Product data sheet Characteristics

TM258LF42DT

Logic controller, Modicon M258, compact base 42 I/O, 24 V DC, CANopen





Main	
Range of product	Modicon M258
Product or component type	Logic controller
Product specific application	-
Discrete I/O number	42
Discrete output number	12 output 4 fast output

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COIL		1161	ıtaı v

Discrete input number	10 for fast input
,	12 for input
	4 for regular input
Discrete input logic	Sink for fast input
	Sink for regular input
	Source for input
Discrete input voltage	24 V
Discrete input voltage type	DC
Voltage state 1 guaranteed	>= 15 V for fast input
	>= 15 V for fast output
	>= 15 V for regular input
Voltage state 0 guaranteed	<= 5 V for fast input
	<= 5 V for fast output <= 5 V for regular input
Discrete in a second	
Discrete input current	4 MA for fast input 4 mA for regular input
Input impedance	6 kOhm for fast input
input impedance	6 kOhm for regular input
Configurable filtering time	0 ms for fast input/regular input and fast output
Configurable intering time	1.5 ms for fast input/regular input and fast output
	12 ms for fast input/regular input and fast output
	4 ms for fast input/regular input and fast output
Anti bounce filtering	2 μs4 ms configurable fast input/regular input and fast output
Maximum cable distance between devices	<30 M for fast input
	<30 M for fast output
	<30 m for regular input
Isolation between channels and internal logic	500 Vrms AC
Isolation between channels	None
Discrete output logic	Source
Discrete output voltage	24 V DC
Output voltage limits	19.228.8 V
Discrete output current	4 mA for fast output
[Us] rated supply voltage	24 V DC for embedded expert modules power
	24 V DC for I/O power segment
	24 V DC for main supply
Supply voltage limits	20.428.8 V
[In] rated current	0.04 A for embedded expert modules power
	10 A for I/O power segment
	0.26 A for main supply

for main supply for I/O power segment for embedded expert modules power main supply		
22 ns Boolean		
clock, clock drift < 30 s/month at 25 °C clock drift <= 6 s/month		
retain persistent CR2477M Renata, 1.5 years		
nale RJ45 connectorModbus with master/slave RTU/ICII, physical interface: RS232/RS485, transmission nale RJ45 connectorEthernet Modbus TCP/IP with BASE-T/100BASE-TX is B USB connector, transmission rate: 480 Mbit/s B type A connector, transmission rate: 480 Mbit/s D 9 connectorCANopen with master		
00 m for CANopen 50 m for CANopen 00 m for CANopen 00 m for CANopen 00 m for CANopen 4 m for CANopen 00 m for CANopen 00 m for CANopen 5 m for CANopen		
łz		
(Ethernet network status) (Ethernet status) S (module status) st .A (Ethernet activity) status)		
orizontal installation) r (horizontal installation) n)		
on		
31-2		
rail rail		

Resistance to electrostatic discharge	4 KV on contact conforming to EN/IEC 61000-4-2 8 kV in air conforming to EN/IEC 61000-4-2		
Resistance to electromagnetic fields	1 V/M 22.7 GHz conforming to EN/IEC 61000-4-3 10 V/m 802000 MHz conforming to EN/IEC 61000-4-3		
Resistance to fast transients	1 KV (I/O) conforming to EN/IEC 61000-4-4 1 KV (shielded cable) conforming to EN/IEC 61000-4-4 2 kV (power lines) conforming to EN/IEC 61000-4-4		
Surge withstand	0.5 KV differential mode conforming to EN/IEC 61000-4-5 1 kV common mode conforming to EN/IEC 61000-4-5		
Disturbance radiated/conducted	CISPR 11		

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	778 g	
Package 1 Height	13.5 cm	
Package 1 width	15.6 cm	
Package 1 Length	31 cm	

Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	☐REACh Declaration		
REACh free of SVHC	Yes		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV 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

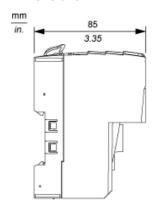
Contraction Warranty			
Warranty	18 months		

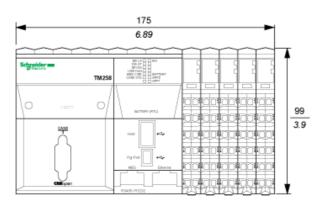
Product data sheet Dimensions Drawings

TM258LF42DT

Controller

Dimensions





TM258LF42DT

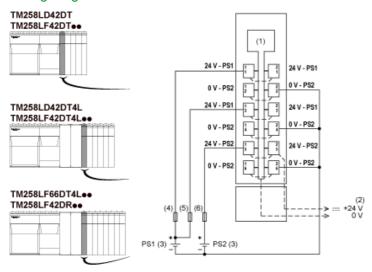
TM5 System Wiring Recommendations

Wire Sizes to Use with Removable Spring Terminal Blocks

	mm in.	0.35		1		
		mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
Γ		AWG	2814	24 14	2416	2 x 242 x 18

External Power Supplies

Wiring Diagram of the Controller Power Distribution Module



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