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REVISION	MODIFICATION	DATE	DRAWN	CHECKED	APPROVED

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DATE: 17/03/2022

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STANDARD WIRING SCHEMATICS

GENSYS COMPACT PRIME HMI / CORE

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FOLIO	DESIGNATION



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**GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS**

Sheet list



COMPACT CONTROLLER

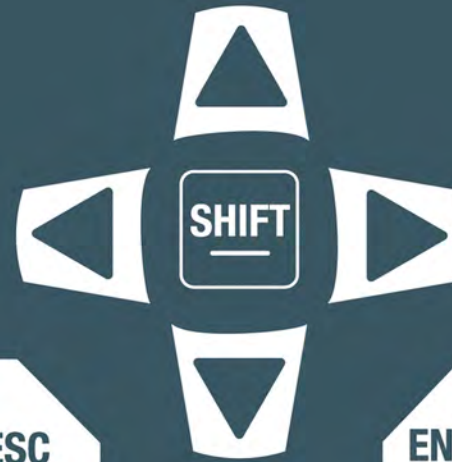
FAULT



ALARM



	5.2 bar
	50.4 °C
	1500 rpm
	23.7 V



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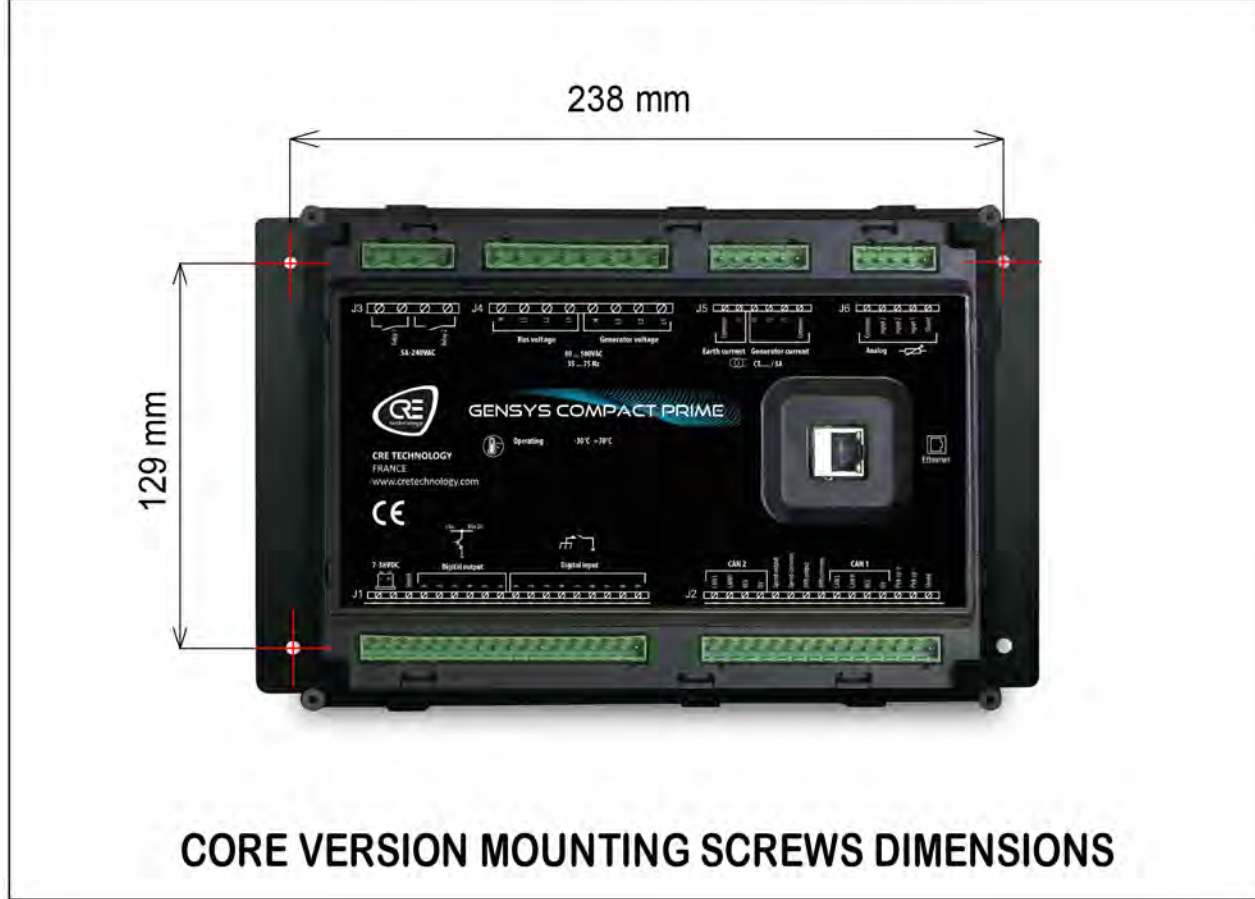
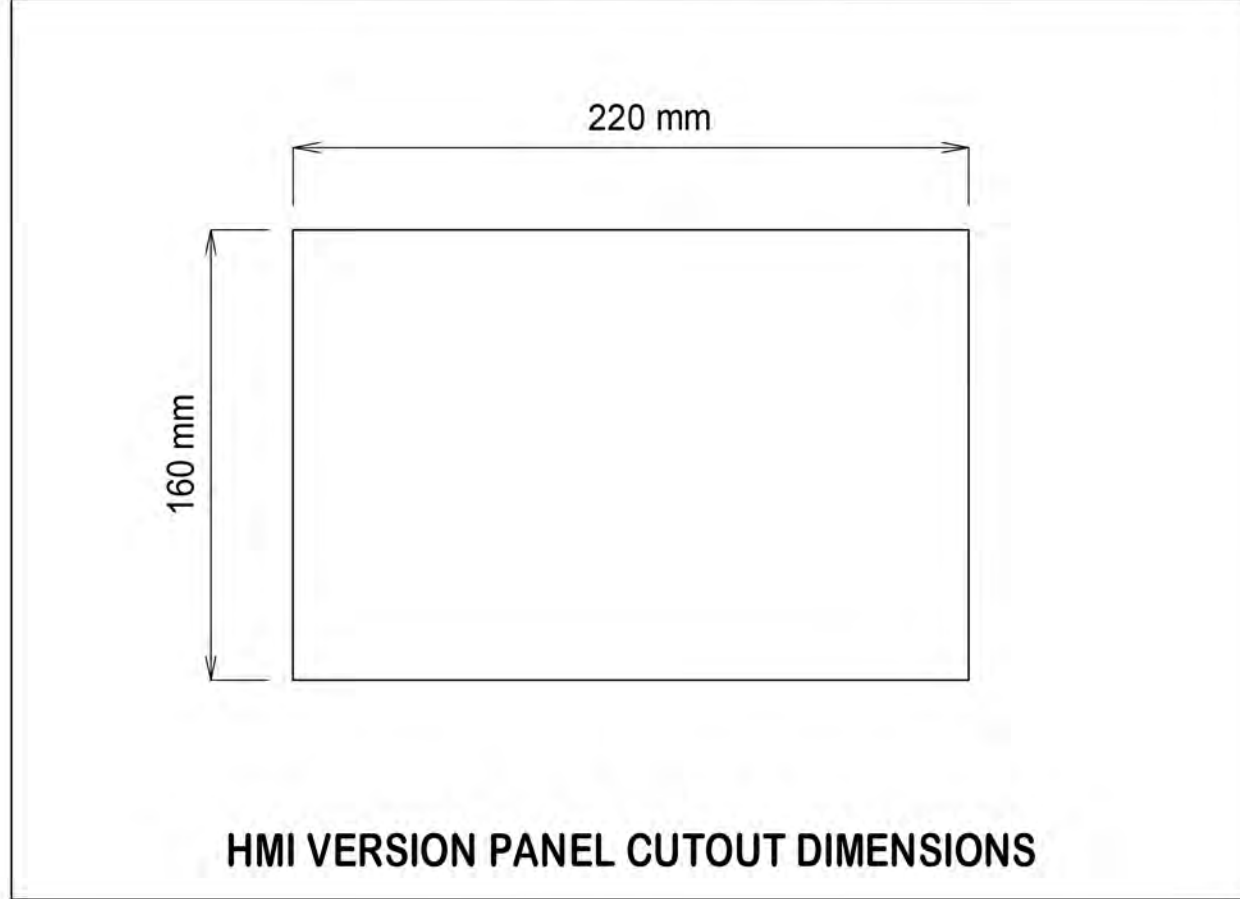
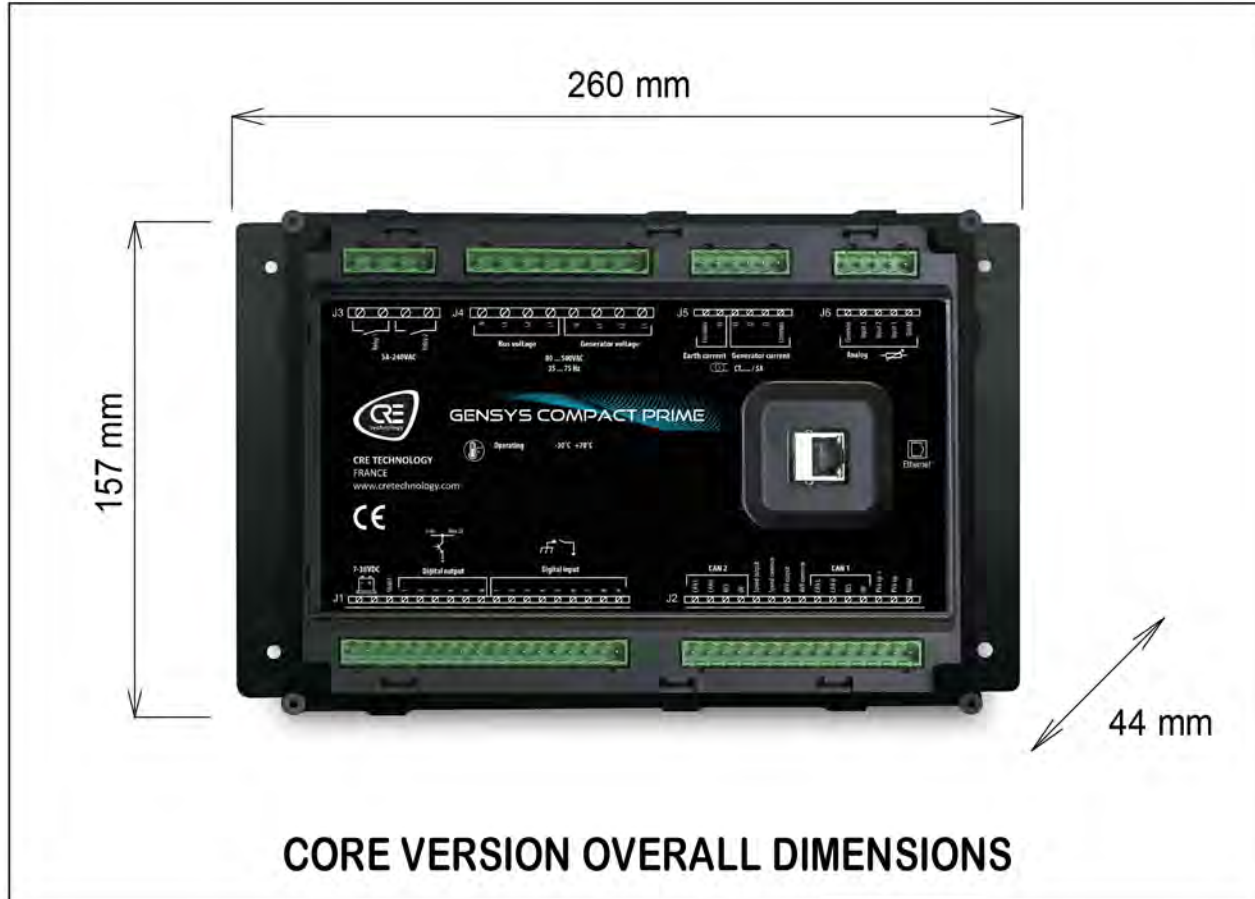
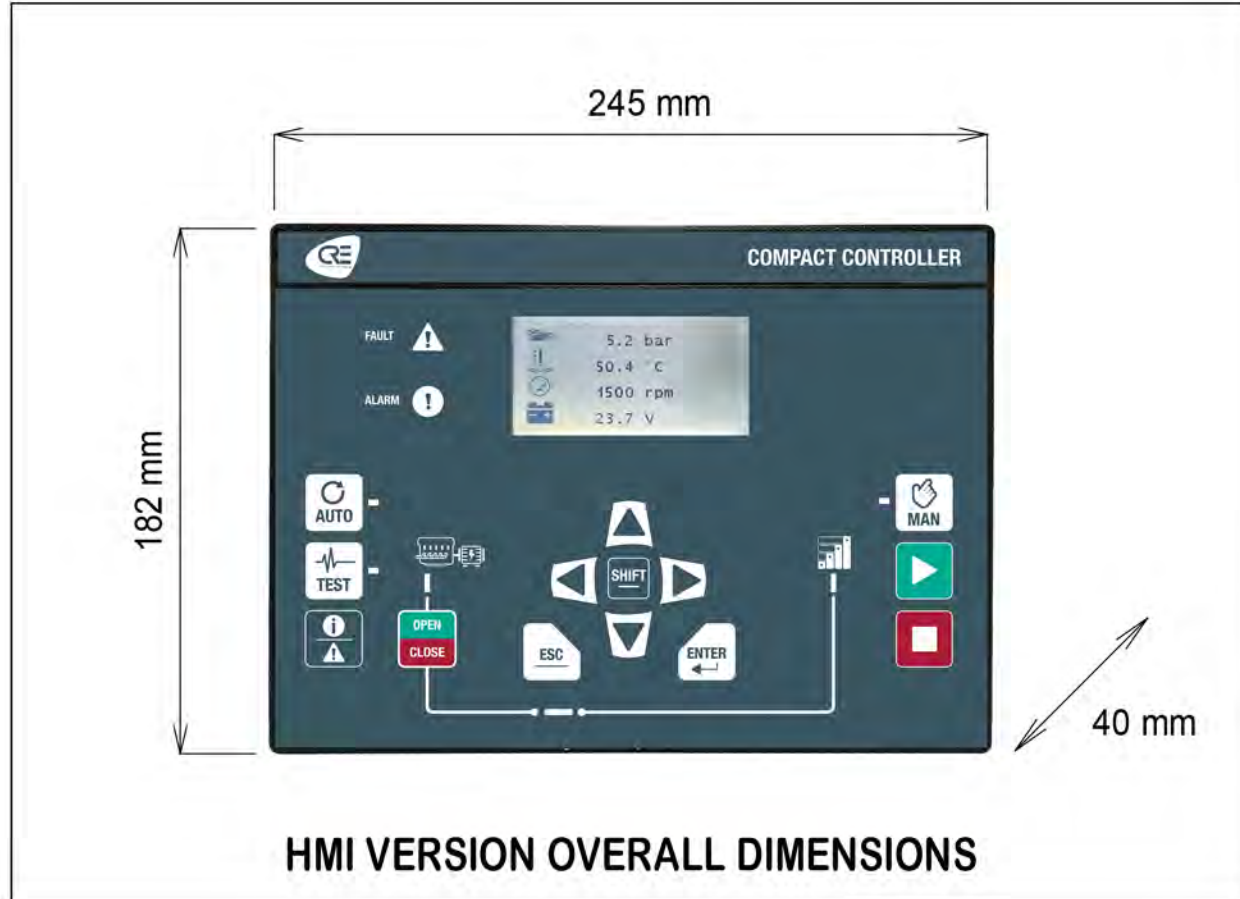
Module Front view



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**GENSYS COMPACT PRIME HMI / CORE
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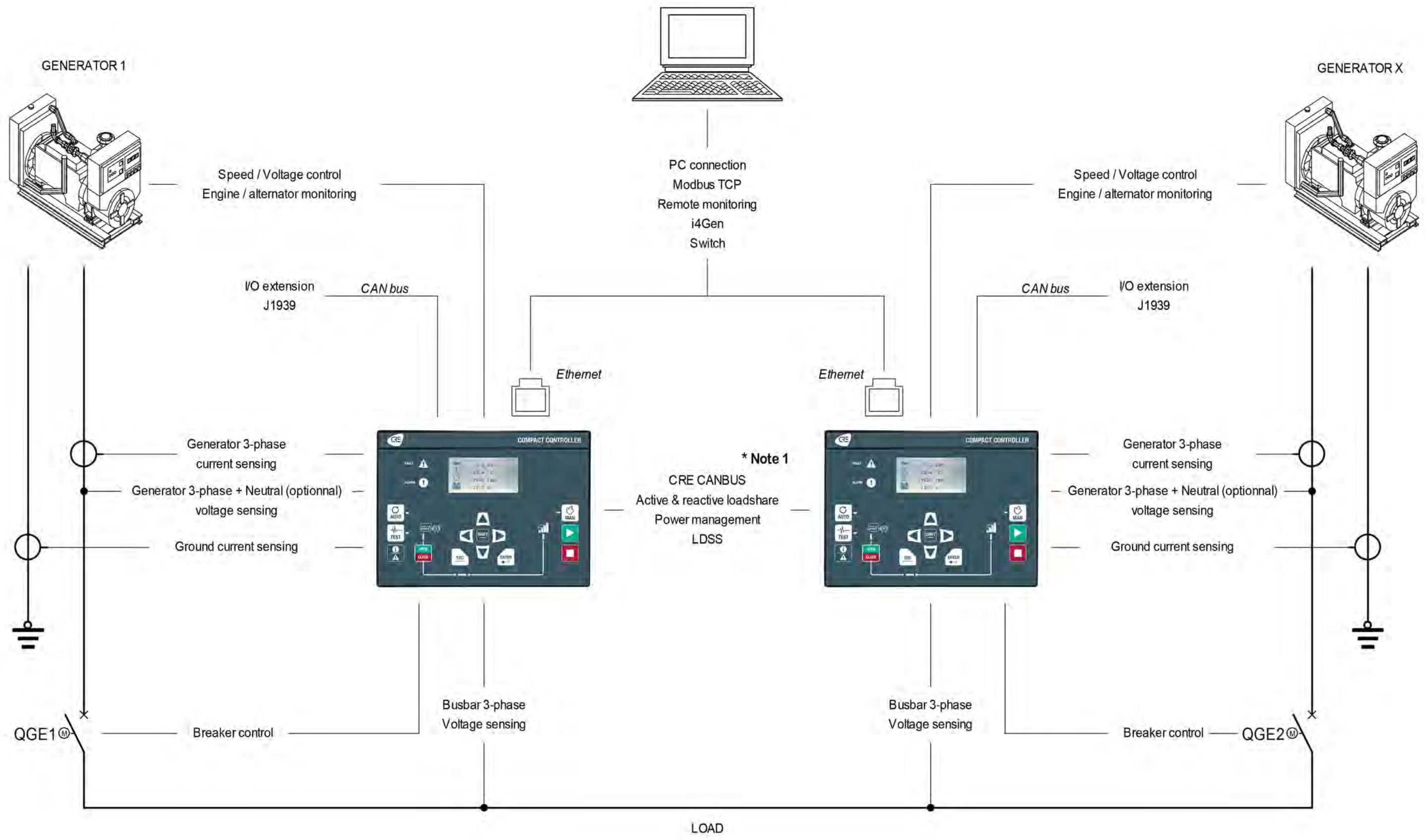
Module Rear / Core view



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**GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS**

Dimensions / Panel cut



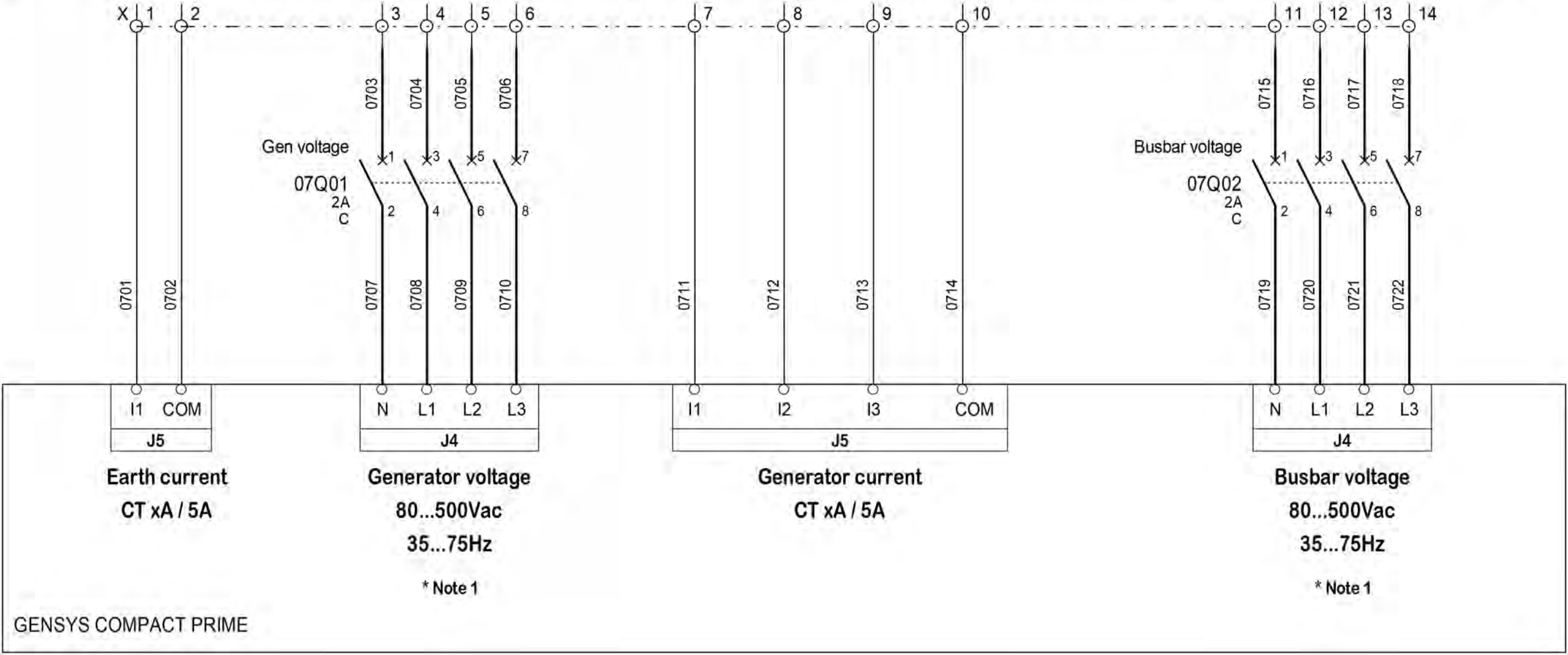
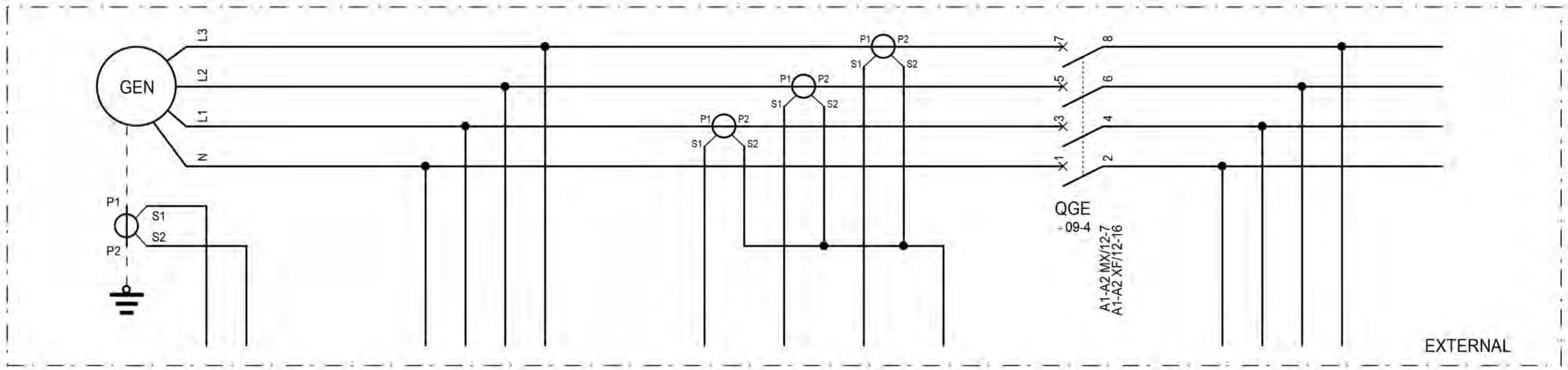
* Note1: Up to 32 modules can be connected



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**GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS**

Single line diagram



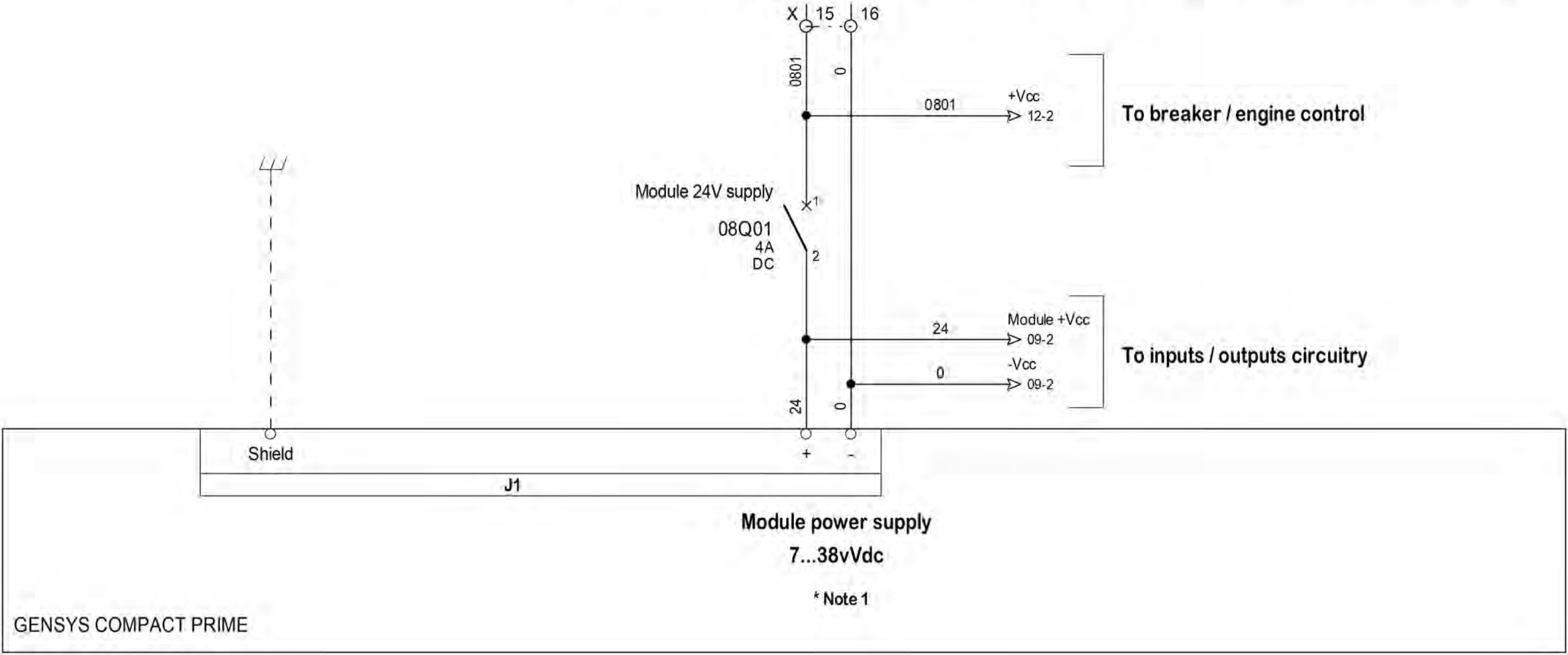
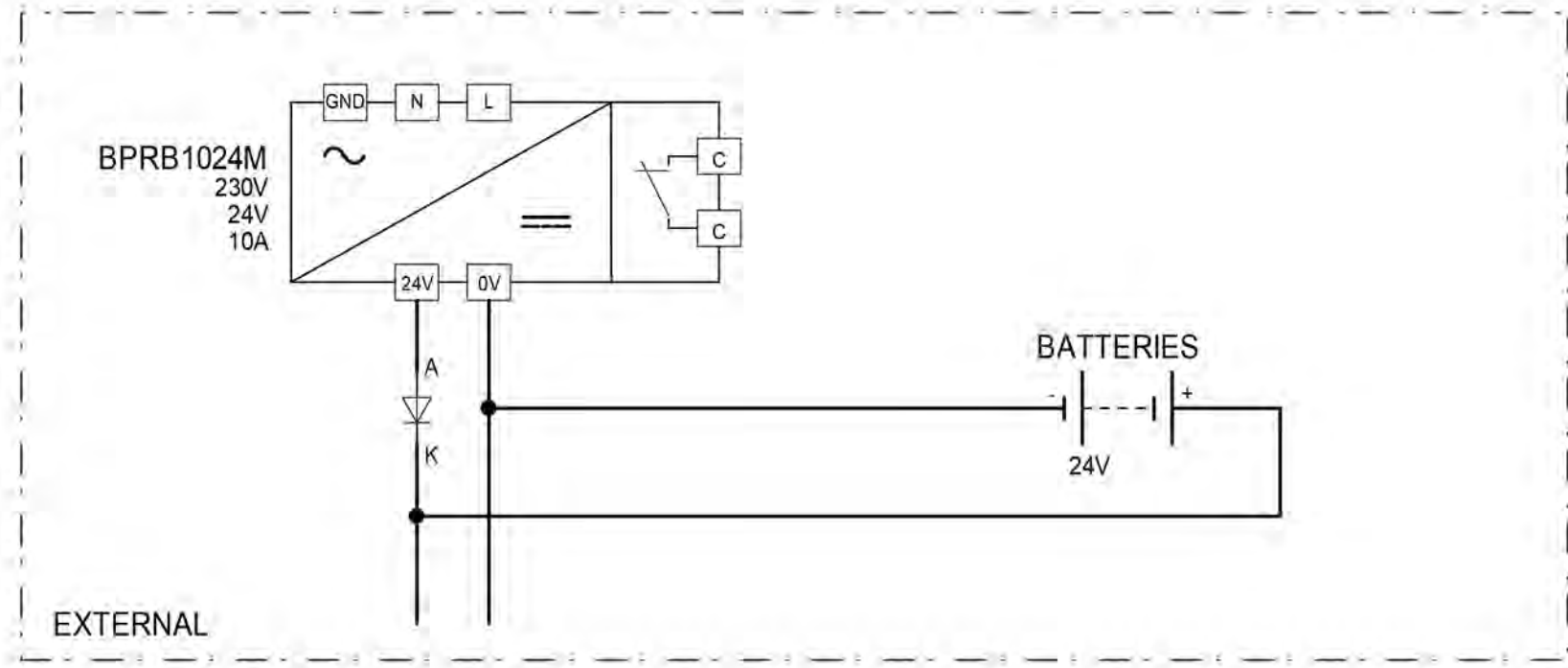
* Note1: Shall voltage transformers be required, refer to technical documentation



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GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS

Voltages and currents sensing



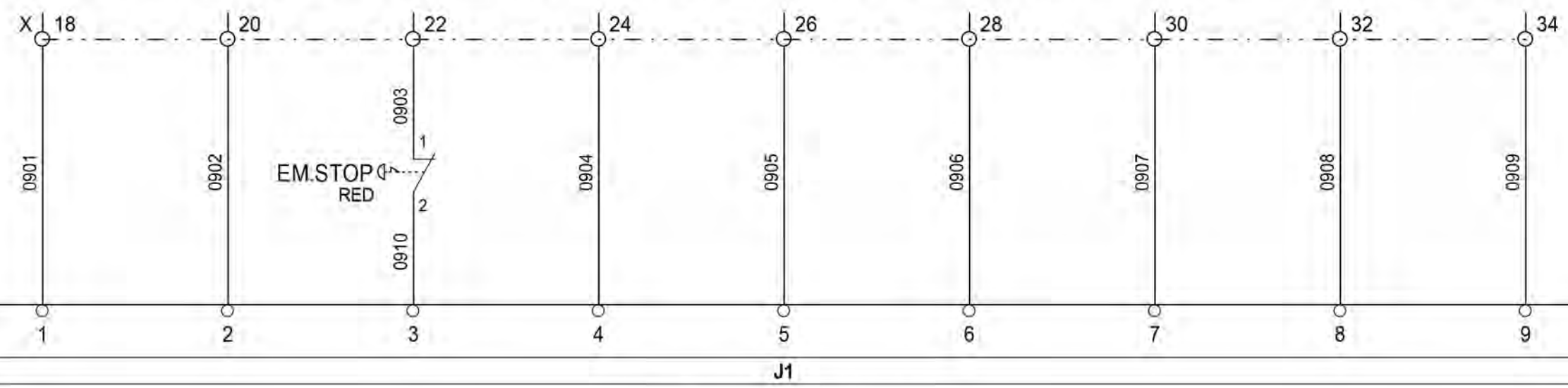
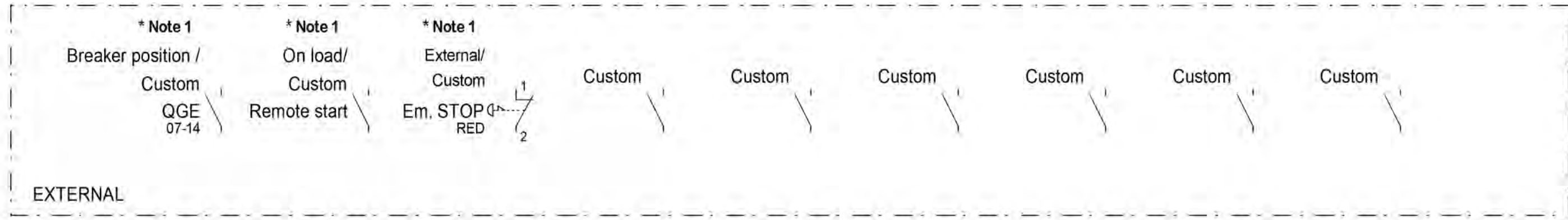
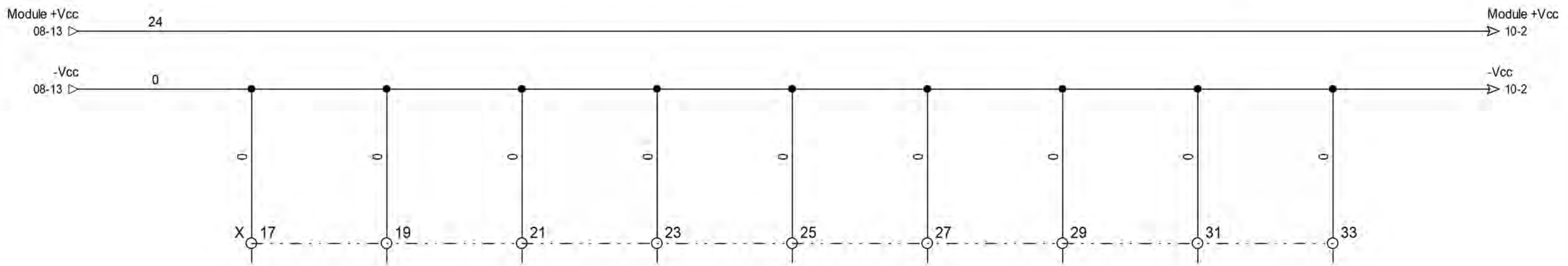
* Note1: Example given with use of a 24Vdc battery charger, but applies identically with 12Vdc



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GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS

Power supply and shield connection



Configurable digital inputs

GENSYS COMPACT PRIME

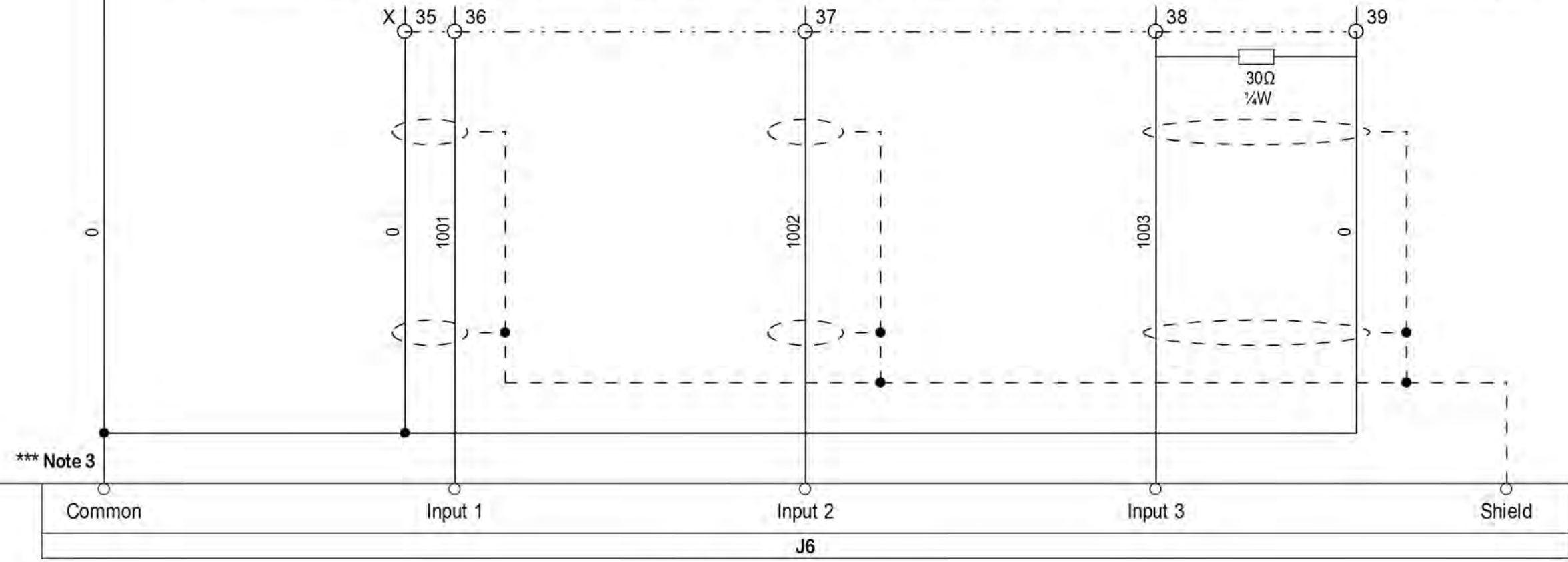
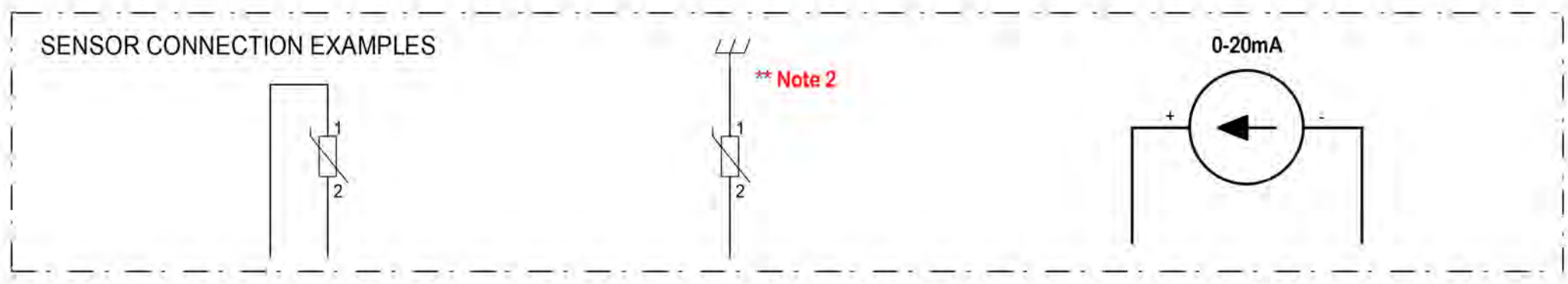
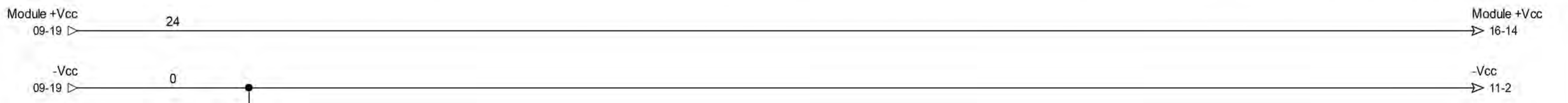
* Note 1: Default setting, can be adjusted via PC software as desired



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**GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS**

Digital inputs



*** Note 3

Configurable analog inputs

* Note 1

GENSYS COMPACT PRIME

* 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

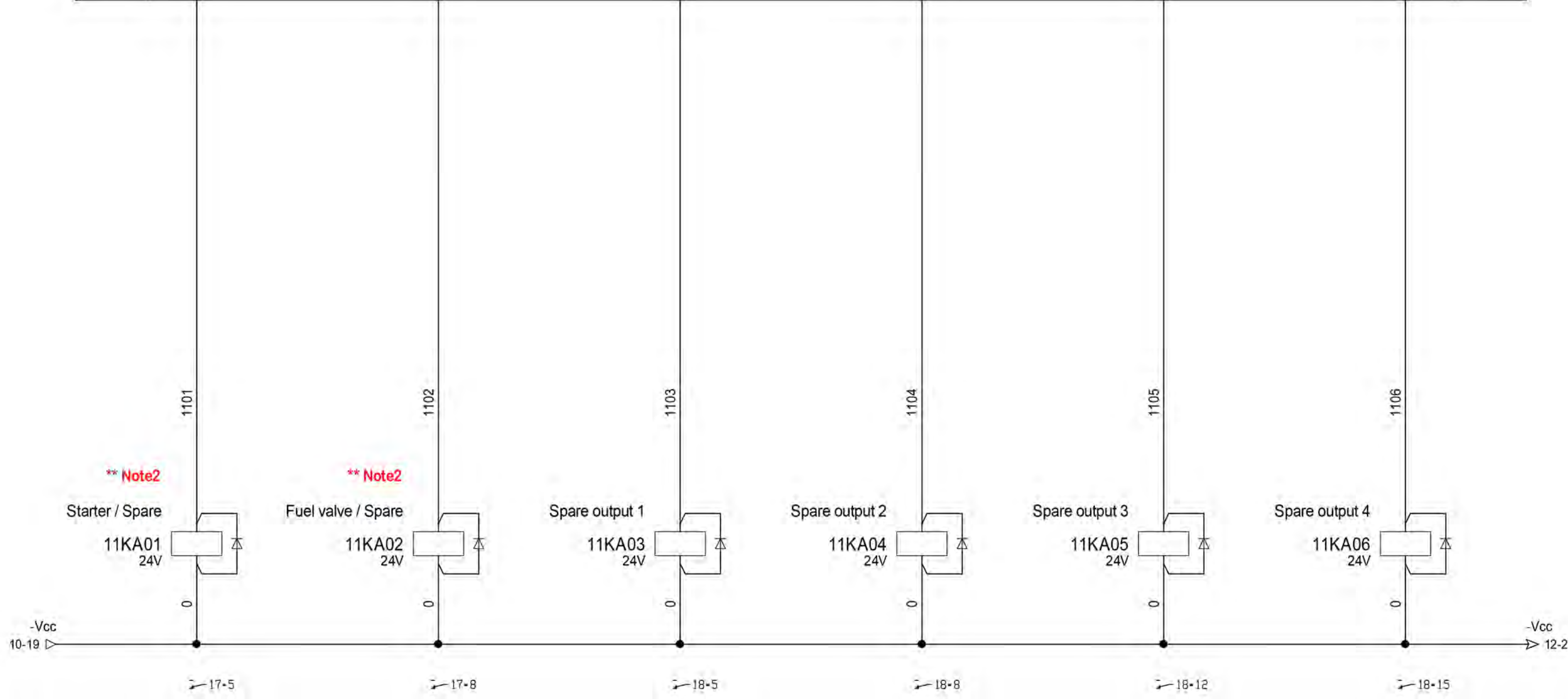
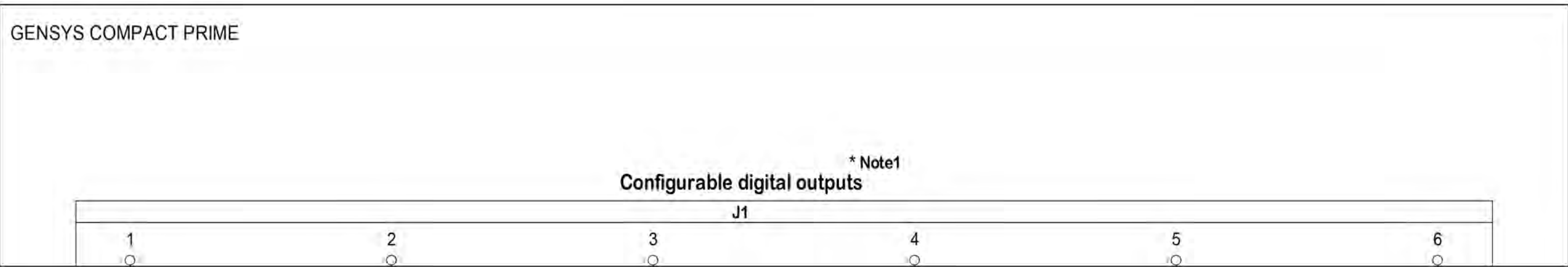


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 STANDARD WIRING SCHEMATICS

Analog inputs



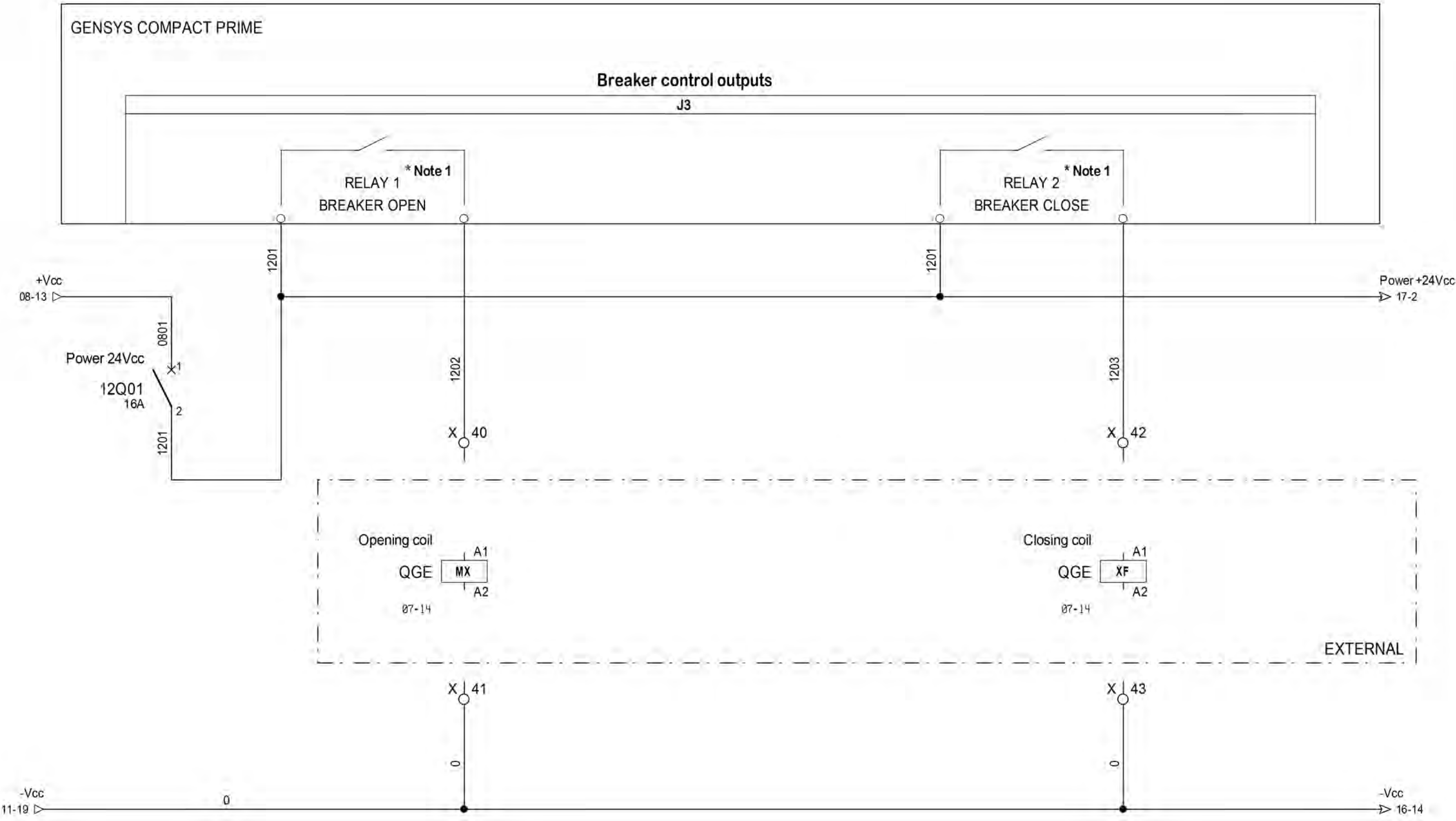
* Note1: Maximum output current is 1.8 Amps
 ** Note2: External relay recommended for starter & fuel valve controls



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GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS

Digital outputs



* Note1: Default functions, adjustable via PC software



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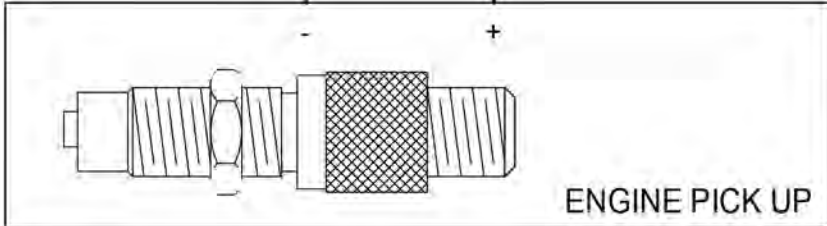
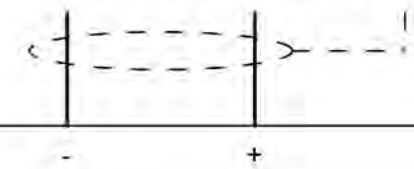
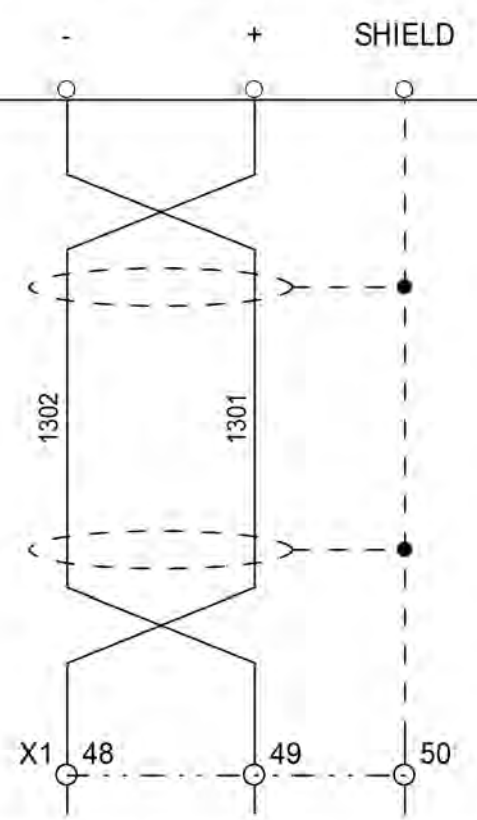
GENSYS COMPACT PRIME HMI / CORE
 STANDARD WIRING SCHEMATICS

Breaker control

GENSYS COMPACT PRIME

J2

Pick up



ENGINE PICK UP

* Note 1

EXTERNAL

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

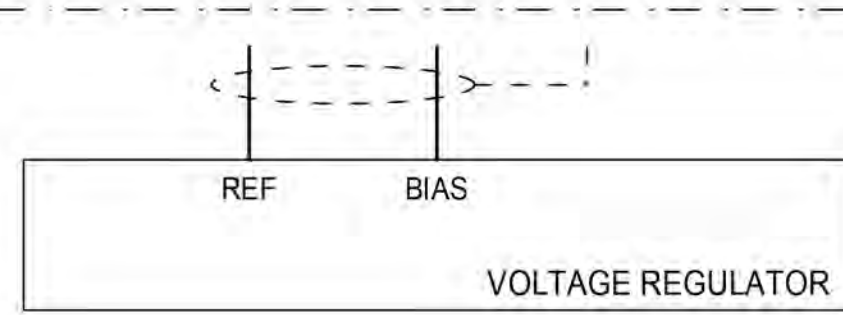
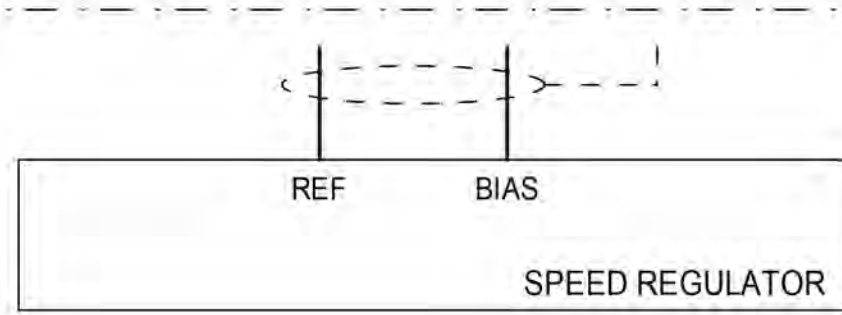
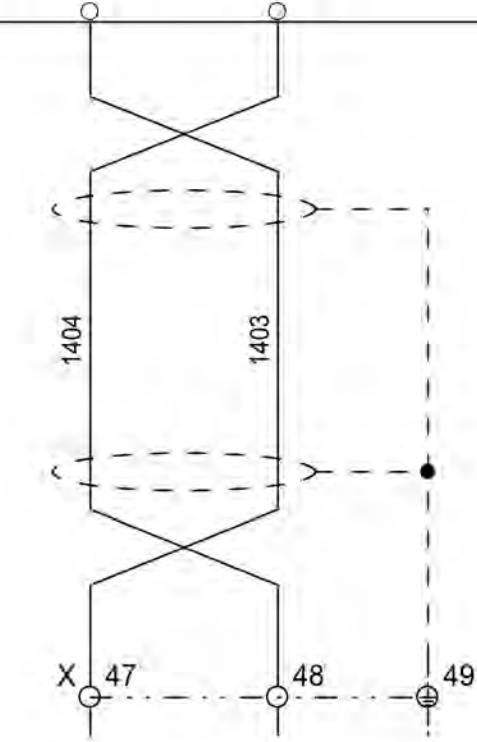
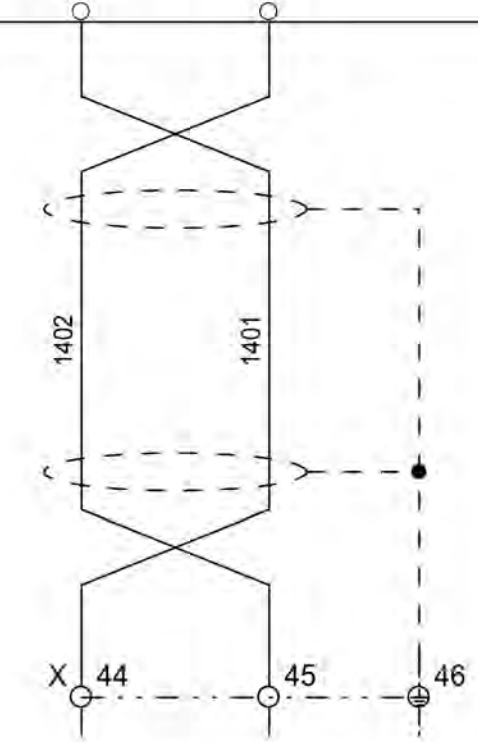
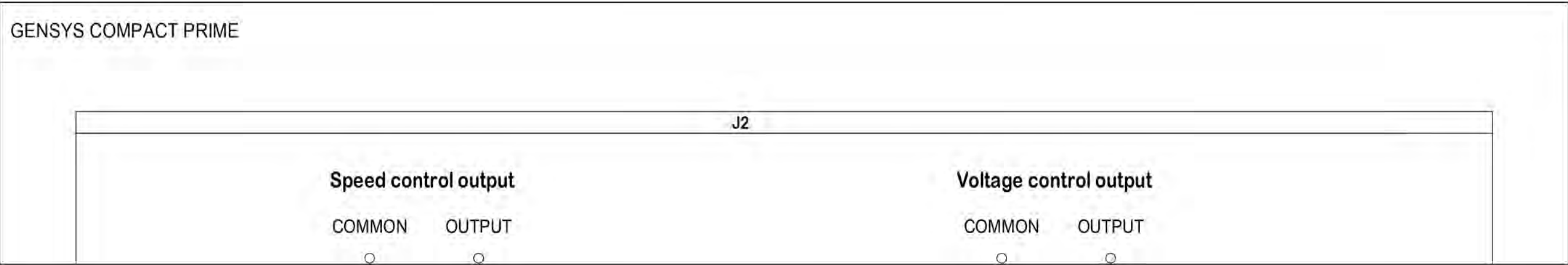


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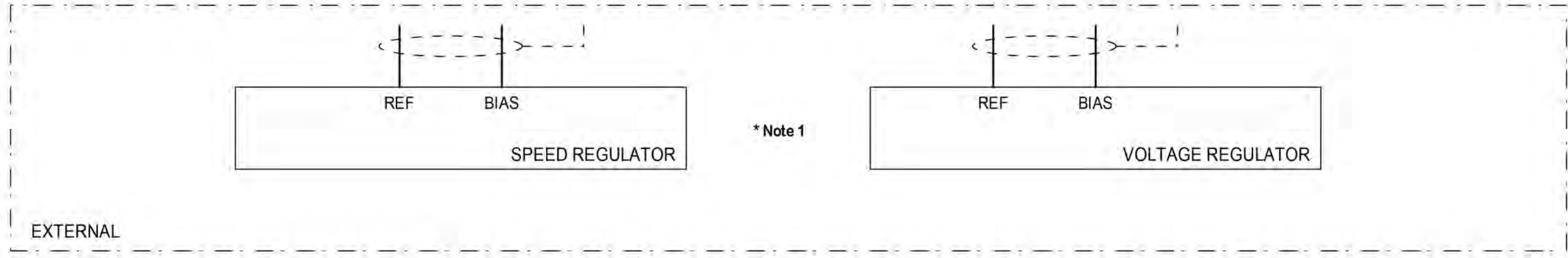
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GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS

Speed sensing



* Note 1



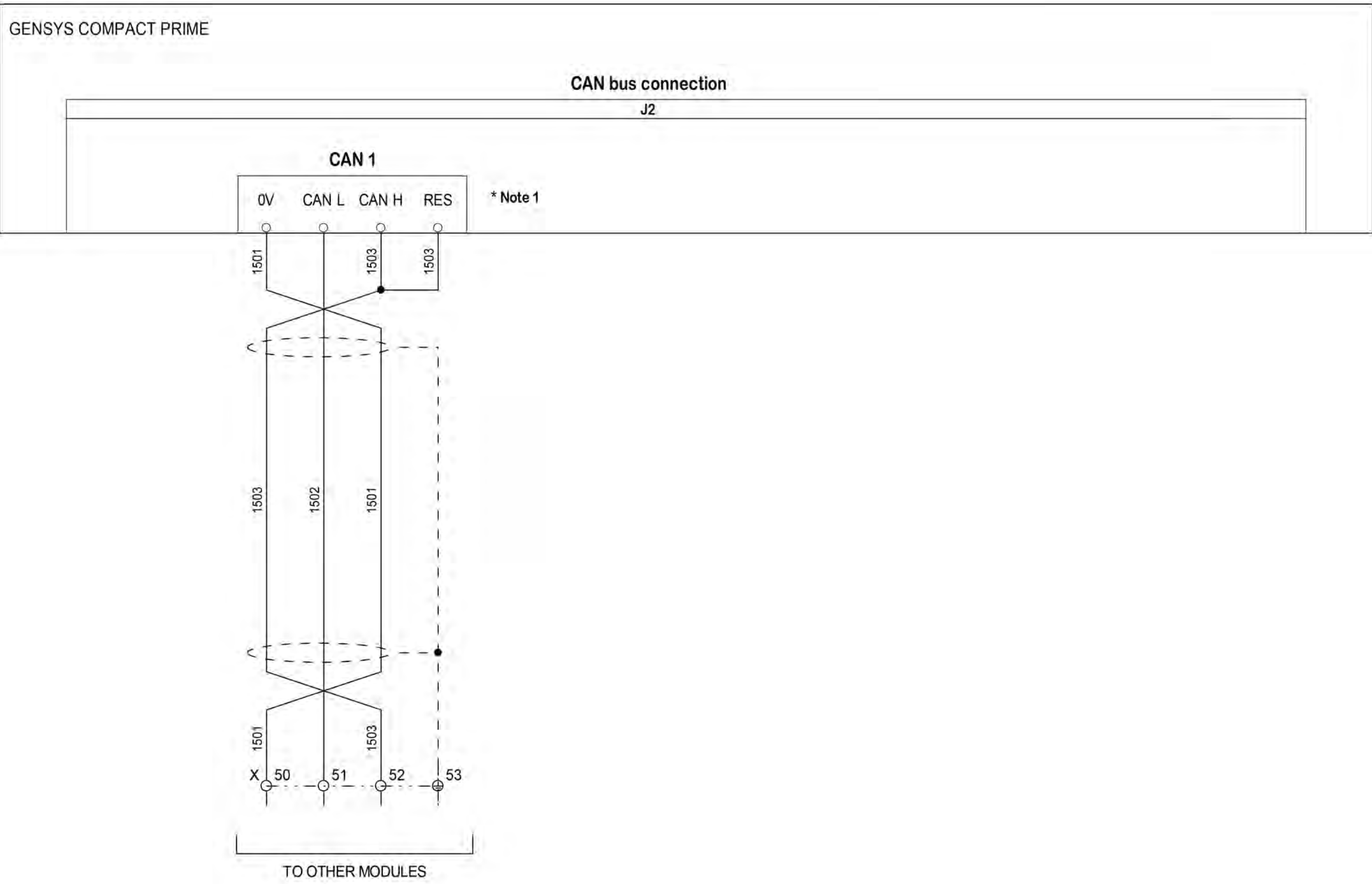
* Note1: Settings vary upon the type of regulator used. Refer to the technical sheet for more information



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GENSYS COMPACT PRIME HMI / CORE
STANDARD WIRING SCHEMATICS

Speed & voltage control



* Note 1

** Note 2

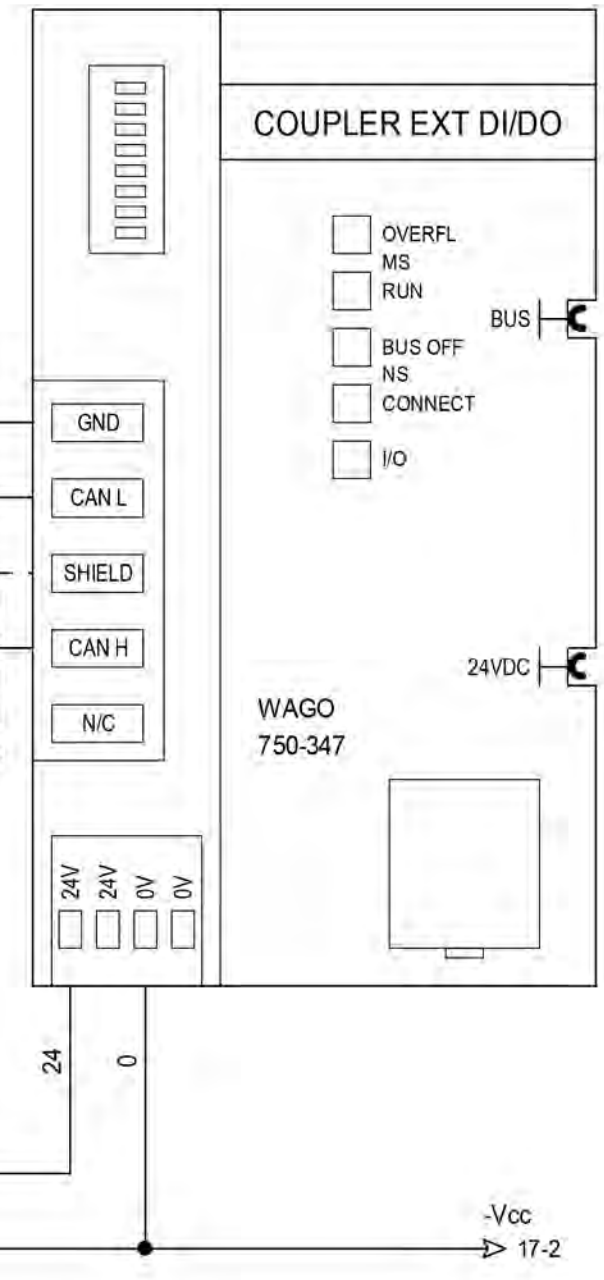
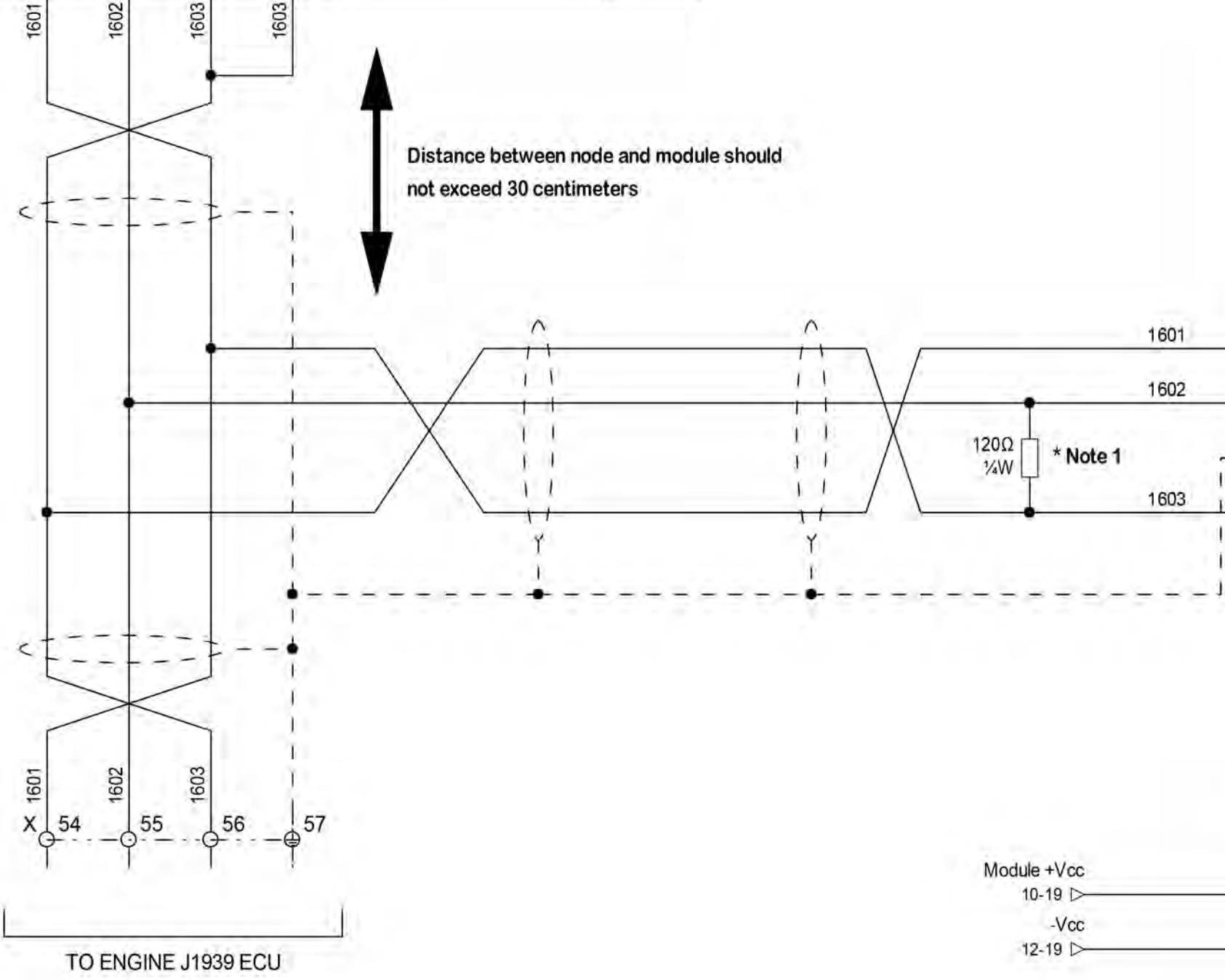
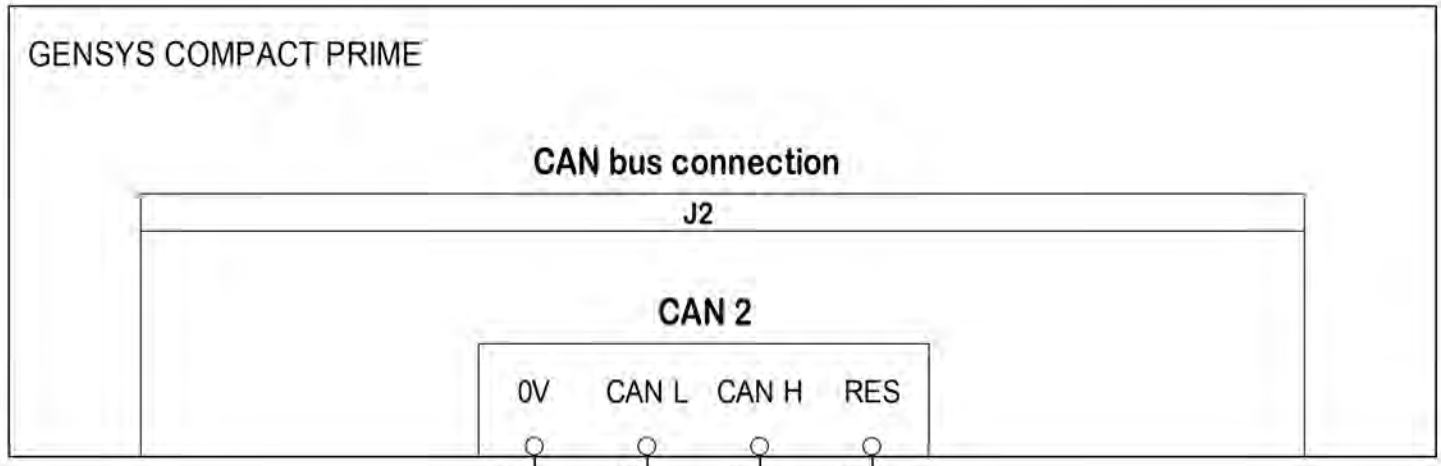
* Note1: Embedded 120-ohm resistance to be bridged to CAN H terminal on first and last bus module only
 ** Note2: CAN 1 is dedicated to inter-module communication. CAN options are available on CAN2



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GENSYS COMPACT PRIME HMI / CORE
 STANDARD WIRING SCHEMATICS

CAN 1 connection



* Note 1

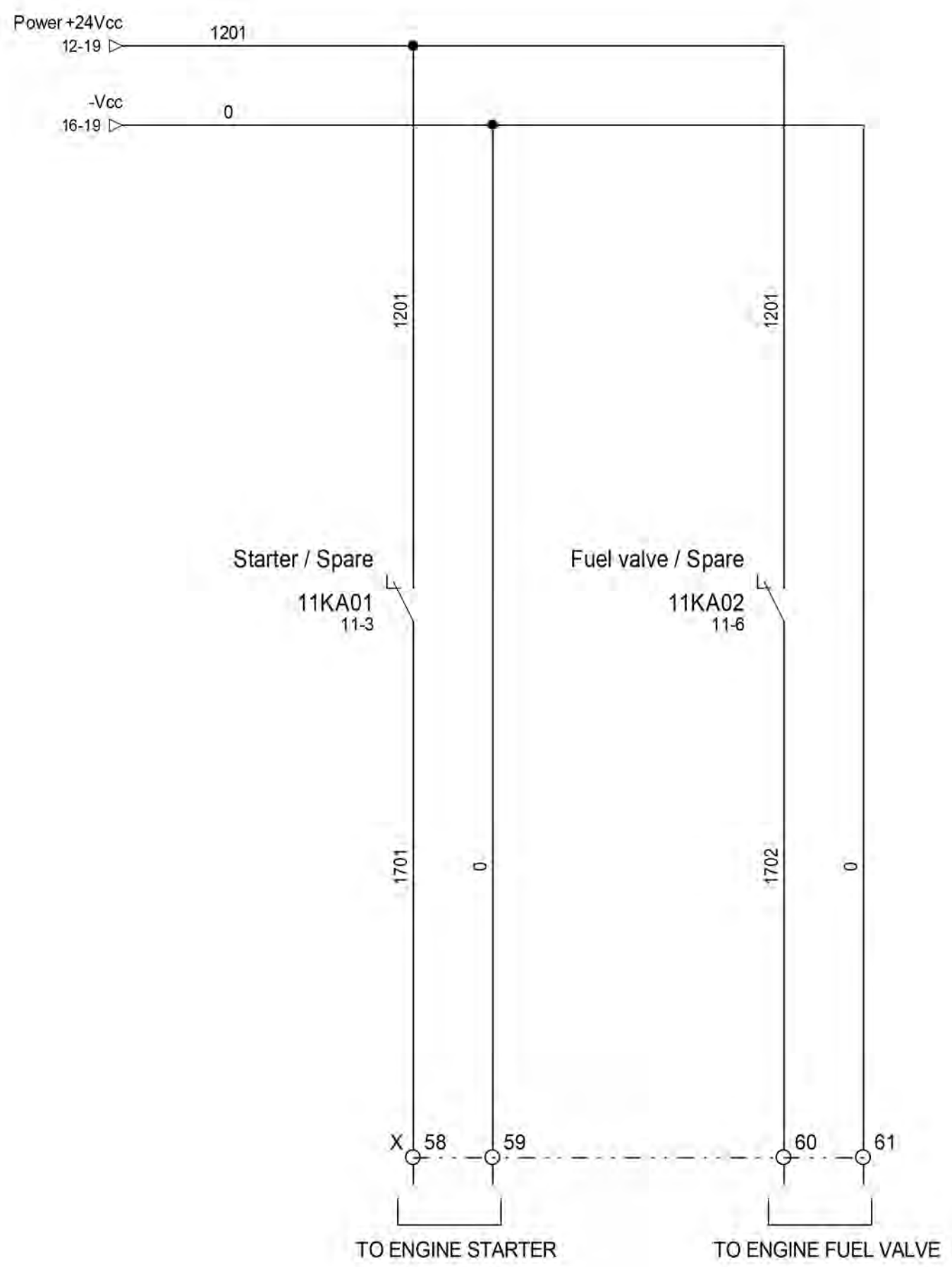
* Note1: Bus end 120-ohm resistor to be placed between CAN L and CAN H terminal on last equipment only



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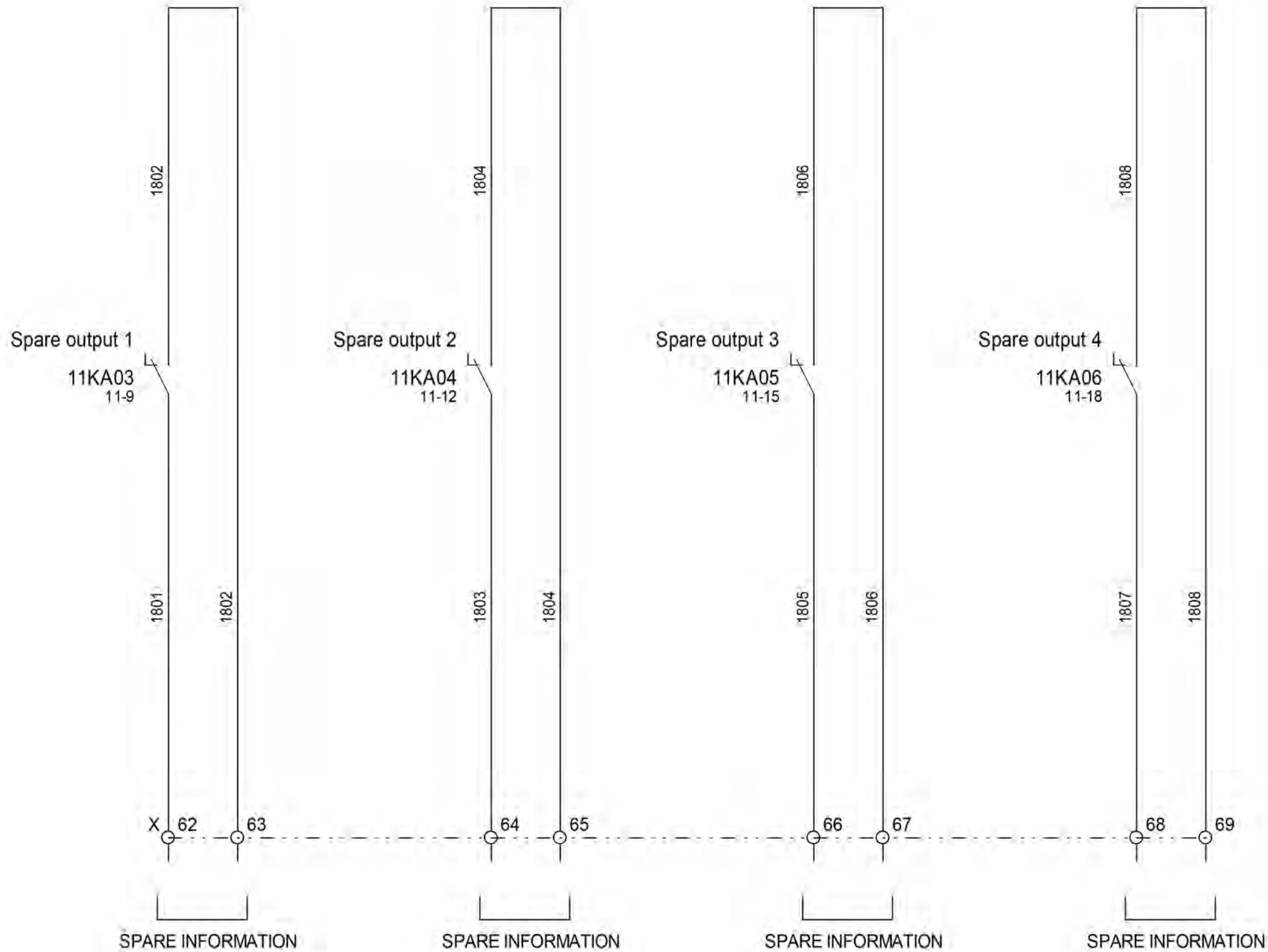
CAN 2 connection



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Engine control



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Digital output terminals