

Correction Reissue

OMRON

Modifications Notices

Power Supplies

Issue Date December 1, 2020

No. 2020065AE(3)

Modification Notice of changes to product label to conform to the new safety standards that Switch Mode Power Supplies model S8VK-T series 480W and 960W Models apply, and design changes to improvement both in parts procurement and usability.

<< REQUEST >>

There was modification in portion of modification notices of Product News No. 2020065AE(2) of August 2020 issue. What we have changed is as follows;

Change of conditions for conforming of harmonic current (960 W only)

·Change of dimensions of packing case (960 W only)

Please abolish old edition, replace the latest No. 2020065AE(3).

[Effective Date]

480 W: Effective as of our production in December 2020. 960 W: Effective as of our production in June 2021.

[Applicable Model]

Model S8VK-T48024 Model S8VK-T96024 Model S8VK-T48024-400 Model S8VK-T96024-400 Model S82Y-VK10F



[Reason for change]

Conformity to new safety standards and change of certification body and improvement of parts procurement and improvement of usability

[Change of products specification]

Necessary

[Changes] Change of acquisition status of safety standards

In the table	e below, change the applicable standards.		
	Before the change	After the change	
North America *2	UL 508	UL 508 (No change)	
	UL 60950-1	UL 61010-2-201 (Changed) *1	
	CSA C22.2 No.60950-1 (cur)	CSA C22.2 No.61010-2-201(cool) (Changed) *1	
	ANSI/ISA 12.12.01	Withdraw	
	EN 60950-1	EN 61010-2-201 (Changed) *1	
	EN 50178	EN 62477-1 (Changed)	
F +0	EN 61558-2-16	EN 61558-2-16 (No change)	
Europe *2	EN 50274	Withdraw	
	PELV: EN 60204-1, EN 50178	PELV:EN 60204-1 (Changed)	
	CE mark	CE mark (No change)	
	EAC mark	EAC mark (No change)	
	RCM mark	RCM mark (No change)	
	Harmonic current: EN61000-3-2 480W:	Harmonic current: EN61000-3-2 (Changed) 480W:	
	3-phase 100% or less of rated output current 2-phase 65% or less of rated output current 960W:	3-phase 100% or less of rated output current 2-phase 100% or less of rated output current 960W:	
	3-phase 100% or less of rated output current 2-phase 45% or less of rated output current	3-phase 100% or less of rated output current 2-phase 80% or less of rated output current	
	EMI: EN61204-3 480W:	EMI: EN61204-3 (Changed) 480W:	
	3-phase 100% or less of rated output current (ClassB)	3-phase 100% or less of rated output current (ClassB)	
	2-phase 65% or less of rated output current (ClassB)	2-phase 100% or less of rated output current (ClassB)	
	2-phase 65% to 100% of rated output current (ClassA) 960W:	960W:	
Others	3-phase 100% or less of rated output current (ClassB)	3-phase 100% or less of rated output current (ClassB)	
	2-phase 45% or less of rated output current (ClassB)	2-phase 45% or less of rated output current (ClassB)	
	2-phase 45% to 100% of rated output current (ClassA)	2-phase 45% to 100% of rated output current (ClassA)	
	EMS: EN61204-3 high severity levels	EMS: EN61204-3 high severity levels (No change)	
	LR	LR (Change the certification condition)	
	480W: External noise filter is not required	480W: External noise filter is not required	
-	960W: External noise filter is not required	960W: External noise filter is required (FH3288-10-44-C34-R65)	
	When using the front mounting bracket	When using the front mounting bracket	
	480W: Model S82Y-VK10F ×1	480W: Model S82Y-VK90F ×1	
	960W: Model S82Y-VK10F ×2	960W: Model S82Y-VK90F ×1	
	SEMI: F47-0706 480W:	SEMI: F47-0706 (Changed) 480W:	
	3-phase 50% or less of rated output current 960W:	3-phase 100% or less of rated output current 960W:	
	3-phase 92.5% or less of rated output current 60950-1 will expire on December 20th, 2020, EN 6	3-phase 100% or less of rated output current	

*1 Since EN 60950-1 will expire on December 20th, 2020, EN 61010-2-201 will be the successor for conformity. According to it, we will acquire UL 61010-2-201 and CSA C22.2 No.61010-2-201(cUL) certificate as the successor to UL and CSA standard. Therefore, there is no problem in use and distribution in Europe and North America.

*2 Safety Standards for a DC Input (excluding 960W because of not covered by DC input) Before the change: UL 60950-1, CSA C22.2 No.60950-1, EN 60950-1, EN 50178, EN 61558-2-16, LR After the change: EN 62477-1, EN 61558-2-16, LR

[Changes] Change recommended circuit-breakers and fuse

In the table below, change the recommended circuit-breakers and fuse.

	· •	Before the change	After the change	
Model	Input	Recommended power circuit-breakers	Recommended power circuit-breakers *2	
	3-phase	Circuit breaker: 480 V, 5 A, characteristic D, 3-pole or equivalent breaker *1	Circuit breaker: 480 VAC min., 4 to 20 A, Type B, C, D characteristic	
S8VK-T 48024	2-phase	Fuse: 600 V, 10 A, Fast Acting or identical function fuse *1	Circuit breaker: 480 VAC min., 4 to 20 A, Type B, C, D characteristic Fuse: Fast-acting type, 600 VAC min., 10 A	
	DC	Fuse: 600 V, 10 A, Fast Acting or identical function fuse	Fuse: Fast-acting type, 600 VDC min., 10 A	
	3-phase	Circuit breaker: 480 V, 5 A, characteristic D, 3-pole or equivalent breaker *1	Circuit breaker: 480 VAC min., 5 to 20 A, Type B, C, D characteristic	
S8VK-T 96024	2-phase	Fuse: 600 V, 10 A, Fast Acting or identical function fuse *1	Circuit breaker: 480 VAC min., 8 to 20 A, Type B, C, D characteristic Fuse: Fast-acting type, 600 VAC min., 10 A	
	DC	Not applicable	Not applicable	

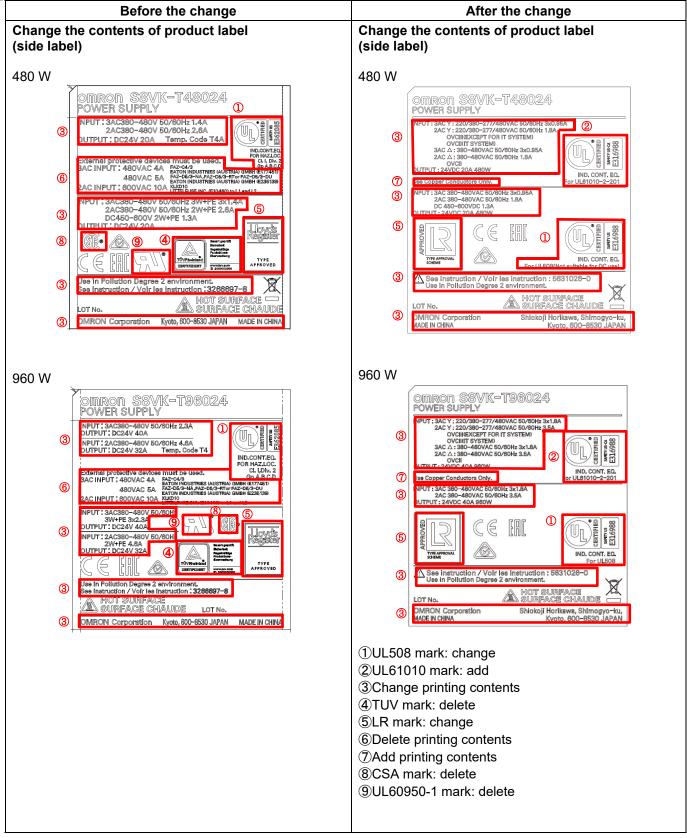
*1 The following supplementary circuit-breakers / fuse must be used in accordance with UL 508 and ANSI/ISA 12.12.01

3-phase input: Model FAZ-D5/3-NA, FAZ-D5/3-RT or FAZ-D5/3-DU

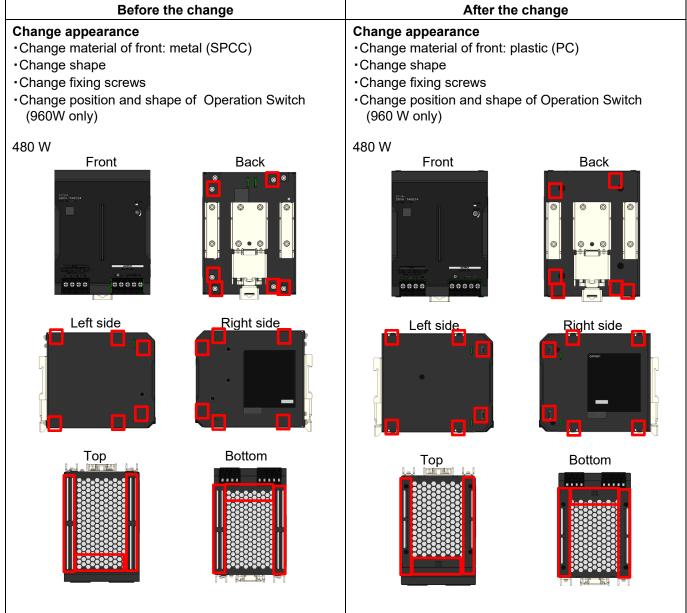
2-phase input: Model KLKD10

*2 To comply with safety standards EN/IEC 62477-1, and EN/IEC 61558-2-16 and to ensure safety when using the Product, be sure to use recommended circuit-breakers or fuses to connect the input to the Product. To comply with UL508, UL61010-2-201, CSA C22.2 No.61010-2-201 and EN 61010-2-201, connection of recommended circuit breakers or fuses is not required.

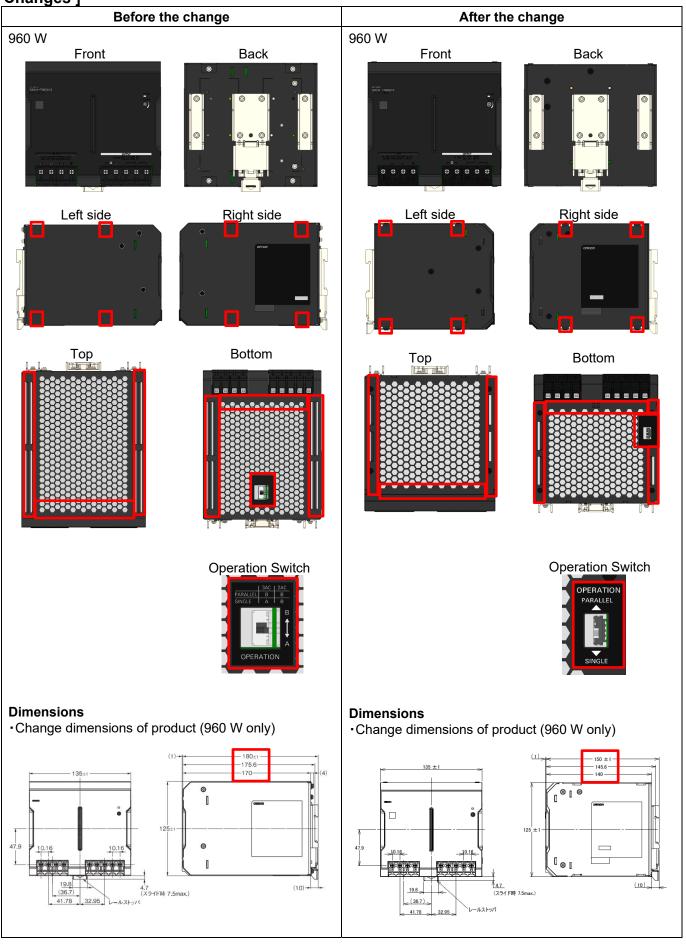
[Changes]



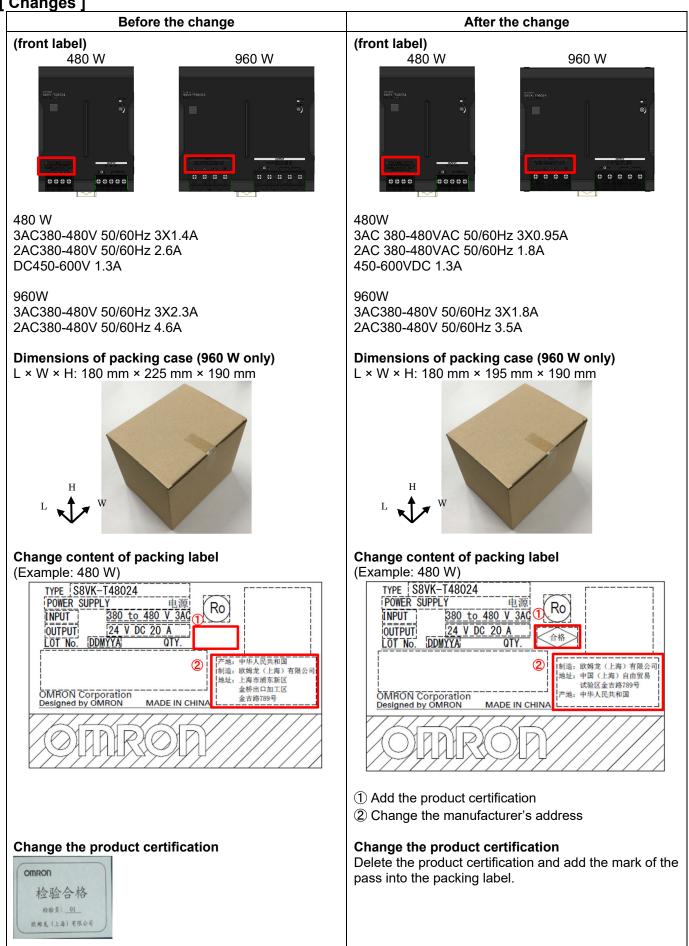
[<u>Changes]</u>



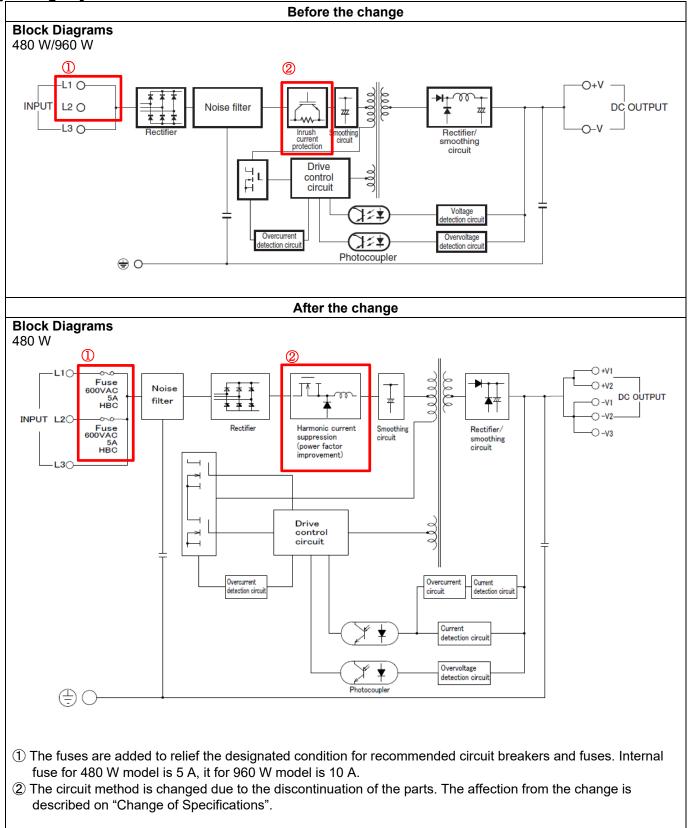




[Changes]



[Changes]



[Changes] Change of specifications

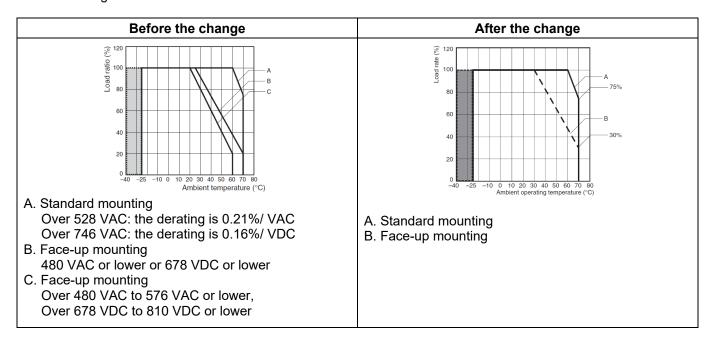
In the table below, change the Ratings, Characteristics, and Functions

•480 W

	Item	Input	Before the change	After the change
Efficiency		3-phase 400 VAC	87% min. 91% typ.	88% min. 93% typ.
Input		3-phase 400 VAC	1.4 A max. 1.2 A typ.	0.90 A max. 0.80 A typ.
	Input current	2-phase 400 VAC	2.6 A max. 2.4 A typ.	1.7 A max. 1.5 A typ.
		600 VDC	1.3 A max. 0.89 A typ.	1.0 A max. 0.89 A typ.
	Power factor	3-phase 400 VAC	-	0.9 min.
	Inrush current	3-phase 400 VAC	37.5 A max. 28 A typ.	12 A max. 4 A typ.
	Voltage adjustment range		22.5 to 29.5 VDC	24 to 29.5 VDC
	Ripple & Noise voltage *1	3-phase 400 VAC	130 mV[p-p] max.	30 mV[p-p] max.
		3-phase 380 VAC (Reference value)	600 ms typ.	500 ms typ.
	Start up time	3-phase 400 VAC	1000 ms max. 500 ms typ.	1000 ms max. 500 ms typ.
Output		3-phase 480 VAC (Reference value)	400 ms typ.	500 ms typ.
		3-phase 380 VAC (Reference value)	15 ms typ.	40 ms typ.
	Hold time	3-phase 400 VAC	16 ms min. 20 ms typ.	16 ms min. 40 ms typ.
		3-phase 480 VAC (Reference value)	40 ms typ.	40 ms typ.
Additional functions	()vorvoltago protoction		125 to 160 % of rated output voltage	130 to 160 % of rated output voltage
Environment	Ambient operating t	emperature *2	-40 to +70°C	-40 to +70°C
Construction Weight			1600 g max.	1400 g max.

*1 20 MHz or less noise is measured.

*2 The derating curve is described below.



[Changes] Change of specifications

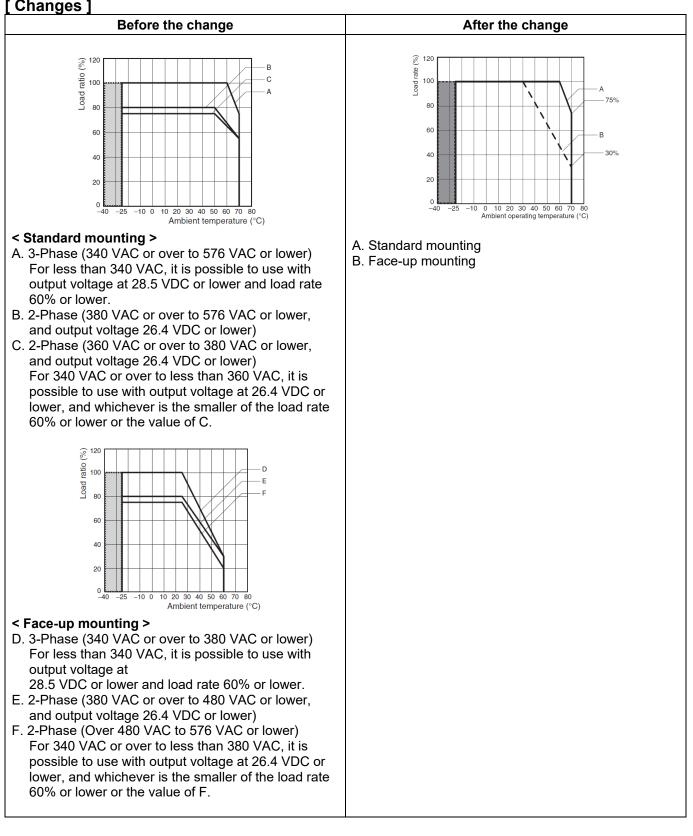
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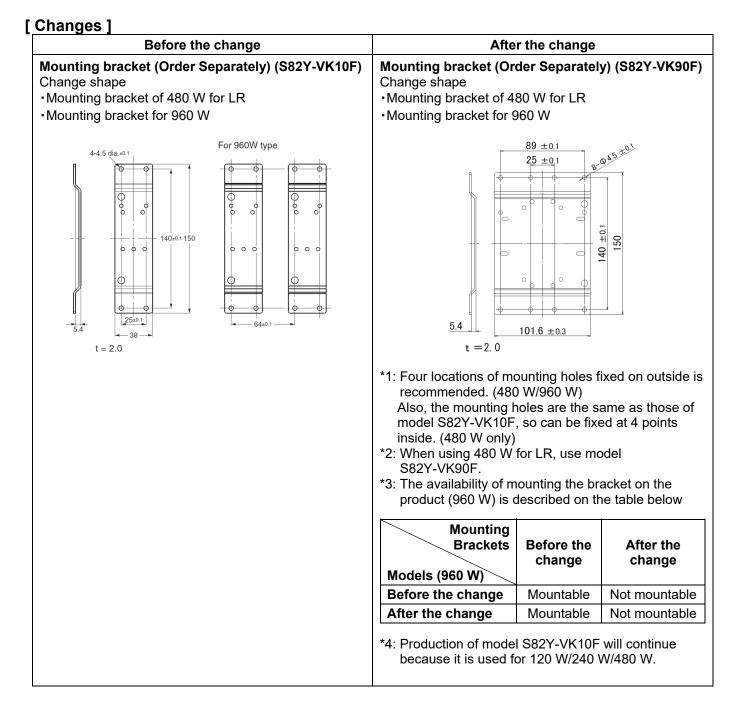
•960 W

ltem		Input	Before the change	After the change
Efficiency		3-phase 400 VAC	87% min. 92% typ.	89% min. 93% typ.
Input	Input current	3-phase 400 VAC	2.3 A max. 2.1 A typ.	1.8 A max. 1.6 A typ.
		2-phase 400 VAC	4.6 A max. 4.4 A typ.	3.3 A max. 3.0 A typ.
		600 VDC	-	-
	Power factor	3-phase 400 VAC	-	0.9 min.
	Inrush current	3-phase 400 VAC	37.5 A max. 28 A typ.	18 A max. 6 A typ.
	Voltage adjustment range		22.5 to 29.5 VDC (2-phase: 26.4 V max)	24 to 29.5 VDC
	Ripple & Noise voltage *1	3-phase 400 VAC	90 mV[p-p] max.	60 mV[p-p] max.
	Start up time	3-phase 380 VAC (Reference value)	800 ms typ.	500 ms typ.
Output		3-phase 400 VAC	1000 ms max. 700 ms typ.	1000 ms max. 500 ms typ.
Output		3-phase 480 VAC (Reference value)	600 ms typ.	500 ms typ.
	Hold time	3-phase 380 VAC (Reference value)	15 ms typ.	35 ms typ.
		3-phase 400 VAC	16 ms min. 20 ms typ.	16 ms min. 35 ms typ.
		3-phase 480 VAC (Reference value)	35 ms typ.	35 ms typ.
Additional functions	Overvoltage protection		125 to 160 % of rated output voltage	130 to 160 % of rated output voltage
Environment	ent Ambient operating temperature *2		-40 to +70°C	-40 to +70°C
Construction Weight		2700 g max.	2000 g max.	

*1 20 MHz or less noise is measured. *2 The derating curve is described on next page.

Changes]





Specifications in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.



Omron Electronics GmbH

Automation Elisabeth-Selbert-Straße 17 D-40764 Langenfeld

Telefon: +49 (0)2173 68 00-0 Fax: +49 (0)2173 68 00-400 E-Mail: info_de@omron.com

> Robotics Revierstraße 5 D-44379 Dortmund

Telefon: +49 (0)231 75 89 4-0 Fax: +49 (0)231 75 89 4-50 E-Mail: info_de@omron.com

industrial.omron.de

17.02.2021

Modifikation der S8VK-T Reihe (960W)

Sehr geehrte Damen und Herren,

«Customer Name»

«Address Line 2»

«Postal Code» «City»

Leitung Einkauf

hiermit informieren wir Sie über die Modifikationen bei den 960 W Modellen der S8VK-T Reihe. Folgende Anpassungen werden vorgenommen:

- Änderung der Konformitätsbedingungen der Oberschwingungsströme
- Änderung der Abmessungen des Verpackungskartons

Die Modifikationen finden ab Juni 2021 Anwendung.

Für die Auswahl eines für Sie geeigneten Nachfolgemodells steht Ihnen selbstverständlich der für Sie zuständige Vertriebsingenieur oder unser Technical Support Team jederzeit gern beratend zur Seite.

Technical Support Components Mail.: <u>cr.components@omron.com</u> Tel. : +49 (0) 2173 6800 590

Mit freundlichen Grüßen

Omron Electronics GmbH

1.V. J. Ju

i. V. Mathias Schneidler Teamleader Technical Support DACH

i. A. T. Brockman

i. A. Thomas Brockmann Product Specialist Components DACH

> Geschäftsführer: Dr. Klaus Kluger, Yvonne Uyum-Westerman Sitz: Langenfeld, HR Abt. B 46335 Amtsgericht Düsseldorf Bank JPMorgan Bank Luxembourg S.A. IBAN: LU65 0670 0070 0004 7679 / BIc/Swift: CHASLULX

