


All dimensions are in mm. Drawing not to scale. Pins facing downward view.

Motor – sensor configurations					
Motor \ Sensor	PMSM	BLDC	DC BRUSH	STEP (2-ph)	STEP (3-ph)
Incr. Encoder	Ⓢ		Ⓢ	Ⓢ	
Incr. Encoder + Dig. Hall	Ⓢ	Ⓢ			
Linear Halls	Ⓢ				
Digital Hall control only	Ⓢ				
BISS / SSI / EnDAT / TAMAGAWA / Nikon / Sanyo Denki / Panasonic	Ⓢ	Ⓢ	Ⓢ	Ⓢ	
Tacho			Ⓢ		
Open-loop (no sensor)				Ⓢ	Ⓢ

Mating Connectors			
Producer	Part No.	Connector	Description
Samtec	SQW-117-01-F-D(-VS)	J1	2x17, 2.0mm THT (SMD) socket
	CLT-117-02-F-D		2x17, 2.0mm SMD pass-through socket
	SQW-110-01-F-D(-VS)	J2	2x10, 2.0mm THT (SMD) socket
	CLT-110-02-F-D		2x10, 2.0mm SMD pass-through socket

- **Features**
  - Motion controller and drive in a single compact unit based on MotionChip™ technology
  - Universal solution for control of rotary and linear brushless, brushed and 2 or 3-phase step motors
  - Advanced motion control capabilities (CSP, PVT, S-curve, electronic gearing and cam)
- Motor supply: 48V nominal
  - Motor output current:
    - Nominal: 3A<sub>RMS</sub> / 4.2A amplitude
    - Peak: 10A<sub>RMS</sub> / 14A amplitude
- Logic supply: 24V nominal, 48V max
  - Feedback Options:
    - 1 x Hall sensor interface (digital or linear)
    - Feedback#1 and Feedback#2 can be:
      - Incremental A / B (index Z available only for Encoder 1): differential or single-ended;
      - Absolute: differential or single-ended. Supported protocols: SSI, BiSS, EnDAT, Tamagawa, Panasonic, Nikon, Sanyo Denki.
  - 1 x analogue input software selectable: 12-bit 0-5V or ±10V: Reference, Feedback or general purpose
  - 3 x digital inputs: 2 for limit switches + one Enable, NPN, pull-to-GND to activate, pull-up on-board to +5V. Pull to GND to activate
  - 3 x configurable I/Os, each software selectable as:
    - Digital input, NPN, with pull-up on-board to +5V. Pull to GND to activate;
    - Digital output, NPN (open-collector), with pull-up on-board to +5V. Sink current: 1 x 1.5A to drive inductive loads (such as mechanical brake), 2 x 0.1A.
  - Communication interfaces: RS232; USB; TMLCAN and CANopen (CiA 301 v4.2, CiA 305 v.2.2.13 and CiA 402 v3.0) protocols
  - 24k x 16 E<sup>2</sup>ROM to store setup data, TML motion programs, cam tables and other user data
  - 16k x 16 SRAM memory for data acquisition
  - Operating ambient temperature: 0-40°C (over 40°C with de-rating)
  - Programmable protections: any short-circuit between motor phases, GND and/or supply, over/under-voltage, over-current, I<sup>2</sup>t, control error
  - >99% voltage efficiency

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# Micro 4804 MZ-CAN DATASHEET P/N: P020.002.E102 -preliminary-


Pin	Name	Type	Description
1	+Vlog	I	Positive terminal of the logic supply input: 6 to 48 VDC
2	A/A+	O	Phase A for 3-ph motors, A+ for 2-ph steppers, Motor+ for DC brush motors
3	GND	-	Ground return for logic supply
4	B/A-	O	Phase B for 3-ph motors, A- for 2-ph steppers, Motor- for DC brush motors
5	GND	-	Shield for motor windings cable
6	C/B+	O	Phase C for 3-ph motors, B+ for 2-ph steppers
7	+Vmot	I	Positive terminal of the motor supply: 7 to 48 VDC
8	Cr/B-	O	Chopping resistor / Phase B- for 2-ph steppers
9	BFS	-	Connect to GND to perform a firmware update after a critical firmware failure
10	ID2	I	AxisID <sup>2</sup> selection pin. See AxisID register settings table
11	TX1-	I/O	Transmit/Receive negative, OUT port.
12	RX1-	I/O	Receive/Transmit negative, OUT port.
13	TX1+	I/O	Transmit/Receive positive, OUT port.
14	RX1+	I/O	Receive/Transmit positive, OUT port.
15	GND	-	Ground shield for port 1
16	GND	-	Ground shield for port 0
17	TX0-	I/O	Transmit/Receive negative, IN port.
18	RX0-	I/O	Receive/Transmit negative, IN port.
19	TX0+	I/O	Transmit/Receive positive, IN port.
20	RX0+	I/O	Receive/Transmit positive, IN port.
21	ID0	I	AxisID <sup>0</sup> selection pin. See AxisID register settings table
22	ID1	I	AxisID <sup>1</sup> selection pin. See AxisID register settings table
23	232TX	O	RS-232 Data Transmission.
24	232RX	I	RS-232 Data Reception.
25	CAN Hi	-	CAN-Bus positive line (dominant high)
26	CAN Lo	-	CAN-Bus negative line (dominant low)
27	IN2/LSP	I	5-60V digital NPN input. Positive limit switch input
28	IN3/LSN	I	5-60V digital NPN input. Negative limit switch input
29	IN5/Enable	I	5-60V digital NPN input. Drive Enable input
30	I/O0	I/O	5-50V NPN general-purpose digital programmable input IN0 /or NPN 1.5A output OUT0
31	I/O1	I/O	5-50V NPN general-purpose digital programmable input IN1 / or NPN 0.1A output OUT1
32	I/O4	I/O	5-50V NPN general-purpose digital programmable input IN4 / or NPN 0.1A output OUT4
33	GND	-	Ground return and shield
34	AnalogIn	I	Analog input (range software selectable 0-5V or ±10V)

No.	Name	Color	Description
LED1	TML ERR	RED	Turned on when the drive detects an error condition.
LED3	TML RDY	GREEN	Lit after power-on when the drive initialization ends. Turned off when an error occurs.

Pin	Name	Type	Description
1	+V USB	I	5V input from USB
2	GND	-	Ground return for USB
3	Hall1	I	Digital Hall, or Linear Hall sensor 1
4	Hall2	I	Digital Hall, or Linear Hall sensor 2
5	Hall3	I	Digital Hall, or Linear Hall sensor 3
6	GND	-	Ground return and shield
7	+5V	O	Supply for all feedback sensors
8	GND	-	Ground return and shield
9	EncA1+/EncA1/Dt1+/Dt1	I	Encoder 1 A+/Data+ diff. input or single-ended input
10	EncA1-/Dt1-	I	Encoder 1 A-/Data- diff. input. Leave open for single-ended; Add externally 120Ω to pin 9 for differential
11	EncB1+/EncB1/Clk1+/Clk1	I	Encoder 1 B+/Clock+ diff. input or single-ended input
12	EncB1-/Clk1-	I	Encoder 1 B-/Clock- diff. input. Leave open for single-ended; Add externally 120Ω to pin 11 for differential
13	EncA2+/EncA2/Dt2+/Dt2	I	Encoder 2 A+/Data+ diff. input or single-ended input
14	EncA2-/Dt2-	I	Encoder 2 A-/Data- diff. input. Leave open for single-ended; Add externally 120Ω to pin 13 for differential
15	EncB2+/EncB2/Clk2+/Clk2	I/O	Encoder 2 B+/Clock+ diff. input or single-ended input
16	EncB2-/Clk2-	I	Encoder 2 B-/Clock- diff. input. Leave open for single-ended; Add externally 120Ω to pin 15 for differential
17	Z1+	I	Encoder 1 Z+ diff. input or single-ended input
18	Z1-	I	Encoder 1 Z- diff. input. Leave open for single-ended; Add externally 120Ω to pin 17 for differential
19	USB DM	I/O	USB data-
20	USB DP	I/O	USB data+

AxisID register									
MSB	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	LSB
	ID2		ID1			ID0			
Nominal[V]	Minimum[V]	Maximum[V]	IDx* Bits	IDx* Value					
0.000	0.00	0.53	000	0					
1.057	0.53	1.41	001	1					
1.756	1.41	2.01	010	2					
2.254	2.01	2.43	011	3					
2.600	2.43	2.75	100	4					
2.894	2.75	3.01	101	5					
3.128	3.01	3.22	110	6					
3.319	3.22	3.35	111	7					

- Remarks:**
- If Bit 7 (ID2) = 1 -> TMLCAN mode is selected
  - If Bit 7 (ID2) = 0 -> CANopen mode is selected
  - Bit 8 (MSB of ID2) is ignored, and always considered as "0"
  - The maximum AxisID value is 127 (Bit 0 ... Bit 6)
  - TMLCAN mode:  $AxisID = (64 * ID2\_Value - 128) + (8 * ID1\_Value) + ID0\_Value$
  - CANopen mode:  $AxisID = (64 * ID2\_Value) + (8 * ID1\_Value) + ID0\_Value$
  - If the AxisID pins are not connected, the AxisID value can't be determined.
  - If all "IDx" pins are connected to GND the AxisID value is 255
  - If the CANOpen mode is selected and the AxisID value is 255, drive will be in "LSS inactive" state and the Green LED will flash at 1 second intervals
- \* where "x" can be 1, 2 or 3

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## Electrical characteristics

All parameters measured under the following conditions (unless otherwise specified):

- $V_{LOG} = 24$  VDC;  $V_{MOT} = 48$  VDC;  $F_{PWM} = 20$  kHz
- Supplies start-up / shutdown sequence: -any-
- Load current (sinusoidal amplitude) = 4.2A

Operating Conditions		Min.	Typ.	Max.	Units		
Ambient temperature		0		40 <sup>1</sup>	°C		
Ambient humidity		Non-condensing		90	%Rh		
Altitude / pressure <sup>2</sup>		Altitude (vs. sea level)		-0.1	0 + 2.5		
		Ambient Pressure		0 <sup>2</sup>	0.75 + 1	10.0	
Storage Conditions		Min.	Typ.	Max.	Units		
Ambient temperature		-40		100	°C		
Ambient humidity		Non-condensing		100	%Rh		
Ambient Pressure				10.0	atm		
ESD capability (Human body model)		Not powered; applies to any accessible part			±0.5		
		Original packaging			±15		
Mechanical Mounting		Min.	Typ.	Max.	Units		
Airflow		natural convection <sup>3</sup> , closed box					
Spacing required for horizontal mounting		Between adjacent drives		10	mm		
		Between drives and nearby walls		10	mm		
		Space needed for drive removal		20	mm		
Insertion force		Using recommended mating connectors		30	mm		
		Extraction force		20	N		
Environmental Characteristics		Min.	Typ.	Max.	Units		
Size (Length x Width x Height)		Global size		38.35 x 25 x 9.71	mm		
Weight				~1.51 x 0.98 x 0.38	inch		
Cleaning agents		Dry cleaning is recommended		8	g		
Protection degree		According to IEC60529		IP20	-		
Logic Supply Input (+V <sub>LOG</sub> )		Min	Typ.	Max.	Units		
Supply voltage		Nominal values		6	24	48	V <sub>DC</sub>
		Absolute maximum values, drive operating but outside guaranteed parameters		4.9		60	V <sub>DC</sub>
Supply current		Absolute maximum values, continuous		-0.5		63	V <sub>DC</sub>
		+V <sub>LOG</sub> = 12V			90	150	mA
		+V <sub>LOG</sub> = 24V			60	90	mA
		+V <sub>LOG</sub> = 48V			45	60	mA
Voltage Measurement		Total error			1.5	%	
Utilization category		Acc. to 60947-4-1 (I <sub>PEAK</sub> <= 1.05 * I <sub>NOM</sub> )		DC-1			
Motor Supply Input (+V <sub>MOT</sub> )		Min.	Typ.	Max.	Units		
Supply voltage		Nominal values		7		48	V <sub>DC</sub>
		Absolute maximum values, drive operating but outside guaranteed parameters		6		60	V <sub>DC</sub>
Supply current		Absolute maximum values, continuous		-0.5		63	V <sub>DC</sub>
		Idle			25		mA
		Operating		-15	±3	+15	A
		Absolute maximum value, short-circuit condition (Duration ≤ 10ms) †				16.5	A
Voltage Measurement		Total error			1.5	%	
Utilization category		Acc. to 60947-4-1 (I <sub>PEAK</sub> <= 4.0 * I <sub>NOM</sub> )		DC-3			
Supply Output (+5V)		Min.	Typ.	Max.	Units		
Output voltage		Current sourced = 400mA		5.05	5.2	5.25	V
		24V motor		1000			mA
Output current <sup>4</sup>		24V motor		1200			
Short-circuit to GND protection		Yes / Drive resets at event					
Over-voltage protection		NOT protected					
ESD protection		Human body model		±1			KV

Motor Outputs (A/A+, B/A-, C/B+, CR/B-)		Min.	Typ.	Max.	Units	
Nominal current	PMSM motors sinusoidal amplitude			4.2	A	
	PMSM motors sinusoidal RMS			3	A <sub>RMS</sub>	
	DC/BLDC/STEP motors continuous <sup>5</sup>			3.65	A	
Peak current	maximum 2.5s	-14		+14	A	
Short-circuit protection threshold		±16.5		±18	A	
Short-circuit protection delay		2		4	µs	
On-state voltage drop	Nominal output current; including typical mating connector contact resistance		0.1		V	
Off-state leakage current			0.3	1	mA	
Voltage Efficiency			92		%	
Motor inductance (phase-to-phase)	Recommended value, for current ripple max. ±5% of full range; +V <sub>MOT</sub> = 48 V	F <sub>PWM</sub>				
		20 kHz	900		µH	
		40 kHz	480			
	60 kHz	320				
	Minimum value, limited by short-circuit protection; +V <sub>MOT</sub> = 48 V	20 kHz	270		µH	
		40 kHz	150			
60 kHz		100				
Motor electrical time-constant (L/R)	Recommended value for ±5% current measurement error	20 kHz	330		µs	
		40 kHz	170			
		60 kHz	140			
		80 kHz	80			
		100 kHz	66			
Current measurement	FS = Full Scale accuracy		±2	±3	%FS	
Digital Inputs (IN0, IN1, IN2/LSP, IN3/LSN, IN4, IN5/ENA)		Min.	Typ.	Max.	Units	
Mode compliance		NPN				
Default state	Input floating (wiring disconnected)	Logic HIGH				
Input voltage	Logic "LOW"	IN0, IN1, IN4, IN5/ENA	1.4	1.8	V	
	Logic "HIGH"		3.1	2.5		
	Hysteresis		0.9	1.1		1.4
	Logic "LOW"	IN2/LSP, IN3/LSN	1.4	1.6		
	Logic "HIGH"		4	3.5		
	Hysteresis		0.6			
Floating voltage (not connected)		4.5				
Absolute maximum, continuous		-5		+55		
Input current	Logic "LOW"; Pulled to GND	9		10	mA	
	Logic "HIGH"; Pulled to +24V			0.4		
Input frequency		0		500	kHz	
Minimum pulse		1			µs	
ESD protection - Human body model		±2			kV	
Digital Outputs (OUT0, OUT1, OUT4)		Min.	Typ.	Max.	Units	
Mode compliance		All outputs (OUT0, OUT1, OUT4)				
Default state		NPN 24V				
Not supplied (+V <sub>LOG</sub> floating)		High-Z (floating)				
Immediately after power-up		Logic "HIGH"				
Output voltage	Logic "LOW"; output current = 1.5A for OUT0/ 0.05A for the other digital outputs				0.4	V
	Logic "HIGH"; output current = 0, no load		4	4.5	5	
	Logic "HIGH", external load to +V <sub>LOG</sub>			V <sub>LOG</sub>		
	Absolute maximum, continuous (free-wheeling diodes to +V <sub>LOG</sub> to GND)		-0.5		V <sub>LOG</sub> +0.5	
	Absolute maximum, surge (duration ≤ 1s) †		-1		V <sub>LOG</sub> +1	
Output current	Logic "LOW", sink current, short duration, duty cycle ≤ 1%	5s max	OUT1, OUT4		0.1	A
			OUT0		2	
	0.5s max	OUT1, OUT4		0.15	A	
		OUT0		2.5		
	Logic "HIGH", source current; external load to GND; V <sub>OUT</sub> ≥ 2.0V				5	mA
Logic "HIGH", leakage current; external load to +V <sub>LOG</sub> ; V <sub>OUT</sub> = V <sub>LOG</sub> max = 40V			0.05	0.1	mA	
Minimum pulse width		0.5			µs	
ESD protection - Human body model		±15			kV	


<sup>1</sup> Operating temperature at higher temperatures is possible with reduced current and power ratings

<sup>2</sup> Micro 4804 can be operated in vacuum (no altitude restriction), but at altitudes over 2,500m, current and power rating are reduced due to thermal dissipation efficiency.

<sup>3</sup> In case of forced cooling (conduction or ventilation) the spacing requirements may drop substantially down to zero as long as the ambient temperature is kept below the maximum operating limit

<sup>4</sup> For more details see the "Current de-rating with +5V output current" graph

<sup>5</sup> For current values >3A<sub>RMS</sub> pins needs to be soldered instead of socketed

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**Micro 4804 MZ-CAN**  
**DATASHEET**  
**P/N: P020.002.E102**  
**-preliminary-**


Hall Inputs (Hall1, Hall2, Hall3)		Min.	Typ.	Max.	Units
Mode compliance		TTL / CMOS / Open-collector (NPN sink), or analog (linear) 0...5V			
Default state	Input floating (Wiring disconnected)	4.5	4.7	5	V
Input voltage	Digital	Logic "LOW"	1.5	1.7	
		Logic "HIGH"	3	2.5	
	Hysteresis	0	0.5...4.5	4.95	
Input current	Logic "LOW"; Pull to GND	2.3			mA
	Logic "HIGH"; Internal 2.2K $\Omega$ pull-up to +5	0			
Minimum pulse width		70			$\mu$ s
ESD protection	Human body model	$\pm$ 15			kV
Encoder Inputs (A+, A-, B+, B-, Z+, Z-, A2+, A2-, B2+, B2-) <sup>1</sup>		Min.	Typ.	Max.	Units
Single-ended mode compliance	Leave A1-, B1-, Z1-, A2-, B2-floating	TTL/CMOS/Open-collector (NPN)			
Single-ended threshold	A1+, B1+, Z1+, A2+, B2+	1.2	1.3	1.5	V
Single-ended input current	Input pulled to GND against on-board 2.2 K $\Omega$ pull-up to +5V		2.2	2.5	mA
Differential mode compliance	For full RS422 compliance, see <sup>2</sup>	TIA/EIA-422-A			
Input voltage	Hysteresis	$\pm$ 0.03	$\pm$ 0.05	$\pm$ 0.2	V
	Differential mode	-15		+15	
	Common-mode range (A+ to GND, etc.)	-7		+12	
Input impedance, differential	A+, A2+, B+, B2+, Z+, Z2+ A-, A2-, B-, B2-, Z-, Z2-		2.2	4.4	k $\Omega$
Input frequency	Differential mode	0		15	MHz
Minimum pulse width	Differential mode	33			ns
ESD protection	Human body model	$\pm$ 30			kV
Absolute encoder interface: SSI, BiSS-C, EnDAT, Tamagawa, Nikon, Sanyo Denki		Min.	Typ.	Max.	Units
Differential mode (CLOCK, DATA)	For full RS422 compliance, see <sup>1</sup>	TIA/EIA-422-A			
CLOCK (DATA) Output voltage	Differential; 50 $\Omega$ differential load	1.5	3.3		V
	Common-mode, referenced to GND	1	1.7	3	
CLOCK frequency	Software selectable	1000, 2000, 3000, 4000			kHz
CLOCK (DATA) Short-circuit protection	Common-mode voltage $\pm$ 15V	Yes, protected			
DATA format	Software selectable	Binary / Gray			
		Single-turn / Multi-turn			
		Counting direction			
		CRC type			
DATA resolution	Single-turn			56	Bits
	Multi-turn and single-turn			56	
If total resolution >31 bits, some bits must be ignored by software setting to achieve a max 31 bits resolution					

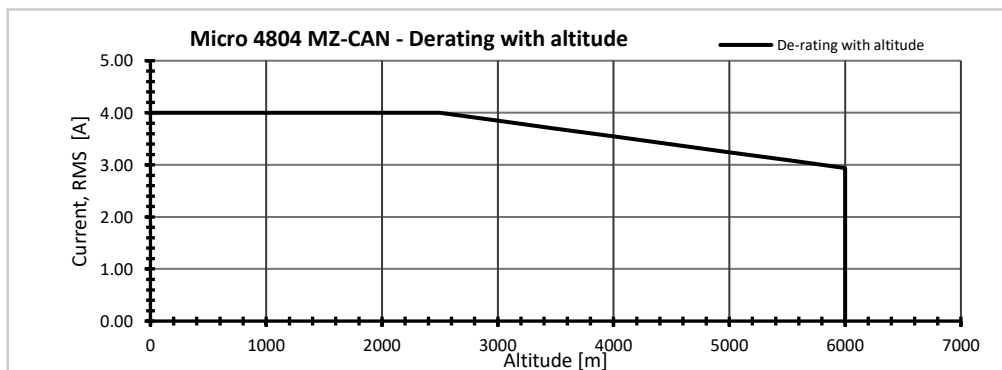
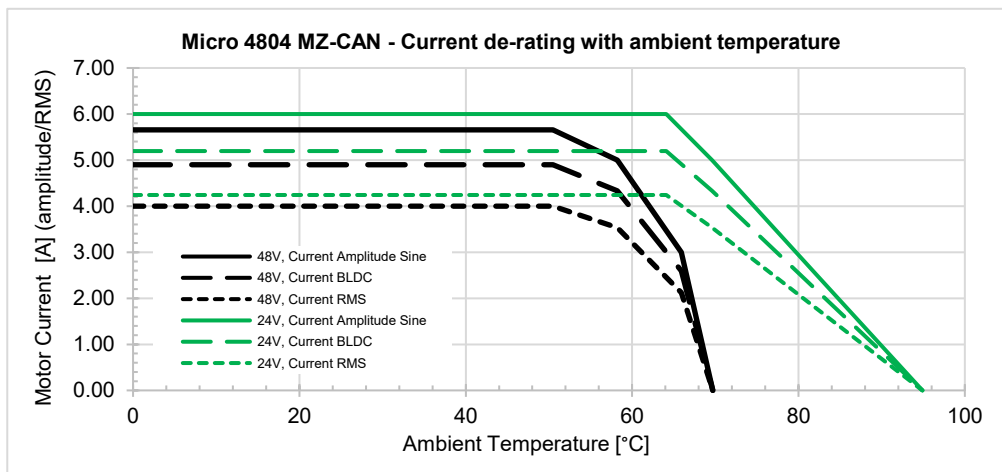
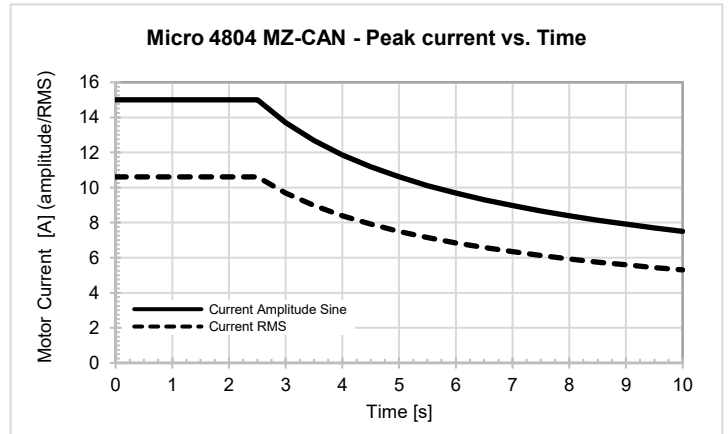
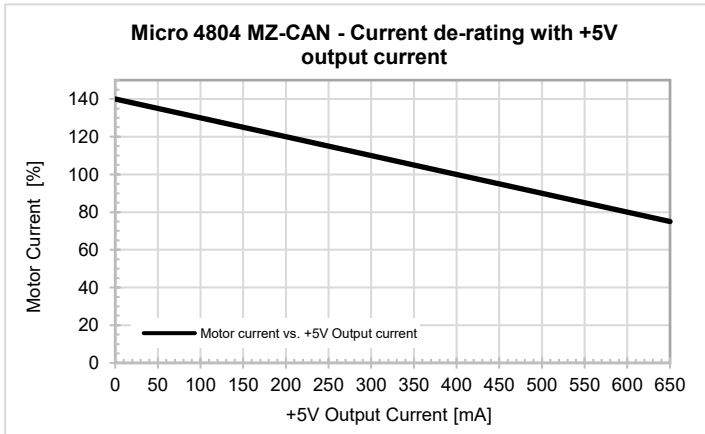
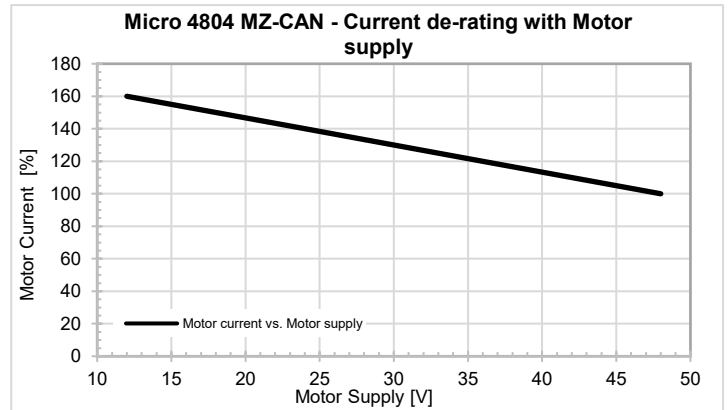
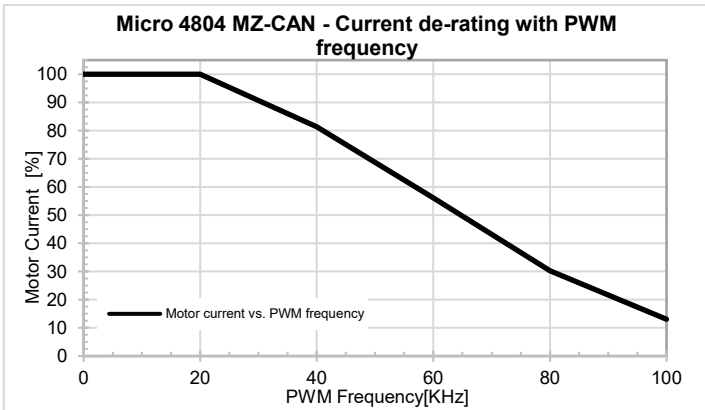
Analog Inputs (REF, FDBK)		Min.	Typ.	Max.	Units
0...5V Mode		Min.	Typ.	Max.	Units
Input voltage	Operational range	0		4.95	V
	Absolute maximum values, continuous	-12		+18	
Input impedance	Absolute maximum, surge (duration $\leq$ 1s)			$\pm$ 36	k $\Omega$
	To 1.447V		20		
Resolution		12			bits
Integral linearity				$\pm$ 2	bits
Offset error			$\pm$ 2	$\pm$ 10	bits
Gain error			$\pm$ 1%	$\pm$ 3%	% FS <sup>2</sup>
Bandwidth (-3dB)	Software selectable	0		1.5	kHz
ESD protection	Human body model	$\pm$ 2			kV
$\pm$ 10V Mode		Min.	Typ.	Max.	Units
Differential voltage range			$\pm$ 10		V
Common-mode voltage range	Referenced to GND	-12	0...10	+50	V
Input impedance	To 1.447V		20		k $\Omega$
Resolution			12		bits
Integral linearity				0.036	%FS <sup>2</sup>
Offset error	Common-mode voltage = 0...10 V		$\pm$ 0.2	$\pm$ 0.5	%FS <sup>2</sup>
Gain error	Common-mode voltage = 0...10 V		$\pm$ 0.5	$\pm$ 3	%FS <sup>2</sup>
Bandwidth (-3dB)	Software selectable	0		5.5	kHz
RS-232		Min.	Typ.	Max.	Units
Compliance		TIA/EIA-232-C			
Bit rate	Software selectable	9600		115200	Baud
Short-circuit	232TX short to GND	Guaranteed			
ESD protection	Human body model	$\pm$ 2			kV
CAN-Bus		Min.	Typ.	Max.	Units
Compliance		ISO11898, CiA-301v4.2, CiA 305 v2.2.13, 402v3.0			
Bit rate	Software selectable	125		1000	Kbps
Bus length	1Mbps			25	m
	500Kbps			100	
	$\leq$ 250Kbps			250	
Resistor	Between CAN-Hi, CAN-Lo	none on-board			
Node addressing	Hardware: by "IDx" pins	1-127 & 255			TMLCAN
		1-127 & 255(LSS inactive)			CANopen
	Software	1 + 127 (CANopen); 1- 255 (TMLCAN)			
Voltage, CAN-Hi or CAN-Lo to GND		-58		+58	V
Voltage, CAN-Hi to CAN-Lo		-45		+45	
ESD protection	Human body model	$\pm$ 15			kV


<sup>†</sup> Stresses beyond values listed under "absolute maximum ratings" may cause permanent damage to the device. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

<sup>1</sup> Full RS-422 compatibility, as well as noise rejection improvement requires an external 120 $\Omega$  resistor connected across each signal pair (A1+/A1-, B1+/B1-, Z1+/Z1-, A2+/A2-, B2+/B2-)

<sup>2</sup> "FS" stands for "Full Scale"

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