



MAC00-FP4

Profibus, M12 conn., IP67

MAC00 modules are control- and -interface modules for the MAC motor® series of integrated (all-in-one) servo motors with shaft power from 46 W to 4500 W.

Choose between a wide range of control modules

- Ethernet modules support all protocols: Profinet, EtherNet/IP, EtherCAT, SERCOS, Powerlink and ModbusTCP/UDP
- Ethernet modules have built-in Switch for easy daisy-chaining of cables from motor-to-motor
- Wireless modules: WLAN or BlueTooth
- CANopen, Devicenet or Profibus or ePLC modules
- Serial communication modules, RS232 and/or RS485

Unique Ethernet functionality: use MacTalk® (PC software) to change freely between all the different Ethernet protocols, you don t need several different types on stock ONE is enough.



General information

Description	Profibus, M12 conn., IP67, Profibus, M12 conn., IP67		
Manufacture	JVL	For motor type	MAC
Color	Black	Protection house	IP67
Software	MacTalk	Interface	RS232
Connectivity - Busses	Profibus		
Control voltage (CVI/O+) [V]	12-28	Main supply [V]	12-48
Expansion connector	Generation 1		
Integrated PLC	No	PLC no. of DI	0-3 See module
PLC no. of AIN	0-1 See module	PLC no. of DO	0-2 See module
Multifunction IOs		PLC no. of DIO	n/a



MAC00-FP4

Profibus, M12 conn., IP67

Mechanical information

Customer Sealing

Datasheet - pdf

Id0094gb.pdf



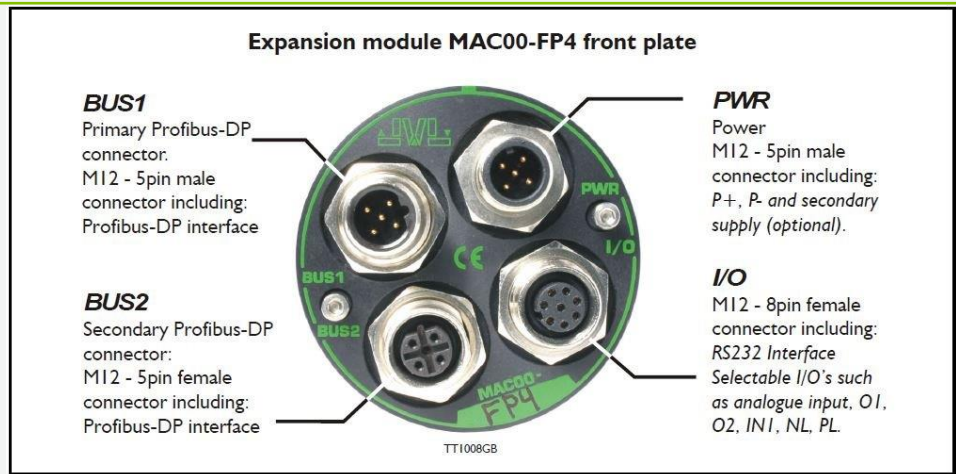
MAC00-FP4

Profibus, M12 conn., IP67

Connector information

Expansion connector Generation 1

Picture connectors



Connector 1 label	PWR	Connector 1	M12 5-pin male A-coded
Connector 2 label	IO	Connector 2	M12 8-pin female A-coded
Connector 3 label	BUS2	Connector 3	M12 5-pin female B-coded Profibus
Connector 4 label	BUS1	Connector 4	M12 5-pin male B-coded Profibus
Connector 2 RS232	Yes	Connector 2 RS485	n/a
Connector 3 RS232	n/a	Connector 3 RS485	n/a
Connector 4 RS232	n/a	Connector 4 RS485	n/a

Picture CN1

"PWR" - Power input. M12 - 5-pin male connector				
Signal name	Description	Pin no.	JVL Cable W11000M12 F5T05N	Isolation group
P+	Main supply +12-48VDC. Connect with pin 2 *	1	Brown	1
P+	Main supply +12-48VDC. Connect with pin 1 *	2	White	1
P-	Main supply ground. Connect with pin 5 *	3	Blue	1
CV	Control voltage +12-48VDC.	4	Black	1
P-	Main supply ground. Connect with pin 3 *	5	Grey	1

* Note: P+ and P- are each available at 2 terminals. Make sure that both terminals are connected in order to split the supply current in 2 terminals and thereby avoid an overload of the connector.

Picture CN2

"IO" - I/Os and RS232 interface. M12 - 8-pin female connector.					
Signal name	Description	Function	Pin no.	JVL Cable W11000-M12 M8T05N	Isolation group
IOC	I/O terminal C.	DIP 5 = OFF : PL input DIP 5 = ON (default) O1 (output PNP 25mA)	1	White	3
Tx	RS232 interface - transmit output	Important ! DIP1 must be turned ON. If addressing is used it must be turned ON at minimum one of the connected motors.	2	Brown	1
Rx	RS232 interface - receive input		3	Green	1
GND	RS232 Ground - also used with analogue input		4	Yellow	1
IOA	I/O terminal A.	DIP 2 = ON (default) and DIP 3 = OFF (default): AIN (Analogue In or Zero search Input) DIP2 = OFF and DIP 3 = ON : O2 (output 2 I PNP 25mA)	5	Grey	3 (1 when used as AIN)
IOB	I/O terminal B.	DIP 4 = OFF (default): IN1 (input 1) DIP 4 = ON : O1 (PNP 25mA) (output 1)	6	Pink	3
IO-	I/O ground to be used with IN1, NL, PL, O1, O2		7	Blue	3
IOD	I/O terminal D.	DIP 6 = OFF: NL (negative limit input) DIP 6 = ON (default): C+ (outp. sup.)	8	Red	3



MAC00-FP4

Profibus, M12 conn., IP67

Connector information

Picture CN3

"BUS2" - Profibus-DP Interface. M12 - 5-pin female connector				
Signal name	Description	Pin no.	Cable: user supplied	Isolation group
5VDC	5V output. Can be used for ext. termination (Max 40mA)	1	-	2
A-	Terminal A (Siemens syntax) for the Profibus interface	2	-	2
DGND	Profibus-DP interface ground	3	-	2
B+	Terminal B (Siemens syntax) for the Profibus interface.	4	-	2
SHIELD	Cable shield. Internally connected to the motor housing.	5	-	2

Picture CN4

"BUS1" - Profibus-DP interface. M12 - 5-pin male connector				
Signal name	Description	Pin no.	Cable: user supplied	Isolation group
-	Reserved for future purpose - do not connect	1	-	2
A-	Terminal A (Siemens syntax) for the Profibus-DP interface	2	-	2
DGND	Profibus-DP interface ground	3	-	2
B+	Terminal A (Siemens syntax) for the Profibus-DP interface	4	-	2
SHIELD	Cable shield. Internally conn. to the motor housing.	5	-	2



MAC00-FP4

Profibus, M12 conn., IP67

Electrical information

Control voltage (CVI/O+) [V]	12-28	Control Voltage (CVI) Min-Max [V]	
Max current CVI [A]			
Main supply [V]	12-48	Main supply Min-Max [V]	10-50
Max current (P+) [A]		P- isolated from Earth	
		PLC no. of DI	0-3 See module
Dig. Input impedans	10kohm	PLC no. of DO	0-2 See module
PLC DO max current [mA]	25mA - PNP	PLC no. of DIO	n/a
		PLC no. of AIN	0-1 See module
PLC AIN voltage [VDC]	-10 to +10	PLC AIN Min-Max [VDC]	-10 to +32
PLC AIN Max Tol. [%]	5.0	Multifunction IOs	
PLC MF low level [VDC]		PLC MF high level [VDC]	
PLC MF Max level [VDC]		MTBF 30% [Year]	
MTBF 100% [Year]			