



Product Service

CERTIFICATE

No. Z10 080658 0383 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

Test report no.: **SS99745C**

Valid until: 2027-11-28

Date, 2022-11-30

(Christian Dirmeier)



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Parameters:	Rated input	See model list for detail
	Rate output	See model list for detail
	Temperature range	-10 to +50 °C
	Humidity	Below 95% RH
	Altitude	Below 3000 m
	Safety function	STO (SIL 3, Cat. 3, PL e)

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 61800-5-2:2016
	EN 61800-5-2:2017
EN IEC 62061:2021 (maximum SIL 3)	
IEC 62061:2021 (maximum SIL 3)	

Model(s): MD520 series

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Nomenclature of MD520 Series:

MD520 **-** ****** ****** ***** ***** ***** *****
 I II III IV V VI VII

Key	No.	Content
Product category	I	AC drive
Voltage class	II	4T: Three-phase 380 V to 480 V 2T: Three-phase 200 V to 240 V 2S: Single-phase 200 V to 240 V
Power rating	III	0.4: 0.4kW 0.7: 0.75kW 1.1: 1.1kW 1.5: 1.5kW 2.2: 2.2kW 3.0: 3.0kW 3.7: 3.7kW 5.5: 5.5kW 7.5: 7.5kW 11: 11kW 15: 15kW 18.5: 18.5kW 22: 22kW 30: 30kW 37: 37kW 45: 45kW 55: 55kW 75: 75kW 90: 90kW 110: 110kW 132: 132kW 160: 160kW 200: 200kW 220: 220kW 250: 250kW 280: 280kW 315: 315kW 355: 355kW 400: 400kW
Braking unit (non-safety related)	IV	Null: not provided B: Braking provided
Safety function	V	Null: not provided S: STO function provided
Reactor (non-safety related)	VI	Null: not provided -T: A DC reactor is provided -L: An output AC reactor is provided
Suffix (non-safety related)	VII	(a): The model number may include a suffix "XXXXXXXXXX", Where "XXXXXXXXXX" can be blank or combination of any alphanumeric and/or symbols that represents customer identity.

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List of certified models:

Size	Model	Rated Input	Rated Output
T1	MD520-4T0.4BS(a)	3PH AC 380-480V 1.8A/2.5A 50/60Hz	3PH AC 0-480V 1.5A/2.1A 0-599Hz 0.4kW/0.75kW
	MD520-2T0.4BS(a)	3PH AC 200-240V 2.4A/3.7A 50/60Hz	3PH AC 0-240V 2.4A/3.1A 0-599Hz 0.4kW/0.75kW
	MD520-4T0.7BS(a)	3PH AC 380-480V 2.4A/3.7A 50/60Hz	3PH AC 0-480V 2.1A/3.1A 0-599Hz 0.75kW/1.1kW
	MD520-2T0.7BS(a)	3PH AC 200-240V 4.6A/6.4A 50/60Hz	3PH AC 0-240V 3.8A/5.1A 0-599Hz 0.75kW/1.1kW
	MD520-4T1.1BS(a)	3PH AC 380-480V 3.7A/4.6A 50/60Hz	3PH AC 0-480V 3.1A/3.8A 0-599Hz 1.1kW/1.5kW
	MD520-2T1.1BS(a)	3PH AC 200-240V 6.3A/9.1A 50/60Hz	3PH AC 0-240V 5.1A/7.2A 0-599Hz 1.1kW/1.5kW
	MD520-4T1.5BS(a)	3PH AC 380-480V 4.6A/6.4A 50/60Hz	3PH AC 0-480V 3.8A/5.1A 0-599Hz 1.5kW/2.2kW
	MD520-2T1.5BS(a)	3PH AC 200-240V 9.0A/11.3A 50/60Hz	3PH AC 0-240V 7.2A/9.0A 0-599Hz 1.5kW/2.2kW
	MD520-4T2.2BS(a)	3PH AC 380-480V 6.3A/9.1A 50/60Hz	3PH AC 0-480V 5.1A/7.2A 0-599Hz 2.2kW/3.0kW
	MD520-4T3.0BS(a)	3PH AC 380-480V 9.0A/11.3A 50/60Hz	3PH AC 0-480V 7.2A/9A 0-599Hz 3.0kW/3.7kW
T2	MD520-4T3.7BS(a)	3PH AC 380-480V 11.4A/15.9A 50/60Hz	3PH AC 0-480V 9A/13A 0-599Hz 3.7kW/5.5kW
	MD520-2T2.2BS(a)	3PH AC 200-240V 11.4A/15.9A 50/60Hz	3PH AC 0-240V 9.0A/13A 0-599Hz 2.2kW/3.7kW
	MD520-2T3.7BS(a)	3PH AC 200-240V 16.7A/22.4A 50/60Hz	3PH AC 0-240V 13A/17A 0-599Hz 3.7kW/5.5kW
	MD520-4T5.5BS(a)	3PH AC 380-480V 16.7A/22.4A 50/60Hz	3PH AC 0-480V 13A/17A 0-599Hz 5.5kW/7.5kW
	MD520-2S0.4BS(a)	1PH AC 200-240V 5.4/8.2A 50/60Hz	3PH AC 0-240V 4.0A 0-599Hz 0.4/0.75kW
	MD520-2S0.7BS(a)	1PH AC 200-240V 8.2/14A 50/60Hz	3PH AC 0-240V 4.0/7.0A 0-599Hz 0.75/1.5kW
	MD520-2S1.5BS(a)	1PH AC 200-240V 14/20A 50/60Hz	3PH AC 0-240V 7/9.6A 0-599Hz 1.5/2.2kW
	MD520-2S2.2BS(a)	1PH AC 200-240V 20/27A 50/60Hz	3PH AC 0-240V 9.6/12A 0-599Hz 2.2/3.7kW
T3	MD520-4T7.5BS(a)	3PH AC 380-480V 21.9A/32.9A 50/60Hz	3PH AC 0-480V 17A/25A 0-599Hz 7.5kW/11kW
	MD520-4T11BS(a)	3PH AC 380-480V 32.2A/39.7A 50/60Hz	3PH AC 0-480V 25A/32A 0-599Hz 11kW/15kW
	MD520-2T5.5BS(a)	3PH AC 200-240V 32.2A/39.7A 50/60Hz	3PH AC 0-240V 25A/32A 0-599Hz 5.5kW/7.5kW
T4	MD520-4T15BS(a)	3PH AC 380-480V 41.3A/44A 50/60Hz	3PH AC 0-480V 32A/37A 0-599Hz 15kW/18.5kW

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T5	MD520-2T7.5BS(a)	3PH AC 200-240V 41.3A/44A 50/60Hz	3PH AC 0-240V 32A/37A 0-599Hz 7.5kW/11kW
	MD520-2T11S(a)	3PH AC 200-240V 59A/65.8A 50/60Hz	3PH AC 0-240V 45A/60A 0-599Hz 11kW/15kW
	MD520-2T11BS(a)	3PH AC 200-240V 59A/65.8A 50/60Hz	3PH AC 0-240V 45A/60A 0-599Hz 11kW/15kW
	MD520-4T18.5S(a)	3PH AC 380-480V 49.5A/59A 50/60Hz	3PH AC 0-480V 37A/45A 0-599Hz 18.5kW/22kW
	MD520-4T18.5BS(a)	3PH AC 380-480V 49.5A/59A 50/60Hz	3PH AC 0-480V 37A/45A 0-599Hz 18.5kW/22kW
	MD520-4T18.5S-T(a)	3PH AC 380-480V 43.4A/51.3A 50/60Hz	3PH AC 0-480V 37A/45A 0-599Hz 18.5kW/22kW
	MD520-4T18.5BS-T(a)	3PH AC 380-480V 43.4A/51.3A 50/60Hz	3PH AC 0-480V 37A/45A 0-599Hz 18.5kW/22kW
	MD520-4T22S-T(a)	3PH AC 380-480V 51.3A/57A 50/60Hz	3PH AC 0-480V 45A/60A 0-599Hz 22kW/30kW
	MD520-4T22BS-T(a)	3PH AC 380-480V 51.3A/57A 50/60Hz	3PH AC 0-480V 45A/60A 0-599Hz 22kW/30kW
	MD520-4T22S(a)	3PH AC 380-480V 59A/66A 50/60Hz	3PH AC 0-480V 45A/60A 0-599Hz 22kW/30kW
	MD520-4T22BS(a)	3PH AC 380-480V 59A/66A 50/60Hz	3PH AC 0-480V 45A/60A 0-599Hz 22kW/30kW
T6	MD520-2T15S(a)	3PH AC 200-240V 57A/71A 50/60Hz	3PH AC 0-240V 60A/75A 0-599Hz 15kW/18.5kW
	MD520-2T15BS(a)	3PH AC 200-240V 57A/71A 50/60Hz	3PH AC 0-240V 60A/75A 0-599Hz 15kW/18.5kW
	MD520-2T18.5S(a)	3PH AC 200-240V 69A/86A 50/60Hz	3PH AC 0-240V 75A/91A 0-599Hz 18.5kW/22kW
	MD520-2T18.5BS(a)	3PH AC 200-240V 69A/86A 50/60Hz	3PH AC 0-240V 75A/91A 0-599Hz 18.5kW/22kW
	MD520-4T30S(a)	3PH AC 380-480V 57A/71A 50/60Hz	3PH AC 0-480V 60A/75A 0-599Hz 30kW/37kW
	MD520-4T30BS(a)	3PH AC 380-480V 57A/71A 50/60Hz	3PH AC 0-480V 60A/75A 0-599Hz 30kW/37kW
	MD520-4T37S(a)	3PH AC 380-480V 69A/86A 50/60Hz	3PH AC 0-480V 75A/91A 0-599Hz 37kW/45kW
	MD520-4T37BS(a)	3PH AC 380-480V 69A/86A 50/60Hz	3PH AC 0-480V 75A/91A 0-599Hz 37kW/45kW
T7	MD520-4T45S(a)	3PH AC 380-480V 89A/111A 50/60Hz	3PH AC 0-480V 91A/112A 0-599Hz 45kW/55kW
	MD520-4T45BS(a)	3PH AC 380-480V 89A/111A 50/60Hz	3PH AC 0-480V 91A/112A 0-599Hz 45kW/55kW
	MD520-4T55S(a)	3PH AC 380-480V 106A/143A 50/60Hz	3PH AC 0-480V 112A/150A 0-599Hz 55kW/75kW
	MD520-4T55BS(a)	3PH AC 380-480V 106A/143A 50/60Hz	3PH AC 0-480V 112A/150A 0-599Hz 55kW/75kW
	MD520-2T22S(a)	3PH AC 200-240V 89A/111A 50/60Hz	3PH AC 0-240V 91A/112A 0-599Hz 22kW/30kW

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	MD520-2T22BS(a)	3PH AC 200-240V 89A/111A 50/60Hz	3PH AC 0-240V 91A/112A 0-599Hz 22kW/30kW
	MD520-2T30S(a)	3PH AC 200-240V 106A/153A 50/60Hz	3PH AC 0-240V 112A/150A 0-599Hz 30kW/37kW
	MD520-2T30BS(a)	3PH AC 200-240V 106A/153A 50/60Hz	3PH AC 0-240V 112A/150A 0-599Hz 30kW/37kW
T8	MD520-4T75S(a)	3PH AC 380-480V 139A/167A 50/60Hz	3PH AC 0-480V 150A/176A 0-599Hz 75kW/90kW
	MD520-4T75BS(a)	3PH AC 380-480V 139A/167A 50/60Hz	3PH AC 0-480V 150A/176A 0-599Hz 75kW/90kW
	MD520-4T90S(a)	3PH AC 380-480V 164A/198A 50/60Hz	3PH AC 0-480V 176A/210A 0-599Hz 90kW/110kW
	MD520-4T110S(a)	3PH AC 380-480V 196A/239A 50/60Hz	3PH AC 0-480V 210A/253A 0-599Hz 110kW/132kW
	MD520-2T37S(a)	3PH AC 200-240V 139A/167A 50/60Hz	3PH AC 0-240V 150A/176A 0-599Hz 37kW/45kW
	MD520-2T37BS(a)	3PH AC 200-240V 139A/167A 50/60Hz	3PH AC 0-240V 150A/176A 0-599Hz 37kW/45kW
	MD520-2T45S(a)	3PH AC 200-240V 164A/198A 50/60Hz	3PH AC 0-240V 176A/210A 0-599Hz 45kW/55kW
	MD520-2T55S(a)	3PH AC 200-240V 196A/239A 50/60Hz	3PH AC 0-240V 210A/253A 0-599Hz 55kW/75kW
T9	MD520-4T160S(a)	3PH AC 380-480V 287A/359A 50/60Hz	3PH AC 0-480V 304A/377A 0-599Hz 160kW/200kW
	MD520-4T132S(a)	3PH AC 380-480V 240A/295A 50/60Hz	3PH AC 0-480V 253A/304A 0-599Hz 132kW/160kW
	MD520-2T75S(a)	3PH AC 380-480V 287A/359A 50/60Hz	3PH AC 0-480V 304A/377A 0-599Hz 75kW/90kW
T10	MD520-4T200S(a)	3PH AC 380-480V, 365/456A, 50/60Hz	3PH AC 0-480V, 377/465A, 0-599Hz, 200/250kW
	MD520-4T200S-L(a)	3PH AC 380-480V, 365/456A, 50/60Hz	3PH AC 0-480V, 377/465A, 0-599Hz, 200/250kW
	MD520-4T220S(a)	3PH AC 380-480V, 410/507A, 50/60Hz	3PH AC 0-480V, 426/520A, 0-599Hz, 220/280kW
	MD520-4T220S-L(a)	3PH AC 380-480V, 410/507A, 50/60Hz	3PH AC 0-480V, 426/520A, 0-599Hz, 220/280kW
	MD520-2T90S(a)	3PH AC 200-240V 365A/456A 50/60Hz	3PH AC 0-240V 377A/465A 0-599Hz 90kW/110kW
	MD520-2T110S(a)	3PH AC 200-240V 410A/507A 50/60Hz	3PH AC 0-240V 426A/520A 0-599Hz 110kW/132kW
T11	MD520-4T250S(a)	3PH AC 380-480V 441A/559A 50/60Hz	3PH AC 0-480V 465A/585A 0-599Hz 250kW/315kW
	MD520-4T250S-L(a)	3PH AC 380-480V 441A/559A 50/60Hz	3PH AC 0-480V 465A/585A 0-599Hz 250kW/315kW
	MD520-4T280S(a)	3PH AC 380-480V 495A/624A 50/60Hz	3PH AC 0-480V 520A/650A 0-599Hz 280kW/355kW
	MD520-4T280S-L(a)	3PH AC 380-480V 495A/624A 50/60Hz	3PH AC 0-480V 520A/650A 0-599Hz 280kW/355kW

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T12	MD520-2T132S(a)	3PH AC 200-240V 441A/559A 50/60Hz	3PH AC 0-240V 465A/585A 0-599Hz 132kW/160kW
	MD520-4T315S(a)	3PH AC 380-480V 565A/708A 50/60Hz	3PH AC 0-480V 585A/725A 0-599Hz 315kW/400kW
	MD520-4T315S-L(a)	3PH AC 380-480V 565A/708A 50/60Hz	3PH AC 0-480V 585A/725A 0-599Hz 315kW/400kW
	MD520-4T355S(a)	3PH AC 380-480V 617A/782A 50/60Hz	3PH AC 0-480V 650A/820A 0-599Hz 355kW/450kW
	MD520-4T355S-L(a)	3PH AC 380-480V 617A/782A 50/60Hz	3PH AC 0-480V 650A/820A 0-599Hz 355kW/450kW
	MD520-4T400S(a)	3PH AC 380-480V 687A/840A 50/60Hz	3PH AC 0-480V 725A/880A 0-599Hz 400kW/500kW
	MD520-4T400S-L(a)	3PH AC 380-480V 687A/840A 50/60Hz	3PH AC 0-480V 725A/880A 0-599Hz 400kW/500kW
	MD520-2T160S(a)	3PH AC 200-240V 565A/708A 50/60Hz	3PH AC 0-240V 585A/725A 0-599Hz 160kW/200kW
	MD520-2T200S(a)	3PH AC 200-240V 687A/840A 50/60Hz	3PH AC 0-240V 725A/880A 0-599Hz 200kW/220kW