

InteliLite AMF20



Order code: IL3AMF20BAA Controller for single gen-set applications

Datasheet

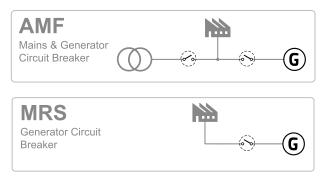
Product description

- Single gen-set controller for Stand-by and Primepower applications
- Direct communication with EFI engines
- Total remote monitoring and control

Key features

- Easy to install, configure and use
- Wide range of communication capabilities including:
 - connection via RS232, RS485, CAN and on board USB
 - internet access using Ethernet
 - support for Modbus protocol
- Internal PLC support with PLC editor and monitor included in LiteEdit
- Active SMS and emails in different languages
- 2x 10 A binary outputs for cranking and fuel solenoid
- Option for up to 8 additional binary inputs/outputs
- Flexible event based history with up to 350 events
- Tier 4 final support
- Comprehensive gen-set protections
- Multipurpose flexible timer
- True RMS measurement

Application overview





Technical data

Power supply

Power supply range	8-36 VDC
	394 mA / 8 VDC
Power consumption	255 mA / 12 VDC
	140 mA / 24 VDC
	97 mA / 36 VDC
	2 A (without BOUT
Fusing	consumption nor
	extension modules)
Max. Power Dissipation	3,5W

Operating conditions

Operating temperature	-20 °C to +70 ° C	
Storage temperature	-30 °C to +70 ° C	
Operating humidity	95 % w/o condensation	
Vibration	5-25 Hz, ± 1,6 mm	
	25-100 Hz, a = 4 g	
Shocks a = 500 m/s ²		
Surrounding air temperature rating 70°C.		
Suitable for pollution degree 3.		

Voltage measurement

Measurement inputs	3ph-n Gen voltage
	3ph-n Mains
Measurement range	277 V
Max. allowed voltage	350 V
Accuracy	1 %
Frequency range	40-70 Hz (accuracy 0.1 Hz)
Input impedance	0,72 MΩph-ph
	0,36 MΩph-n

Current measurement

Measurement inputs	3ph Gen current
Measurement range	5 A
Max. allowed current	10 A
Accuracy	1,5 % for full temperature range (1 % from 0 $^\circ\text{C}$ to 50 $^\circ\text{C}$)
Input impedance	< 0,1 Ω

Binary inputs

7, non-isolated
0-2 VDC close contact
>6 VDC open contact

Binary outputs

Number	2 high current output, non-isolated 5 low current output, non-isolated
Max. current	10 A for 10 s, 4 A long term 0,5 A
Switching to	positive supply terminal

Analog inputs

Number	3 non-isolated
Туре	Resistive
Resolution	0,1 Ω
Range	0-2500 Ω
Input impedance	800 Ω
Accuracy	±2 % from range in range 0-2500 Ω
	$\pm 1,5$ k Ω in range 2,5-15 k Ω

Magnetic pick-up

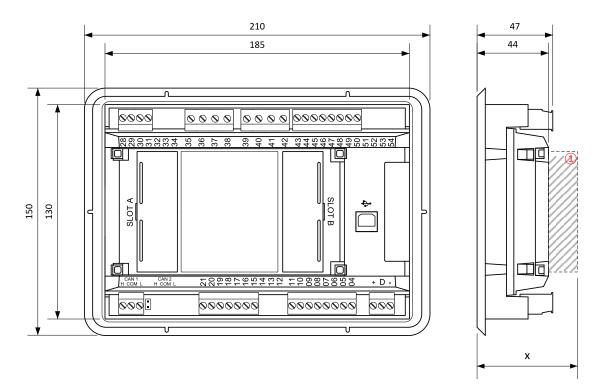
Voltage input range	4 Vpk-pk to 50 Vpk-pk in range 4 Hz to 1 kHz
	6 Vpk-pk to 50 Vpk-pk in range 1 kHz to 5 kHz
	10 Vpk-pk to 50 Vpk-pk in range 5 kHz to 10 kHz
Frequency input range	4 Hz to 10 kHz
Frequency measurement tolerance	0,2 % from range 10 kHz

Communications

USB port	Non-isolated
CAN 1	CAN bus, 250 kbps, max 200 m, 120 Ω termination option
	non-isolated

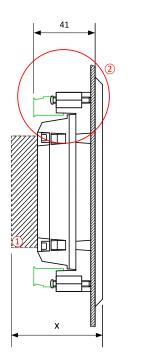
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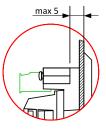
Dimensions, terminals and mounting



Note: Dimension x depends on extension module.

Panel door mounting





Overview of parameter x

Plug-in module	Parameter x [mm]
CM-RS232-485	105@RS232/62@RS485
CM-Ethernet	95
USB	85
CM-GPRS	Depends on connector of antenna
EM-BIO8	62
CM-4G-GPS	Depends on connector of antenna

Note: The controller is to be mounted into panel doors as a standalone unit using provided metal holders. The requested cut-out size is 187x132 mm. Use the screw holders delivered with the controller to fix the controller into the door.



Available extension modules

Product	Description	Order code
CM-4G-GPS	GSM modem / 4G wireless internet and GPS locator	CM14GGPSXBX
CM-Ethernet	Ethernet interface	CM2ETHERXBX
CM-GPRS	GSM modem / GPRS wireless internet	CM2GPRSXXBX
CM-RS232-485	Dual port interface	CM223248XBX
EM-BIO8-EFCP	8 additional binary inputs/outputs	EM2BIO8EXBX

Functions and protections

The described product fully supports the following functions and protections as defined by ANSI (American National Standards Institute):

Description	ANSI code	Description	ANSI code
Over voltage	59	Load shedding	32P
Under voltage	27	Overload	32
Voltage asymmetry and Phase rotation**	47	Power factor	55
Over frequency	81H	Temperature	49T
Under frequency	81L	Gas (fuel) level	71
Over current*	50 + 51		

* Short current only

Certificates and standards

- **EN61000-6-2**
- **EN 61000-6-4**
- **EN61010-1**
- EN 61000-2-1 (-20 °C/16 h for std version)
- EN 61000-2-2 (70 °C/16 h)
- EN 61000-2-6 (2÷25 Hz / ±1,6 mm; 25÷100 Hz / 4,0 g)
- EN 61000-2-27 (a=500 m/s²; T=6 ms)
- **EN 61000-2-30**
- EN 60529 (front panel IP65, back side IP20)

** Fixed setting





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