

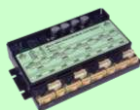
Features	
▪	Compact 3-axis CAN motion system that integrates a motion controller and drive into a single unit, powered by MotionChip™ technology.
▪	Universal solution for control of rotary and linear brushless, brushed and 2 or 3-phase step motors
▪	Advanced motion control features, including CSP, CSV, CST, PVT, S-curve, electronic gearing, camming, and more.
▪	Motor supply: 48V nominal
▪	Motor output current per axis: ▪ Nominal: 4A_{RMS} / 5.7A amplitude for PMSM motors 5A for DC / BLDC / Step motors ▪ Peak: 11.3A_{RMS} / 16A amplitude
▪	Logic supply: 24V nominal, 48V max

- | | | | | |
|--|------------------------------------|---|---|-------------|
| Name
ALN | First edition
September 2, 2024 | Document template: P099.TQT.564.0001 | Last edition
May 1, 2025 | Visa:
AS |
|  TECHNOSOFT | | Title of document

Micro 4804 SX3-CAN-STO
Multi Axis System
PRODUCT DATA SHEET | N° document

P020.103.E403.DSH.10F

Page: 1 of 5 | |



Micro 4804 SX3-CAN-STO Multi Axis System

DATASHEET

P/N: P020.103.E403

Mating Connectors				
Producer	Part No.	Connector	Description	
Molex	1053071203	J8, J9	1x3 Nano-Fit, 2.5mm Pitch Nano-Fit Wire-to-Board Housing, 3 circuits	
Molex	1053071204	J7	1x4 Nano-Fit, 2.5mm Pitch Nano-Fit Wire-to-Board Housing, 4 circuits	
Molex	1053071205	J2#x ¹	1x5 Nano-Fit, 2.5mm Pitch Nano-Fit Wire-to-Board Housing, 5 circuits	
Molex	5011892010	J3#x ¹	2x10 Pico-Clasp, 1mm Pitch Pico-Clasp Wire-to-Board Housing, 20 Circuits	
Molex	5013301300	J4#x ¹	1x13 Pico-Clasp, 1mm Pitch Pico-Clasp Wire-to-Board Housing, 13 Circuits	
Molex	5013300600	J5#x ¹	1x6 Pico-Clasp, 1mm Pitch Pico-Clasp Wire-to-Board Housing, 6 Circuits	
Molex	1053081208	J1	Nano-Fit Receptacle Housing, TPA Capable, 2.5mm Pitch, Dual Row, 8 Circuits, Black, Glow-Wire Capable	
Tensility International Corp	1002333	J1, J7, J8, J9, J2#x ¹	USB cable, Cable USB A Male - Micro B Male, 1m, shielded, black, 9.6mm plastic width	
Molex	0797582140	J1, J7, J8, J9, J2#x ¹	Pre-Crimped wires for Nano-Fit	Cable Assembly, Nano-Fit Crimp Terminal Socket to Nano-Fit Crimp Terminal Socket, 300mm
Molex	0797581019	J3#x ¹ , J4#x ¹ , J5#x ¹	Pre-Crimped wires for Pico-Clasp	Cable Assembly, Pico-Clasp Crimp Terminal Socket to Pico-Clasp Crimp Terminal Socket, 300mm
Molex	1053001400	J1, J7, J8, J9, J2#x ¹	Pins for Nano-Fit	Nano-Fit Crimp Terminal, Female, 0.76µm Gold (Au) Plating, Lubricated, 24-26 AWG
Molex	5011937000	J3#x ¹ , J4#x ¹ , J5#x ¹	Pins for Pico-Clasp	1.00mm Pitch, Pico-Clasp Female Crimp Terminal, Gold Plating 0.10µm, 28-32 AWG, Reel
Molex	638276000	J1, J7, J8, J9, J2#x ¹	Crimp tool Nano Fit	Crimp Tool, Ratchet, Molex Nano-Fit 105300 Series 26-24AWG Socket Contacts, 207129 Series
Molex	638191500	J3#x ¹ , J4#x ¹ , J5#x ¹	Crimp tool Pico-Clasp	Crimp Tool, Ratchet, Molex Pico-Clasp 501193 & 501334 Series 32-28AWG Contacts

Pin	Name	Type	Description
1,2,3	+Vmot	I	Positive terminal of the motor supply: 7 to 48 V _{DC} . Internally connected to all 3 drives +V _{mot} pins.
4	PE	-	Earth connection.
5,6,7	GND	-	Ground return. Internally connected to other GND pins.
8	PE	-	Earth connection

Pin	Name	Type	Description
1	A/A+	O	Phase A for 3-ph motors, A+ for 2-ph steppers, Motor+ for DC brush motors
2	B/A-	O	Phase B for 3-ph motors, A- for 2-ph steppers, Motor- for DC brush motors
3	C/B+	O	Phase C for 3-ph motors, B+ for 2-ph steppers
4	Cr/B-	O	Chopping resistor / Phase B- for 2-ph steppers
5	PE	-	Earth connection for motor cable shielding

Pin	Name	Type	Description
1	232TX	O	RS-232 Data Transmission.
2	232RX	I	RS-232 Data Reception.
3	GND	-	Ground return.
4	+Vlog	I	Positive terminal of the logic supply input: 6 to 48 V _{DC} . Internally connected to other +V _{log} pins.
5	IN2/LSP	I	5-48V digital NPN input. Positive limit switch input.
6	IN3/LSN	I	5-48V digital NPN input. Negative limit switch input.
7	I/O0	I/O	5-48V 1.5A NPN (sink) general-purpose digital programmable input IN0 or output OUT0
8	I/O1	I/O	5-48V 0.1A NPN (sink) general-purpose digital programmable input IN1 or output OUT1
9	I/O4	I/O	5-48V 0.1A NPN (sink) general-purpose digital programmable input IN4 or output OUT4
10	IN5	I	5-48V digital general-purpose NPN input
11	GND	-	Ground return. Internally connected to other GND pins.
12	AnalogIn	I	Analog input (range software selectable 0-5V or ±10V)
13	+5V	O	Supply for all feedback sensors.

Pin	Name	Type	Description
1	GND	-	Ground return. Internally connected to other GND pins.
2	Hall1	I	Digital Hall, or Linear Hall sensor 1.
3	+5V	O	5V supply for all feedback sensors.
4	Hall2	I	Digital Hall, or Linear Hall sensor 2.
5	+5V	O	5V supply for all feedback sensors.
6	Hall3	I	Digital Hall, or Linear Hall sensor 3.
7	EncA1+/EncA1Dt1+/Dt1	I	Encoder 1 A+ / Data+ diff. input or single-ended input. Set SW1 pin 1 for differential.
8	GND	-	Ground return.
9	EncA1-/Dt1-	I	Encoder 1 A-/Data- diff. input. Set SW1 pin 1 for differential.
10	+5V	O	5V supply for all feedback sensors.
11	EncB1+/EncB1Clk1+/Clk1	I	Encoder 1 B+ / Clock+ diff. input or single-ended input. Set SW1 pin 2 for differential.
12	EncA2+/EncA2Dt2+/Dt2	I	Incr. encoder 2 A / Data+ diff. input or single-ended input. Set SW1 pin 4 for differential.
13	EncB1-/Clk1-	I	Encoder 1 B- / Clock- diff. input. Set SW1 pin 2 for differential.
14	EncA2-/Dt2-	I	Incr. encoder 2 A- / Data - diff. input. Set SW1 pin 4 for differential.
15	Z / Z1+	I	Incr. encoder 1 Z / Z+ diff. input or single-ended input. Set SW1 pin 3 for differential.
16	EncB2+/EncB2Clk2+/Clk2	I/O	Encoder 2 B+ / Clock+ diff. input or single-ended input. Set SW2 pin1 for differential.
17	Z1-	I	Incr. encoder 1 Z- diff. input. Set SW1 pin 3 for differential.
18	EncB2-/Clk2-	I	Encoder 2 B- / Clock- diff. input. Set SW2 pin1 for differential.
19	GND	-	Ground return.
20	+Vlog	I	Positive terminal of the logic supply input: 6 to 48 V _{DC} . Internally connected to other +V _{log} pins.

Pin	Name	Type	Description
1	GND	-	Ground return.
2	Can Lo	I/O	CAN-Bus negative line (dominant low)
3	Can Hi	I/O	CAN-Bus positive line (dominant high)

Port	Name	Type	Description
J6#x ¹	USB	I/O	Standard Micro USB for PC data transfer

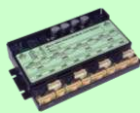
Pin	Name	Type	Description
1	STO2-	I	Safe Torque Off input 2, negative return (opto-isolated, 0V)
2	STO2+	I	Safe Torque Off input 2, positive input (opto-isolated, 18+40V)
3	PE	-	Earth connection
4			
5	STO1+	I	Safe Torque Off input 1, positive input (opto-isolated, 18+40V)
6	STO1-	I	Safe Torque Off input 1, negative return (opto-isolated, 0V)

Pin	Name	Type	Description
1	Rsvd	-	Reserved. Do not connect.
2	GND	-	Ground return. Internally connected to other GND pins.
3	+Vlog	I	Positive terminal of the logic supply input: 6 to 48 V _{DC} . Internally connected to all 3 drives +V _{log} pins.
4	PE	-	Earth connection

SW1#x ¹ – Feedback Resistors selection	
Position	Description
1	ON = Connect an 120Ω resistor between EncA1-/Dt1- and EncA1+/EncA1Dt1+/Dt1 feedback pins.
2	ON = Connect an 120Ω resistor between EncB1/Clk1- and EncB1+/EncB1Clk1+/Clk1 feedback pins.
3	ON = Connect an 120Ω resistor between Z1- and Z1+ feedback pins.
4	ON = Connect an 120Ω resistor between EncA2-/Dt2- and EncA2+/EncA2Dt2+/Dt2 feedback pins.
SW2#x ¹ – Feedback Resistors selection	
1	ON = Connect an 120Ω resistor between EncB2/Clk2- and EncB2+/EncB2Clk2+/Clk2 feedback pins.

¹ "x" can be drive 1, 2 or 3

Name ALN	First edition September 2, 2024	Document template: P099.TQT.564.0001	Last edition May 1, 2025	Visa: AS
 TECHNOSOFT		Micro 4804 SX3-CAN-STO Multi Axis System PRODUCT DATA SHEET		N° document P020.103.E403.DSH.10F Page: 2 of 5



Micro 4804 SX3-CAN-STO Multi Axis System

DATASHEET

P/N: P020.103.E403

SW5 – CAN Resistors selection

- 1 ON = Connect an 120Ω resistor between CAN Hi and CAN Lo signals. Physically located near J9 connector.

SW4 – Protocol selection

- 1 OFF – CANOpen mode
ON – TMLCAN mode

SW3 - AxisID selection

SW3				Drive AxisID		
Pin 1	Pin 2	Pin 3	Pin 4	Drive #1	Drive #2	Drive #3
off	off	off	off	1	2	3
off	off	off	on	9	10	11
off	off	on	off	17	18	19
off	off	on	on	25	26	27
off	on	off	off	33	34	35
off	on	off	on	41	42	43
off	on	on	off	49	50	51
off	on	on	on	57	58	59
on	off	off	off	65	66	67
on	off	off	on	73	74	75
on	off	on	off	81	82	83
on	off	on	on	89	90	91
on	on	off	off	97	98	99
on	on	off	on	105	106	107
on	on	on	off	113	114	115
on	on	on	on	121	122	123

Electrical characteristics

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

- V_{LOG} = 24 VDC; V_{MOT} = 48 VDC; F_{PWM} = 20 kHz
- Ambient temperature = 25°C (typical values) / 0°C...40°C (min/max values)
- Supplies start-up / shutdown sequence: -any-
- Load current = nominal
- Data is provided for each axis of the system

Operating Conditions		Min.	Typ.	Max.	Units	
Ambient temperature		0		40 ¹	°C	
Ambient humidity		0		90	%Rh	
Altitude / pressure ²	Altitude (vs. sea level)	-0.1	0 ÷ 2.5	²	Km	
	Ambient Pressure	0	0.75 ± 1	10.0	atm	
Storage Conditions		Min	Typ	Max	Units	
Ambient temperature		-40		100	°C	
Ambient humidity		0		100	%Rh	
Ambient Pressure		0		10.0	atm	
ESD capability (Human body model)	Not powered; applies to any accessible part			±5	kV	
	Original packaging			±15	kV	
Mechanical Mounting			Min	Typ	Max	Units
Airflow		natural convection, closed box, vertical				
Spacing required between adjacent drives			10			mm
Spacing required above drive		For counter-connectors & cable bending		30	80	
Environmental Characteristics		Min.	Typ.	Max.	Units	
Size (Length x Width x Height)	Global size	118.2 x 71.4 x 21.7			mm	
		~4.65 x 2.81 x 0.85			inch	
Weight		152			g	
Cleaning agents		Dry cleaning is recommended				
Protection degree		According to IEC60529			IP20	
Power dissipation	Idle (I _{MOT} = 0A)		1	1.2	W	
	Full power (I _{MOT} = nominal)		2.0	2.4		
Power efficiency		Full power (I _{MOT} = nominal)			98.7	
Voltage efficiency	f _{PWM} = 20KHz		98.3		%	
	f _{PWM} = 100KHz		91.4			
Surface temperature of metallic baseplate			40		°C	
Logic Supply Input (+V _{LOG})		Min	Typ.	Max.	Units	
Supply voltage	Nominal values	6	24	48	V _{DC}	
	Absolute maximum values, drive operating but outside guaranteed parameters	4.9		50	V _{DC}	
	Absolute maximum values, continuous	-0.5		53	V _{DC}	
Supply current	+V _{LOG} = 12V		90	150	mA	
	+V _{LOG} = 24V		60	90		
	+V _{LOG} = 48V		45	60		
Utilization category		Acc. to 60947-4-1 (I _{PEAK} ≤ 1.05*I _{NOM})			DC-1	

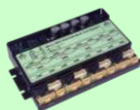
Motor Supply Input (+V _{MOT})		Min	Typ.	Max.	Units
Supply voltage	Nominal values	7		48	V _{DC}
	Absolute maximum values, drive operating but outside guaranteed parameters	6		50	V _{DC}
	Absolute maximum values, continuous	-0.5		53	V _{DC}
Supply current	Idle		0.3		mA
	Operating	-16	±7	+16	A
Voltage measurement error			±0.15	±0.25	V
Utilization category		Acc. to 60947-4-1 (I _{PEAK} ≤ 4.0 * I _{NOM})			
		DC-3			
Motor Outputs (A/A+, B/A-, C/B+, CR/B-)		Min.	Typ.	Max.	Units
Nominal current	PMSM motors sinusoidal amplitude			±5.7	A
	PMSM motors sinusoidal RMS			4	A _{RMS}
	DC/BLDC/STEP motors continuous			5	A
Peak current		-16		+16	A
Short-circuit protection threshold			±25	±28	A
Short-circuit protection delay		2.6		3.5	µs
On-state voltage drop	Nominal output current; including typical mating connector contact resistance		50	70	mV
			0.3	1	mA
Current measurement	Accuracy (FS = Full Scale)		±1	±1.5	%FS
	Noise (current ≤ 2A)		±4	±6	mA
	Noise (current ≥ 2A)		±30	±50	mA
Motor inductance (phase-to-phase)	Offset drift (compensated @ AxisOn)			±0.16	mA/°C
	Recommended value to avoid spurious short-circuit protection, triggered by ripple				µH
	Fast loop ³ V _{MOT}				
	50µs 48V		133		
	100µs 48V		266		
Motor electrical time-constant (L/R)	Recommended value for ±5% current measurement error				µs
	F _{PWM} = 20 kHz		330		
	F _{PWM} = 40 kHz		170		
	F _{PWM} = 60 kHz		140		
	F _{PWM} = 80 kHz		80		
	F _{PWM} = 100 kHz		66		
Digital Inputs (IN0, IN1, IN2/LSP, IN3/LSN, IN4, IN5)		Min.	Typ.	Max.	Units
Mode compliance		NPN (sink)			
Default state		Logic HIGH			
Input voltage	Logic "LOW"		1.4	1.8	V
	Logic "HIGH"		3.1	2.5	
	Hysteresis		0.9	1.1	
	Logic "LOW"			1.4	
	Logic "HIGH"			1.6	
	Hysteresis		4	3.5	
	Floating voltage (not connected)		0.6		
			4.7		
Input current	Absolute maximum, continuous			+80	mA
Logic "LOW"; Pulled to GND			6.5	8	mA
Logic "HIGH"; Pulled to +24V			0.2	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		NPN (sink) 24V			
Load type		Resistive, Inductive			
Default state		High-Z (floating)			
Output voltage	Not supplied (+V _{LOG} floating)				V
	Immediately after power-up				
	Logic "LOW"; output current = 1.5A for OUT0/ 0.05A for OUT1, OUT4			0.4	
	Logic "HIGH"; output current = 0, no load	4	4.7	5.2	
	Logic "HIGH", external load to +V _{LOG}		V _{LOG}		
	Absolute maximum, continuous (free-wheeling diodes to +V _{LOG} to GND)	-0.5		V _{LOG} +0.5	
	Absolute maximum, surge (duration ≤ 1s) [†]	-1		V _{LOG} +1	
Output current	Logic "LOW", sink current, short duration, duty cycle ≤ 1%	5s max		0.1	A
		0.5s max		2	
				0.15	
				2.5	
	Logic "LOW", sink current, continuous; V _{OUT} ≤ 0.4V			0.05	mA
				1.5	
	Logic "HIGH", source current; external load to GND; V _{OUT} ≥ 2.0V			5	
	Logic "HIGH", leakage current; external load to +V _{LOG} ; V _{OUT} = V _{LOG} max = 40V				
Minimum pulse width			0.18	0.2	µs
ESD protection - Human body model			0.42	0.45	
		0.5			µs
		±25			kV

¹ Operating temperature at higher temperatures is possible with reduced current and power ratings
² 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.

³ Fast loop period of 50µs is not possible with all feedback device types.

current and power rating are reduced due to thermal dissipation efficiency.

Name	First edition	Document template: P099.TQT.564.0001	Last edition	Visa:
ALN	September 2, 2024		May 1, 2025	AS
 TECHNOSOFT		Title of document	N° document	
		Micro 4804 SX3-CAN-STO Multi Axis System PRODUCT DATA SHEET	P020.103.E403.DSH.10F	
Page: 3 of 5				



Micro 4804 SX3-CAN-STO Multi Axis System

DATASHEET

P/N: P020.103.E403

Supply Output (+5V)			Min.	Typ.	Max.	Units
Output voltage	Current sourced = 400mA ¹		5.05	5.2	5.25	V
Output current ¹	Output voltage ≥ 4.85V				1,200	mA
Short-circuit to GND protection			Yes / Drive resets at event			
Over-voltage protection			NOT protected			
ESD protection	Human body model		±1			kV
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	4.8	5.2	V
Input voltage	Digital	Logic "LOW"		1.5	1.7	
		Logic "HIGH"	3	2.5		
		Hysteresis		0.5		
	Analog		0	0.5...4.5	4.95	
Input current	Logic "LOW"; Pull to GND			2.4		mA
	Logic "HIGH"; Internal 2.2KΩ pull-up to +5			0		
Minimum pulse width				66		µs
ESD protection - Human body model				±15		kV
Encoder Inputs (A1+, A1-, B1+, B1-, Z1+, Z1-, A2+, A2-, B2+, B2-) ²			Min.	Typ.	Max	Units
Single-ended mode compliance	Leave A1-, B1-, Z1-, A2-, B2- floating		TTL / CMOS / Open-collector (NPN sink)			
Single-ended threshold	A1+, B1+, Z1+, A2+, B2+		1.3	1.4	1.5	V
Single-ended input current	Input pulled to GND against on-board 2.2 KΩ pull-up to +5V			2.4	2.7	mA
Differential mode compliance	For full RS422 compliance, see ¹		TIA/EIA-422-A			
Input voltage	Hysteresis		±0.03	±0.05	±0.2	V
	Differential mode		-15		+15	
	Common-mode range (A+ to GND, etc.)		-7		+12	
Input impedance, differential	Common-mode (A1+ to GND, etc.)			2.2		kΩ
	Differential (A1+ to A1-, etc.)			4.4		
Input frequency	Differential mode		0		15	MHz
Minimum pulse width	Differential mode		33			ns
ESD protection	Human body model		±30			kV
RS-232			Min.	Typ.	Max.	Units
Compliance			TIA/EIA-232-C			
Bit rate	Default		9600			Baud
	Software selectable		9600		115200	
Output voltage			±5	±5.7		V
Short-circuit	232TX to GND		Guaranteed			
Input voltage	Absolute maximum, continuous		-30		+30	V
ESD protection	Human body model		±15			kV
Absolute encoder interface: SSI, BiSS-C, EnDAT, Tamagawa, Nikon, Sanyo Denki			Min	Typ.	Max	Units
Single-ended mode	Not recommended, reduced robustness & speed					
Differential mode compliance	For full RS422 compliance, see ²		TIA/EIA-422-A			
Output voltage	Differential; 50Ω differential load		1.5	3.3		V
	Common-mode, referenced to GND		1	1.7	3	
CLOCK frequency	Nikon, Sanyo Denki		2.5, 4			MHz
	Panasonic, Tamagawa		2.5			
	All others		1, 2, 3, 4			
Output Short- circuit protection	Common-mode voltage ±15V		Yes, protected			
DATA format	Software selectable		Binary / Gray			
			Single-turn / Multi-turn			
			Counting direction			
			CRC type			
DATA resolution	Including CRC, flags, ...				64	Bits
	If total resolution >31 bits, some bits must be ignored by software setting to achieve a max. 31 bits resolution					

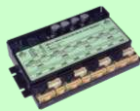
Analog Input (REF/ FDBK)		Min	Typ.	Max	Units
Input voltage	Operational range	0...5, -10...+10			
	Absolute maximum values, continuous	-22		+26	V
	Absolute maximum, surge (duration ≤ 1s)			±38	
Input impedance	To 1.44V		20		kΩ
Bandwidth (-3dB)	Software selectable	0		5.3	kHz
Resolution		12			bits
Integral linearity				±1	bits
Offset error	Range -10V ... +10V		±10	±30	mV
	Range 0 ... +5V		±15	±40	
Gain error	Range -10V ... +10V		±30	±50	
	Range 0 ... +5V		±25	±40	
ESD protection	Human body model	±1.5			kV
CAN-Bus		Min.	Typ.	Max.	Units
Compliance		CAN 2.0B, ISO 11898-2			
Software protocols compatibility		CiA301, CiA305, CiA402, TechnoCAN, TMLcan			
Bit rate	Software selectable	125, 250, 500, 1000			KBaud
Node addressing	TMlcan	SW3 selectable	1+123		-
	CANopen				-
Voltage	Common-mode, operating	-12		+12	V
	Common-mode, max. continuous	-58		+58	V
	Differential, max. continuous	-45		+45	V
Input impedance	Differential	40		90	kΩ
	Common-mode	20		45	kΩ
Termination resistor (120Ω)		Included – SW5			
ESD protection	Human body model	±10			kV
Safe Torque Off (STO) Inputs		Min.	Typ.	Max.	Units
Safety Integrity Level		SIL 3			
Performance Level		PL e			
Safety Category		Cat 3			
Reaction time				30	ms
Ignored diagnostic pulses	Duration			5	ms
	Repetition rate			20	Hz
MTTFd			377		years
DC			90		%
PFH			8E-10		hours
Lifetime			20		years
V _{LOG}	External power supply	SELV or PELV			
Pollution Degree			2		-
	Cabinet / Housing	IP54			-
STO wiring	Bundling / Grouping	Separate wiring for STO1, STO2			
	Shielding	Separate shield for STO1, STO2			
Compatibility	Each STO channels has separate + and - terminals	PNP (source) or NPN (sink), depending on user connection			
Isolation		Each STO channel is opto-isolated			
Voltage, STOx+ to STOx-	Inactive (torque off)		0	5.6	V
	Active (motor driven)	18	24		V
Voltage	Abs. maximum, continuous	-70		+70	V
	Isolation, STO1 to STO2	±2			kV
Current	Isolation, STOx to GND	±2			kV
	STOx+ - STOx- = 24V		3	5	mA
ESD protection	Human body model	±30			kV

[†] 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.

¹ Specified currents are intended per drive. Each drive has separate +5V outputs

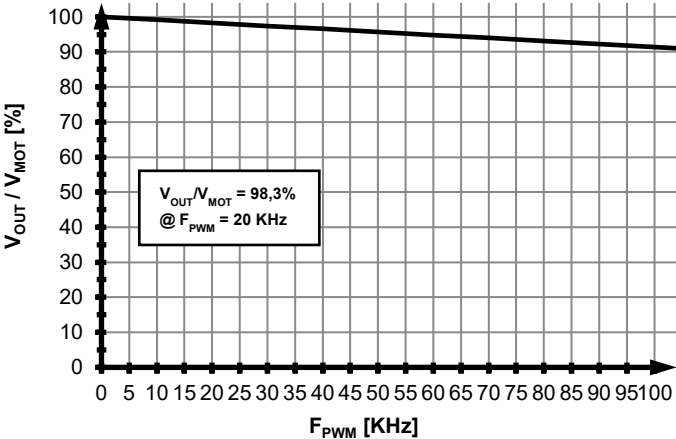
² To achieve full RS-422 compatibility and enhance noise rejection, it is necessary to connect an 120Ω resistor across each signal pair (A1+/A1-, B1+/B1-, Z1+/Z1-, A2+/A2-, B2+/B2-). This can be done through SW1 and SW2.

Name ALN	First edition September 2, 2024	Document template: P099.TQT.564.0001	Last edition May 1, 2025	Visa: AS
 TECHNOSOFT		Title of document Micro 4804 SX3-CAN-STO Multi Axis System PRODUCT DATA SHEET	N° document P020.103.E403.DSH.10F Page: 4 of 5	

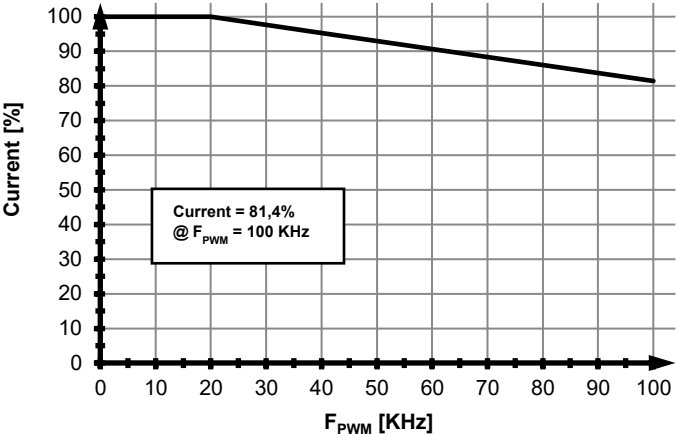


Micro 4804 SX3-CAN-STO Multi Axis System
DATASHEET
P/N: P020.103.E403

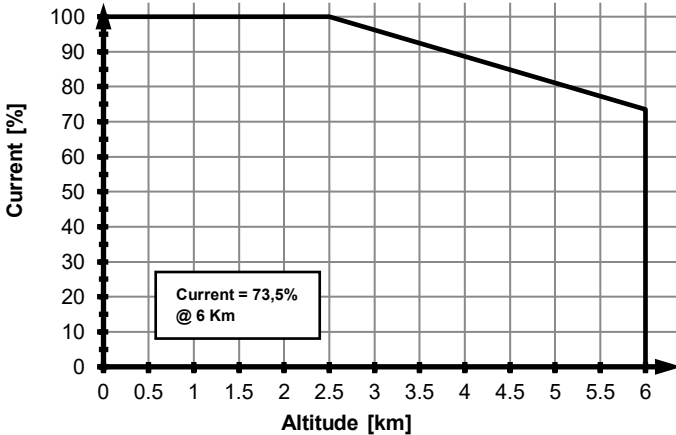
Micro 4804 SX



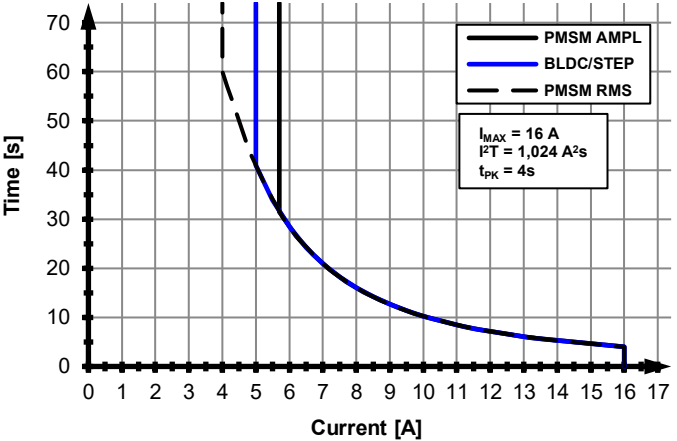
Micro 4804 SX



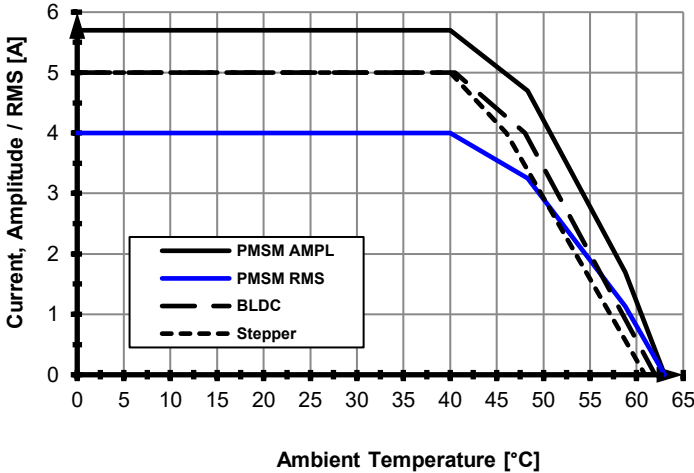
Micro 4804 SX



Micro 4804 SX



Micro 4804 SX



Name ALN	First edition September 2, 2024	Document template: P099.TQT.564.0001	Last edition May 1, 2025	Visa: AS
 TECHNOSOFT		Title of document Micro 4804 SX3-CAN-STO Multi Axis System PRODUCT DATA SHEET		N° document P020.103.E403.DSH.10F Page: 5 of 5