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MASTER COMPACT 1B HMI / CORE  
STANDARD WIRING SCHEMATICS

Module Front view



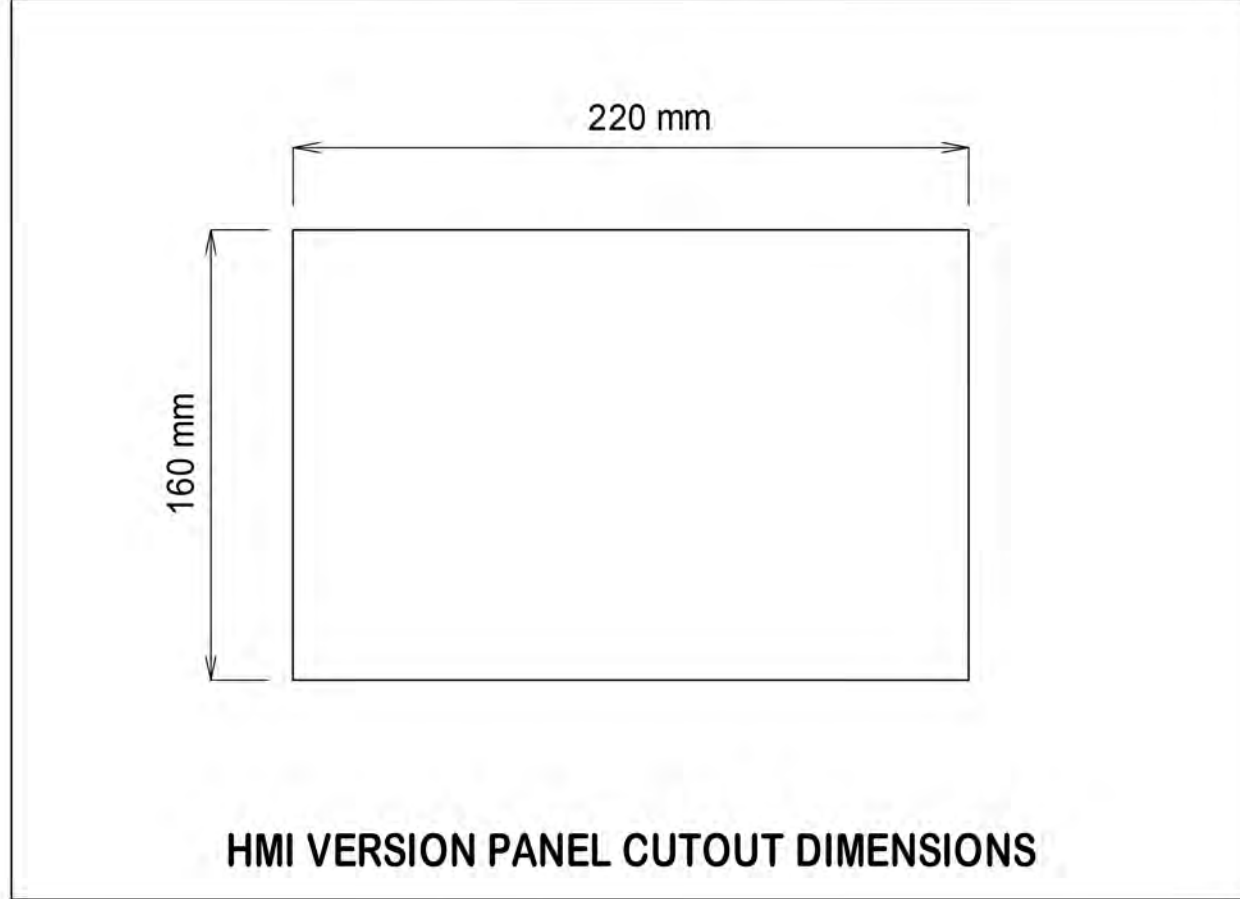
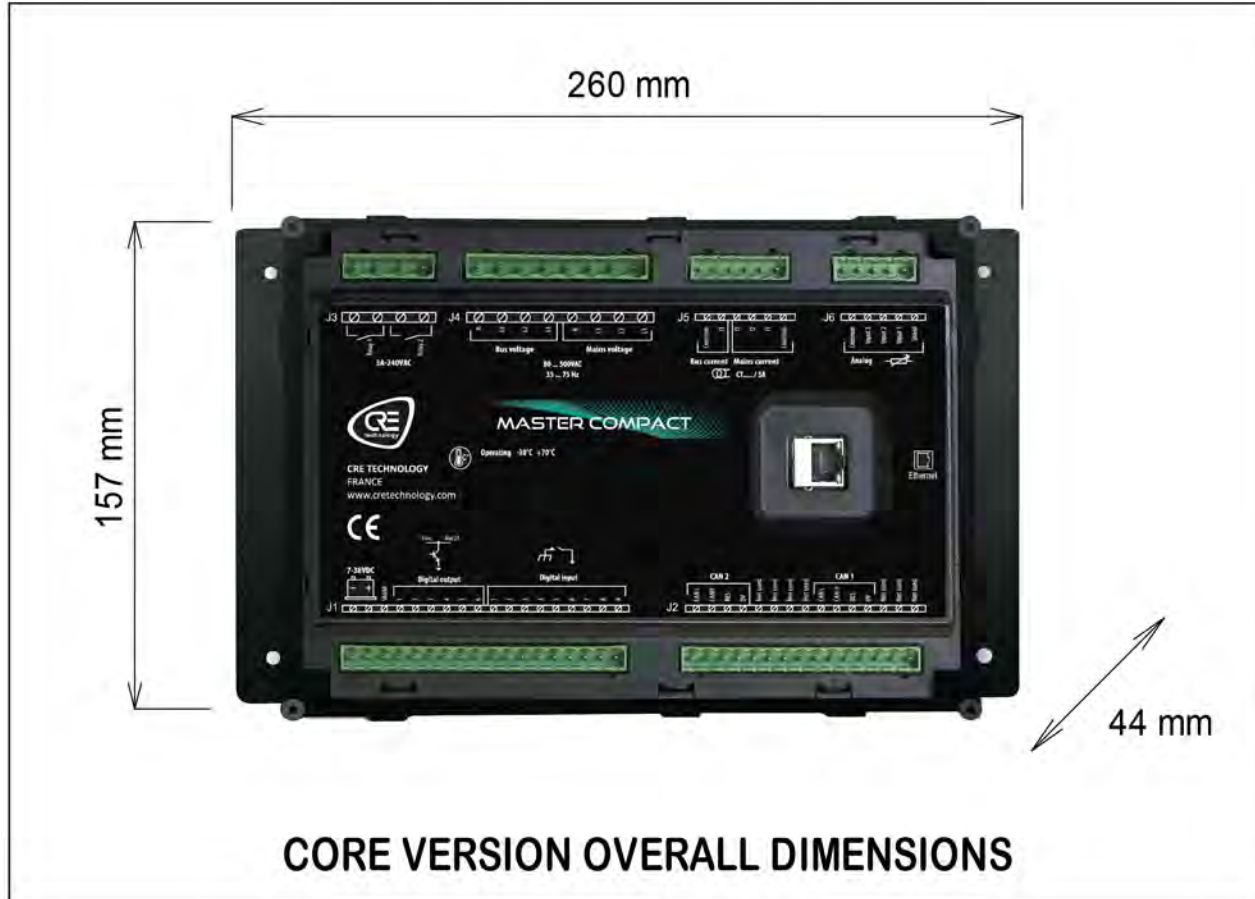
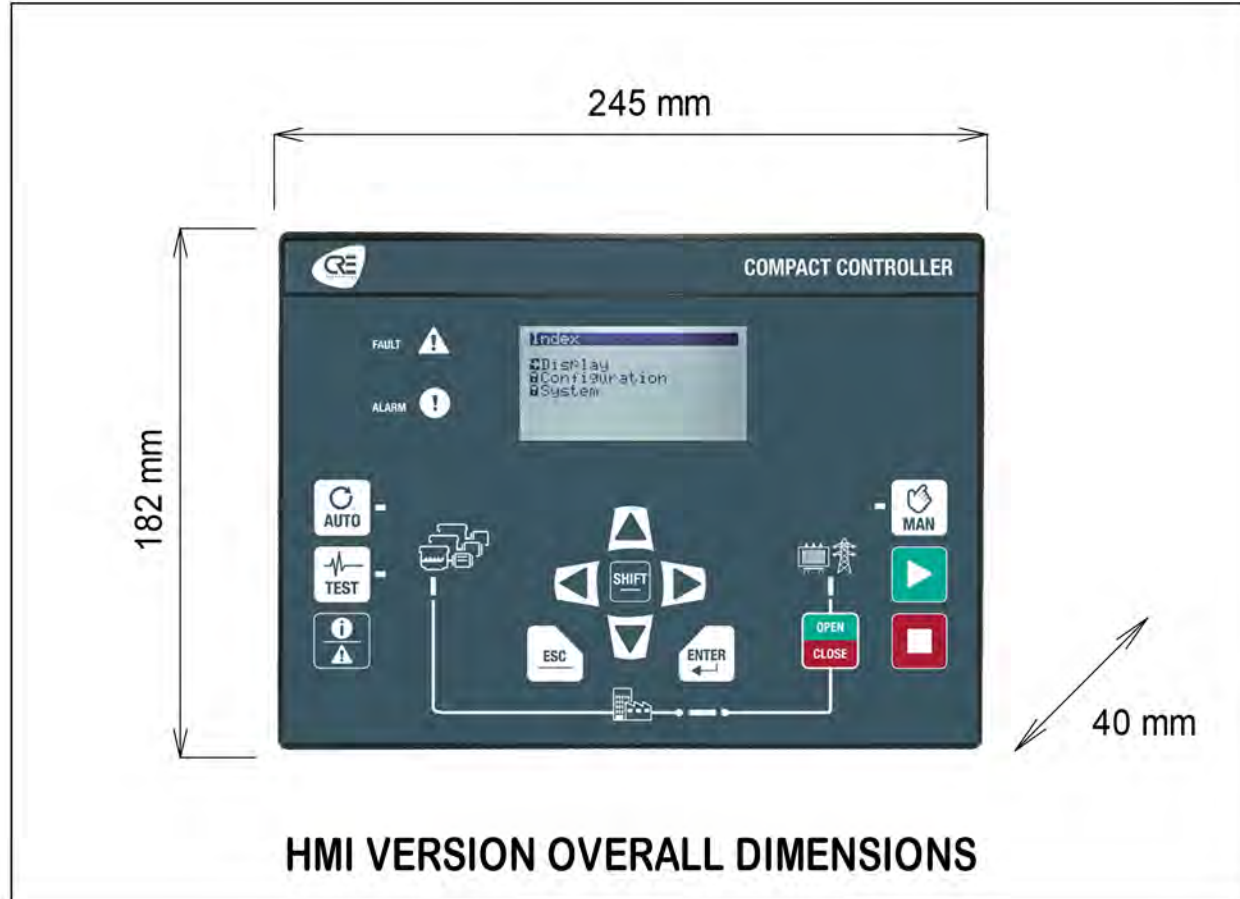


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Module Rear / Core view

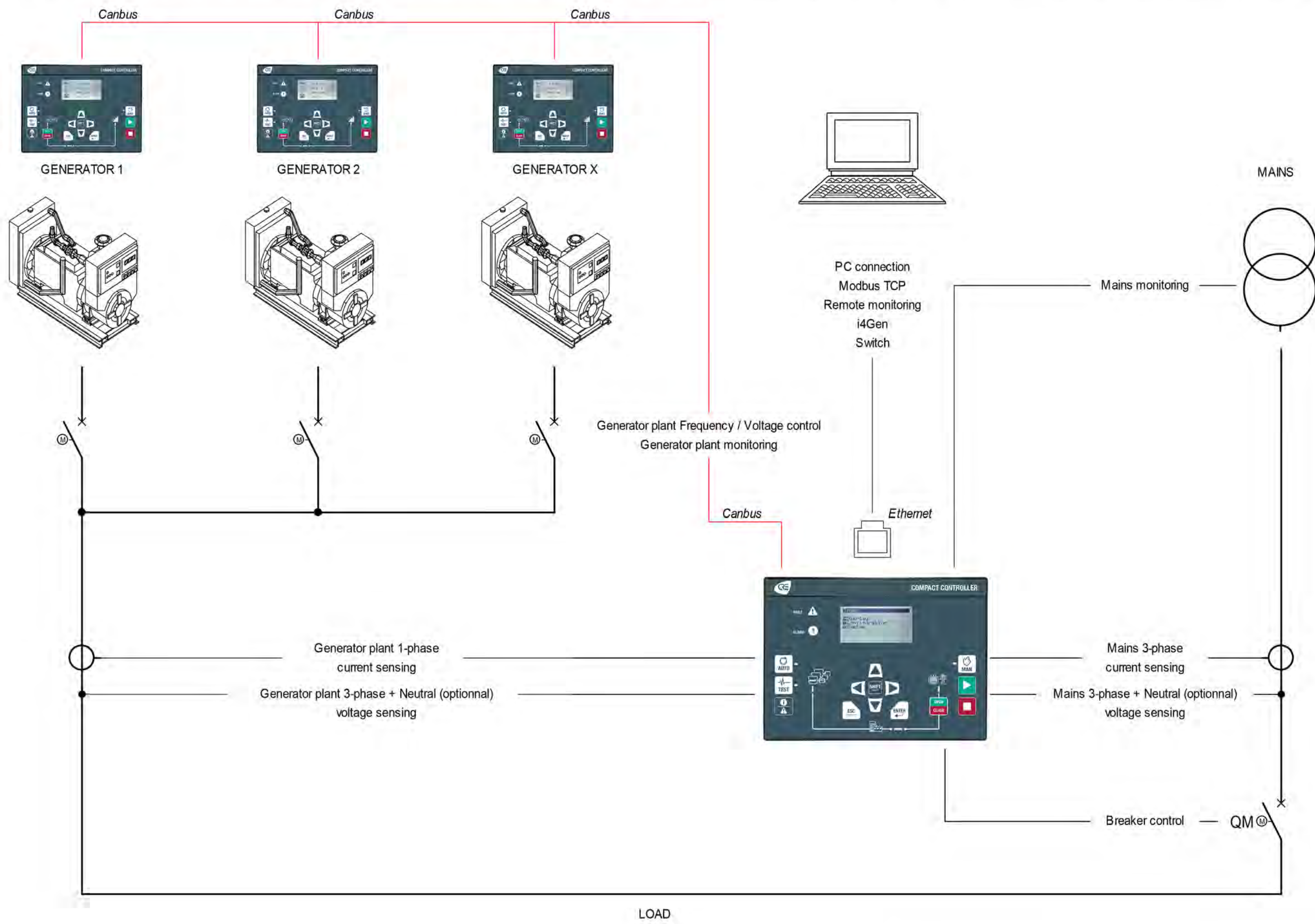




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**MASTER COMPACT 1B HMI / CORE  
STANDARD WIRING SCHEMATICS**

**Dimensions / Panel cut**

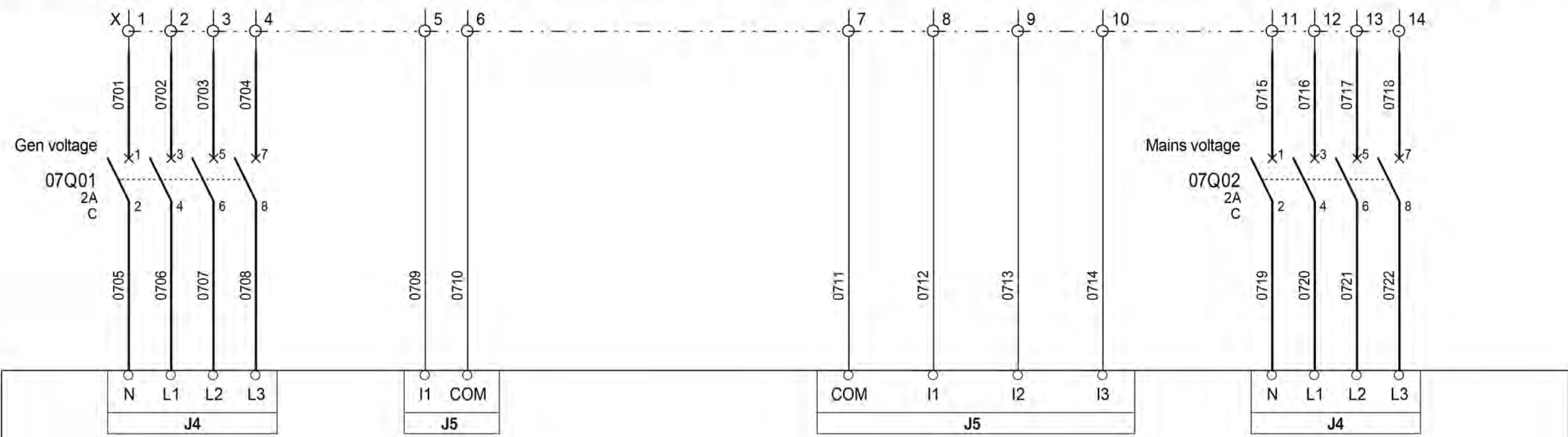
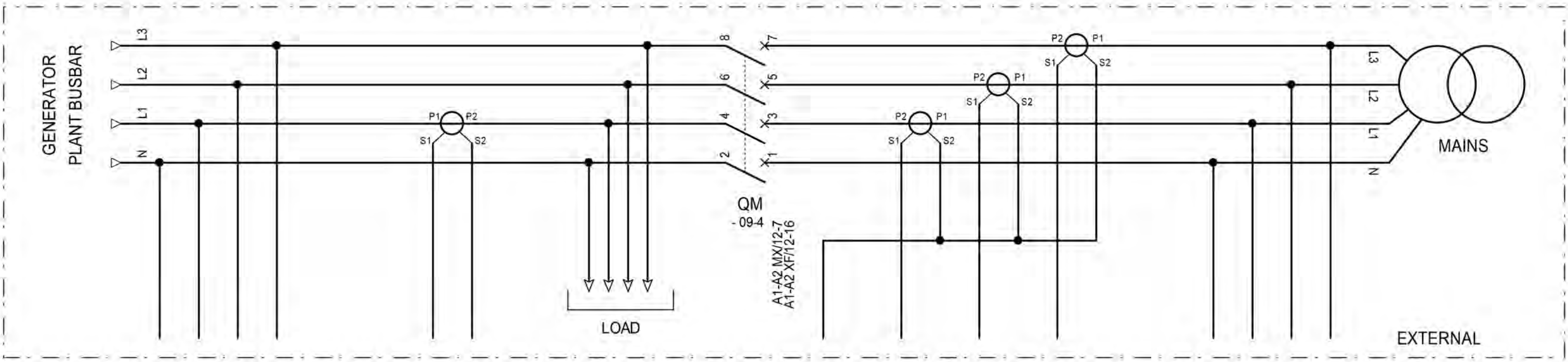


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**MASTER COMPACT 1B HMI / CORE  
STANDARD WIRING SCHEMATICS**

**Single line diagram**





**Generator plant voltage**  
80...500Vac  
35...75Hz

**Generator plant current**  
CT xA / 5A

**Mains current**  
CT xA / 5A

**Mains voltage**  
80...500Vac  
35...75Hz

\* Note 1

\* Note 1

MASTER COMPACT 1B

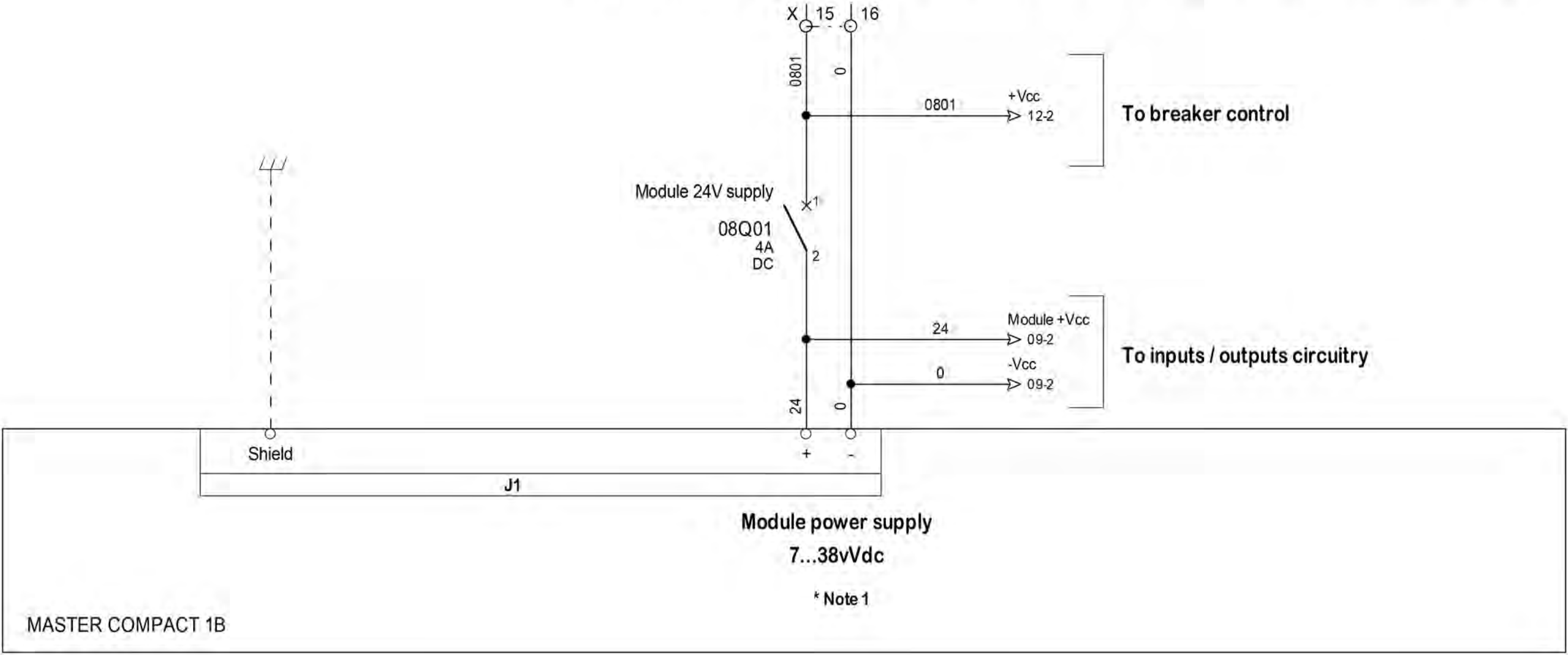
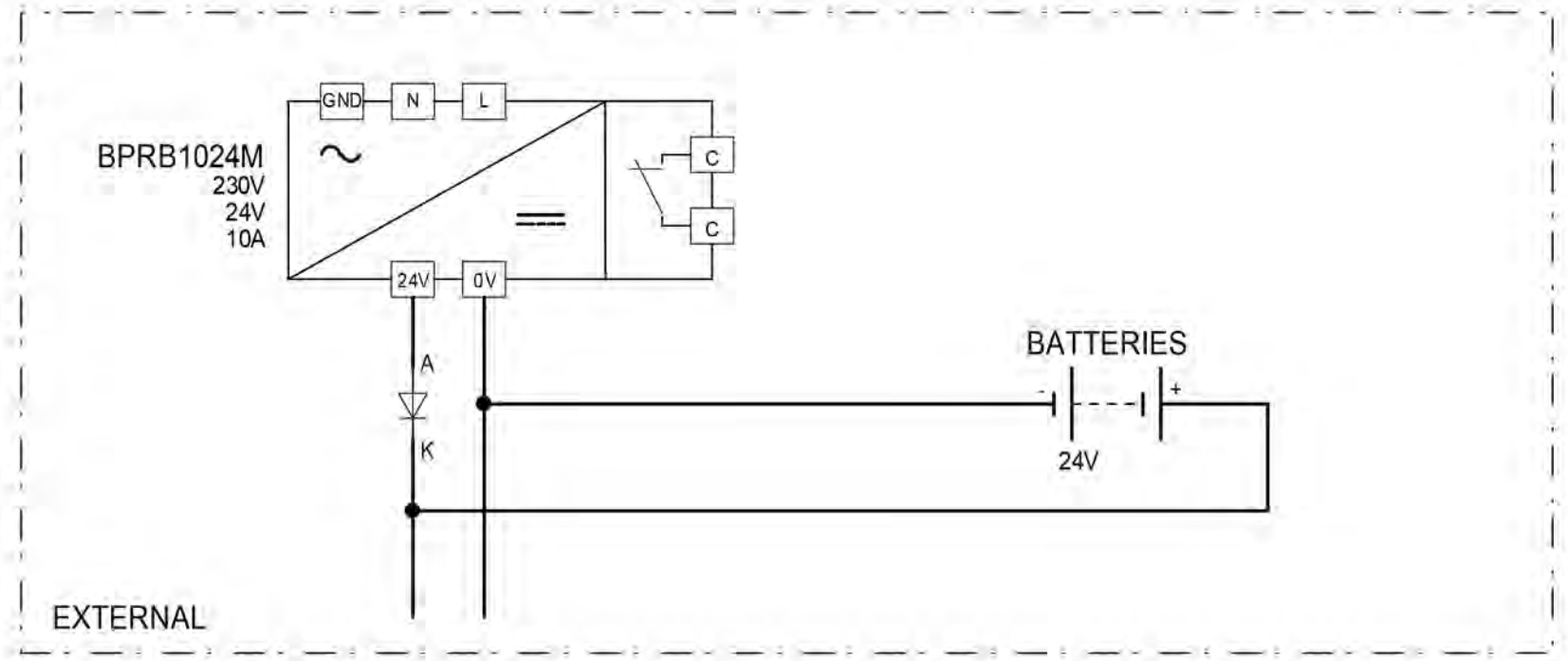
\* Note1: Shall voltage transformers be required, refer to technical documentation



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**Voltages and currents sensing**



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

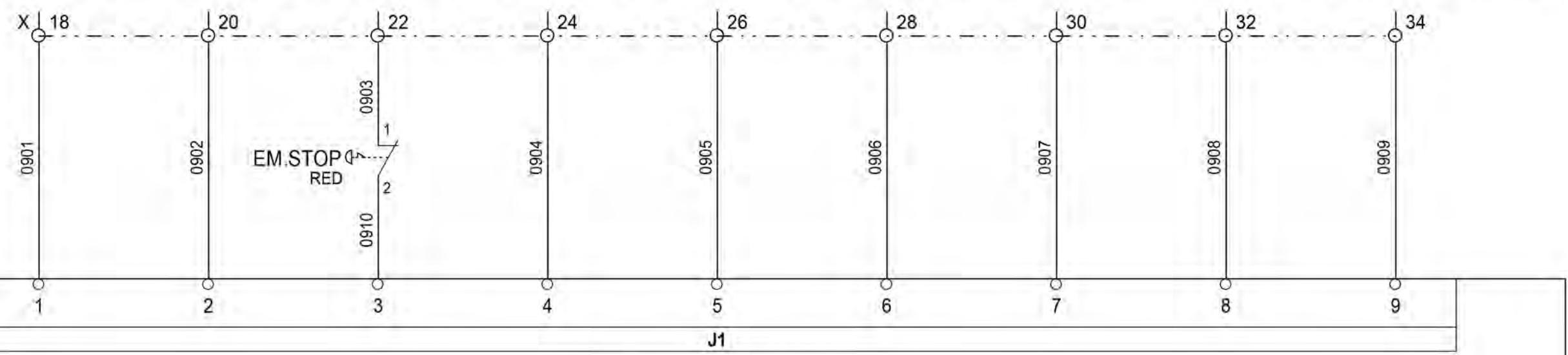
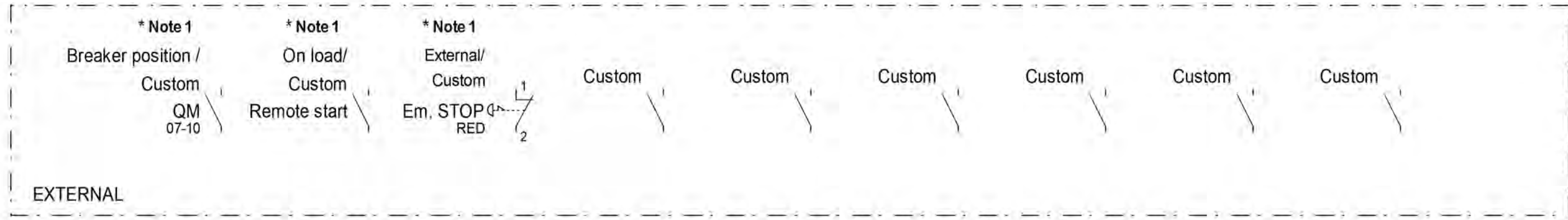
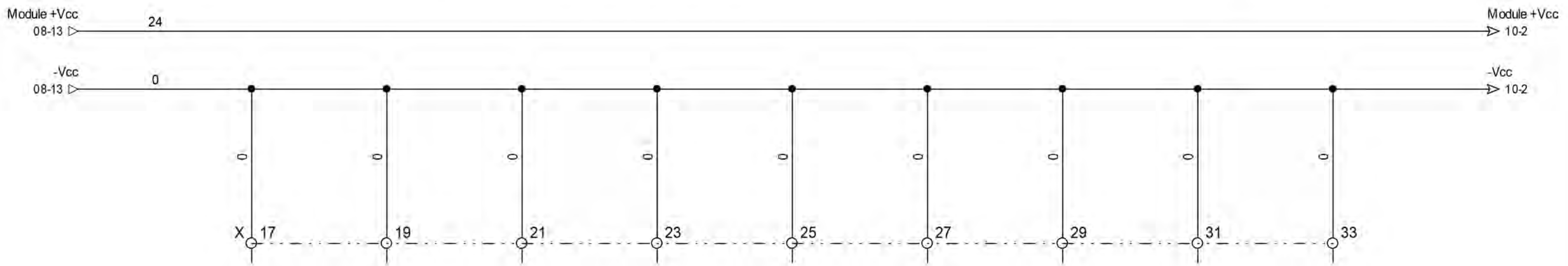


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Power supply and shield connection





**Configurable digital inputs**

MASTER COMPACT 1B

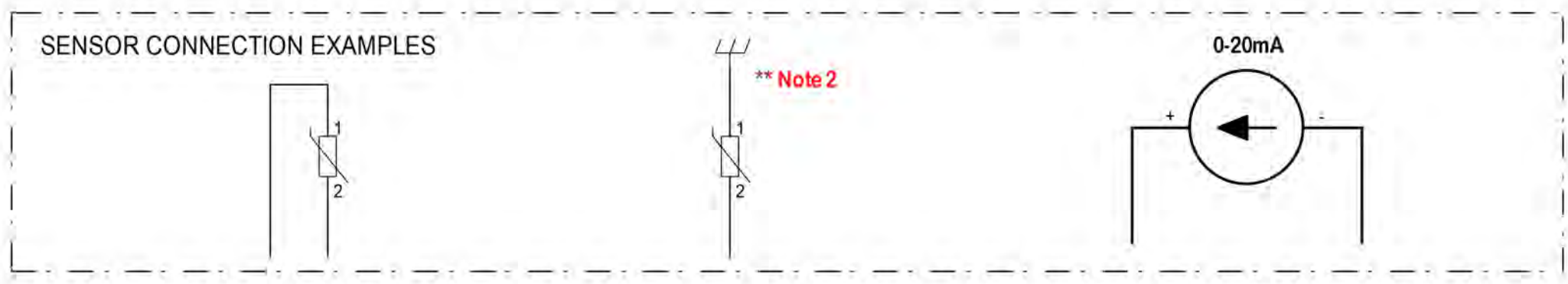
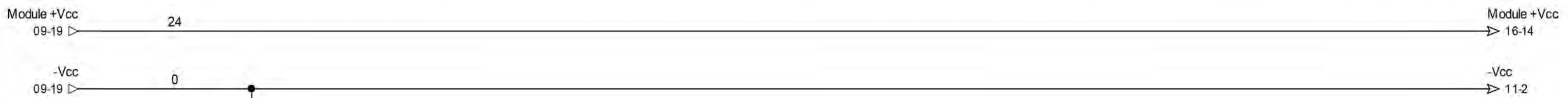
\* Note 1: Default setting, can be adjusted via PC software as desired



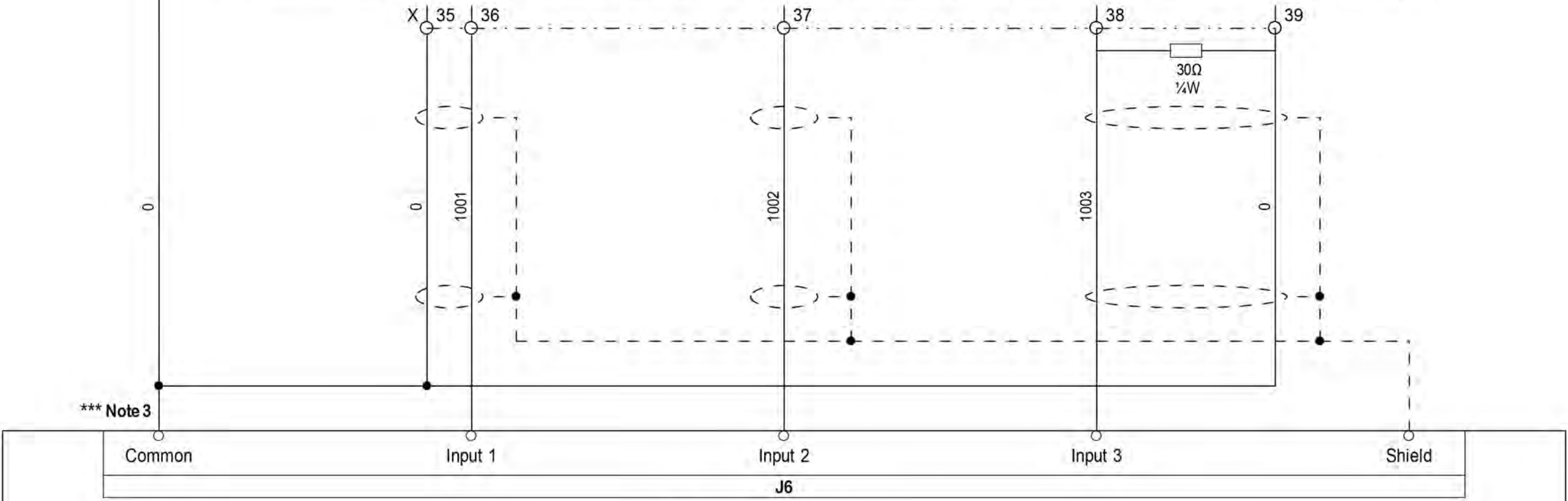
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Digital inputs



**\*\* Note 2**



**\*\*\* Note 3**

**Configurable analog inputs**

**\* Note 1**

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\* 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

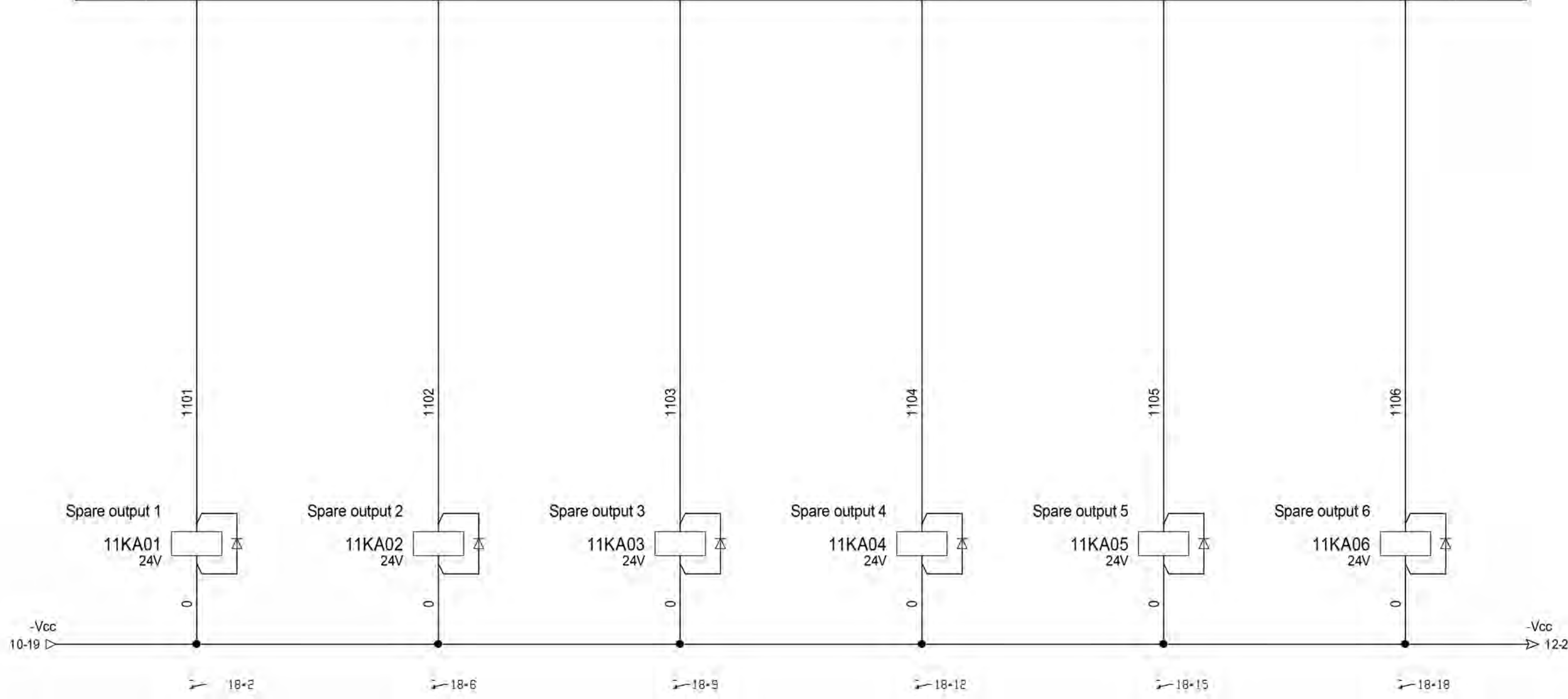
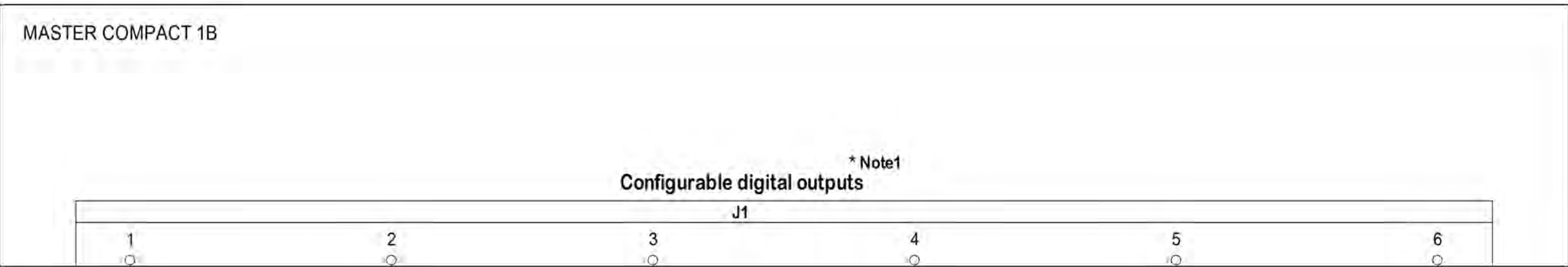


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**Analog inputs**





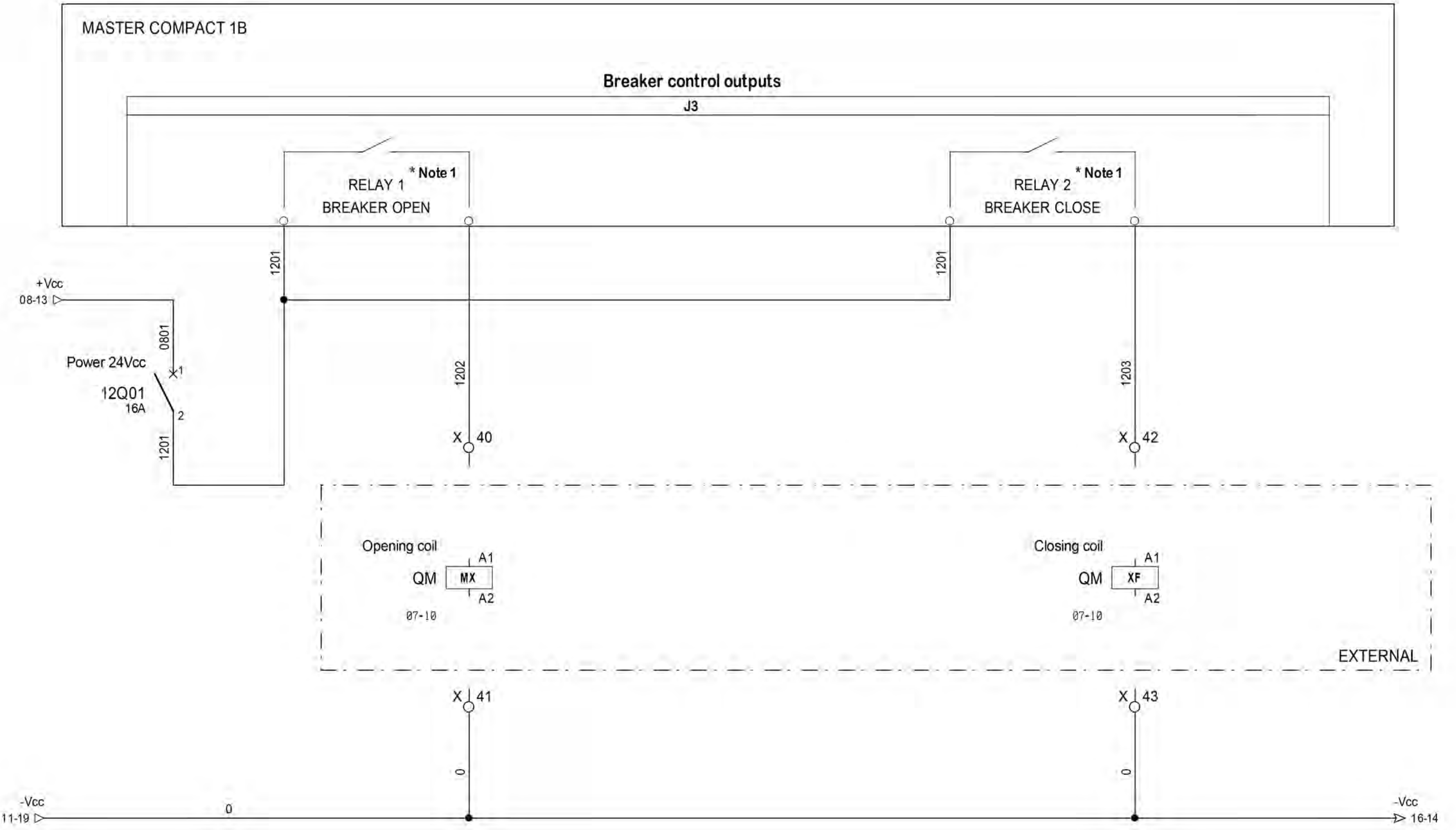
\* Note1: Maximum output current is 1.8 Amps



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MASTER COMPACT 1B HMI / CORE  
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Digital outputs



\* Note1: Default functions, adjustable via PC software



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Breaker control



**NOT USED**



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 STANDARD WIRING SCHEMATICS**

**Speed sensing**

**NOT USED**



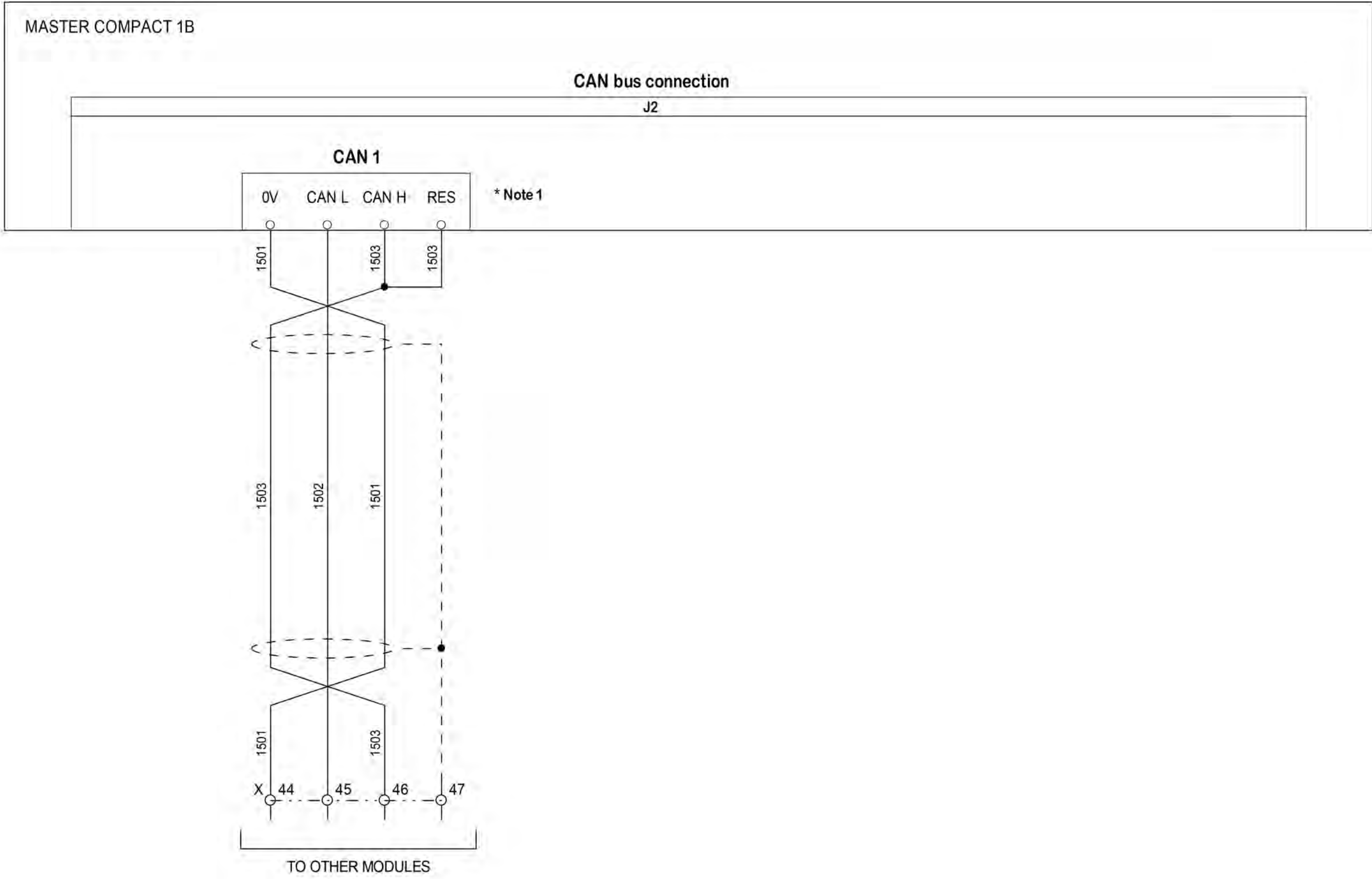
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**MASTER COMPACT 1B HMI / CORE  
 STANDARD WIRING SCHEMATICS**

**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

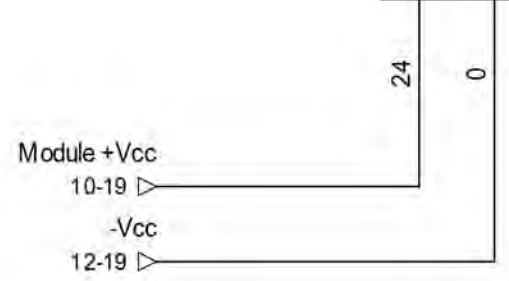
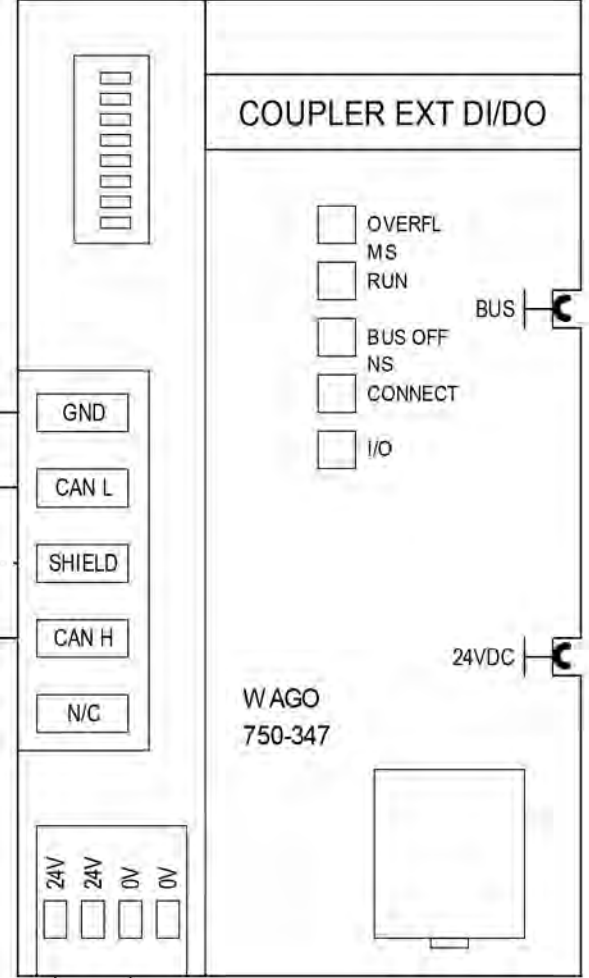
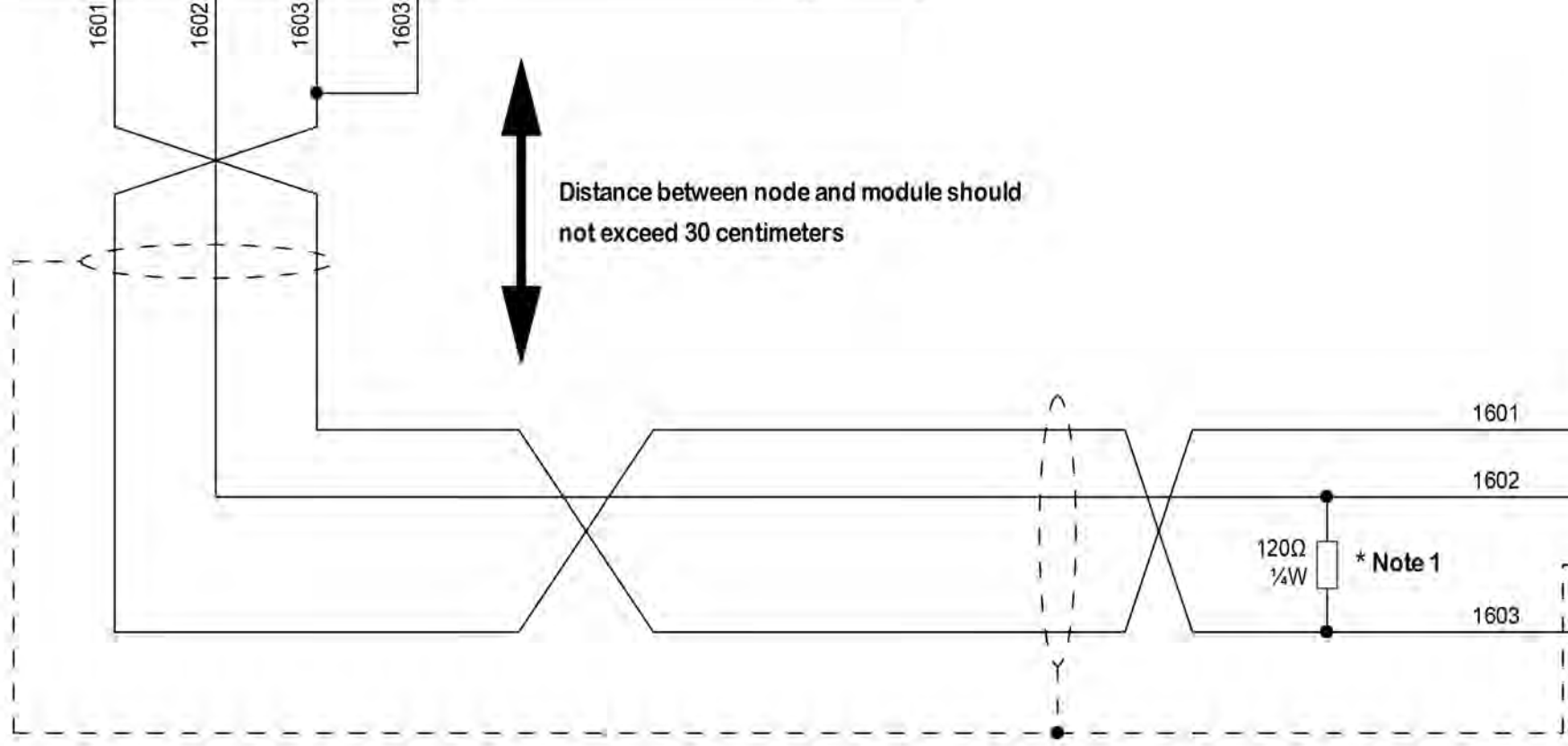
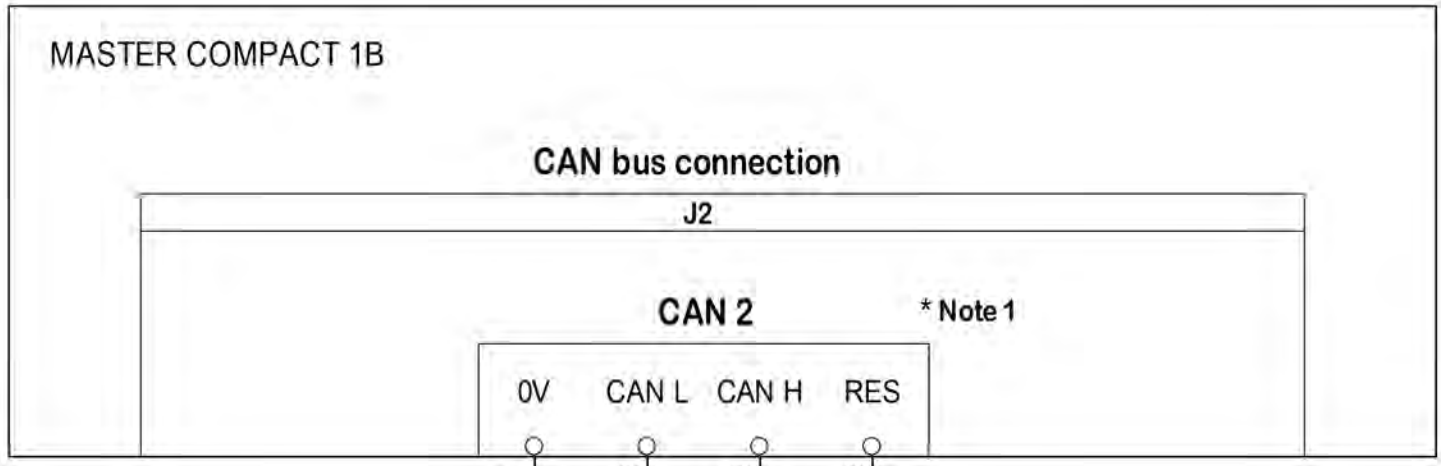
\*\* Note2: CAN 1 is dedicated to inter-module communication, CAN options are available on CAN2



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MASTER COMPACT 1B HMI / CORE  
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CAN 1 connection



\* 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



**NOT USED**

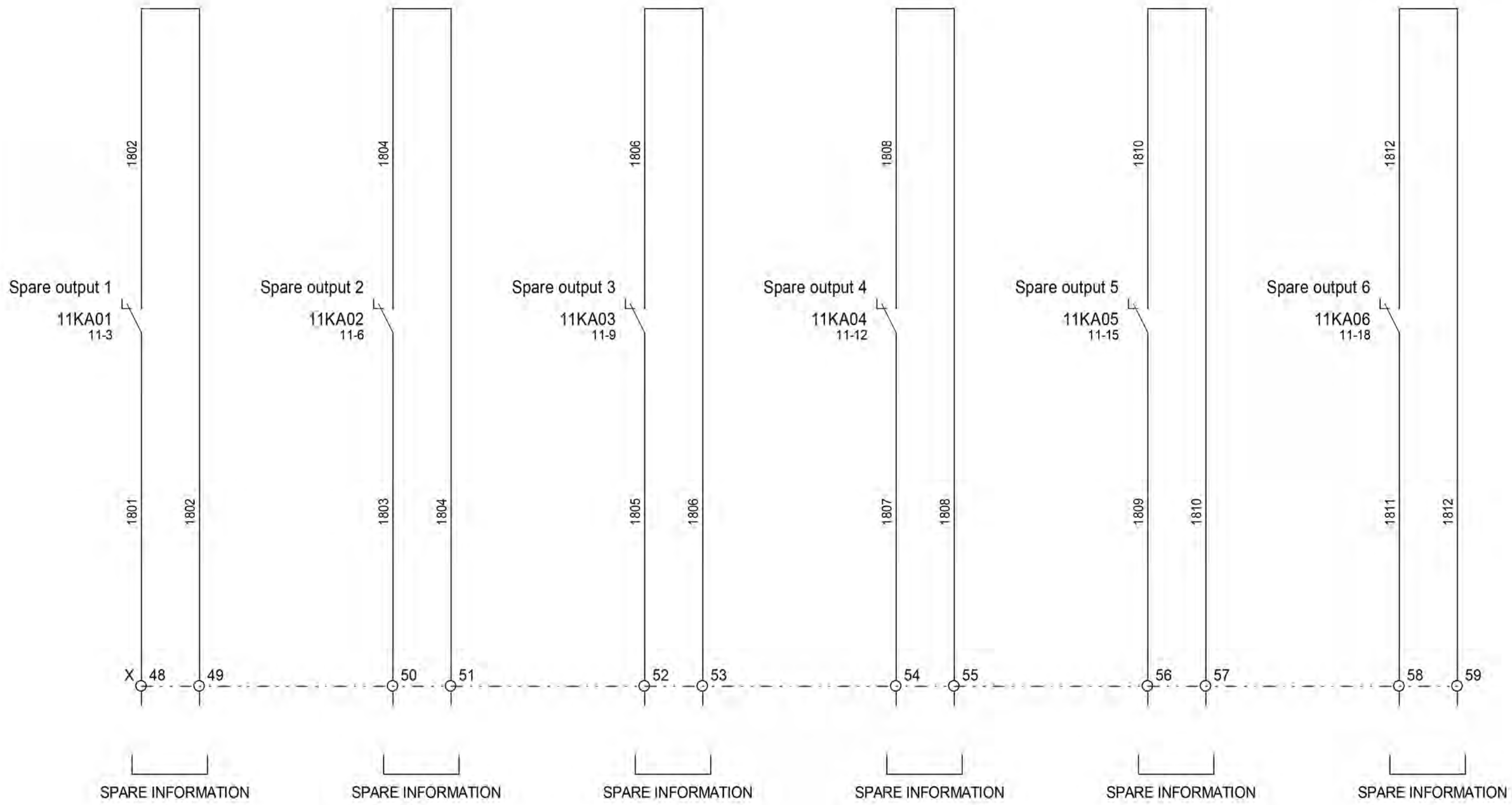


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**Engine control**



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Digital output terminals