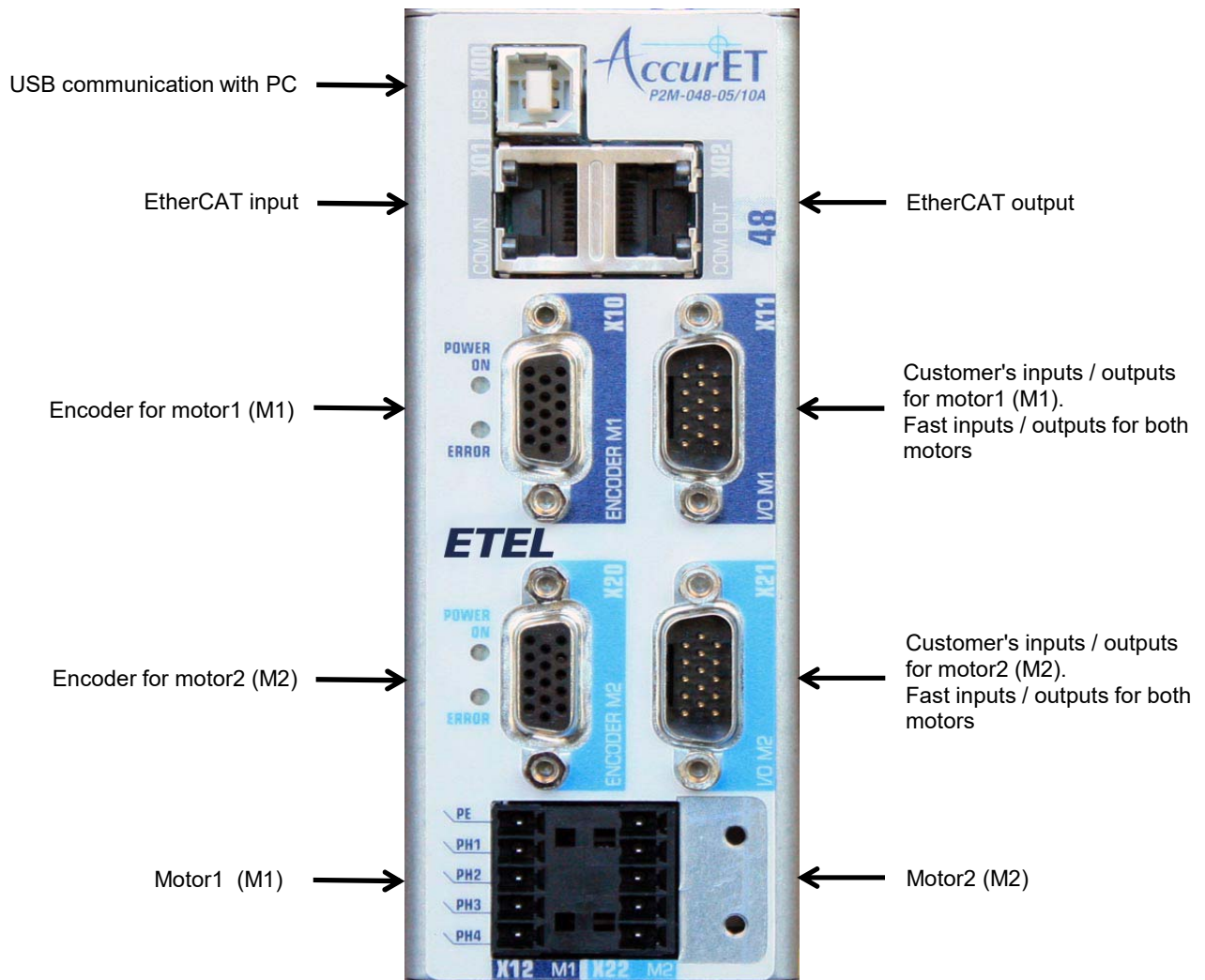


CONTROLLERS		UNIT	EA-P2M-048-2.5/5A	EA-P2M-048-05/10A
Number of axes		-	2	2
Current range	Continuous current (per axis)	Arms	2.5	5
	Max. overload current (per axis)	Arms	5	10
Power input	DC voltage	VDC	15 - 48	15 - 48
	Max. current	Arms	10	10
Control input	DC voltage	VDC	24 VDC ($\pm 10\%$)	24 VDC ($\pm 10\%$)
	Max. current at 24 VDC	Arms	Typ. 1.3 A / Max. 2.5 A	Typ. 1.3 A / Max. 2.5 A
PWM frequency		kHz	10, 20	10, 20
Weight		kg	0.98	1.13

CONTROL FEATURES		UNIT	
General	Motion profile and command management sampling time	μs	500
	Current loop sampling time	μs	50
	Position loop sampling time	μs	50
	Basic motion profiles	-	Trapezoidal, S-curve, Sine, Look-up table, ...
	CANopen motion profiles	-	Cyclic Synchronous Position (CSP), Profile Position (PP), Homing
	Power safety relay	-	Relay disabling the output power bridge
Communication interface	Protocol	-	CANopen over EtherCAT, CiA-402
	EtherCAT cycle time	μs	500 (up to 4000)
	USB 2.0 (for setting only)	-	Full speed (12 Mbps)
Position encoder interface	Analog 1 Vpp	-	Max. 500 kHz input frequency
	Digital (TTL)	-	Max. 10 MHz input frequency
	EnDat 2.1 and 2.2	-	RS485
User's inputs / outputs	Digital inputs / outputs	-	4 / 2 (per axis)
	Fast digital inputs / outputs	-	6 / 4 (common to both axes)
	Analog inputs / outputs	-	0 / 0
Software / programmability	ComET commissioning software	-	For setting / monitoring (for software compatibility, refer to the ComET manual)
	ESI configuration files	-	Available within ComET install
	Firmware update	-	USB

ADVANCED FEATURES	
Identification tools	Powerfull identification tool for fine tuning and machine performance evaluation.
Stage protection	Safety algorithm to handle very fast and controlled axis stop.
Cogging and friction compensation	Learning algorithm to compensate disturbances like friction and cogging.
Dual encoder feedback	Optimized management of dual encoder feedback on a single axis.
Trajectory filters	Advanced trajectory shapes to avoid axis vibrations and reduce settling times.
EtherCAT touch probe function	Fast position capture based on user defined triggers.



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