

Sustainable control panel enable to reduce environmental impact



For building green control panels

Natural disasters caused by global warming and climate change are became global social issue, that drives over 150 countries and regions worldwide to take action toward decarbonization. Our goal is to reduce greenhouse gas (GHG) emissions toward half by through new ways of building control panels, that key figure of the manufacturing site.



Realize greatly reduces design/ manufacturing work

Innovation for design, building Process

Further Evolution for Panels

Panel

Realize compact & highly reliable control panels

Building sustainable control panels

Creating green control panels

Simple & Easy People

People

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

Green

Reducing GHG emission of control panels to achieve carbon neutrality





Integrating green perspectives into Value Design

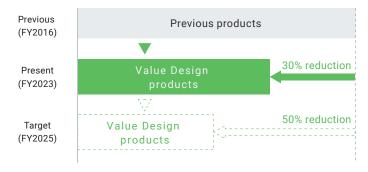
Value Design for Panel (Value Design) is the common concept shared across OMRON's in-panel product specifications to deliver new value to your control panels.

This Value Design also integrate environment consideration concept that enable earth and user-friendly control panel building.



- 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 ---- Certification for CE, UL, and CSA
- 7 ——— Green features that save energy and resources*3

CFP of control panel (total GHG emissions)*4



- *1. Expect for some products
- \pm 2. Side-by-side mounting is possible in the same series
- st3. Greener design compared to previous (2016) products
- *4. CFP (carbon footprint) of control panel is a calculation result of refering the life cycle assessment method that based on international standards ISO14067 which define CO2 quantitative conversion of the environmental burden at every stage, from manufacturing, transportation, use, and disposal of the control panel (product). According to OMRON investigation in May 2023.

Extensive lineup of products for building sustainable control panels

DIN Track Terminal Blocks

Magnetic Contactors

Ultra-Compact Interface Wiring System

Common Terminal Blocks Switch mode power supplies / Related equipment













I/O Relay Terminals



Timers

Motor Protective Relays

Power Monitors



Wireless

Pushbutton

Condition Monitoring Devices

Temperature Controllers















Switch mode power supplies / Related equipment











Products that especially contribute to reduce environmental impact

The below products reduce GHG emissions by over 50% compared to previous (2016) products through power-saving, resourcesaving, and reducing waste (according to OMRON investigation in March 2023)

Switch Mode Power Supplies (Three-phase)











S8VK-W (2 kW type)

Relays, Solid-state Relays













Uninterruptible Power Supplys

Machine Automation Controllers

Safety Relays





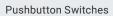






Manual Motor Starters







Power Monitors



Temperature Controllers





Ultra-Compact Interface Wiring System



DC Electronic Circuit Protectors



Motor Protective Relays/ Timers



Temperature Controllers

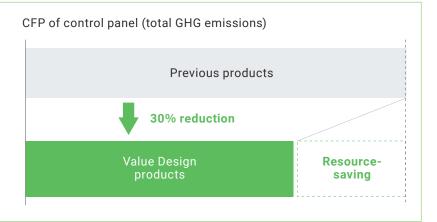


For building green control panels

Reducing GHG emissions of control panels

Our low power consumption devices allow you to easily build power-saving control panels, without compromising design philosophy.

Low power consumption devices enable power-saving control panels



Reduce control panel power consumption by replacing devices





Reducing power consumption by reviewing specifications

Review of power supply specifications

Specification change point: Circuit change associated with switching from transformer + single phase to three phase



Transformer



Switch Mode Power Supplies

(Single-phase)





Switch Mode Power Supplies (Three-phase)

Optimization of endurance specifications

Power consumption can be easily reduced by reviewing to the latest model with reduced power consumption and reviewing the most suitable model to optimize the application.





G2R-S

Power consumption can be easily reduced by reviewing to the latest model with reduced power consumption and reviewing the most suitable model to optimize the application.

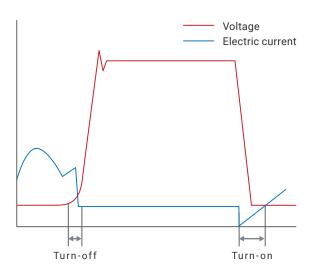
Introduction of Technology for Realizing Low Power Consumption Device

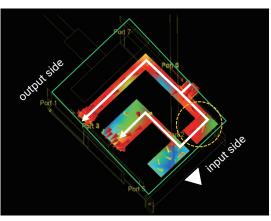
High-density/high-efficiency design that reduces power consumption of power supplies

Switching loss reduced through soft switching (minimizing intersection of voltage and current waveforms)

Noise filtering optimized through thermal analysis







Unique low power consumption display method that

reduces temperature controller power consumption







Number of lit LEDs: 13





E5CC



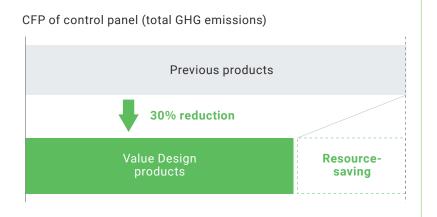
Number of lit LEDs: 3

For building green control panels

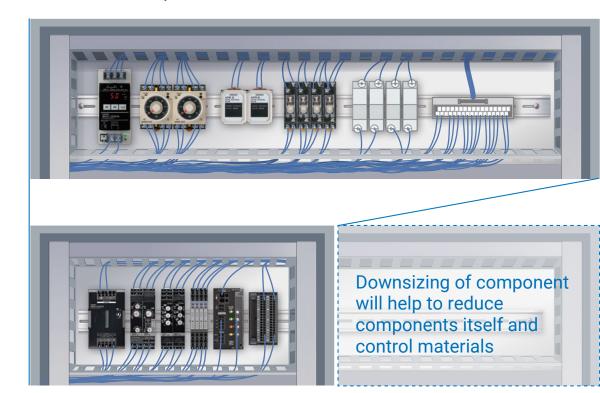
Reducing GHG emissions of control panels

Compact, slim devices with unified height and devices with reduced wiring allow for resource-saving purchased components for control panels.

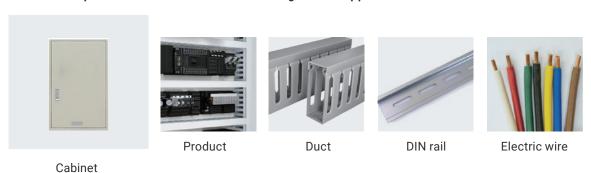
Compact devices and devices with reduced wiring enable resource-saving control panels



Miniaturization of equipment and reduced wiring enable resource conservation of control panel materials



Control components for which resource-saving can be applied



BEFORE

Panel

Additional components lighert weight contribute to material saving of control panels

Value Design for Panel		
1	S8VK-W	Weight
	(2 kW type)	3,600 g 22% reduction
	XW2K	83 g 27% reduction
	G70V	408 g 44% reduction
	S8VK-S	945 g 41% reduction
300 1	E5CC	157 g 17% reduction
	H3DT-N	122 g 16% reduction
	K8DT	118 g 31% reduction

For building green control panels

Reducing GHG emissions of control panels

OMRON helps you measure how effectively Value Design products actually reduce control panel power consumption.

Power monitors enable easy assessment of power-saving effect



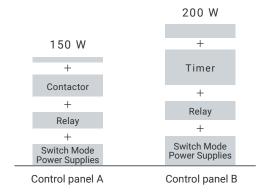
Power monitors enable visualization of power consumption reduction effect on per-control panel basis



Assessment of power consumption reduction effect requires massive effort because each control panel has different device configuration and therefore has to be measured separately

Measurements taken per model and then totaled







Power monitor constantly visualizes power consumption, with no need for separate measurements

Continuous measurement at once without individual measurement







Control panel A

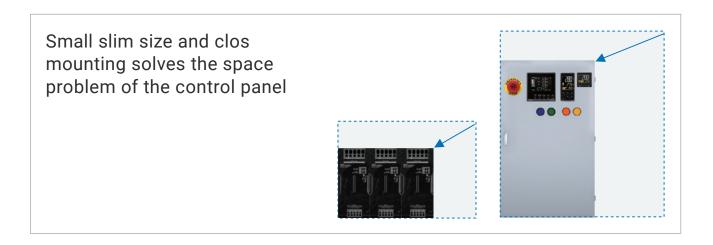
Control panel B

Power Monitors (KM-N2-FLK)

Further Evolution for Panels

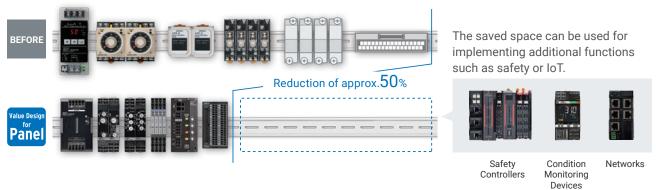
Saving Space and More-advanced Control Panels

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



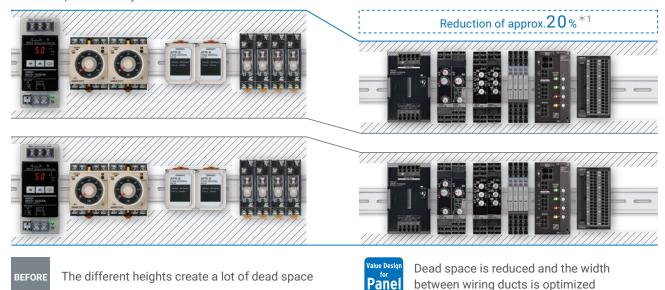
Slim + Side-by-side mounting technology save space, and make moreadvanced Control Panels

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.

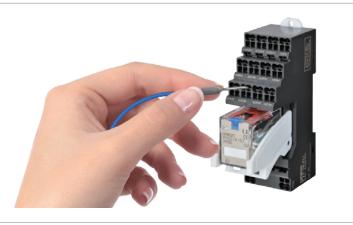


Simple & Easy People

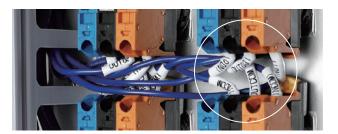
Reducing Wiring Work

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

Push-in Plus technology solves control panel wiring issues



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





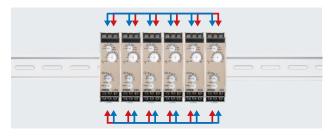
Hard wiring in the narrow space by the interference of wires due to the screw terminals requiring wiring in vertical direction





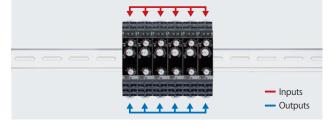
No interference of wiring helps improve workability and safety

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 output

Easy wiring with both hands for stranded wires with holding screwdriver





One hand wiring with the other hand holding the screwdriver



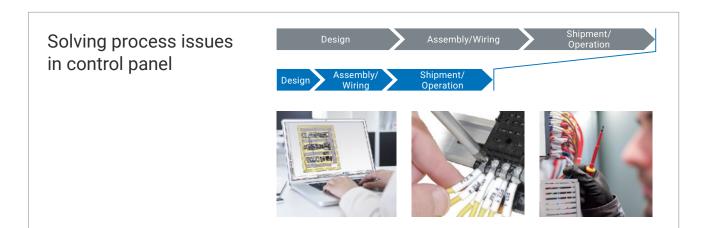


Wiring with both hands, because the screwdriver is held in the release hole

design, building Process

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 48,000 models *2, highest in the industry, to achieve the great reduction of works for electrical design drawing and data creation.

Up to 50 *1

eCAD Partners

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







uken Inc.

*1. In the case of ZUKEN E3 series*2. In the case of EPLAN, based on OMRON's investigation as of 2020 December

Assembly/ Wiring

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



- 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

Reduction of approx. 60 %



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



Push-In Plus technology completes by a single step

*3. 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.









Retightening is needed before export and shipment





Selection Guide

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

>P.18-19





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



Noise Filters S8V-NF



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



DC Electronic Circuit Protectors S8V-CP



>P.20-21

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



>P.29

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 (allowable range: 85 to 264VAC or 90 to 350 VDC)		30 W	1.3 A	1.56 A	S8VK-S03024	32×90×86
	24 VDC	60 W	2.5 A	3 A	S8VK-S06024	32×90×86
		120 W	5 A	6 A	S8VK-S12024	55×90×86
		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 (allowable range: 85 to 264 VAC, 90 to 350 VDC)	24 VDC	90 W	3.75 A	_	S8VK-X09024A-EIP	55×90×86
		120 W	5 A	6 A	S8VK-X12024A-EIP	55×90×86
		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-EIP	40×90×86
	12 VDC	60 W	4.5 A *2	5.4 A	S8VK-X06012-EIP	40×90×86
100 to 240 VAC	24 VDC	60 W	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)		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

- *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 200 to 240 VAC(Allowable range:Three-phase / single-phase170 to 264 VAC, 240 to 350 VDC) Three-phase / single-phase 200 to 240 VAC(Allowable range:		240 W	10 A	15 A	S8VK-WA24024	55×124×117
	24 VDC	480 W	20 A	30 A	S8VK-WA48024	65×124×117
		960 W	40 A	60 A	S8VK-WA96024	118×124×117
	24 VDC	2000 W	85 A	127.5 A	S8VK-WA20224	190×124×129
Three-phase / singlephase 170 to 264 VAC, 240 to 384 VAC)	48 VDC	2000 W	45 A	67.5 A	S8VK-WA20248	190×124×129

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 (Allowable range:		960 W	40 A	60 A	S8VK-WB96024	118×124×117
Three-phase / two-phase	48 VDC	240 W	5 A	7.5 A	S8VK-WB24048	55×124×117
320 to 576 VAC, 450 to 810 VDC)		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

DC Electronic Circuit Protectors S8V-CP

Cat. No. T226

Simplified safety design of DC circuits

· Saves space ev	4			
Number of Outputs	UL Class 2 output	Rated output voltage	Model	Size W×H×D (mm)
4 ch	NO	24 VDC	S8V-CP0424	44.8×90×90.8
4 011	YES		S8V-CP0424S	44.0 \ 90 \ 90.0
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 \/A C	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	DC-operated		SPST-1NC	J7KC-12-01 AC200	
		230 VAC	SPST-1NO	J7KC-12-10 AC230	
			SPST-1NC	J7KC-12-01 AC230	
		24 VDC	SPST-1NO	J7KC-12-10 DC24	
	(With built-in surge absorption unit)		SPST-1NC	J7KC-12-01 DC24	
Reversing	AC-operated	200 \/AC	SPST-1NO	J7KCR-12-10 AC200	
	AC-operated	200 VAC	SPST-1NC	J7KCR-12-01 AC200	90.5×77.5×78
magnetic contactor	DC-operated	24 VDC	SPST-1NO	J7KCR-12-10 DC24	
contactor	(With built-in surge absorption unit)	24 VDC	SPST-1NC	J7KCR-12-01 DC24	

Auxiliary contact unit

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

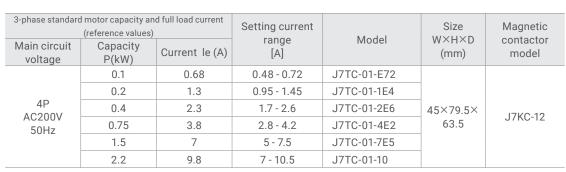
3-phase standard motor capacity and full load current (reference values)*2		Current setting Rocker switch (s		(standard type) Rotary switch (high-performance type)			Magnetic contactor	
200 to 2 Capacity [kW]	240 VAC Current [A]	Rated operating current [A]	Model	Size W×H×D (mm)	Model	Size W×H×D (mm)	model	
_	_	0.1-0.16	J7MC-3P-E16		J7MC-3R-E16			
0.03	0.24	0.16-0.25	J7MC-3P-E25		J7MC-3R-E25	45×	J7KC-12	
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	45×100×747	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	6.2.10	17MC 2D 10		17140 00 40			
2.2	9.5	6.3-10	J7MC-3P-10		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).
- *. Based on JIS C 8201-4-1



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

PYF- -- PU/PTF- -- PU/

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	e model (typical examp	le)	No. of poles	Model	Size W×H×D (mm)	
	MAYOrima	MY2	2	PYF-08-PU	01,00,071.4	
	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		G3HD 1 PTF-08-PU	43.4×90×52.1			
Relays	00110	G3H				
	G3H Seires	G3HD	1	PTF-08-PU	24.8×90×70.1	
	G9H Seires	G9H				
	000 - 000	G2R-1-S	1	P2RF-05-PU	15 5 7 0 0 7 5 7	
	G2R-□-S Seires	G2R-2-S	2	P2RF-08-PU	15.5×90×57	
	LIOV LIOVALO :	H3Y(N)-2-B	2	PYF-08-PU-L	01//00//57	
T:	H3Y、H3YN Seires	MY4 4 PYF-14-PU LY2 2 PTF-08-PU LY2-CR 2 PTF-08-PU-L LY4 4 PTF-14-PU-L G3H G3HD 1 PTF-08-PU G9H G2R-1-S 1 P2RF-05-PU G2R-2-S 2 P2RF-08-PU H3Y(N)-2-B 2 PYF-08-PU-L H3RN-1-B 1 P2RF-05-PU H3RN-2-B 2 K7L-□B 2 P7SA-10F-ND-PU DC24	31×90×57			
Timers	LIODNI O simo s	H3RN-1-B	1	P2RF-05-PU		
	H3RN Seires	H3RN-2-B	2	DODE OO DII	15.5×90×57	
Liquid Leakage Sensors	K7L Seires			PZKF-U8-PU		
Relays with Forcibly	G7SA Seires	0704	4	P7SA-10F-ND-PU DC24	22.5×100×61	
Guided Contacts	G/SA Seifes	G/SA	6	P7SA-14F-ND-PU DC24	27.7×100×61	

PYF-PU-Applicable Models

Applicable models	General Pur	pose Relays	SSRs	Timers		
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 or			

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 Pur	pose Relays	SSRs	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	
	Voo	24 VDC	G2RV-ST501 24 VDC		
	Yes	24 VAC/VDC	G2RV-ST501 24 VAC/VDC		
		12 VDC	G2RV-ST500-AP 12 VDC		
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).

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 G3RV-ST500-A 24 VAC/VDC		
AO IOdu		12 VDC	G3RV-ST500-AL 12 VDC	
	No	No 24 VDC G3RV-ST500-AL		
		24 VAC/VDC	G3RV-ST500-AL 24 VAC/VDC	

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





Terminal Relays G6D-F4PU/G3DZ-F4PU

Cat. No. J228



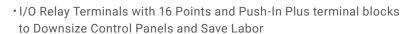
- Model with Push-In Plus technology Added to Terminal Relays with Four-point Output Lineup.
- Rated 5A is achieved with optimum designs than conventional screw-type G6D-F4B (rated 3A).

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		017707705
D MOO FFTl.	(1N0 x 4)		G3DZ-F4PU DC12	31×90×35
Power MOS FET relay		24 VDC	G3DZ-F4PU DC24	

I/O Relay Terminals G70V

Cat. No. J215







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



^{*2.}Based on OMRON comparison (excluding the H3DT-H).



Operating modes	Supply voltage	Туре	Control output	Model	Size W×H×D (mm)	
		Standard Eight-mode Timer		H3DT-N2		
Eight-mode Timer		Expansion Eight-mode Timer	or timelimit SPDT + instantaneous SPDT) Changed using a switch.	H3DT-L2		
riniei		Standard Eight-mode Timer	Contact output, SPDT	H3DT-N1		
		Expansion Eight-mode Timer	(time-limit SPDT)	H3DT-L1		
Power ON-delay	24 to 240 VAC/DC	_	Contact output, DPDT (time-limit DPDT)	H3DT-A2		
Power ON-delay		_	Contact output, SPDT (time-limit SPDT)	H3DT-A1		
Flicker OFF Start, ON start		Twin Timer (Independent ON time and OFF time settings)	Contact output: SPDT	H3DT-F	17.5×90×90	
Star-delta		_	Contact outputs Delta circuit: SPDT, Star circuit: SPDT	H3DT-G		
	100 to 120 VAC	S Series (time range: 0.1 to 12 s)		H3DT-HCS		
		L Series (time range: 1.0 to 120 s)		H3DT-HCL		
	000 : 040 \/40	S Series (time range: 0.1 to 12 s)		H3DT-HDS		
	200 to 240 VAC	L Series (time range: 1.0 to 120 s)		H3DT-HDL		
		S Series (time range: 0.1 to 12 s)	Contact output:	H3DT-HBS		
Power OFF-delay	24 to 48 VAC/DC	L Series (time range: 1.0 to 120 s)	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.

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)	Single-phase Undervoltage or Single-phase Overvoltage	K8DT-VS Cat. No. N203	
Motor		voltage	One SPDT	Upper and lower limits (redundant operation	Single-phase Undervoltage Single-phase Overvoltage	K8DT-VW Cat. No. N204	
protection				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
	phase Voltage		Upper and lower limits	Phase sequences Phase loss 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 (lev		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
	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		1:1	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		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		Applicable wire sizes*1	Model	Size W×H×D (mm)	Applicable wire sizes*	Model	Size W×H×D (mm)	
pins	Bars		VIVICE 0.0144 5V0DD	(11111)		VIII COLIO EVODO	(11111)	
	Red		XW6T-COM1.5X8RD	9.2×78		XW6T-COM2.5X8RD	12.6×82.6	
8	Blue		XW6T-COM1.5X8BL	×31.3		XW6T-COM2.5X8BL	×36.1	
	Yellow		XW6T-COM1.5X8YL	^31.3		XW6T-COM2.5X8YL	^30.1	
	Red		XW6T-COM1.5X12RD XW6T-COM1.5X12BL XW6T-COM1.5X12YL			XW6T-COM2.5X12RD	17.8×82.6	
12	Blue			12.7×78×31.3		XW6T-COM2.5X12BL	×36.1 23.0×82.6 ×36.1 28.2×82.6	
	Yellow					XW6T-COM2.5X12YL		
	Red	0.08~1.5 m㎡/	XW6T-COM1.5X16RD		0.14 to	XW6T-COM2.5X16RD		
16	Blue	,	XW6T-COM1.5X16BL	16.2×78×31.3	2.5 mm²/	XW6T-COM2.5X16BL		
	Yellow	AWG28~16	XW6T-COM1.5X16YL		AWG26 to 14	XW6T-COM2.5X16YL		
	Red		XW6T-COM1.5X20RD			XW6T-COM2.5X20RD		
20	Blue		XW6T-COM1.5X20BL	19.7×78×31.3		XW6T-COM2.5X20BL		
	Yellow		XW6T-COM1.5X20YL			XW6T-COM2.5X20YL	×36.1	
	Red		XW6T-COM1.5X40RD			XW6T-COM2.5X40RD	F4.0×00.6	
40	Blue		XW6T-COM1.5X40BL	37.2×78×31.3		XW6T-COM2.5X40BL	54.2×82.6 ×36.1	
	Yellow		XW6T-COM1.5X40YL			XW6T-COM2.5X40YL		

*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	Circuit	I/O Points	Model	Dimension W×H×D (mm)		
//ppilouble / E00	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			
Hitachi Industrial Equipment Systems	Circuit pattern A	32 Points	XW2K-40G-032C	39×75×40.8		
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	XXHXD (mm)	
Applicable 1 200	Onodit	1,0101110	Wieder	Vertical mount	Horizontal mount	
OMRON	Input	16 Points	XW2K-20G-016A-IN	52.7×75×40.8	75×52.7×40.8	
	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./ ^ 124 ^ 40.8	124/32.7/40.0	
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 5	XW2K-40G-032C-0UT	39/124/40.0	124/39/40.0	
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	
KEYENCE	Input		XW2K-34G-K32-IN	52.7×124×40.8	124×52.7×40.8	
	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)		
	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

- $\bullet \mathsf{OMRON:CS,CJ} \ \mathsf{and} \ \mathsf{NX} \ \mathsf{series} \\ \bullet \mathsf{KEYENCE:KV-1000,3000,5000,5500} \ \mathsf{and} \ \mathsf{Nano} \ \mathsf{series} \\ \bullet \mathsf{KEYENCE:KV-1000,3000,5000,5500} \ \mathsf{and} \ \mathsf{Nano} \ \mathsf{series} \\ \bullet \mathsf{Nano} \ \mathsf{Nan$
- 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 terminal	Output terminal	Insulation method	Rated	Zero	Rated load	Rated load curre temperature of Close mounting	,	Model	Size W×H×D (mm)		
	voltage fu	function	voltage	(Three SSRs)	(Three SSRs) mounting						
						15A	18A	G3PJ-215B-PU			
				24 to 240	13A 10A		DC12-24				
Push-In					VAC	VAC	VAC	25A	27A	G3PJ-225B-PU	
Plus	Screw	Phototriac	12 to 24	Yes		ZJA	Z/A	DC12-24	22.5×84×100		
terminal	terminals	coupler	VDC	165	100 to	15A	23A	G3PJ-515B-PU	22.3^04^100		
blocks	blocks				480	13A	ZSA	DC12-24			
			VAC	25A	27A	G3PJ-525B-PU					
		VAC	23A	2/A	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			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	DC 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			
	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.	KW-N3-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

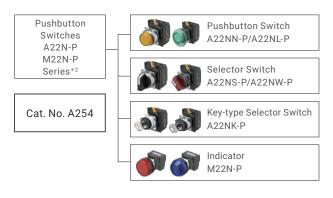
Input voltage	Output current/ capacity	Model	Size W×H×D)(mm)
24.VDC	20 A/480 W	S8BA-24D24D480SBF	44×124×120.9
24 VDC	40 A/960 W	S8BA-24D24D960SBF	52×124×120.9

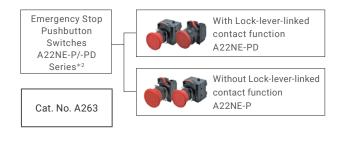
Separated battery type: Battery unit

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	
	7800 IIIAII	S8BA-24D24D960SBF	200A-2900L		

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





 $[\]star 2$. 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	Dawer aumnly		Optio	ns				Size
outputs	outputs	Power supply voltage	HB alarm and HS alarm	Communications	Event inputs	Remote SP Input	Transfer output	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	_	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	
			_	_	2	_	Provided.	E5CC-RX2DBM-006	
		100 to 240 VAC	_	_	_	_	_	E5CC-QX2ABM-000	
			1	_	2	_	_	E5CC-QX2ABM-001	48×48× 67.4*1
			1	RS-485	_	_	_	E5CC-QX2ABM-002	
Control output 1 :			_	RS-485	2	_	_	E5CC-QX2ABM-004	
Voltage output			_	_	2	_	Provided.	E5CC-QX2ABM-006	
(for driving SSR) Control output 2:	2		_	_	_	_	_	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 :			_	-	_	_	_	E5CC-CX2ABM-000	
Linear current	2	100 to 240 VAC	_	RS-485	2	_	_	E5CC-CX2ABM-004	1
output Control output 2 : None	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	Communications	Event	Remote	Transfer	Model	$W \times H \times D$
	outputs	voitage	HS alarm	Communications	inputs	SP Input	output		(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	
	2		1	RS-485	2	_	_	E5EC-QX2ABM-008	
Control output 1:		100 to 240 VAC	1	_	4	_	_	E5EC-QX2ABM-010	48×96×
Voltage output (for driving SSR)			1	_	6	Provided.	Provided.	E5EC-QX2ABM-011	67.4
Control output 2:		24 VAC/ DC	_	_	_	_	_	E5EC-QX2DBM-000	
None			_	_	_	_	_	E5EC-QX4ABM-000	7
	4	100 to 240 VAC	1	RS-485	2	_	_	E5EC-QX4ABM-008	
			1	_	4	_	_	E5EC-QX4ABM-010	
		100 ÷- 040 VA O	_	_	_	_	_	E5EC-CX2ABM-000	
Control output 1 :	2	100 to 240 VAC	_	RS-485	2	_	_	E5EC-CX2ABM-004	
		24 VAC/ DC	_	_	_	_	_	E5EC-CX2DBM-000	
Output		100 to 240 VAC	_	_	_	_	_	E5EC-CX4ABM-000	
Control output 2 : 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)		
		100 to 240 VAC	_	RS-485	_	_	_	E5DC-RX0ABM-015			
Control output 1:	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-RX0DBM-015			
Relay output		100 +- 040 1/40	_	_	_	_	_	E5DC-RX2ABM-000			
Control output 2:	0	100 to 240 VAC	1	RS-485	_	_	_	E5DC-RX2ABM-002			
None	2	04.1/4.07.00	_	_	_	_	_	E5DC-RX2DBM-000			
		24 VAC/ DC	1	RS-485	_	_	_	E5DC-RX2DBM-002			
Control output 1 :		100 to 240 VAC	_	RS-485	_	_	_	E5DC-QX0ABM-015			
	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-QX0DBM-015			
Voltage output		100 : 040 1/40	_	_	_	_	_	E5DC-QX2ABM-000			
(for driving SSR) Control output 2:	0	100 to 240 VAC	1	RS-485	_	_	_	E5DC-QX2ABM-002	22.5×96 ×90*1		
None		2	_	_	_	_	_	E5DC-QX2DBM-000			
		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					_	_	_	_	_	E5DC-CX2ABM-000	
output		100 to 240 VAC	1	RS-485	_	_	_	E5DC-CX2ABM-002			
Control output 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

Recon applic			ferrules s1	and										
							Common 3VK-S/S8\			S03024 S06024	S8VK-	S12024	S8VK-	S24024
						Wire diamet	oplicable termina	PE	Input side	Output side	Input side	Output side	Input side	Output side
						mm²	MIN	2	0.34	0.5	0.34	0.75	0.5	2
Wire dia	meter		I	Recommended fe	rrules	111111	MAX	2.5	2.5	2.5	2.5	2.5	2.5	2.5
		Stripping length	Manufactured	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				0		0			
0.34	22	12	AI0,34-10	_	_				0		0			
		14	AI0,34-12	_	-									
		10	AI0,5-8	H0.5/14	216-201				0	0	0		0	
0.5	20	12	AI0,5-10	H0.5/16	216-241				0	0	0		0	
		14	AI0,5-12	_	216-261									
		10	AI0,75-8	H0.75/14	216-202				0	0	0	0	0	
0.75	18	12	AI0,75-10	H0.75/16	216-242				0	0	0	0	0	
		14	AI0,75-12	H0.75/18	216-262									
		10	AI1-8	H1.0/14	216-203				0	0	0	0	0	
1/1.25	18/17	12	AI1-10	H1.0/16	216-243				0	0	0	0	0	
		14	AI1-12	H1.0/18	216-263									
		10	AI1,5-8	H1.5/14	216-204				0	0	0	0	0	
1.25/1.5	17/16	12	AI1,5-10	H1.5/16	216-244				0	0	0	0	0	
		14	AI1,5-12	H1.5/18D	216-264									
2/2.5	14	12	AI2,5-10	H2.5/16DS	216-246		0		0	0	0	0	0	0
	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	AI6-12	H6.0/20	216-208									
6	10	21	AI 6-18	H6.0/26DS	FE-6.0-18N-YE									
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	

			商品カテ	ゴリ/刑	 ジ式												
			パワーサプライ											Noise Filte	r	DC Electronic Protect	
S	8VK-S	48024	Common to S8VK-S24024/ S48024		3VK- 24024		3VK- 18024		3VK- 96024		K-WA	Common to S8VK-W	Common to S8V-NF	S8V- NFS203	S8V- NFS206	S8V-C	P
	out de	Output side	Undervoltage detection output	Input side	Output side	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
0.	75	4	0.25	0.34	2	0.5	4	0.75	10	2	6	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	10	2.5	2.5	2.5	2.5	2.5	6
1	8	12	24	22		20	12	18		14	10	24		20	18	24	24
1	4	10	14	14	14	14	10	14	8	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						

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)

 $[\]pm$ 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	302S4010	AEF.4×75	990 (-4×100)

Recon	nmer	nded	ferrules	and app	licable				
wires	2							Low Voltage Sw	itching Gears
						J ⁷	7KC\J7T	C、J7KCA	J7MC
							plicable termina	All terminals	All terminals
						wife diameter			
						mm²	MIN	0.5	0.5
Wire dia	meter	Stripping		Recommended fe	errules		MAX	2	4
mm²	AWG	length	Manufactured by Phoenix	Manufactured	Manufactured by	AWG	MIN	20	20
111111	AWG	(Unit:mm)	Contact	by Weidmuller	Wago	AVVG	MAX	14	12
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				
0.34	22	12	AI0,34-10	_	_				
		14	AI0,34-12	_	_				
		10	AI0,5-8	H0.5/14	216-201		0)	0
0.5	20	12	AI0,5-10	H0.5/16	216-241		0)	
		14	AI0,5-12	_	216-261				
		10	AI0,75-8	H0.75/14	216-202		0)	0
0.75	18	12	AI0,75-10	H0.75/16	216-242		О)	
		14	AI0,75-12	H0.75/18	216-262				0
		10	AI1-8	H1.0/14	216-203		О)	0
1/1.25	18/17	12	AI1-10	H1.0/16	216-243		0)	
		14	AI1-12	H1.0/18	216-263				0
		10	AI1,5-8	H1.5/14	216-204		0)	0
1.25/1.5	17/16	12	AI1,5-10	H1.5/16	216-244		0)	
		14	AI1,5-12	H1.5/18D	216-264				0
2/2.5	14	12	AI2,5-10	H2.5/16DS	216-246		Δ	. *1	
	14	14	AI2,5-12	H2.5/19D	216-266				0
3.5/4	12	14	AI4-12	H4.0/20D	216-267				0
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	Model Applicable wire diameter Name		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
	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				

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	
	XW	5□-P1.5		XW5□-P2.5-□	XW5□-P4.0-□
	Ap	plicable			
		termina	All terminals	All terminals	All terminals
	Wire diameter	er			
	^	MIN	0.14	0.14	0.25
	mm²	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
1		0		0	
1		0			
1					0
				0	
+					0
				0	
1					0
1					0
+					

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

Phoenix 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 Terminal Blocks		Ultra-Compact Interface Wiring System	Timers, Digital Temperature Controllers, Pushbutton Switches, Solid State Relays for Heater, Component Protective Components	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				

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×	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



Advanced Motor Condition Monitoring Device K7DD

Cat. No. N235-E1



Heater Condition Monitoring Device K7TM

Cat. No. N229-E1



Insulation Resistance Monitoring Device K7GE

Cat. No. N226-E1



Panel condition monitoring device K6PM

Cat. No. H232-E1



Motor Condition Monitoring Devices K6CM

Cat. No. N220-E1

2019 Released in October



Switch Mode Power Supplies S8VK-X

Cat. No. T211-E1



Digital Temperature Controllers E5□D/NX-TC

Cat. No. H222-E1

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