

XMC-E16A-DC Cut Sheet



LS Electric XMC programmable motion controller, microSD card slot, Ethernet and USB B ports, EtherCAT Master and Modbus TCP, up to (16) axes and up to (18) virtual axes, external 24 VDC required. Optional XEL-BSSCT bus coupler for I/O expansion with XGB modules.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/XMC-E16A-DC>

Technical Specifications

Brand	LS Electric XMC
Item	Programmable motion controller
Total Memory	26 MB
Program Memory	10 MB motion programming and 10 MB CNC programming
User Data Memory	6 MB
Removable Media Type	MicroSD card slot
Programming Language	IEC 61131-3 ladder, structured text and G-Code
Programming Software	XG5000 programming software v4.77 or later
Communication Port and Connection Type(s)	<ul style="list-style-type: none"> • (2) Ethernet 10/100Base-T (RJ45) • (1) miniB-USB
Port Protocol(s)	<ul style="list-style-type: none"> • EtherCAT Master • Modbus TCP Client/Server • LS XGT protocol Client/Server • programming and monitoring
Port Speed(s)	100 Mbps
Real Time Clock/Calendar	Yes
Retentive Memory	Yes
Battery Backup	No
External Power Requirement	24 VDC
Number of Discrete Input Points	8
Nominal Input Voltage	24 VDC
Voltage Type	DC
Discrete Input Type	Sinking/sourcing
Number of Non-Isolated Discrete Input Commons	1
Number of Points per Discrete Input Common	8
Number of Discrete Output Points	16
Encoder Input Type	Line receiver (differential), NPN open collector, PNP open collector and push-pull (totem) encoder input
Nominal Output Voltage	12-24 VDC
Discrete Output Type	Sinking

Load Current	0.5A/point
Number of Non-Isolated Discrete Output Commons	1
Number of Points per Discrete Output Common	16
Number of Analog Input Channels	2
Analog Input Signal Type	Current/voltage
Number of Isolated Analog Input Commons	2
Number of Points per Analog Input Common	1
Input Resolution	14-bit
Input Current Signal Range	Input current signal range(s) of 0-20 mA, 4-20 mA
Input Voltage Signal Range	Input voltage signal range(s) of -10-10 VDC, 0-10 VDC, 0-5 VDC, 1-5 VDC
Number of Analog Output Channels	2
Analog Output Signal Type	Voltage
Output Resolution	14-bit
Output Voltage Signal Range	-10-10 VDC, 0-10 VDC, 0-5 VDC and 1-5 VDC
Number of High-Speed Capable Input Points	8
Position Scaling	up to (2) quadrature (A and B) encoder inputs
Frequency Measurement	up to (2) quadrature (A and B) encoder inputs
Number of EtherCAT Axes	up to (16) axes and up to (18) virtual axes
EtherCAT Communication Cycle Time	0.5 - 4 ms
Maximum EtherCAT Slaves Allowed	32

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Axis Profile(s)	<ul style="list-style-type: none">• relative/absolute positioning• velocity mode• trapezoid• S-curve• electronic gearing• camming• following• homing• jogging• inching• teach functions• multi-axis interpolation• linear interpolation• ellipse interpolation• helical interpolation• software limit switches• G-Code• Cartesian Robot• Delta Robot• online edit• x-y trend view
Includes	I/O terminal blocks
Additional Information	Optional XEL-BSSCT bus coupler for I/O expansion with XGB modules
Dangerous Goods	<ul style="list-style-type: none">• Battery Installed: Yes (not user replaceable)• Packaging Instructions: 970• UN Number: UN3091• Hazard Type: Lithium Batteries• Battery Type: Coin• Lithium Content: 0.01

Agency Approvals

UL Listed File #	E124950
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Yes (See CE Doc)
EU REACH	View EU REACH document

Dimensional Drawings



2D Drawing PDF Link:
<https://cdn.automationdirect.com/static/drawings/2d/XMC-E16A-DC.pdf>
See store item page for other formats.