



## 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 battery

## 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	$\geq 15$ V fast input $\geq 15$ V fast output $\geq 15$ V regular input
Voltage state 0 guaranteed	$\leq 5$ V fast input $\leq 5$ V fast output $\leq 5$ 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 $\mu$ s...4 ms configurable fast input/regular input and fast output
Max cable distance between devices	30 m[Space ]for fast input

Insulation	Between channels and internal logic at 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
[In] rated current	0.04 A embedded expert modules power 0.28 A main supply 10 A I/O power segment
Peak current	<= 25 kA (duration= <= 500 s) for I/O power segment <= 50 kA (duration= <= 150 s) for embedded expert modules power 1.2 A (duration= > 70 s) for main supply <= 100 kA (duration= <= 70 s) for main supply
Power consumption in W	<= 13.03 W
Execution time per instruction	22 ns : Boolean
Memory type	128 MB flash memory 64 MB RAM memory
Realtime clock	Without any user calibration < 30 s/month at 77 °F (25 °C) With user calibration <= 6 s/month
Data backed up	Variables of type retain and retain persistent with battery
Battery life	1.5 yr
Integrated connection type	1 CAN port with male SUB-D 9 connector; protocol: CANmotion bus or CANopen with master method 1 CAN port with male SUB-D 9 connector; protocol: CANopen with master method 1 encoder with female SUB-D 15 connector 1 isolated serial link with female RJ45 connector; protocol: Ethernet Modbus TCP/IP with slave method; physical interface: 10BASE-T/100BASE-TX 1 isolated serial link with female RJ45 connector; protocol: Modbus with master/slave method; transmission frame: RTU/ASCII or character mode ASCII; physical interface: RS232/RS485; transmission rate: 300...115200 bps 1 isolated serial link with mini B USB connector; transmission rate: 480 Mbit/s 1 isolated serial link with USB type A connector; transmission rate: 480 Mbit/s
Transmission rate	10 kbit/s with 16404.2 ft (5000 m) bus; protocol: CANopen 1000 kbit/s with 13.12 ft (4 m) bus; protocol: CANopen 125 kbit/s with 1640.42 ft (500 m) bus; protocol: CANopen 20 kbit/s with 8202.1 ft (2500 m) bus; protocol: CANopen 250 kbit/s with 820.21 ft (250 m) bus; protocol: CANopen 50 kbit/s with 3280.84 ft (1000 m) bus; protocol: CANopen 500 kbit/s with 328.08 ft (100 m) bus; protocol: CANopen 800 kbit/s with 82.02 ft (25 m) bus; protocol: CANopen
Counting input number	8 at 200 kHz
Local signalling	1 LED green/red CAN1 STS 1 LED green/yellow MBS COM 1 LED per channel APP0 1 LED red APP1 1 LED CAN0 STS
Marking	CE
Mounting support	Symmetrical DIN rail
Width	6.89 in (175 mm)
Height	3.9 in (99 mm)
Depth	3.35 in (85 mm)
Product weight	1.21 lb(US) (0.55 kg)

## Environment

Standards	IEC 61131-2 UL 508 CSA C22.2 No 142 CSA C22.2 No 213
Product certifications	C-Tick GOST-R

	cULus CSA
Ambient air temperature for operation	32...122 °F (0...50 °C) vertical installation 32...131 °F (0...55 °C) without horizontal installation 32...140 °F (0...60 °C) with horizontal installation
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0...9842.52 ft (0...3000 m)
Vibration resistance	1 gn at 8.4...150 Hz with DIN rail mounting 3.5 mm at 5...8.4 Hz with DIN rail mounting
Shock resistance	15 gn 11 ms
Electromagnetic compatibility	Conducted and radiated emissions conforming to CISPR 11 Conducted RF disturbances conforming to EN/IEC 61000-4-6 Electrostatic discharge immunity test (test level: 8 kV) - on contact conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test (test level: 4 kV) - on air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields (test level: 1 V/m) - 2...2.7 GHz conforming to EN/IEC 61000-4-3 Susceptibility to electromagnetic fields (test level: 10 V/m) - 80...2000 MHz conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test (test level: 1 kV) - I/O conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test (test level: 1 kV) - shielded cable conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test (test level: 2 kV) - power lines conforming to EN/IEC 61000-4-4 Surge immunity test (test level: 0.5 kV) - differential mode conforming to EN/IEC 61000-4-5 Surge immunity test (test level: 1 kV) - common mode conforming to EN/IEC 61000-4-5
Disturbance radiated/conducted	CISPR 11

## Ordering and shipping details

Category	18352 - NON PACDRIVE MOTION CONTROLLER
Discount Schedule	PC52
GTIN	00785901981718
Nbr. of units in pkg.	1
Package weight(Lbs)	1.75
Returnability	Y
Country of origin	AT

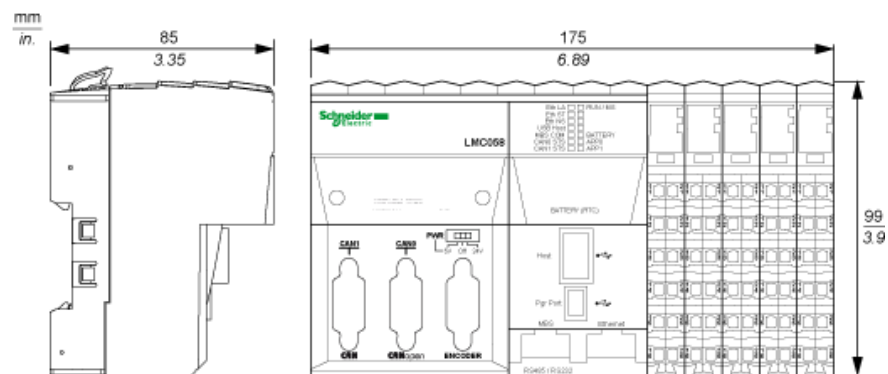
## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1039 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Available

## Contractual warranty






Warranty period	18 months
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## Dimensions



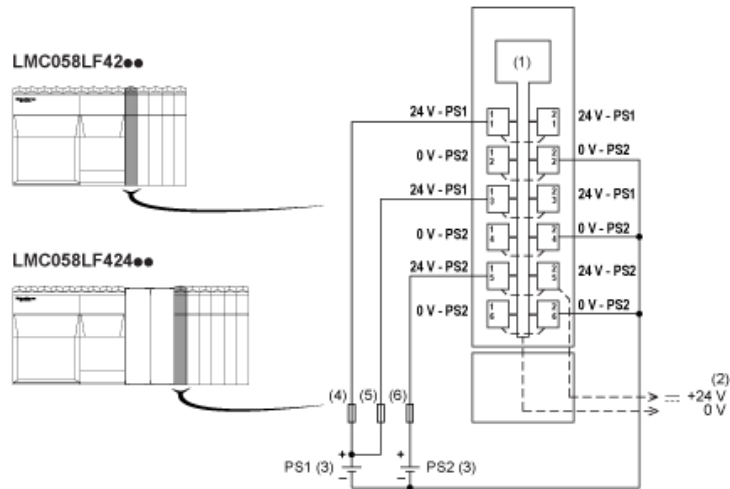
## TM5 System Wiring Recommendations

### Wire Sizes to Use with Removable Spring Terminal Blocks

				
mm <sup>2</sup>	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