



Main

Range of Product	Modicon LMC058
Product or Component Type	Motion controller
Product specific application	-
Discrete I/O number	42
Battery type	3 V CR2477M lithium

Complementary

Discrete input number	10 fast input 12 input 4 regular input
Discrete input logic	Sink fast input Sink regular input Source input
Discrete input voltage	24 V
Discrete input voltage type	DC
Voltage state 1 guaranteed	>= 15 V fast input >= 15 V fast output >= 15 V regular input
Voltage state 0 guaranteed	<= 5 V fast input <= 5 V fast output <= 5 V regular input
Discrete input current	4 mA fast input 4 mA regular input
Input impedance	6 kOhm fast input 6 kOhm regular input
Configurable filtering time	0 ms fast input/regular input and fast output 1.5 ms fast input/regular input and fast output 12 ms fast input/regular input and fast output 4 ms fast input/regular input and fast output
Anti bounce filtering	2 μs...4 ms configurable fast input/regular input and fast output
Maximum cable distance between devices	<98.43 ft (30 m) fast input
Insulation	Between channels and internal logic 500 V AC Non-insulated between channels
Discrete output number	12 output 4 fast output
Discrete output logic	Source
Discrete output voltage	24 V DC
Output voltage limits	19.2...28.8 V
Discrete output current	4 mA fast output
[Us] rated supply voltage	24 V DC embedded expert modules power
Supply voltage limits	20.4...28.8 V
Line Rated Current	0.04 A embedded expert modules power 0.28 A main supply 10 A I/O power segment
Peak current	25 kA <= 500 s) I/O power segment 50 kA <= 150 s) embedded expert modules power 1.2 A > 70 s) main supply 100 kA <= 70 s) main supply

Power Consumption in W	13.03 W
Execution time per instruction	22 ns Boolean
Memory Type	128 MB flash 64 MB RAM
Realtime clock	Without any user calibration < 30 s/month 77 °F (25 °C) With user calibration <= 6 s/month
Data backed up	Battery variables of type retain and retain persistent
Battery life	1.5 year(s)
Integrated connection type	1 isolated serial link female RJ45 Modbus master/slave RTU/ASCII or character mode ASCII RS232/RS485 300...115200 bps 1 CAN port male SUB-D 9 CANmotion bus or CANopen master 1 CAN port male SUB-D 9 CANopen master 1 encoder female SUB-D 15 1 isolated serial link female RJ45 Ethernet Modbus TCP/IP slave 10BASE-T/100BASE-TX 1 isolated serial link mini B USB 480 Mbit/s 1 isolated serial link USB type A 480 Mbit/s
Transmission rate	10 kbit/s 16404.20 ft (5000 m) CANopen 1000 kbit/s 13.12 ft (4 m) CANopen 125 kbit/s 1640.42 ft (500 m) CANopen 20 kbit/s 8202.10 ft (2500 m) CANopen 250 kbit/s 820.21 ft (250 m) CANopen 50 kbit/s 3280.84 ft (1000 m) CANopen 500 kbit/s 328.08 ft (100 m) CANopen 800 kbit/s 82.02 ft (25 m) CANopen
Counting input number	8 200 kHz
Local signalling	1 LED CAN0 STS 1 LED green/red CAN1 STS 1 LED green/yellow MBS COM 1 LED per channel APP0 1 LED red APP1
Marking	CE
Mounting Support	Symmetrical DIN rail
Width	6.89 in (175 mm)
Height	3.90 in (99 mm)
Depth	3.35 in (85 mm)
Net Weight	1.21 lb(US) (0.55 kg)

Environment

Standards	CSA C22.2 No 142 CSA C22.2 No 213 UL 508 IEC 61131-2
Product certifications	C-tick CULus CSA GOST-R
Ambient air temperature for operation	32...131 °F (0...55 °C) without derating horizontal installation) 32...140 °F (0...60 °C) with derating factor horizontal installation) 32...122 °F (0...50 °C) vertical installation)
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation
IP degree of protection	IP20IEC 61131-2
Pollution degree	2 IEC 60664
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 ft (0...3000 m)
Vibration resistance	1 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 Hz DIN rail
Shock resistance	15 gn 11 ms

Electromagnetic compatibility	Electrostatic discharge immunity test 8 kV on contact) EN/IEC 61000-4-2 Electrostatic discharge immunity test 4 kV on air) EN/IEC 61000-4-2 Susceptibility to electromagnetic fields 1 V/m 2...2.7 GHz) EN/IEC 61000-4-3 Susceptibility to electromagnetic fields 10 V/m 80...2000 MHz) EN/IEC 61000-4-3 Electrical fast transient/burst immunity test 1 kV I/O) EN/IEC 61000-4-4 Electrical fast transient/burst immunity test 1 kV shielded cable) EN/IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV power lines) EN/IEC 61000-4-4 Surge immunity test 0.5 kV differential mode) EN/IEC 61000-4-5 Surge immunity test 1 kV common mode) EN/IEC 61000-4-5 Conducted RF disturbances EN/IEC 61000-4-6 Conducted and radiated emissions CISPR 11
Disturbance radiated/conducted	CISPR 11

Ordering and shipping details

Category	18352-NON PACDRIVE MOTION CONTROLLER
Discount Schedule	PC52
GTIN	3595864110707
Nbr. of units in pkg.	1
Package weight(Lbs)	27.97 oz (793.0 g)
Returnability	Yes
Country of origin	AT

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.12 in (13 cm)
Package 1 width	6.10 in (15.5 cm)
Package 1 Length	12.20 in (31 cm)
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Weight	10.52 lb(US) (4.77 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)

Offer Sustainability

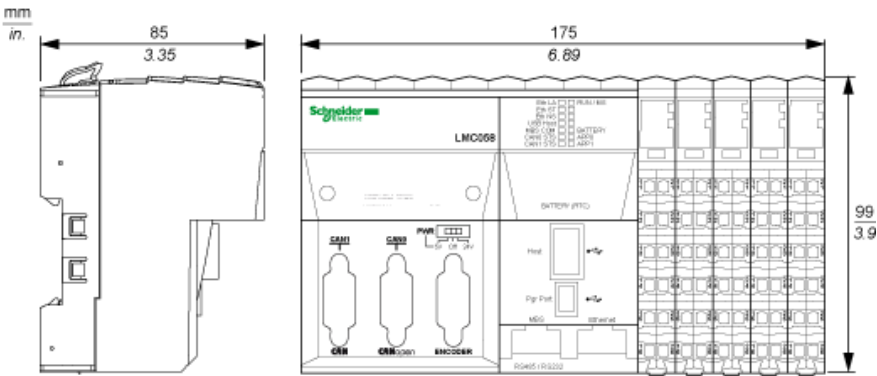
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Contractual warranty

Warranty	18 months
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Controller

Dimensions



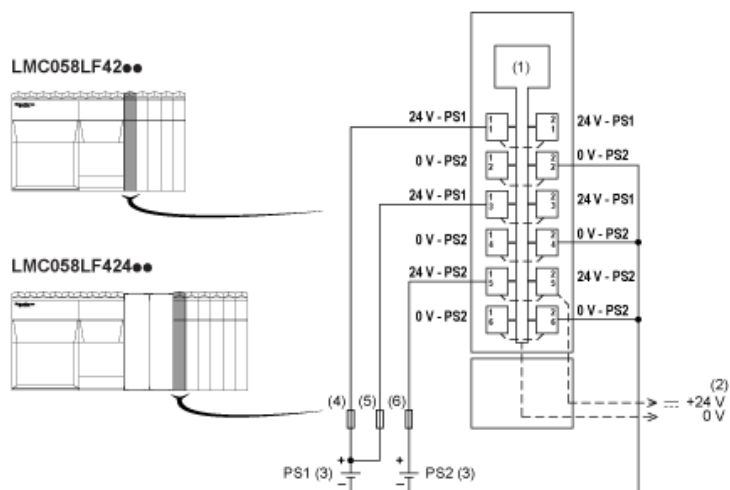
TM5 System Wiring Recommendations

Wire Sizes to Use with Removable Spring Terminal Blocks

mm in.				
mm ²	0,08...2,5	0,25...2,5	0,25...1,5	2 x 0,25...2 x 0,75
AWG	28...14	24...14	24...16	2 x 24...2 x 18

External Power Supplies

Wiring Diagram of the Controller Power Distribution Module



- (1) Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- (3) PS1/PS2: External isolated SELV power supply 24 Vdc
- (4) External fuse, Type T slow-blow, 3 A 250 V
- (5) External fuse, Type T slow-blow, 2 A 250 V
- (6) External fuse, Type T slow-blow, 10 A max., 250 V