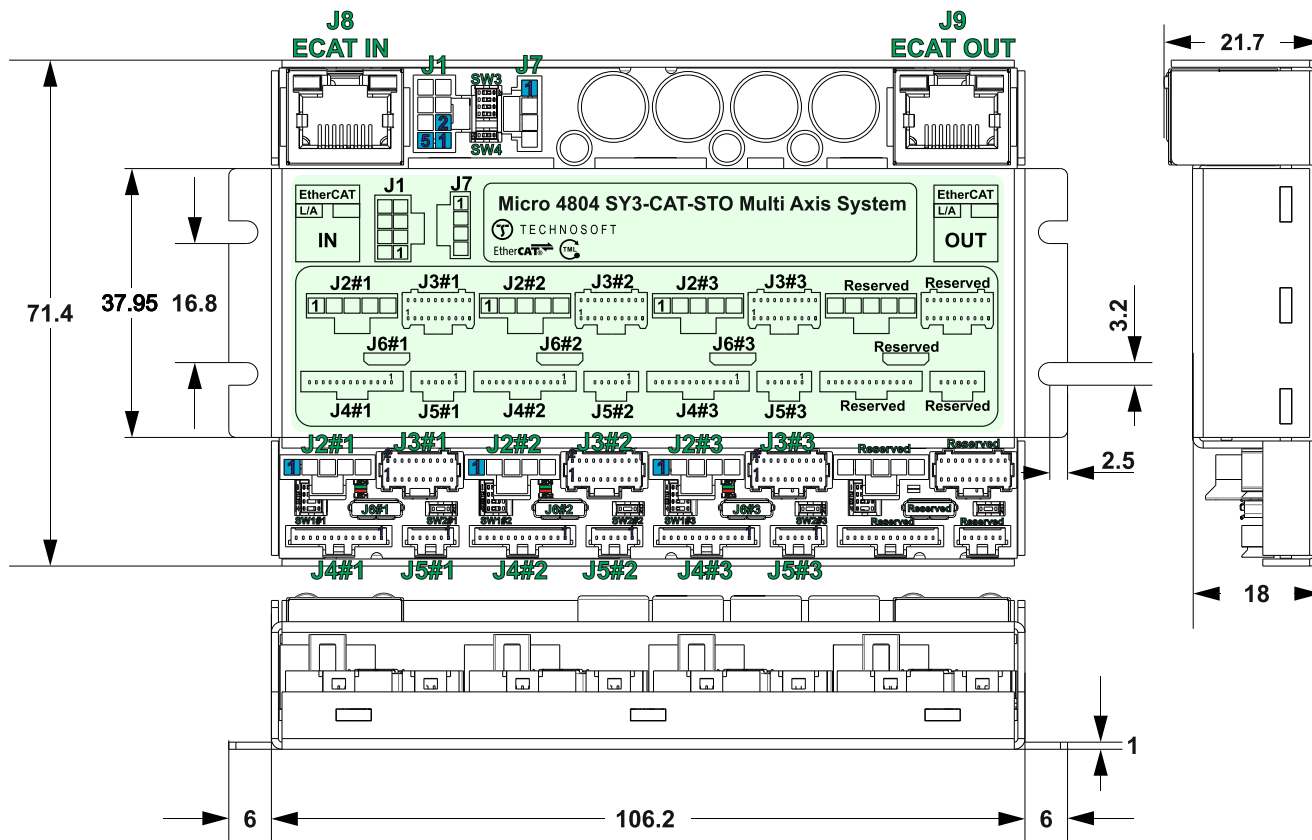




Micro 4804 SY3-CAT-STO Multi Axis System

DATASHEET

P/N: P020.203.E403





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Mating Connectors			
Producer	Part No.	Connector	Description
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	J6#x	USB cable, Cable USB A Male - Micro B Male, 1m, shielded, black, 9.6mm plastic width
Molex	0797582140	J1, J7, J2#x ¹	Pre-Crimped wires for Nano-Fit
Molex	0797581019	J3#x ¹ , J4#x ¹ , J5#x ¹	Pre-Crimped wires for Pico-Clasp
Molex	1053001400	J1, J7, J2#x ¹	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	1.00mm Pitch, Pico-Clasp Female Crimp Terminal, Gold Plating 0.1µm, 28-32 AWG, Reel
Molex	638276000	J1, J7, J2#x ¹	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, 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 NPN general-purpose 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+/EncA1 Dt1+/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+/EncB1 Clk1+/Clk1	I	Encoder 1 B+ / Clock+ diff. input or single-ended input. Set SW1 pin 2 for differential.
12	EncA2+/EncA2 Dt2+/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	Z1+	I	Incr. encoder 1 Z / Z+ diff. input or single-ended input. Set SW1 pin 3 for differential.
16	EncB2+/EncB2 Clk2+/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.

Port	Name	Type	Description
J8	ECAT IN	I	EtherCAT standard RJ45 Ethernet IN port.
J9	ECAT OUT	O	EtherCAT standard RJ45 Ethernet OUT port.
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	PE	-	Earth connection
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+/EncA1/Dt1+/Dt1 feedback pins.
2	ON = Connect an 120Ω resistor between EncB1/Clk1- and EncB1+/EncB1/Clk1+/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+/EncA2/Dt2+/Dt2 feedback pins.
SW2#x ¹ – Feedback Resistors selection	
1	ON = Connect an 120Ω resistor between EncB2/Clk2- and EncB2+/EncB2/Clk2+/Clk2 feedback pins.

LEDs	
LED1, LED2, LED3	Red EtherCAT® ERROR indicator.
LED5, LED6, LED7	Green EtherCAT® RUN indicator.

¹ "x" can be drive 1, 2 or 3

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SW3 & SW4 - AxisID Selection								
SW4	SW3				Drive AxisID			
	Pin 1	Pin 2	Pin 3	Pin 4	Drive #1	Drive #2	Drive #3	
off	off	off	off	off	1	2	3	
off	off	off	off	on	9	10	11	
off	off	off	on	off	17	18	19	
off	off	off	on	on	25	26	27	
off	off	on	off	off	33	34	35	
off	off	on	off	on	41	42	43	
off	off	on	on	off	49	50	51	
off	off	on	on	on	57	58	59	
off	on	off	off	off	65	66	67	
off	on	off	off	on	73	74	75	
off	on	off	on	off	81	82	83	
off	on	off	on	on	89	90	91	
off	on	on	off	off	97	98	99	
off	on	on	off	on	105	106	107	
off	on	on	on	off	113	114	115	
off	on	on	on	on	121	122	123	
on	off	off	off	off	129	130	131	
on	off	off	off	on	137	138	139	
on	off	off	on	off	145	146	147	
on	off	off	on	on	153	154	155	
on	off	on	off	off	161	162	163	
on	off	on	off	on	169	170	171	
on	off	on	on	off	177	178	179	
on	off	on	on	on	185	186	187	
on	on	off	off	off	193	194	195	
on	on	off	off	on	201	202	203	
on	on	off	on	off	209	210	211	
on	on	off	on	on	217	218	219	
on	on	on	off	off	225	226	227	
on	on	on	off	on	233	234	235	
on	on	on	on	off	241	242	243	
on	on	on	on	on	249	250	251	

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) / $0^{\circ}\text{C} \dots 40^{\circ}\text{C}$ (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	Non-condensing	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	Non-condensing	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			30	80			
For counter-connectors & cable bending							
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			161		g		
Cleaning agents			Dry cleaning is recommended				
Protection degree			According to IEC60529				
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	maximum 4 seconds		-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
Off-state leakage current				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
Offset drift (compensated @ AxisOn)					±0.16	mA/°C
Motor inductance (phase-to-phase)	Recommended value to avoid spurious short-circuit protection, triggered by ripple	Fast loop ³	V _{MOT}			µH
		50µs	48V	133		
		100µs	48V	266		
		50µs	24V	66		
		100µs	24V	133		
Motor electrical time-constant (L/R)	Recommended value for ±5% current measurement error	F _{PWM} = 20 kHz		330		µs
		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			Input floating (wiring disconnected)			
Input voltage	Logic "LOW"	IN0, IN1, IN4, IN5		1.4	1.8	V
			3.1	2.5		
	0.9		1.1	1.4		
	Logic "HIGH"	IN2/LSP, IN3/LSN		1.4	1.6	
			4	3.5		
			0.6			
	Floating voltage (not connected)			4.7		
Absolute maximum, continuous	IN2/LSP, IN3/LSN, IN5	-2		+80		
	IN0, IN1, IN4	-0.5		V _{LOG} +0.5		
Input current	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
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)			
Input voltage	Digital	Logic "LOW"		1.5	1.7	V
		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

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.

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Digital Outputs (OUT0, OUT1, OUT4)				Min.	Typ.	Max.	Units
Mode compliance				NPN (sink) 24V			
Load type				Resistive, Inductive			
Default state	Not supplied (+V _{LOG} floating)			High-Z (floating)			
	Immediately after power-up			Logic "HIGH"			
Output voltage	Logic "LOW"; output current = 1.5A for OUT0/ 0.05A for OUT1, OUT4					0.4	V
	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	OUT1, OUT4			0.1	A
			OUT0			2	
		0.5s max	OUT1, OUT4			0.15	
			OUT0			2.5	
	Logic "LOW", sink current, continuous; V _{OUT} ≤ 0.4V		OUT1, OUT4			0.05	mA
			OUT0			1.5	
	Logic "HIGH", source current; external load to GND; V _{OUT} ≥ 2.0V					5	mA
	Logic "HIGH", leakage current; external load to +V _{LOG} ; V _{OUT} = V _{LOG} max = 40V		V _{LOG} =24V		0.18	0.2	mA
V _{LOG} =48V				0.42	0.45		
Minimum pulse width				0.5			μs
ESD protection - Human body model				±25			kV
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
Encoder Inputs (A1+, A1-, B1+, B1-, Z1+, Z1-, A2+, B2-, 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 ²			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			
	Software selectable			9600		115200	Baud
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 ¹			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			
	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						

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

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	mV
	Range 0 ... +5V		±25	±40	
ESD protection	Human body model	±1.5			kV
EtherCAT®		Min.	Typ.	Max.	Units
Compliance		IEEE802.3, IEC61158			
Software protocols compatibility		CoE, FoE, EoE, IEC61800-7-301			
Transmission line	According to TIA/EIA-568-5-A	5 UTP	5e FTP	6 STP	Category Shield
		Yes (MLT3 encoding)			
Auto	swap + / - inside a pair	Yes (auto-MDI/MDIX)			
	Swap port0(IN) / port1(OUT)	NO (EtherCAT requirement)			
Configured Station Alias (using AxisID)		1 ÷ 251			
ESD protection	Human body model	±5			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

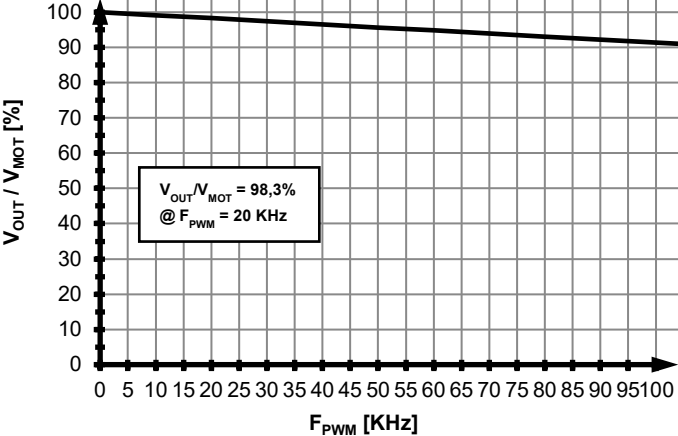
[†] Stresses beyond values listed under "absolute maximum ratings" may cause permanent damage to the device. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

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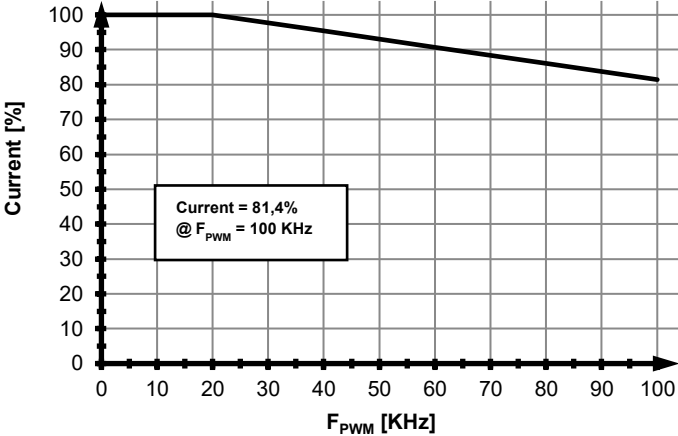


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DATASHEET
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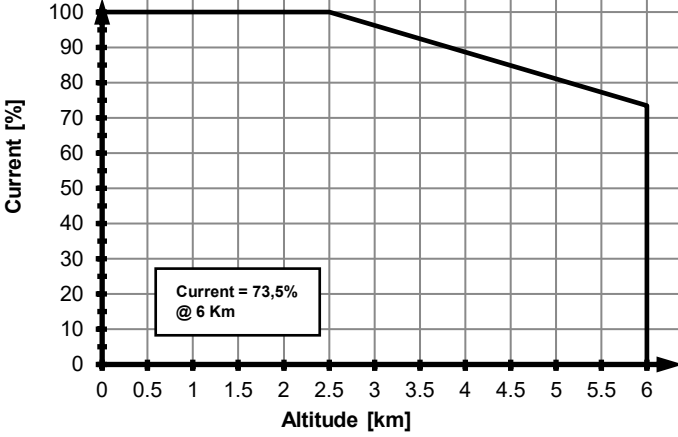
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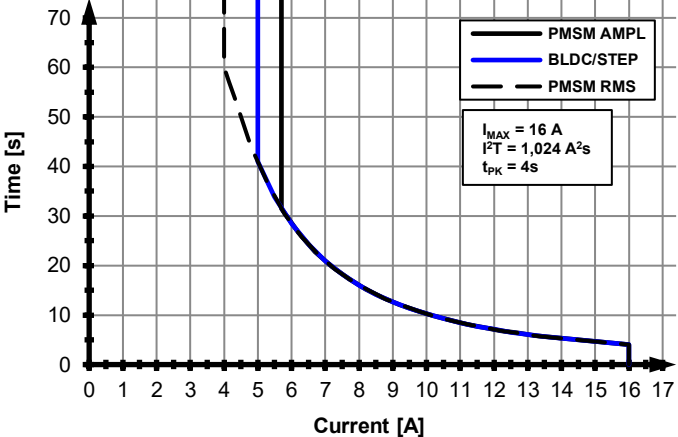
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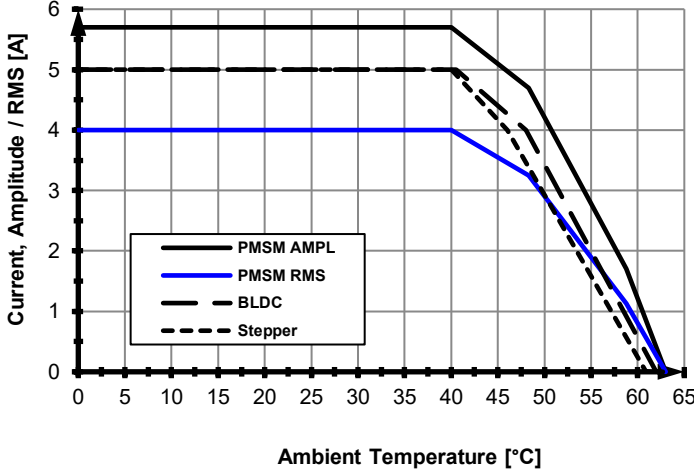
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