

A	FIRST RELEASE	19/05/2019	DB		
REVISION	MODIFICATION	DATE	DRAWN	CHECKED	APPROVED



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DRAWN: DB

CHECKED: MM

DATE: 17/03/2022

## CRE TECHNOLOGY

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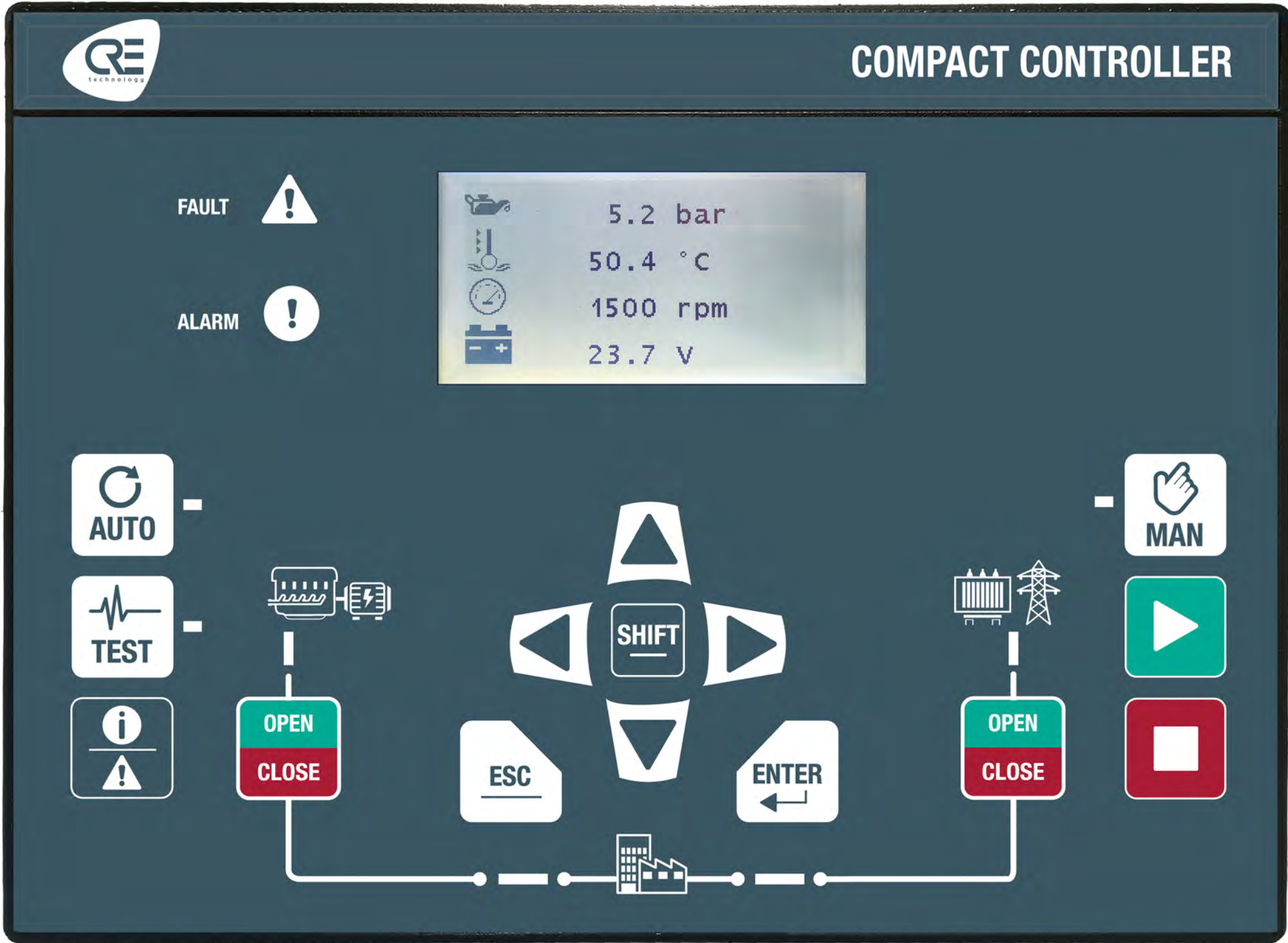
## STANDARD WIRING SCHEMATICS

### AMF COMPACT HMI / CORE

DRAWING N°: A56-AMF-00 / 10 - DWG - 001

01/18





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AMF COMPACT HMI / CORE  
STANDARD WIRING SCHEMATICS

Module Front view

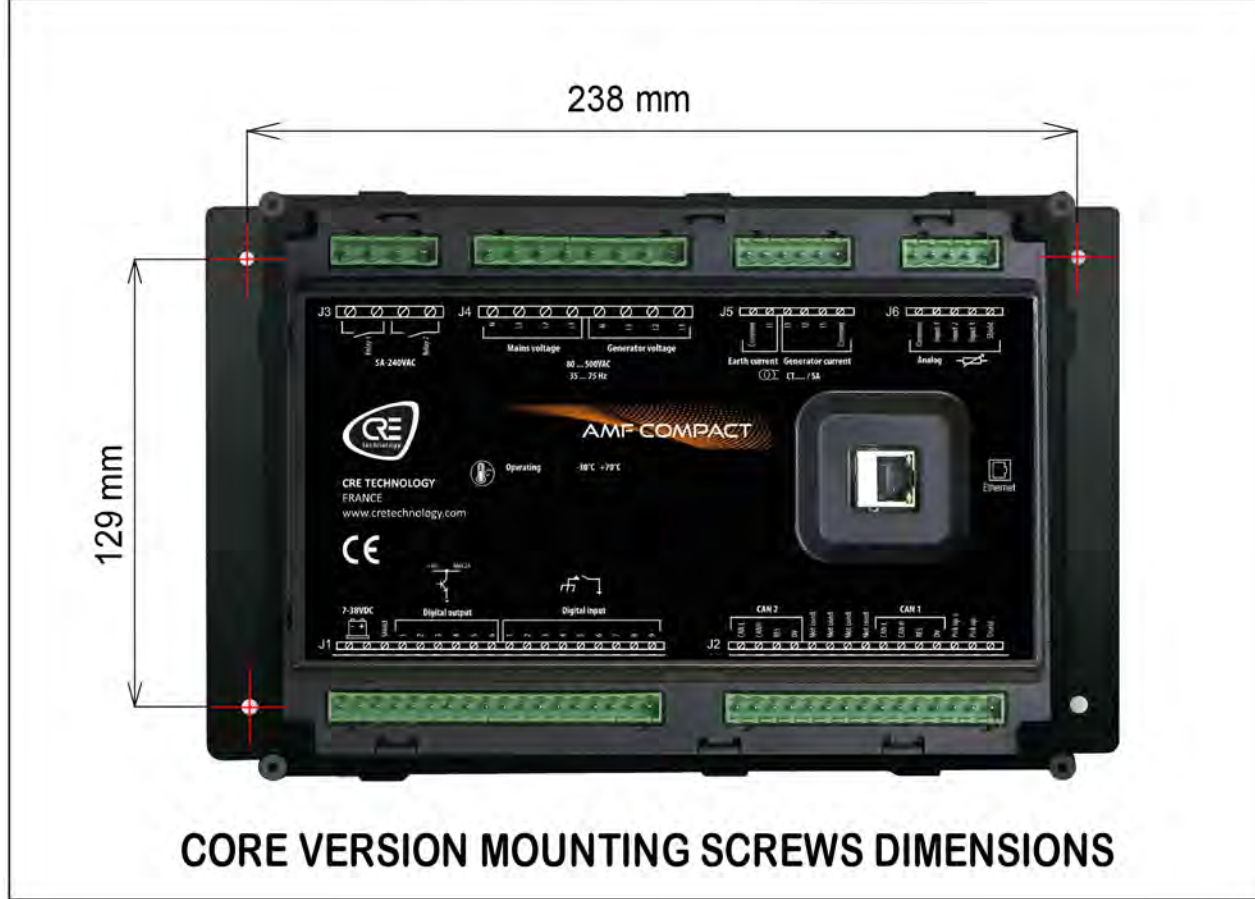
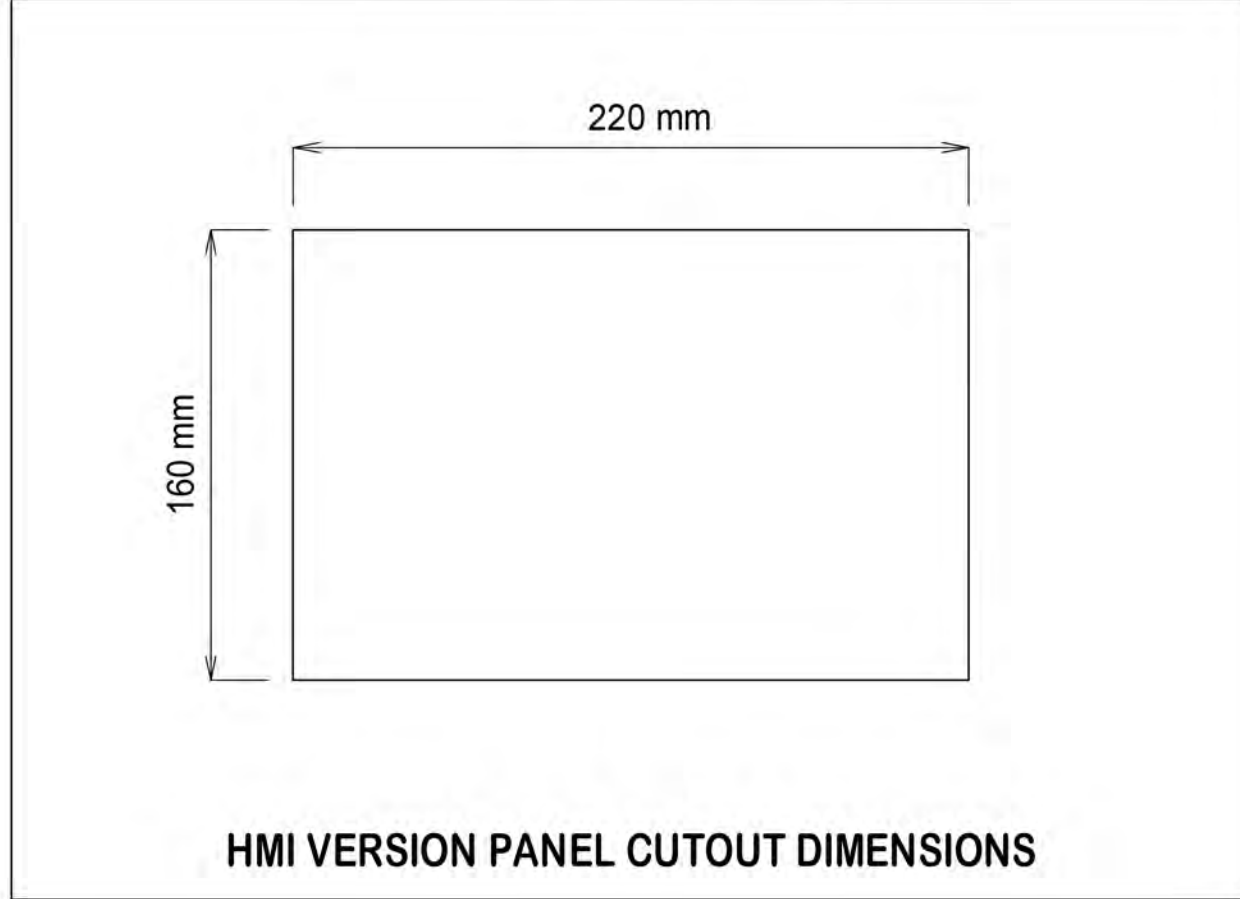
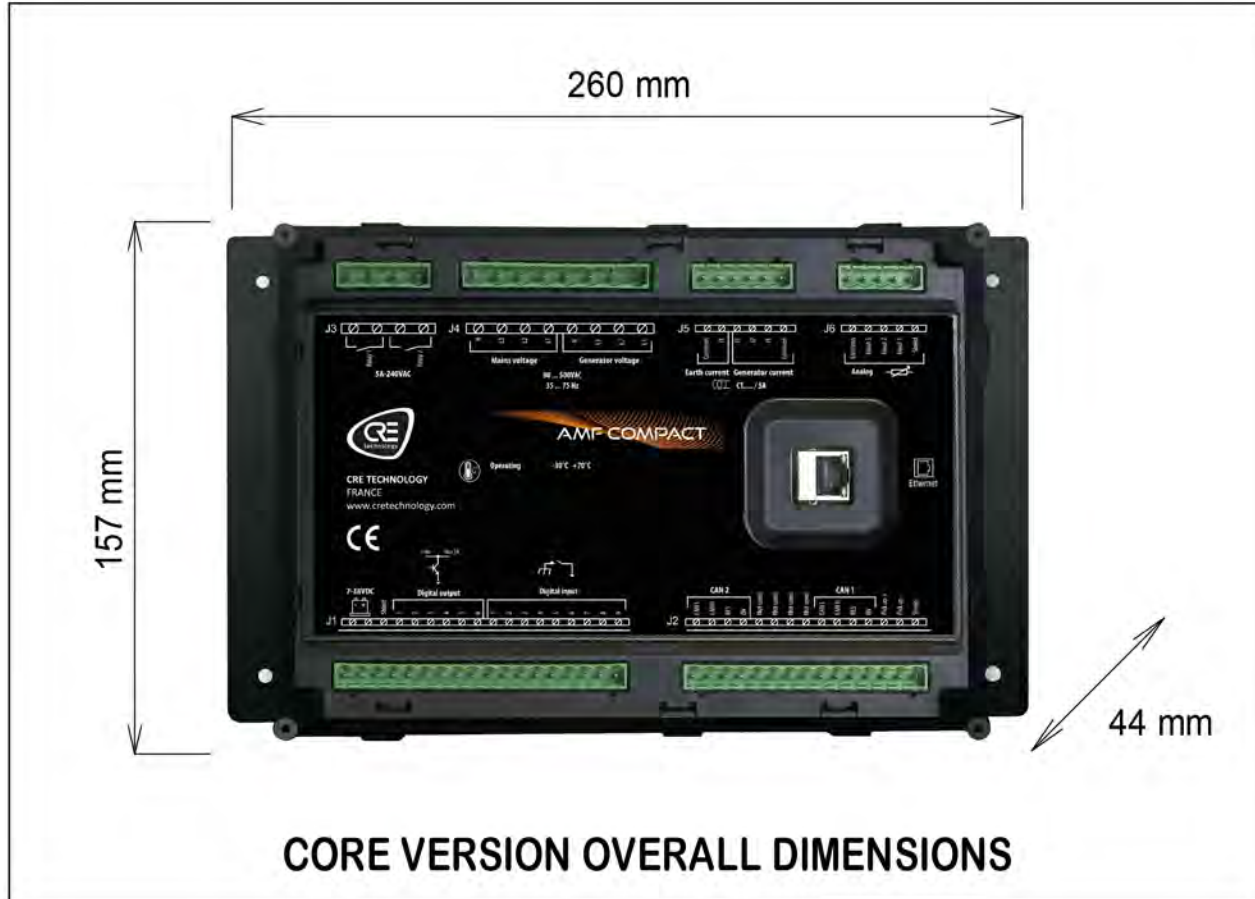


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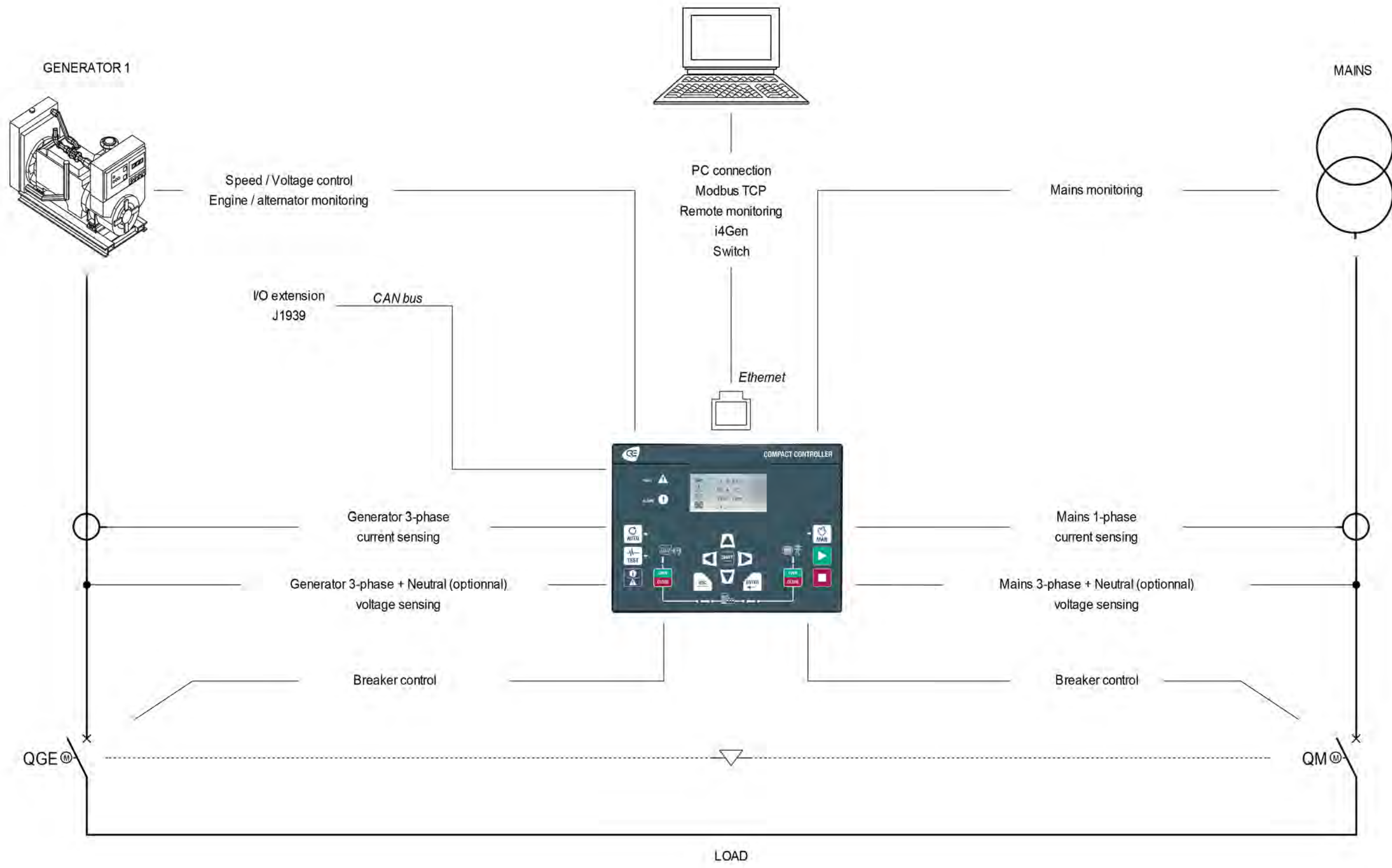
Module Rear / Core view



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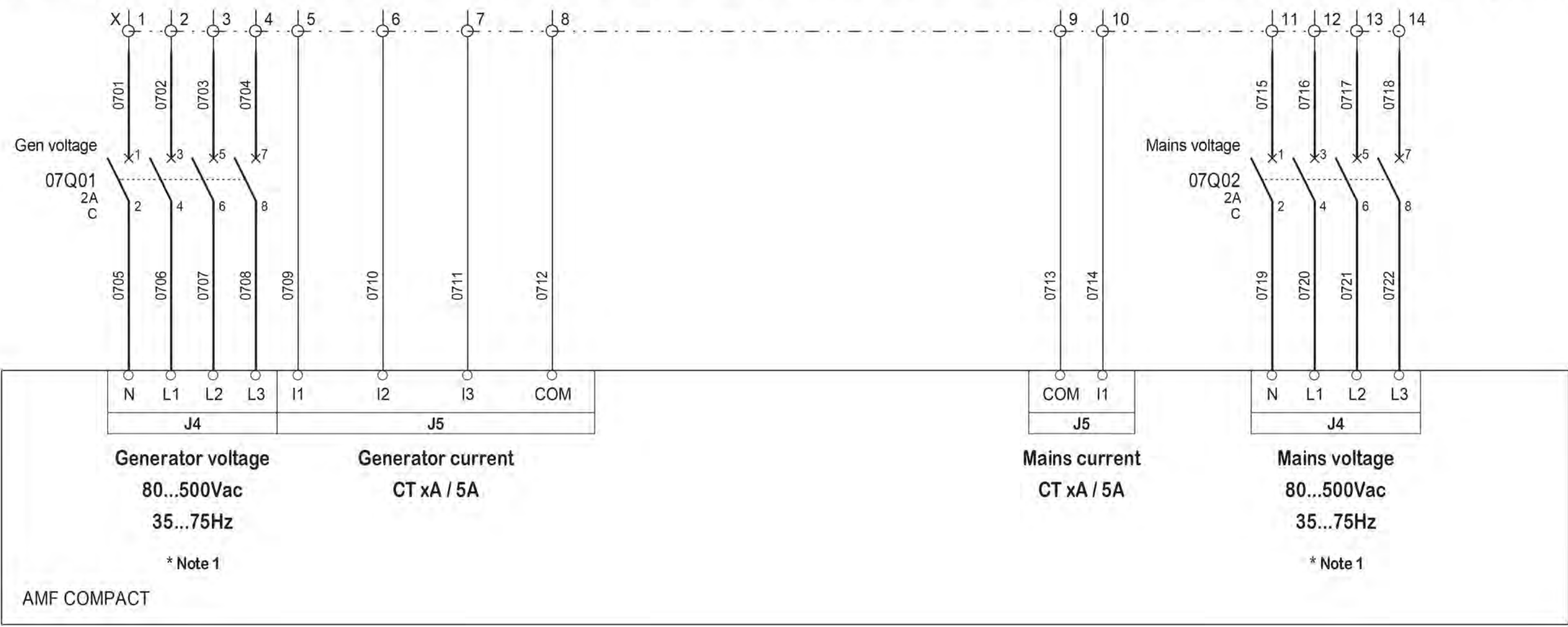
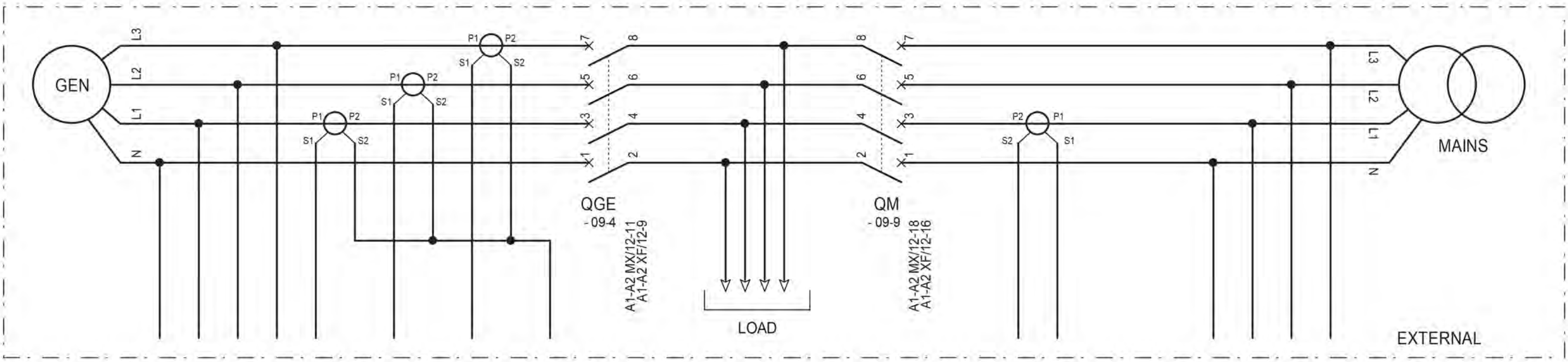
Dimensions / Panel cut



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**AMF COMPACT HMI / CORE  
STANDARD WIRING SCHEMATICS**

**Single line diagram**



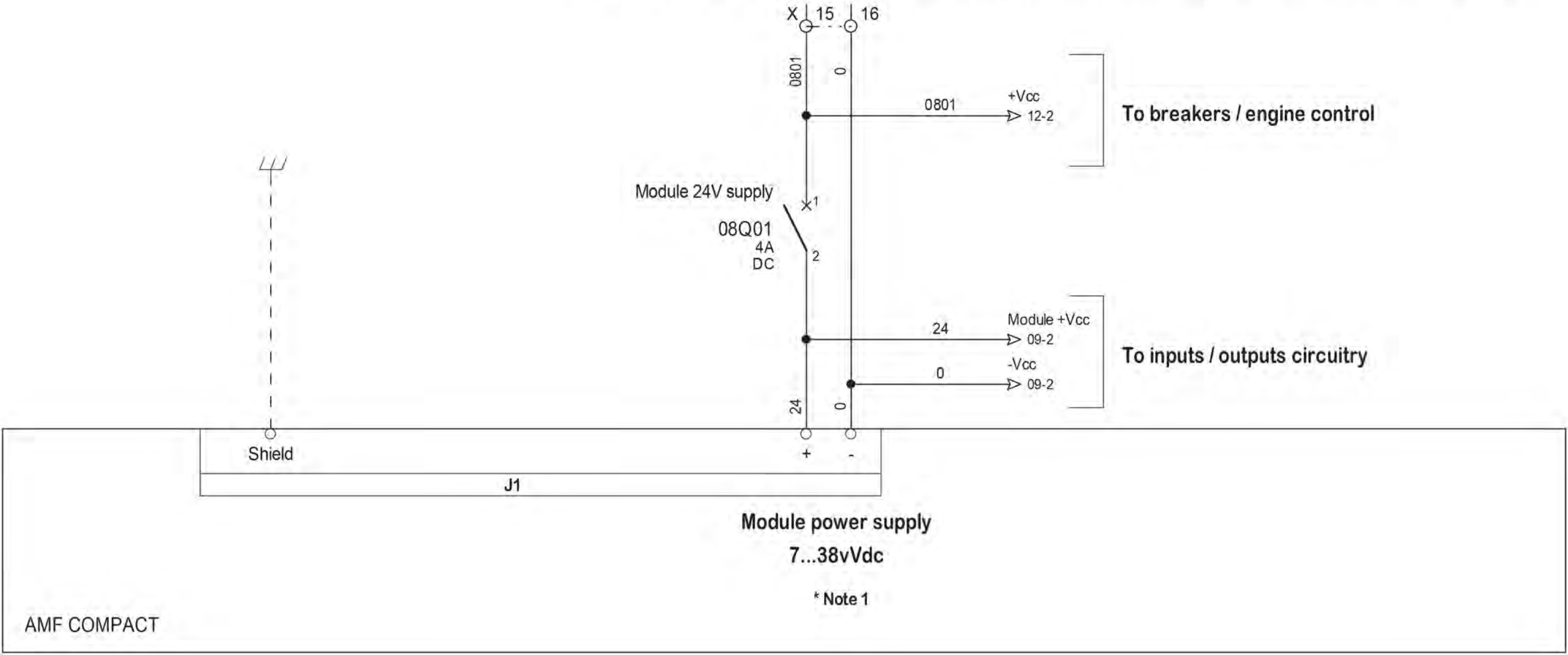
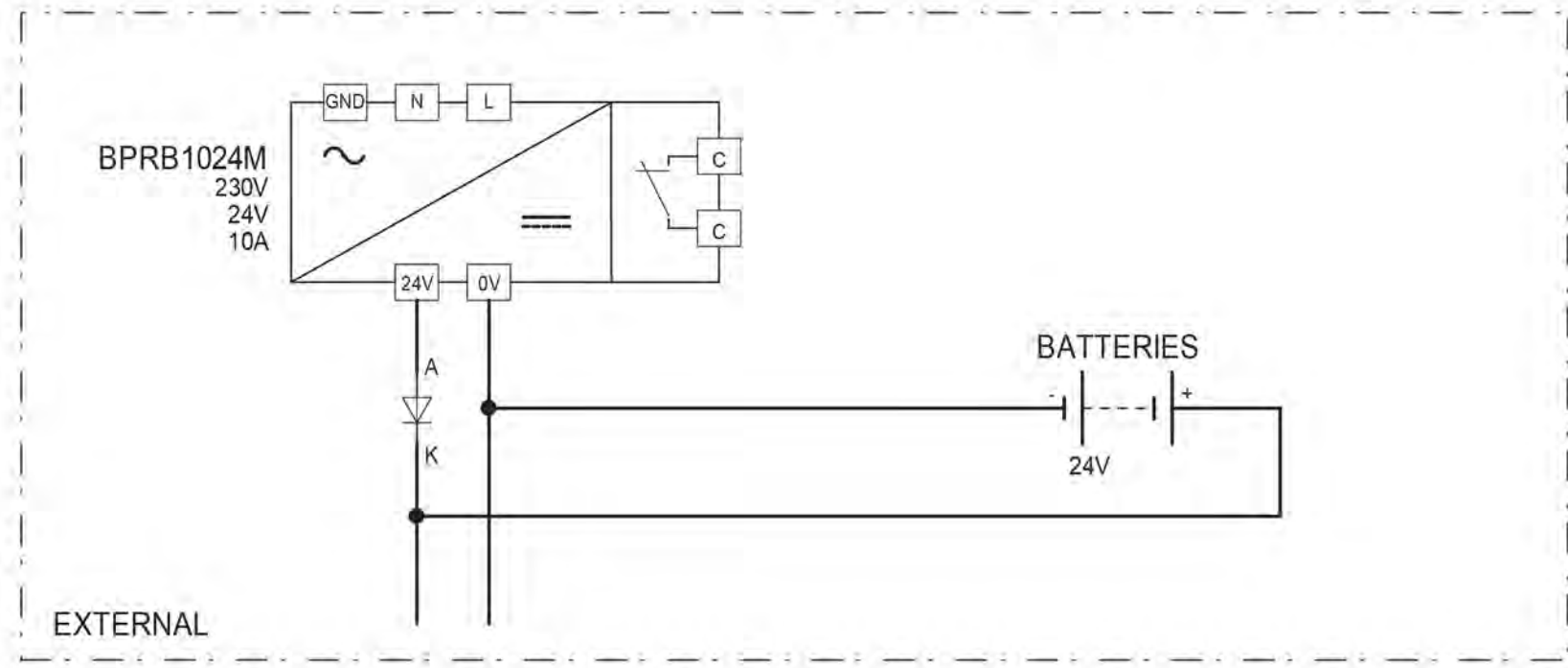
\* Note1: Shall voltage transformers be required, refer to technical documentation



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Voltages and currents sensing



\* Note1: Example given with use of a 24Vdc battery charger, but applies identically with 12Vdc

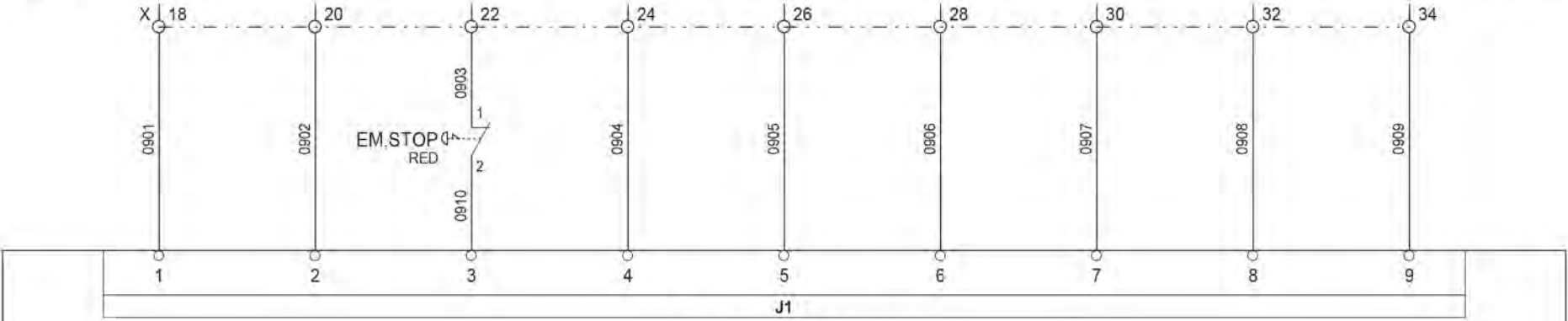
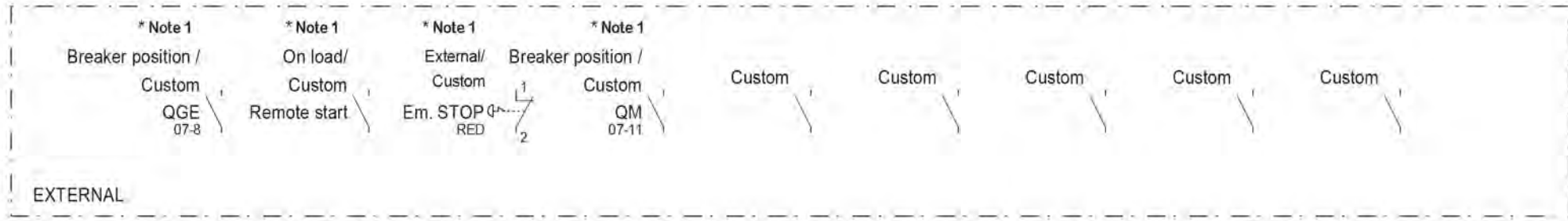


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AMF COMPACT HMI / CORE  
STANDARD WIRING SCHEMATICS

Power supply and shield connection





Configurable digital inputs

AMF COMPACT

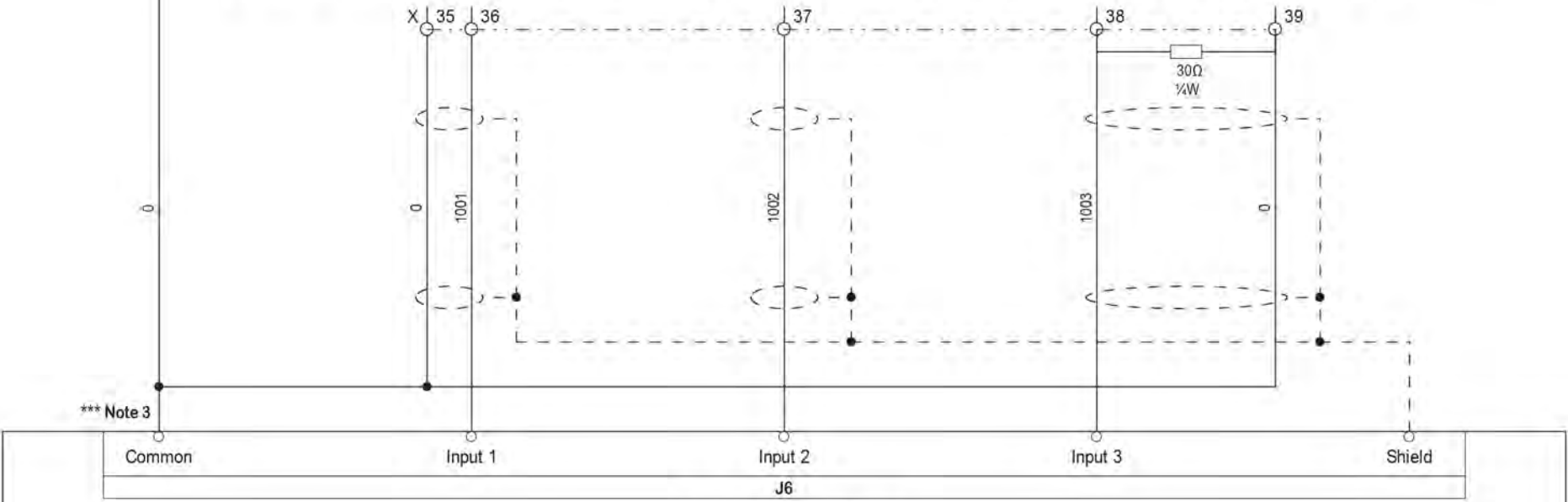
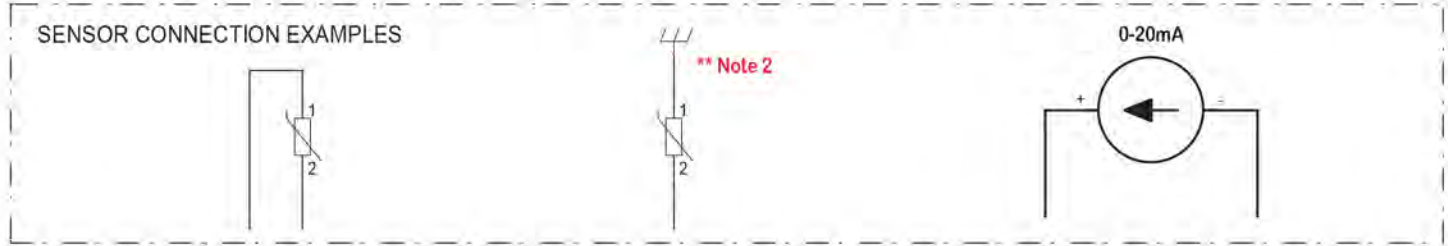
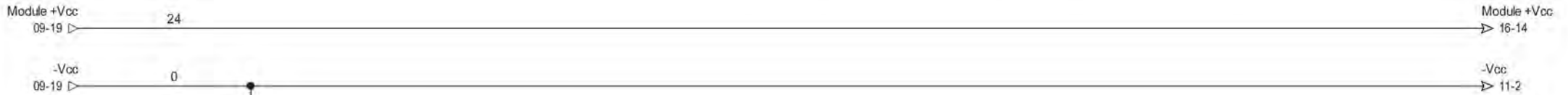
\* Note 1: Default setting, can be adjusted via PC software as desired



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AMF COMPACT HMI / CORE  
STANDARD WIRING SCHEMATICS

Digital inputs



\*\*\* Note 3

**Configurable analog inputs**

\* Note 1

AMF COMPACT

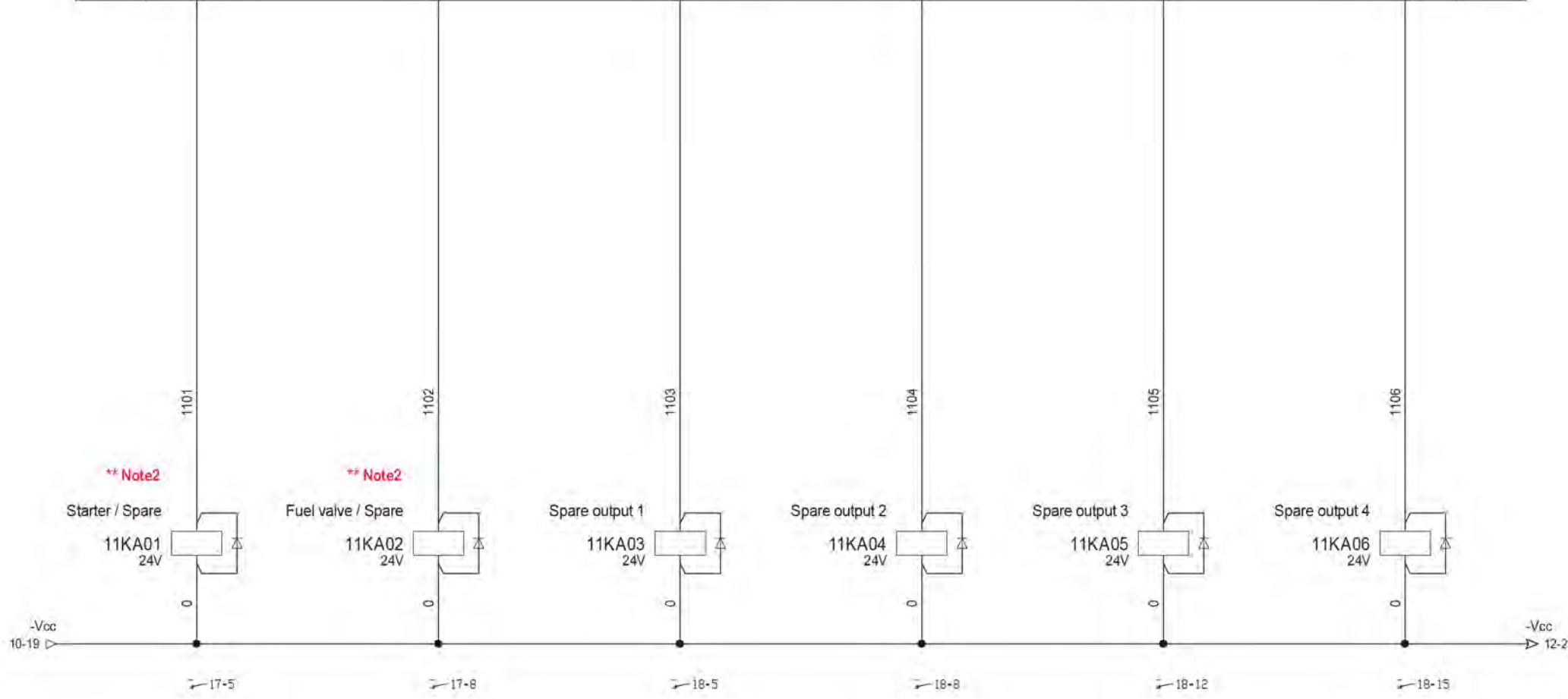
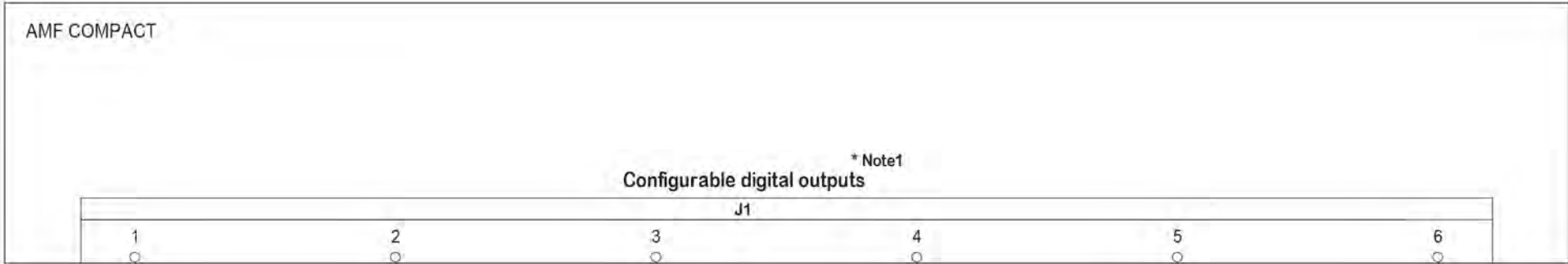
\* Note1: Analog inputs can be used with resistive sensors (max. range 0-500 Ohms), with external 20mA current transducers fitted with a 30-ohm 1/4 Watt resistor or as additional digital inputs  
 \*\* Note2: Ensure engine body and 0Vcc are connected in case of use of a single-wire sensor  
 \*\*\* Note3: The common analog input terminal must have a direct connection to the -Batt terminal of the controller



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Analog inputs



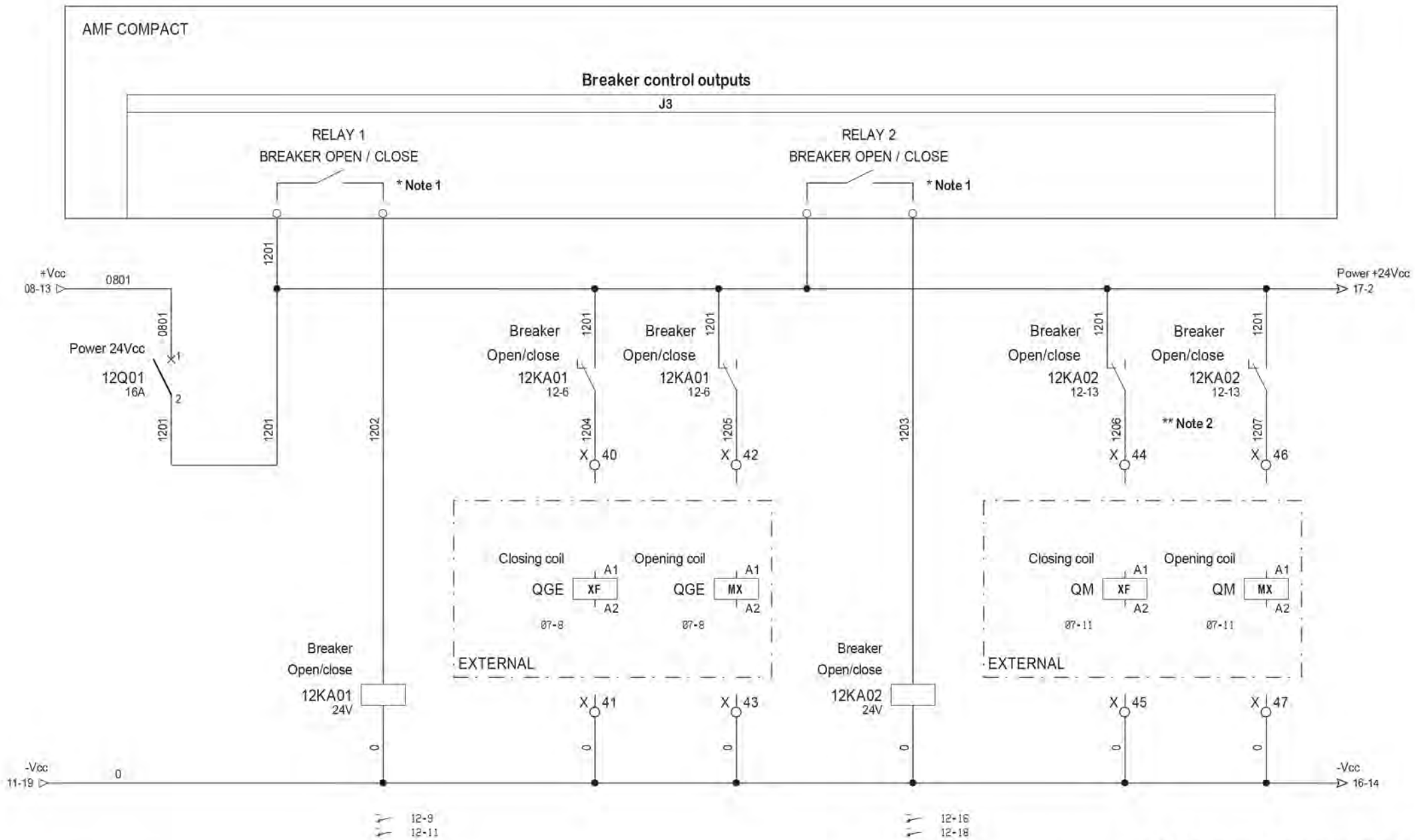
\* Note1: Maximum output current is 1.8 Amps  
 \*\* Note2: External relay recommended for starter & fuel valve controls



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Digital outputs



\* Note1: Default functions, adjustable via PC software

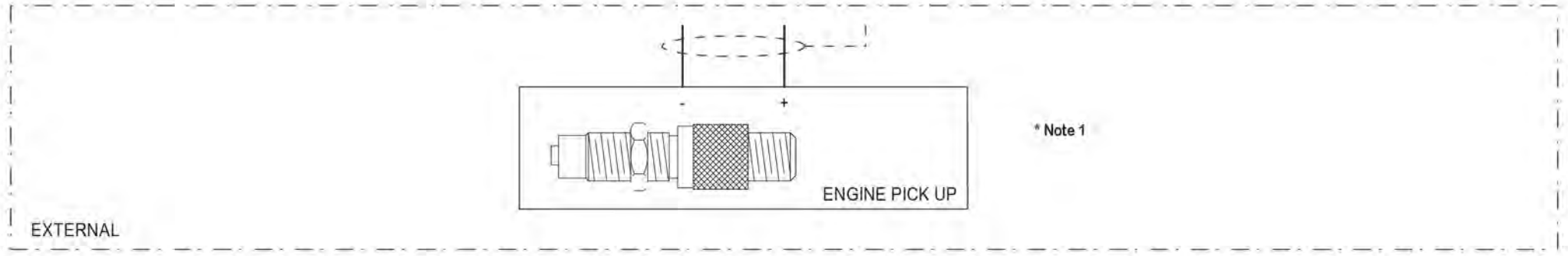
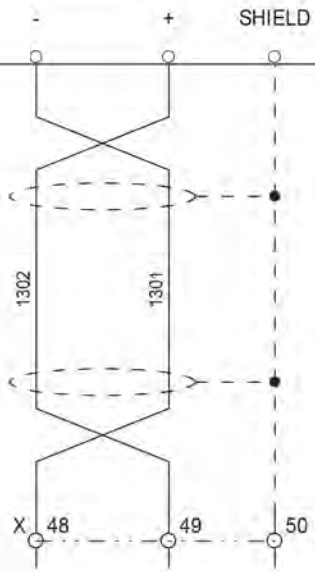
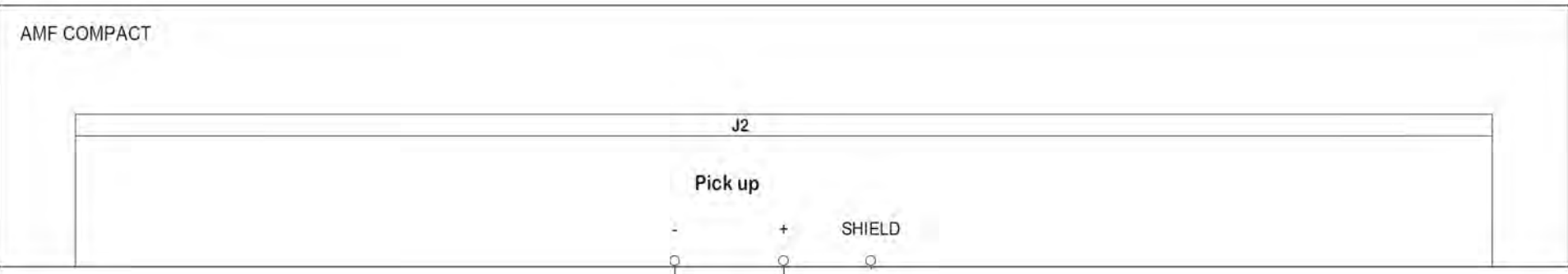
\*\* Note2: Inverted logic can be used to prevent mains breaker opening when powering off the module



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**AMF COMPACT HMI / CORE**  
**STANDARD WIRING SCHEMATICS**

**Breaker control**



\* Note1: Refer to the engine technical sheet to set the number of teeth



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Speed sensing

NOT USED



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Speed & voltage control

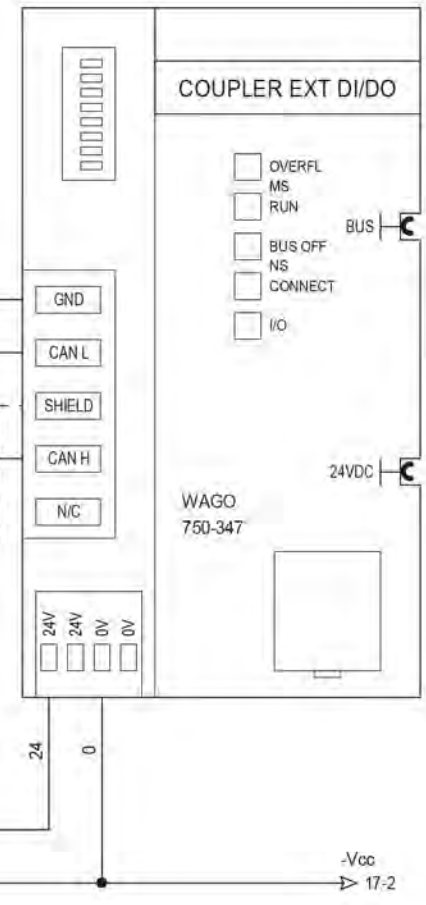
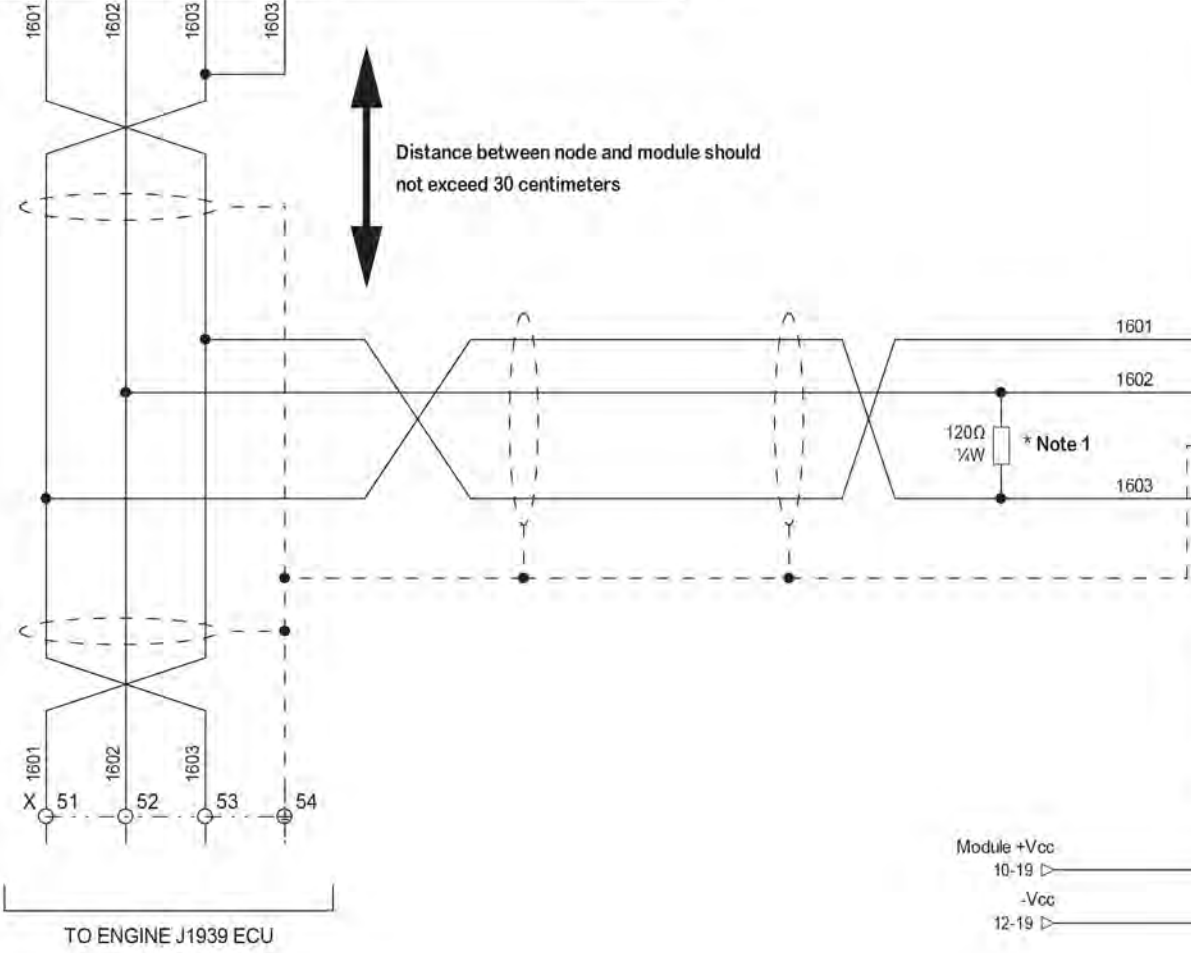
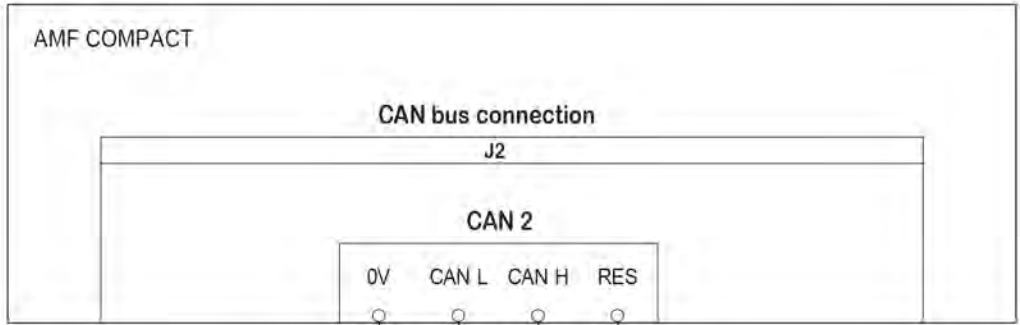
NOT USED



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CAN 1 connection



\* Note 1

\* Note1: Bus end 120-ohm resistor to be placed between CAN L and CAN H terminal on last equipment only

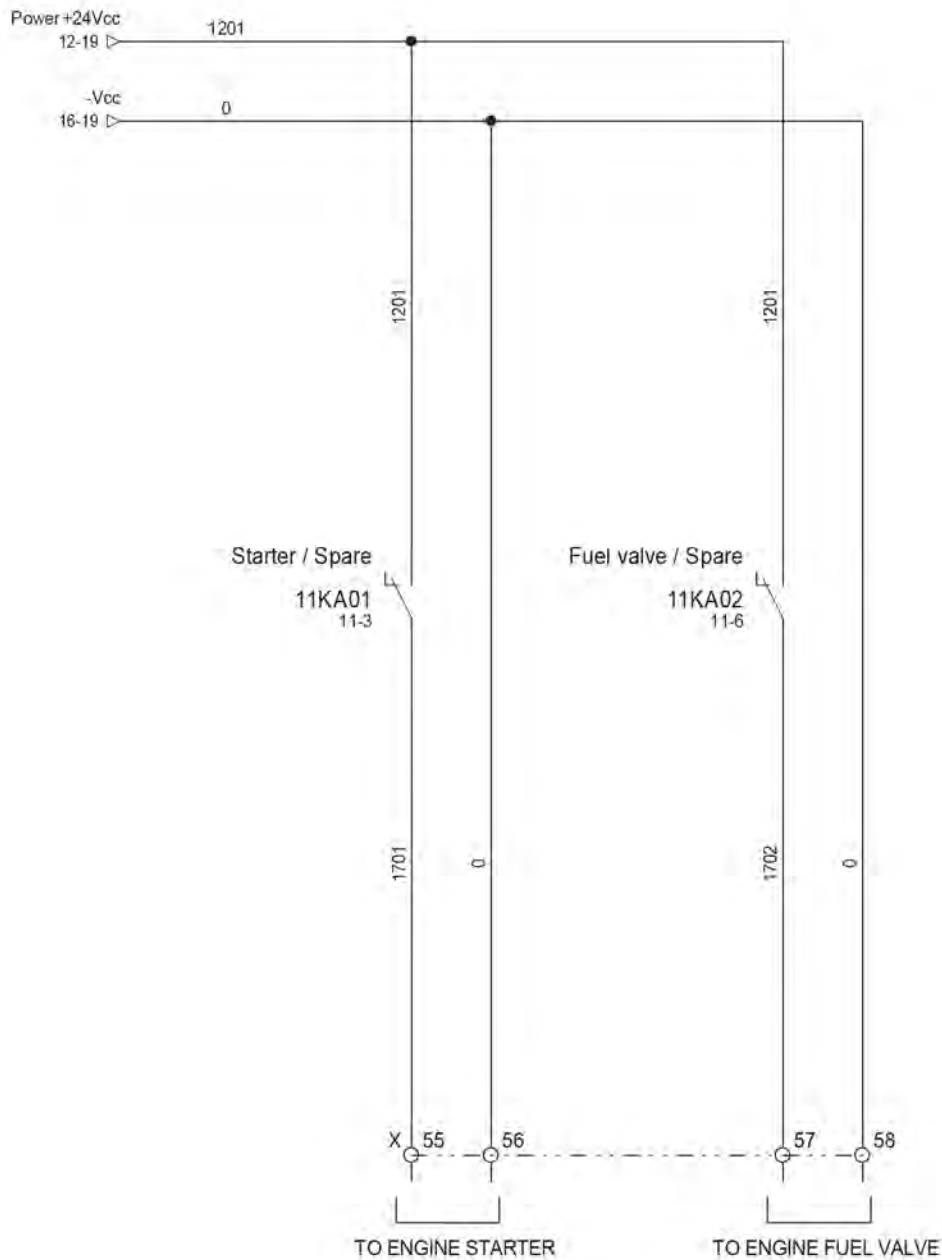


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CAN 2 connection

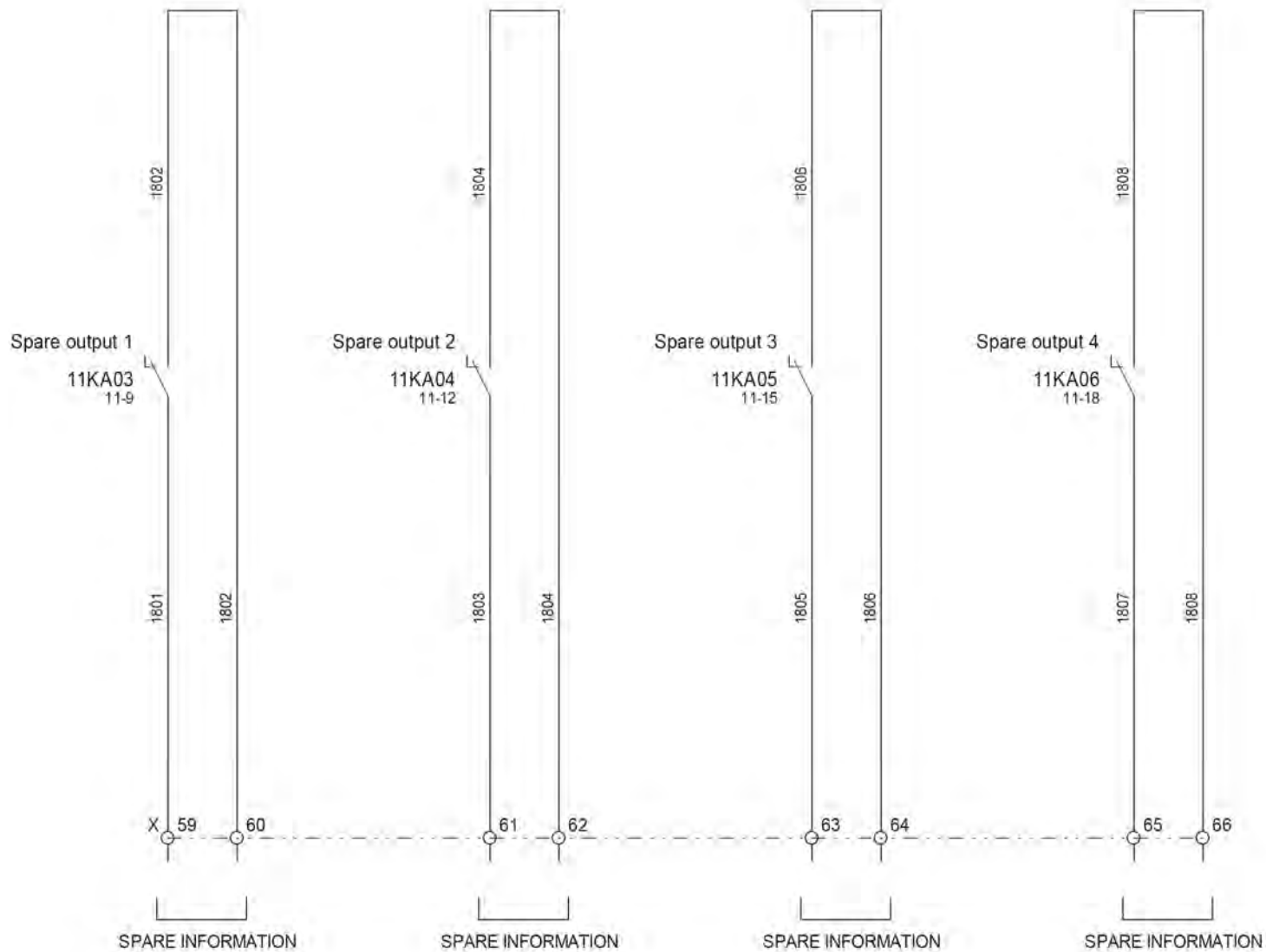




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Engine control



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Digital output terminals