABM-015		
Control output 1:	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-CX0DBM-015		
Linear current		100 ÷- 040 VA O	_	_	_	_	_	E5DC-CX2ABM-000		
output		100 to 240 VAC	1	RS-485	_	_	_	E5DC-CX2ABM-002	7	
Control output 2:	2	2	_	_	_	_	_	E5DC-CX2DBM-000		
None		24 VAC/ DC	1	RS-485	_	_	_	E5DC-CX2DBM-002		

^{*1.}The depth is the size under the neck.

Table of applicable wires for control panel solution products and recommended products

Recommended ferrules and applicable wires 1 Common to S8VK-S03024 S8VK-S12024	24024
Common to S8VK-S03024 S8VK-S12024 S8VK-S2	24024
Applicable termina Wire diameter PE Input Output Input Output Input output side side side side side side	Output side
mm² MIN 2 0.34 0.5 0.34 0.75 0.5	2
Wire diameter Recommended ferrules MAX 2.5 2.5 2.5 2.5 2.5	2.5
Stripping length Manufactured Manufactured by MIN 22 20 22 18 20	
mm² AWG (Unit:mm) by Phoenix Contact by Weidmuller Wago AWG MAX 14 14 14 14 14 14	14
0.14 26 10 AI0,14-8 H0.14/12 -	
10 AI0,25-8 H0.25/12 216-301	
0.25 24 12 AI0,25-10	
14 AI0,25-12	
10 AI0,34-8 H0.34/12 216-302 O	
0.34 22 12 AI0,34-10 O	
14 AI0,34-12	
10 AI0,5-8 H0.5/14 216-201 O O O	
0.5 20 12 AI0,5-10 H0.5/16 216-241 O O O	
14 AI0,5-12 - 216-261	
10 AI0,75-8 H0.75/14 216-202 O O O	
0.75 18 12 AI0,75-10 H0.75/16 216-242	
14 AI0,75-12 H0.75/18 216-262	
10 Al1-8 H1.0/14 216-203 O O O	
1/1.25 18/17 12 AI1-10 H1.0/16 216-243 O O O O	
14 Al1-12 H1.0/18 216-263	
10 AI1,5-8 H1.5/14 216-204 O O O	
1.25/1.5 17/16 12 AI1,5-10 H1.5/16 216-244 O O O O	
14 Al1,5-12 H1.5/18D 216-264	
2/2.5 14 12 AI2,5-10 H2.5/16DS 216-246 O O O O	0
2/2.5 14 14 AI2,5-12 H2.5/19D 216-266	
3.5/4 12 14 AI4-12 H4.0/20D 216-267	
6 10 16 Al6-12 H6.0/20 216-208	
10 8 21 Al10-18 H10.0/28 216-289	

Note: Some models may use ferrules without an insulation sleeve. For details, please check the data sheet for each product.

Recommended crimp tool

Pho	enix Contact	Weidmuller		Wago		
Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	
CRIMPFOX 6 CRIMPFOX 6T-F CRIMPFOX 10S CRIMPFOX 25R	0.25~6 mm²/AWG24-10 0.25~6 mm²/AWG24-10 0.14~10 mm²/AWG25-7 10~25 mm²/AWG8-4	PZ 6 roto PZ 16	0.14~6 mm ² 6~16 mm ²	Variocrimp 4, 206-1204 Variocrimp 16 206-225, 206-1225	0.25~4 mm²/AWG24-12 6-16 mm²/AWG10-6 10,16,22,25 mm²	

		Product	category/	Model										
		Switch Mode F	Power Sup	plies						١	loise Filter		DC Electronic Protect	
S8VK-	S48024	Common to S8VK-S24024/ S48024	S8VK-W	/A24024	S8VK-V	VA48024	S8VK-V	VA96024	Common to S8VK-W	Common to S8V-NF	S8V- NFS203	S8V- NFS206	S8V-C	Þ
Input side	Output side	Undervoltage detection output	Input side	Output side	Input side	Output side	Input side	Output side	Signal Output / COM	PE	Input side	Output side	All terminals (Excluding Power input)	Power input
0.75	4	0.25	0.34	2	0.5	4	0.75	10	0.25	2	0.5	0.75	0.25	0.25
2.5	6	2.5	2.5	2.5	2.5	6	2.5	10	2.5	2.5	2.5	2.5	2.5	6
18	12	24	22		20	12	18		24		20	18	24	24
14	10	14	14	14	14	10	14	8	14	14	14	14	14	10
		0							0				0	0
		0							0				0	0
		0	0						0				0	0
		0	0						0				0	0
		0	0		0				0		0		0	0
		0	0		0				0		0		0	0
0		0	0		0		0		0		0	0	0	0
0		0	0		0		0		0		0	0	0	0
0		0	0		0		0		0		0	0	0	0
0		0	0		0		0		0		0	0	0	0
												-		
0		0	0		0		0		0		0	0	0	0
0		0	0		0		0		0		0	0	0	0
0		0	0	0	0		0		0	0	0	0	0	0
	0					0								0
	0					0								
								0						
		I			1				I	I			L	

Recommended Flat-blade screwdriver

Phoenix Contact	Weidmuller	Wago	Wera	Wiha	Facom	Vessel
SZS 0,4×2,5 SZF 0-0,4×2,5 *1	SDIS 0.4×2.5×75	210-719	ESD 0,40 x 2,5	0.4×2.5×75 302	AEF.2,5×75	9900 (-2.5×75)

 $[\]star$ 1. OMRON's exclusive purchase XW4Z-00B is available to order as SZF 0-0,4 \times 2,5 (manufactured by Phoenix Contact).

For the DC output terminal of S8VK-WA96024, use the following flat-blade screwdriver.

Phoenix Contact	Weidmuller	STANLEY	Wera	Wiha	Facom	Vessel
SZF 2-0,8×4,0	SDS 0.8×4.0×100	1-65-017	ESD 0,80×4,0	302\$4010	AEF.4×75	990 (-4×100)

Manufactured by Phoenix Manufactured by Phoenix Manufactured by Wago MAX	Recon	nmei	nded	ferrules	and app	licable				
Applicable terminal All terminals All terminals									Low Voltage Swi	tching Gears
Mile diameter Mile diameter Mile diameter Mile diameter Mile diameter Mile diameter Manufactured by Phoenix Contact Manufactured by Weighuller Contact Manufactured by Weighuller Contact Manufactured by Weighuller Mile Mile Mile Mile Mile Mile Mile Mile							J-	7KC、J7T	C\J7KCA	J7MC
Mire diameter Manufactured by Phoenix Contact Manufactured by Weighnuller Manufactured by Manufac									All terminals	All terminals
Min Manufactured by Phoenix Contact Manufactured by Wago AWG MIN 20 20							mm²	MIN	0.5	0.5
Manufactured by Phoenix Contact Manufactured by Wago Manufactured by Wago Max Ma	Wire dia	meter	Ctrinning	F	Recommended fe	errules	111111	MAX	2	4
nmm² AWG (unitmm) by Phoenix Contact by Weldmuller (Contact) Wago AWG (MAX) 14 12 0.14 26 10 Al0,14-8 H0.14/12 - <td< td=""><td></td><td></td><td></td><td></td><td>Manufactured</td><td>Manufactured by</td><td></td><td>MIN</td><td>20</td><td>20</td></td<>					Manufactured	Manufactured by		MIN	20	20
0.25	mm ²	AWG					AWG	MAX	14	12
0.25	0.14	26	10	AI0,14-8	H0.14/12	-				
14 Al0,25-12			10	AI0,25-8	H0.25/12	216-301				
0.34 22 12 Al0,34-10	0.25	24	12	AI0,25-10	-	-				
0.34 22 12 Al0,34·10			14	AI0,25-12	-	-				
14 Al0,34-12			10	AI0,34-8	H0.34/12	216-302				
0.5 20 10 Al0,5-8 H 0.5/14 216-201 ○ ○ 12 Al0,5-10 H 0.5/16 216-241 ○ ○ 14 Al0,5-12 - 216-261 ○ 0.75 18 12 Al0,75-18 H0.75/14 216-202 ○ 14 Al0,75-12 H 0.75/16 216-242 ○ 14 Al0,75-12 H 0.75/18 216-262 ○ 17/1.25 18/17 12 Al1-10 H 1.0/14 216-203 ○ 1/1.25 18/17 12 Al1-10 H 1.0/16 216-243 ○ 1.25/1.5 17/16 12 Al1,5-8 H 1.5/14 216-263 ○ 1.25/1.5 17/16 12 Al1,5-10 H 1.5/16 216-244 ○ 2/2.5 14 Al1,5-12 H 1.5/18D 216-264 ○ 2/2.5 14 Al2,5-10 H 2.5/16DS 216-246 △ *1 3.5/4 12 14 Al4-12 H 4.0/20D 216-267 ○ 6 10	0.34	22	12	AI0,34-10	_	-				
0.5 20 12 Al0,5-10 H0.5/16 216-241 ○ □ 14 Al0,5-12 □ 216-261 □ □ 0.75 18 10 Al0,75-8 H0.75/14 216-202 ○ □ □ □ 0.75 18 12 Al0,75-10 H0.75/16 216-242 □ □ □ 0.75/16 14 Al0,75-12 H0.75/18 216-262 □ □ □ 0.75/16 14 Al1,5-12 H1.0/14 216-203 □ □ □ 0.75/16 12 Al1-10 H1.0/16 216-243 □ □ □ 0.75/1.5 17/16 12 Al1,5-10 H1.5/14 216-204 □ □ 0.75/1.5 17/16 12 Al1,5-10 H1.5/16 216-244 □ □ 0.75/1.5 17/16 12 Al1,5-10 H1.5/16 216-244 □ □ 0.75/16 12 Al1,5-10 H1.5/16 216-264 □ □ 0.75/16 12 Al2,5-10 H2.5/16DS 216-264 □ □ 0.75/16 12 Al2,5-10 H2.5/16DS 216-266 □ 0.75/16 12 Al2,5-12 H2.5/19D 216-266 □ 0.75/16 12 Al4,1-12 H4.0/20D 216-266 □ 0.75/16 12 H4.0/20D 216-267 □ 0.75/16 □ 0.75			14	AI0,34-12	-	-				
14 Al0,5-12			10	AI0,5-8	H0.5/14	216-201				0
10 Al0,75-8 H0.75/14 216-202	0.5	20	12	AI0,5-10	H0.5/16	216-241		С)	
0.75			14	AI0,5-12	-	216-261				
14 AI0,75-12 H0.75/18 216-262 10 AI1-8 H1.0/14 216-203 1/1.25 18/17 12 AI1-10 H1.0/16 216-243 14 AI1-12 H1.0/18 216-263 10 AI1,5-8 H1.5/14 216-204 ○ 1.25/1.5 17/16 12 AI1,5-10 H1.5/16 216-244 ○ 14 AI1,5-12 H1.5/18D 216-264 ○ 2/2.5 14 12 AI2,5-10 H2.5/16DS 216-246 △ *1 2/2.5 14 AI2,5-12 H2.5/19D 216-266 △ *1 3.5/4 12 14 AI4-12 H4.0/20D 216-267 ○ 6 10 16 AI6-12 H6.0/20 216-208			10	AI0,75-8	H0.75/14	216-202		С)	0
1/1.25	0.75	18	12	AI0,75-10	H0.75/16	216-242		С		
1/1.25 18/17 12 Al1-10 H1.0/16 216-243 ○ 14 Al1-12 H1.0/18 216-263 ○ 1.25/1.5 17/16 10 Al1,5-8 H1.5/14 216-204 ○ 1.25/1.5 17/16 12 Al1,5-10 H1.5/16 216-244 ○ 14 Al1,5-12 H1.5/18D 216-264 ○ 2/2.5 14 12 Al2,5-10 H2.5/16DS 216-246 △*1 2/2.5 14 Al2,5-12 H2.5/19D 216-266 ○ 3.5/4 12 14 Al4-12 H4.0/20D 216-267 ○ 6 10 16 Al6-12 H6.0/20 216-208			14	AI0,75-12	H0.75/18	216-262				0
14 Al1-12 H1.0/18 216-263 ○ 1.25/1.5 17/16 10 Al1,5-8 H1.5/14 216-204 ○ ○ 1.25/1.5 17/16 12 Al1,5-10 H1.5/16 216-244 ○ 14 Al1,5-12 H1.5/18D 216-264 ○ 2/2.5 14 12 Al2,5-10 H2.5/16DS 216-246 △*1 2/2.5 14 Al2,5-12 H2.5/19D 216-266 ○ 3.5/4 12 14 Al4-12 H4.0/20D 216-267 ○ 6 10 16 Al6-12 H6.0/20 216-208			10	AI1-8	H1.0/14	216-203		С)	0
1.25/1.5 17/16 12 Al1,5-8 H1.5/14 216-204 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	1/1.25	18/17	12	AI1-10	H1.0/16	216-243		С)	
1.25/1.5 17/16 12 Al1,5-10 H1.5/16 216-244 ○ 14 Al1,5-12 H1.5/18D 216-264 ○ 2/2.5 14 12 Al2,5-10 H2.5/16DS 216-246 △*1 14 Al2,5-12 H2.5/19D 216-266 ○ 3.5/4 12 14 Al4-12 H4.0/20D 216-267 ○ 6 10 16 Al6-12 H6.0/20 216-208			14	AI1-12	H1.0/18	216-263				0
14 Al1,5-12 H1.5/18D 216-264 ○ 2/2.5 14 12 Al2,5-10 H2.5/16DS 216-246 △*1 14 Al2,5-12 H2.5/19D 216-266 ○ 3.5/4 12 14 Al4-12 H4.0/20D 216-267 ○ 6 10 16 Al6-12 H6.0/20 216-208			10	AI1,5-8	H1.5/14	216-204		С		\circ
2/2.5 14 12 Al2,5-10 H2.5/16DS 216-246 △*1 14 Al2,5-12 H2.5/19D 216-266 ○ 3.5/4 12 14 Al4-12 H4.0/20D 216-267 ○ 6 10 16 Al6-12 H6.0/20 216-208	1.25/1.5	17/16	12	AI1,5-10	H1.5/16	216-244		С)	
2/2.5 14 14 Al2,5-12 H2.5/19D 216-266 3.5/4 12 14 Al4-12 H4.0/20D 216-267 6 10 16 Al6-12 H6.0/20 216-208			14	AI1,5-12	H1.5/18D	216-264				0
14 Al2,5-12 H2.5/19D 216-266 3.5/4 12 14 Al4-12 H4.0/20D 216-267 6 10 16 Al6-12 H6.0/20 216-208	2/2 5	1.4	12	AI2,5-10	H2.5/16DS	216-246		Δ	*1	
6 10 16 Al6-12 H6.0/20 216-208	2/2.5	14	14	AI2,5-12	H2.5/19D	216-266				0
	3.5/4	12	14	AI4-12	H4.0/20D	216-267				0
10 8 21 Al10-18 H10.0/28 216-289	6	10	16	AI6-12	H6.0/20	216-208				
	10	8	21	AI10-18	H10.0/28	216-289				

Note :Some models may use ferrules without an insulation sleeve. For details, please check the data sheet for each product.

Recommended crimp tool

Pho	enix Contact	Wei	dmuller	Wago		
Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	
CRIMPFOX 6 CRIMPFOX 6T-F CRIMPFOX 10S CRIMPFOX 25R	0.25~6 mm²/AWG24-10 0.25~6 mm²/AWG24-10 0.14~10 mm²/AWG25-7 10~25 mm²/AWG8-4	PZ 6 roto PZ 16	0.14~6 mm ² 6~16 mm ²	Variocrimp 4, 206-1204 Variocrimp 16 206-225, 206-1225	0.25~4 mm²/AWG24-12 6-16 mm²/AWG10-6 10,16,22,25 mm²	

^{*1}. Wide Muller-made ferrules cannot be used.

	Product	category/Model				
	Sockets for Re		Sockets for Relays with Forcibly Guided Contacts	Slim I/O Relays	Terminal Relays	I/O Relay Terminals
	PYF-□-PU P2RF-□-PU	PTF-□-PU	P7SA	G2RV-ST500 G3RV- ST500□	G6D-F4PU、G3DZ-F4PU	G70V
	All terminals	All terminals	All terminals	All terminals	All terminals	All terminals (Excluding communication connector)
	0.25	0.25	0.5	0.25	0.25	0.25
	1.5	2.5	1.5	2.5	2.5	2.5
	24	24	20	24	24	24
	16	14	16	14	14	14
	0	0		0	0	0
	0	0		0	0	0
	0	0		0	0	0
	0	0		0	0	0
	_	_	_	_	_	
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	U	0	0	0		<u> </u>
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
		0		0	0	0
		0			0	0
-						

Recommended Flat-blade screwdriver

Phoenix Contact	Weidmuller	Wago	Wera	Wiha	Facom	Vessel
SZS 0,4×2,5 SZF 0-0,4×2,5 *2	SDIS 0.4×2.5×75	210-719	ESD 0,40 x 2,5	0.4×2.5×75 302	AEF.2,5×75	9900 (-2.5×75)

 $[\]pm$ 2. OMRON's exclusive purchase XW4Z-00B is available to order as SZF 0-0,4 \times 2,5 (manufactured by Phoenix Contact).

Recommended ferrules and applicable wires ③

Manufactured

by Phoenix

Contact

AI0,14-8

AI0,25-8

AI0,25-10 AI0,25-12

AI0,34-8

AI0,34-10

AI0,34-12

AI0,5-8

AI0,5-10

AI0,5-12

AI0,75-8

AI0,75-10

AI0,75-12

AI1-8

AI1-10

AI1-12

AI1,5-8

AI1,5-10

AI1,5-12

AI2,5-10

AI2,5-12

AI4-12

AI6-12

AI10-18

Wire diameter

 mm^2

0.14

0.25

0.34

0.5

0.75

1/1.25

1.25/1.5

2/2.5

3.5/4

6

10

AWG

26

24

22

20

18

18/17

17/16

14

12

10

8

Stripping

(Unit:mm)

10

10

12

10

12

14

10

12

10

12

14

10

12

14

10

12

14

12

14

16

21

		DIN T	rack Terminal Blocks	
	XW5□-P1.5	j	XW5□-P2.5-□	XW5□-P4.0-□
	A 12 1.1			
	Applicable termina		All terminals	All terminals
Wire diame	ter			
	MIN	0.14	0.14	0.25
mm ²	MAX	1.25	2.5	4
	MIN	26	26	24
AWG	MAX	18	14	12
	0		0	
	0		0	
	0		0	
				0
	0		0	
	0		0	
				0
	0		0	
	0		0	
				0
	0		0	
	0		0	
				0
	0		0	
	0		0	
				0
			0	
			0	
				0
			0	
				0
				0
1				

Note :Some models may use ferrules without an insulation sleeve. For details, please check the data sheet for each product.

Recommended ferrules

Manufactured by

Wago

216-301

216-302

216-201

216-241

216-261

216-202

216-242

216-262

216-203

216-243

216-263

216-204

216-244

216-264

216-246

216-266

216-267

216-208

216-289

Manufactured

by Weidmuller

H0.14/12

H0.25/12

H0.34/12

H0.5/14

H0.5/16

H0.75/14

H0.75/16

H0.75/18

H1.0/14

H1.0/16

H1.0/18

H1.5/14

H1.5/16

H1.5/18D

H2.5/16DS

H2.5/19D

H4.0/20D

H6.0/20

H10.0/28

Recommended crimp tool

Pho	penix Contact	Weidmuller		Wago		
Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	
CRIMPFOX 6 CRIMPFOX 6T-F CRIMPFOX 10S CRIMPFOX 25R	0.25~6 mm²/AWG24-10 0.25~6 mm²/AWG24-10 0.14~10 mm²/AWG25-7 10~25 mm²/AWG8-4	PZ 6 roto PZ 16	0.14~6 mm ² 6~16 mm ²	Variocrimp 4, 206-1204 Variocrimp 16 206-225, 206-1225	0.25~4 mm²/AWG24-12 6-16 mm²/AWG10-6 10,16,22,25 mm²	

Product category/	Model					
Common Term	ninal Blocks	Ultra-Compact Interface Wiring System	Timers, Digital Temperature Controllers, Pushbutton Switches, Solid State Relays for Heater, Component Protective Components	n Power Monitors		
XW6T-COM1.5	XW6T-COM2.5	XW2K	H3DT、E5□C-B、E5□D-B 、A22N-P□、M22N-P□、 A22NE-P、A22NE-PD、G3PJ、 K8DT	KM-N2	. KM-N3	
All terminals	All terminals	All terminals	All terminals (input terminals for G3PJ)	Power supply	Pulse output / RS-485	
0.14	0.14	0.14	0.25	0.5	0.25	
0.75	2.5	0.5	1.5	1.5	1.5	
26	26	26	24	20	24	
18	14	20	16	16	16	
0	0	0				
0	0	0	0		0	
0	0	0	0		0	
0	0	0	0		0	
0	0	0	0		0	
0	0	0	0	0	0	
0	0	0	0	0	0	
0	0		0	0	0	
0	0		0	0	0	
	0		0	0	0	
	0		0	0	0	
	0		0	0	0	
	0		0	0	0	
	0					
	l	I			<u> </u>	

Recommended Flat-blade screwdriver

Phoenix Contact	Weidmuller	Wago	Wera	Wiha	Facom	Vessel
SZS 0,4×2,5 SZF 0-0,4×2,5 *1	SDIS 0.4×2.5×75	210-719	ESD 0,40 x 2,5	0.4×2.5×75 302	AEF.2,5×75	9900 (-2.5×75)

^{*1.} OMRON's exclusive purchase XW4Z-00B is available to order as SZF 0-0,4×2,5 (manufactured by Phoenix Contact).

OMRON's Products Suppot IoT for Control Panels and Production Lines



Heater Condition Monitoring Device K7TM

Cat. No. N229-E1



Panel condition monitoring device K6PM

Cat. No. H232-E1



Motor Condition Monitoring Devices K6CM

Cat. No. N220-E1



Switch Mode Power Supplies S8VK-X

Cat. No. T211-E1



Digital Temperature Controllers E5□D/NX-TC

Cat. No. H222-E1

2019 Released in October



Low Voltage Switching Gears J7KC / J7TC / J7MC

Cat. No. J229-E1



DC Electronic Circuit Protector S8V-CP

Cat. No. T227-E1



Push-In Plus Terminal Block Relay Series PTF-PU

Cat. No. J213-E1

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