



Product Service

# CERTIFICATE

No. Z10 080658 0308 Rev. 00

**Holder of Certificate:** **Suzhou Inovance Technology Co., Ltd.**  
No.16, Youxiang Road, Yuexi Town, Wuzhong District  
215104 Suzhou  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** **Safety components**  
**(AC Drives)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** IS97667C

**Valid until:** 2026-11-10

**Date,** 2021-11-15

( Christian Dirmeier )

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<b>Parameters:</b>	Rated input	See model list for detail
	Rate output	See model list for detail
	Temperature range	-20 °C up to 50 °C, above 50 °C derating 2.5% per degree, max. 60 °C
	Humidity	Below 95% RH
	Altitude	< 2000 m for 3-phase models used in IT system < 4000 m for 3-phase models used in TN system and single phase models
	Safety function	STO (SIL 3)

**Tested according to:**

ISO 13849-1:2015 (Cat. 3, PL e)  
 EN ISO 13849-1:2015 (Cat. 3, PL e)  
 IEC 61508-1:2010 (SIL 3)  
 IEC 61508-2:2010 (SIL 3)  
 EN 61508-1:2010 (SIL 3)  
 EN 61508-2:2010 (SIL 3)  
 IEC 61800-5-1:2007  
 IEC 61800-5-1:2007/AMD1:2016  
 IEC 61800-5-2:2016  
 EN 61800-5-1:2007/A1:2017  
 EN 61800-5-2:2017  
 IEC 62061:2021 (maximum SIL 3)  
 EN IEC 62061:2021 (maximum SIL 3)

**Model(s): MD800 Series**

## Nomenclature

### 3-phases models

Converter Unit Model designation (non-safety related)					
MD800	-0	-4T	12	B	(a)
I	II	III	IV	V	VI
I	MD800 series				
II	-0: Converter Unit				
III	-4T: 3-phases				
IV	Rating Input Current 12: 12.0 A / 16.0 A 22: 22.0 A / 33.0 A 41: 41.0 A / 44.0 A				
V	Brake Function Blank: without internal brake function B: with internal brakefunction				
VI	Others, blank or combination of any alphanumeric and/or symbols that represents customer identity				

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Inverter Unit Model designation:					
MD800	-2	-4T	1R8	S	(a)
I	II	III	IV	V	VI
I	MD800 series				
II	-1: Single Axis -2: Double Axes				
III	-4T: 3-phases				
IV	Rating output Current 1R8: 1.8 A / 2.1 A 3R4: 3.4 A / 4.6 A 4R8: 4.8 A / 5.4 A 5R5: 5.5 A / 9.0 A 9R5: 9.5 A / 12 A 13: 13.0 A / 17.0 A 17: 17.0 A / 21.0 A				
V	STO Function Blank: without STO function S: with STO function				
VI	Suffix (non-safety related): blank or combination of any alphanumeric and/or symbols that represents customer identity				

## single phase models

Converter Unit Model designation (non-safety related)					
MD800	-0	-2S	24	B	(a)
I	II	III	IV	V	VI
I	MD800 series				
II	-0: Converter Unit				
III	-2S: Single phase				
IV	Rating Input Current 24: 24.0 A / 27.0 A 40: 40.0 A / 44.0 A				
V	Brake Function Blank: without internal brake function B: with internal brake function				
VI	Others, blank or combination of any alphanumeric and/or symbols that represents customer identity				

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Inverter Unit Model designation:					
MD800	-2	-2S	1R7	S	(a)
I	II	III	IV	V	VI
I	MD800 series				
II	-1: Single Axis -2: Double Axes				
III	-2S: Single phase				
IV	Rating output Current 1R7: 1.7 A / 1.9 A 3: 3.0 A / 3.5 A 5: 5.0 A / 8.0 A 8: 8.0 A / 9.6 A 11: 11.0 A / 17.6 A				
V	STO Function Blank: without STO function S: with STO function				
VI	Suffix (non-safety related): blank or combination of any alphanumeric and/or symbols that represents customer identity				

## List of certified models

### 3-phases models

Classify	Power (KW)	Model no.	Input	Output
Rectifier modules (non-safety related)	3.7	MD800-0-4T12(a)	3PH AC 380-480V 12.0/16.0A 50/60Hz	DC 510-720V 12.2/16.0A
		MD800-0-4T12B(a)	3PH AC 380-480V 12.0/16.0A 50/60Hz	DC 510-720V 12.2/16.0A
	7.5	MD800-0-4T22(a)	3PH AC 380-480V 22.0/33.0A 50/60Hz	DC 510-720V 22.4/33.0A
		MD800-0-4T22B(a)	3PH AC 380-480V 22.0/33.0A 50/60Hz	DC 510-720V 22.4/33.0A
	15	MD800-0-4T41(a)	3PH AC 380-480V 41.0/44.0A 50/60Hz	DC 510-720V 41.8/44.6A
		MD800-0-4T41B(a)	3PH AC 380-480V 41.0/44.0A 50/60Hz	DC 510-720V 41.8/44.6A

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Inverter Modules (Double axes)	0.4	MD800-2-4T1R8S(a)	DC 510-720V 4.5/5.3A	2 x 3PH AC 0-480V 0-599Hz 1.8/2.1A
	0.75	MD800-2-4T3R4S(a)	DC 510-720V 8.5/11.5A	2 x 3PH AC 0-480V 0-599Hz 3.4/4.6A
	1.5	MD800-2-4T4R8S(a)	DC 510-720V 12.0/13.5A	2 x 3PH AC 0-480V 0-599Hz 4.8/5.4A
	2.2	MD800-2-4T5R5S(a)	DC 510-720V 13.7/22.4A	2 x 3PH AC 0-480V 0-599Hz 5.5/9.0A
	3.7	MD800-2-4T9R5S(a)	DC 510-720V 23.7/29.8A	2 x 3PH AC 0-480V 0-599Hz 9.5/12.0A
Inverter Modules (single axis)	0.4	MD800-1-4T1R8S(a)	DC 510-720V 2.3/2.6A	3PH AC 0-480V 0-599Hz 1.8/2.1A
	0.75	MD800-1-4T3R4S(a)	DC 510-720V 4.2/5.7A	3PH AC 0-480V 0-599Hz 3.4/4.6A
	1.5	MD800-1-4T4R8S(a)	DC 510-720V 6.0/6.7A	3PH AC 0-480V 0-599Hz 4.8/5.4A
	2.2	MD800-1-4T5R5S(a)	DC 510-720V 6.9/11.2A	3PH AC 0-480V 0-599Hz 5.5/9.0A
	3.7	MD800-1-4T9R5S(a)	DC 510-720V 11.8/16.1A	3PH AC 0-480V 0-599Hz 9.5/13.0A
	5.5	MD800-1-4T13S(a)	DC 510-720V 16.2/21.1A	3PH AC 0-480V 0-599Hz 13.0/17.0A
	7.5	MD800-1-4T17S(a)	DC 510-720V 21.2/26.0A	3PH AC 0-480V 0-599Hz 17.0/21.0A

Note: (a) means blank or combination of any alphanumeric and/or symbols that represents customer identity, non-safety related

## single phase models

Classify	Power (KW)	Model no.	Input	Output
Rectifier modules (non-safety related)	2.2	MD800-0-2S24(a)	1PH AC 200-240V 24.0/27.0A 50/60Hz	DC 270-360V 13.5/15.1A
		MD800-0-2S24B(a)	1PH AC 200-240V 24.0/27.0A 50/60Hz	DC 270-360V 13.5/15.1A
	3.7	MD800-0-2S40(a)	1PH AC 200-240V 40.0/44.0A 50/60Hz	DC 270-360V 22.6/24.8A
		MD800-0-2S40B(a)	1PH AC 200-240V 40.0/44.0A 50/60Hz	DC 270-360V 22.6/24.8A

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Inverter Modules (Double axes)	0.2	MD800-2-2T1R7S(a)	DC 270-360V 4.3/4.8A	2 x 3PH AC 0-240V 0-599Hz 1.7/1.9A
	0.4	MD800-2-2T3S(a)	DC 270-360V 7.5/8.8A	2 x 3PH AC 0-240V 0-599Hz 3.0/3.5A
	0.75	MD800-2-2T5S(a)	DC 270-360V 12.5/20.0A	2 x 3PH AC 0-240V 0-599Hz 5.0/8.0A
	1.5	MD800-2-2T8S(a)	DC 270-360V 20.0/24.0A	2 x 3PH AC 0-240V 0-599Hz 8.0/9.6A
	2.2	MD800-2-2T11S(a)	DC 270-360V 27.5/44.0A	2 x 3PH AC 0-240V 0-599Hz 11.0/17.6A
Inverter Modules (single axis)	0.2	MD800-1-2T1R7S(a)	DC 270-360V 2.1/2.4A	3PH AC 0-240V 0-599Hz 1.7/1.9A
	0.4	MD800-1-2T3S(a)	DC 270-360V 3.7/4.4A	3PH AC 0-240V 0-599Hz 3.0/3.5A
	0.75	MD800-1-2T5S(a)	DC 270-360V 6.2/10.0A	3PH AC 0-240V 0-599Hz 5.0/8.0A
	1.5	MD800-1-2T8S(a)	DC 270-360V 10.0/12.0A	3PH AC 0-240V 0-599Hz 8.0/9.6A
	2.2	MD800-1-2T11S(a)	DC 270-360V 13.7/22.0A	3PH AC 0-240V 0-599Hz 11.0/17.6A

Note: (a) means blank or combination of any alphanumeric and/or symbols that represents customer identity, non-safety related