



America

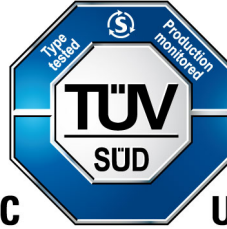
# CERTIFICATE

No. U10 034446 0008 Rev. 01

**Holder of Certificate:** TR Electronic GmbH

Eglshalde 6  
78647 Trossingen  
GERMANY

**Certification Mark:**



**Product:**

**Power Conversion Equipment  
(motor controller in combination with a  
certified motor)**

**Tested  
according to:**

UL 61800-5-1:2022  
CSA C22.2 No. 274:2017

This product was voluntarily tested to the relevant safety requirements referenced on this certificate. It can be marked with the certification mark above. The mark must not be altered in any way. The certificate holder shall not transfer this certificate to third parties. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing, Certification, Validation and Verification Regulations (TCVVR)". For Canadian standards TÜV SÜD America Inc. is accredited by the Standards Council of Canada to ISO/IEC 17065.

**Test report no.:** 713340263

**Date,** 2025-12-12

*Siemon*

( Thorsten Siemon )



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**Model(s):**

**EncoTRive MP-xxx-yy-zs-vvvv  
and MA-xxx-yy-zs-vvvv**

(x can be any number which defines different power levels, connectors and certified motor variants, y defines communication options, z is the indicator for NRTL certification, s can be any character which defines functional safety version, v can be any number from 0 to 9 or character from A to Z and is not NRTL relevant)

**Brand Name(s):**

**TR electronic**





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## Parameters:

24 / 48 VDC; max. 5,0 A (S1); max. 182 W (S1)  
(for more information refer to Table below)

	Nominal Voltage	Nominal current S1 (S3)	Nominal power S1 (S3)	Nominal torque S1 (S3)	Nominal speed S1 (S3)
	VDC	A	W	Nm	min <sup>-1</sup>
<b>MP-200</b> <sup>1)</sup>	24	5,0 (13,8)	91 (178)	0,40 (1,10)	2.175 (1.550)
	48		182 (357)		4.350 (3.100)
<b>MP-280</b> <sup>2)</sup>	24	4,5 (19,0)	84 (397)	0,4 (1,90)	4.000 (2.000)
	48		167 (795)		
<b>MP-180</b> <sup>1)</sup>	24	9,5 (13,8)	166 (189)	0,47 (0,80)	3.240 (2.260)
<b>MP-140</b> <sup>1)</sup>	48	4,5 (8,7)	120 (189)	0,40 (0,80)	2.860 (2.260)
<b>MP-100</b> <sup>1)</sup>	24	3,6 (9,0)	84 (91)	0,26 (0,39)	3.090 (2.220)
<b>MP-060</b> <sup>1)</sup>	24	4,0 (6,0)	55 (58)	0,17 (0,25)	3.080 (2.230)
<b>MA-130</b> <sup>1)</sup>	24	7,0 (13,3)	117 (125)	0,32 (0,60)	3.200 (2.600)
	48	4,5 (8,0)	125 (235)	0,32 (0,60)	3.750 (3.750)
<b>MA-100</b> <sup>1)</sup>	24	4,9 (11,0)	86 (141)	0,27 (0,54)	3.050 (2.500)
<b>MA-055</b> <sup>1)</sup>	24	2,7 (5,5)	44 (67)	0,14 (0,28)	3.000 (2.300)
<b>MP-202</b> <sup>1)</sup>	24	5,0 (13,8)	91 (178)	0,40 (1,10)	2.175 (1.550)
	48		182 (357)		4.350 (3.100)
<b>MP-282</b> <sup>2)</sup>	24	4,5 (19,0)	84 (397)	0,4 (1,9)	4.000 (2.000)
	48		167 (795)		
<b>MP-182</b> <sup>1)</sup>	24	9,5 (13,8)	166 (189)	0,47 (0,8)	3240 (2.260)
<b>MP-142</b> <sup>1)</sup>	48	4,5 (8,7)	120 (189)	0,40 (0,8)	2860 (2.260)
<b>MP-102</b> <sup>1)</sup>	24	3,6 (9,0)	84 (91)	0,26 (0,39)	3090 (2.220)
<b>MP-062</b> <sup>1)</sup>	24	4,0 (6,0)	55 (58)	0,17 (0,25)	3080 (2.230)

S1 Continuous operation

<sup>1)</sup> S3 Intermittent operation 25%; duty cycle: 1 min; cycle duration: 4 min

<sup>2)</sup> S3 Intermittent operation 10%; duty cycle: 24 sec; cycle duration 4 min



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## Nomenclature:

MP	-	200	-	CO	-	U A	-	xxxx
I	-	xxx	-	yy	-	z s	-	vvvv
I	Series designation							
	MP	3 phase AC motor drive boards						
	MA	DC motor drive boards						
xxx	Nominal power MPx series							
	060 / 062	60 W						
	100 / 102	100 W						
	140 / 142	140 W						
	180 / 182	180 W						
	200 / 202	200 W						
	280 / 282	280 W						
	Nominal power MA series							
	055	55 W						
	100	100 W						
	130	130 W						
yy	Communication bus							
	CO	CANopen						
	PB	PROFIBUS						
	PN	PROFINET						
	EtC	EtherCat						
z	NRTL-recognition							
	A or U	NRTL certified						
	N	Not NRTL certified						
s	Any character which defines functional safety version							
vvvv	Any suffixes (not NRTL relevant)							
	xxxx	any number from 0 to 9 or character from A to Z and is not NRTL relevant						

ZERTIFIKAT ◆ CERTIFICATE ◆ 認 證 證 書 ◆ CERTIFICADO ◆ CERTIFICAT



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## Conditions of Acceptability (CoA)

- When installing requirements of test standards and installation guide must be fulfilled.
- This EUT is for use in non-hazardous locations, operated by qualified personnel skilled in its use.
- The EUT shall be supplied with the specified rated voltages according to the user manual.
- The connecting cables for the power supply must have a minimum cross-section of 14 AWG and must be able to handle a current of 20 A continuously.
- The EUT is a single-phase equipment.
- The disconnection device for the EUT is part of the end application and must fulfil the requirements of the manual and the tested standards.
- The EUT fulfils the requirements of the tested standards only, if it is supplied with a source that provides SELV.
- Functional Safety is not part of the evaluation.