

## InteliLite AMF25



Order code: IL3AMF25BAA

# Datasheet

## Product description

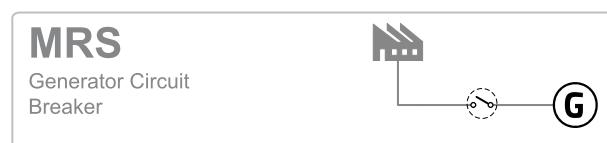
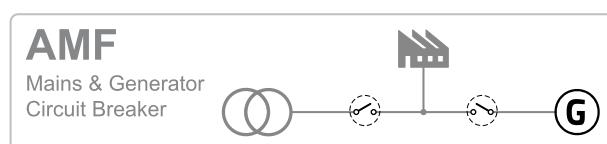
- ▶ Single gen-set controller for Stand-by and Prime-power applications
- ▶ Direct communication with EFI engines
- ▶ Total remote monitoring and control

## Key features

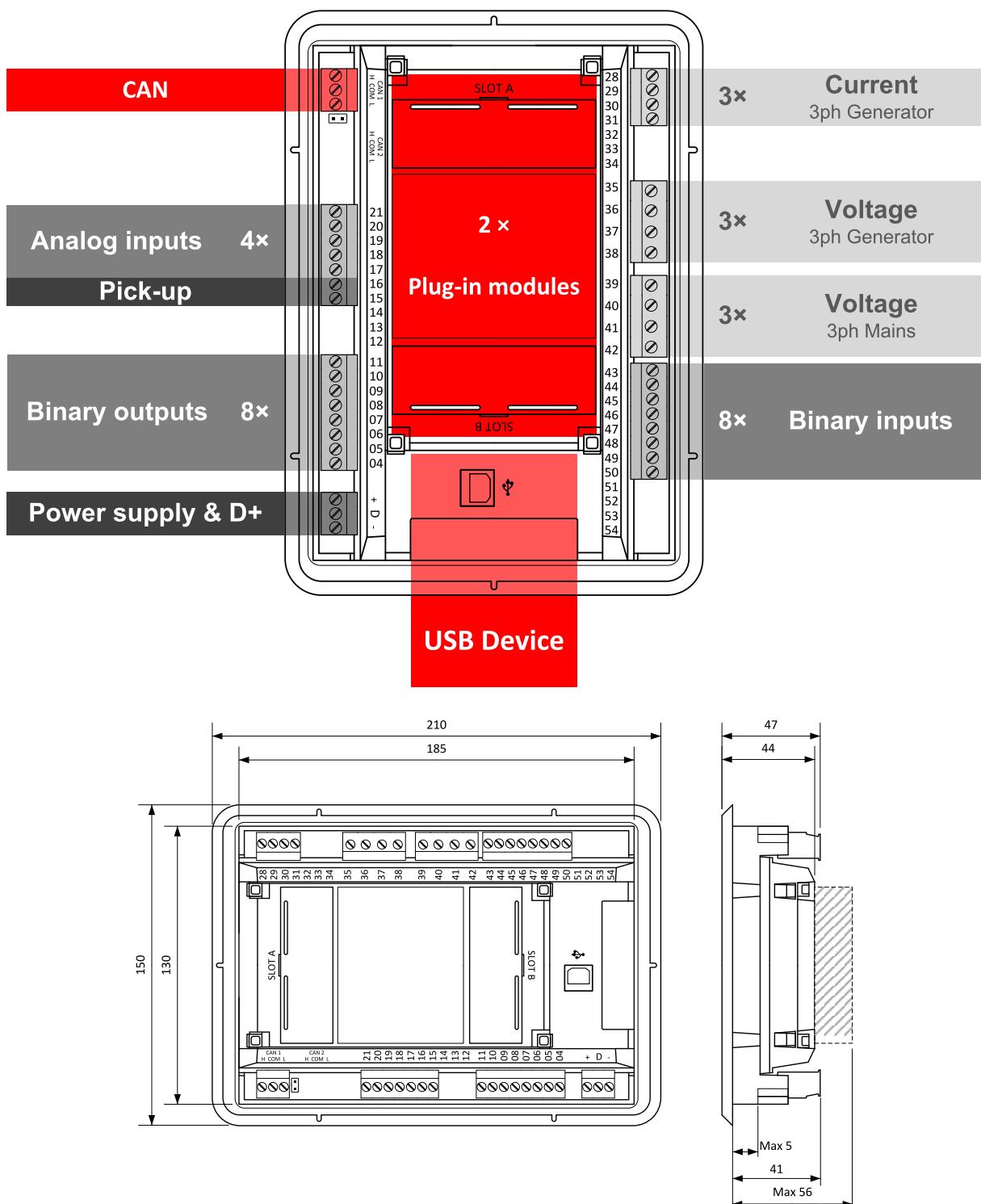
- ▶ 5 languages in the controller & translator functionality
- ▶ 3 levels of password
- ▶ 3 sets of alternative configurations
- ▶ Magnetic pickup
- ▶ ECU support & Tier 4 Final ready
- ▶ Cloud-based monitoring and control via WebSupervisor
- ▶ Geofencing and tracking via WebSupervisor
- ▶ Plug-in module concept for more capabilities (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os)
- ▶ 2 slots for plug-in modules
- ▶ CAN modules support
- ▶ Power over USB for controller's adjustment
- ▶ In-built PLC, complemented with a monitoring/debugging tool

- ▶ 8 binary outputs, 8 binary inputs, 4 analog inputs
- ▶ 2 high-current binary outputs
- ▶ Run Hours source selector
- ▶ Activation of outputs based on inputs/power/temperature
- ▶ Real time clock
- ▶ Multipurpose flexible timers (also for rental)
- ▶ Comprehensive history log with up to 350 events
- ▶ 3 maintenance timers (counting even under zero)
- ▶ Possibility to disable protections
- ▶ Modbus register mapping possibility
- ▶ Adjustable Main Screen
- ▶ A version for low temperature is also available

## Application overview



## Dimensions, terminals and mounting



**Note:** The final depth of the controller depends on the selected plug-in module - it can vary between 41 mm and 56 mm. Mind also the size of connectors and cables (e.g. in case of RS232 connector, add about 60 mm more for standard RS232 connector and cable).

**Note:** The controller is to be mounted into panel doors as a standalone unit using provided metal holders. The requested cut-out size is 187 x 132 mm. Use the screw holders delivered with the controller to fix the controller into the door.

## Technical data

### Power supply

<b>Power supply range</b>	8-36 VDC
<b>Power consumption</b>	394 mA / 8 VDC 255 mA / 12 VDC 140 mA / 24 VDC 97 mA / 36 VDC
<b>RTC battery</b>	Replaceable
<b>Fusing</b>	Power terminal max. 3 A E-Stop max. 12 A
<b>Fusing E-Stop</b>	12 A
<b>Max. Power Dissipation</b>	3.5 W

### D+ terminal

<b>Max. output current</b>	250 mA / 36 V
<b>Charging fail threshold</b>	Adjustable

### Operating conditions

<b>Operating temperature</b>	-20 °C to +70 °C
<b>Operating temperature for Low Temp. version</b>	-40 °C to +70 °C
<b>Storage temperature</b>	-30 °C to +80 °C
<b>Protection degree (front panel)</b>	IP 65
<b>Operating humidity</b>	95 % w/o condensation
<b>Vibration</b>	5-25 Hz, ± 1.6 mm 25-100 Hz, a = 4 g
<b>Shocks</b>	a = 500 m/s <sup>2</sup>
Surrounding air temperature rating 70°C	
Suitable for pollution degree 3	

### Voltage measurement

<b>Measurement inputs</b>	3ph-n Gen voltage , 3ph-n Mains
<b>Measurement range</b>	277 V / 480 V AC (EU) 346 V / 600 V AC (US/Canada)
<b>Linear measurement and protection range</b>	381 V / 660 V
<b>Accuracy</b>	1 %
<b>Frequency range</b>	40-70 Hz (accuracy 0.1 Hz)
<b>Input impedance</b>	0.72 MΩ ph-ph , 0.36 MΩ ph-n

### Current measurement

<b>Measurement inputs</b>	3ph Gen current
<b>Measurement range</b>	5 A
<b>Max. allowed current</b>	10 A
<b>Accuracy</b>	1.5 % for full temperature range (1 % from 0 °C to 50 °C)
<b>Input impedance</b>	< 0.1 Ω

### Binary inputs

<b>Number</b>	8, non-isolated
<b>Close/Open indication</b>	0-2 VDC close contact 6-36 VDC open contact

### Binary outputs

<b>Low current</b>	6 low current output, non-isolated 0.5 A switching to positive supply voltage, BATT+
<b>High current</b>	2 high current output, non-isolated 5 A (60 °C), 4 A (70 °C) switching to positive supply voltage, BATT+

### Analog inputs

<b>Number</b>	4, non-isolated
<b>Type</b>	Resistive
<b>Resolution</b>	0.1 Ω
<b>Range</b>	0-2500 Ω
<b>Input impedance</b>	170 Ω
<b>Accuracy</b>	±2 % from value in range 0-2500 Ω ±1.5 kΩ in range 2.5-15 kΩ

### Magnetic pickup

<b>Voltage input range</b>	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
<b>Frequency input range</b>	4 Hz to 10 kHz
<b>Frequency measurement tolerance</b>	0.2 % from range 10 kHz

### Communications

<b>USB port</b>	non-isolated
<b>CAN 1</b>	CAN bus, 250 kbps, max 200 m, 120 Ω termination option, non-isolated

## Available plug-in modules

Product	Description	Order code
CM-4G-GPS	GSM modem / 4G wireless internet and GPS locator	CM14GGPSXBX
CM-Ethernet	Ethernet interface	CM2ETHERBX
CM-GPRS	GSM modem / GPRS wireless internet	CM2GPRSBXB
CM-RS232-485	Dual port interface	CM223248XBX
EM-BIO8-EFCP	8 additional binary inputs/outputs; current measurement	EM2BIO8EXBX

**Note:** Controller has 2 slots for plug-in modules

## Available CAN modules

Product	Description	Order code
IGL-RA15	CAN remote annunciator with 15 LEDs	EM2IGLRABAA
Inteli AIN 8	CAN module with 8 analog inputs	I-AIN8
Inteli IO8/8	CAN module with 8 binary inputs and 8 binary outputs	I-IO8/8
IGS-PTM	CAN module with 8 binary inputs, 8 binary outputs, 4 analog inputs and 1 analog output	IGS-PTM
Inteli AIN8TC	CAN module with 8 analog inputs dedicated for thermocouple sensors only.	I-AIN8TC
Inteli AIO9/1	CAN module with analog inputs and outputs – designed for DC measurement.	I-AIO9/1

## 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	Earth fault current	50N + 64
Current unbalance	46		

\* Short current only

\*\* Fixed setting

- ▶ EN 61000-6-2
- ▶ EN 61000-6-4
- ▶ EN 61010-1
- ▶ EN 60068-2-1 (-20 °C/16 h for std, -40 °C/16 h for LT version)
- ▶ EN 60068-2-2 (70 °C/16 h)
- ▶ EN 60068-2-6 (2÷25 Hz / ±1,6 mm; 25÷100 Hz / 4,0 g)
- ▶ EN 60068-2-27 (a=500 m/s<sup>2</sup>; T=6 ms)
- ▶ EN 60068-2-30:2005 25/55°C, RH 95%, 48hours
- ▶ EN 60529 (front panel IP65, back side IP20)

