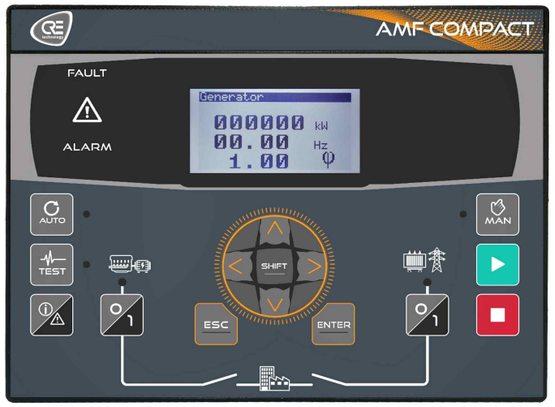
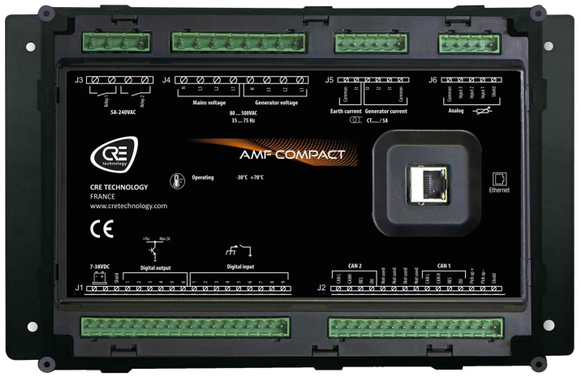




A	FIRST RELEASE	19/05/2019	DB		
REVISION	MODIFICATION	DATE	DRAWN	CHECKED	APPROVED

Website: www.cretechnology.com
Email: info@cretechnology.com
Support: support@cretechnology.com
Skype: support-cretechnology.com

DRAWN: DB

CHECKED: MM

DATE: 09/05/2019

CRE TECHNOLOGY

130, allée Charles-Victor Naudin

Zone des templiers Sophia-Antipolis - 06410 Biot - France

Phone: +33 (0) 4 92 38 86 82 Fax: +33 (0) 4 92 38 86 83

STANDARD WIRING SCHEMATICS

AMF COMPACT HMI / CORE

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

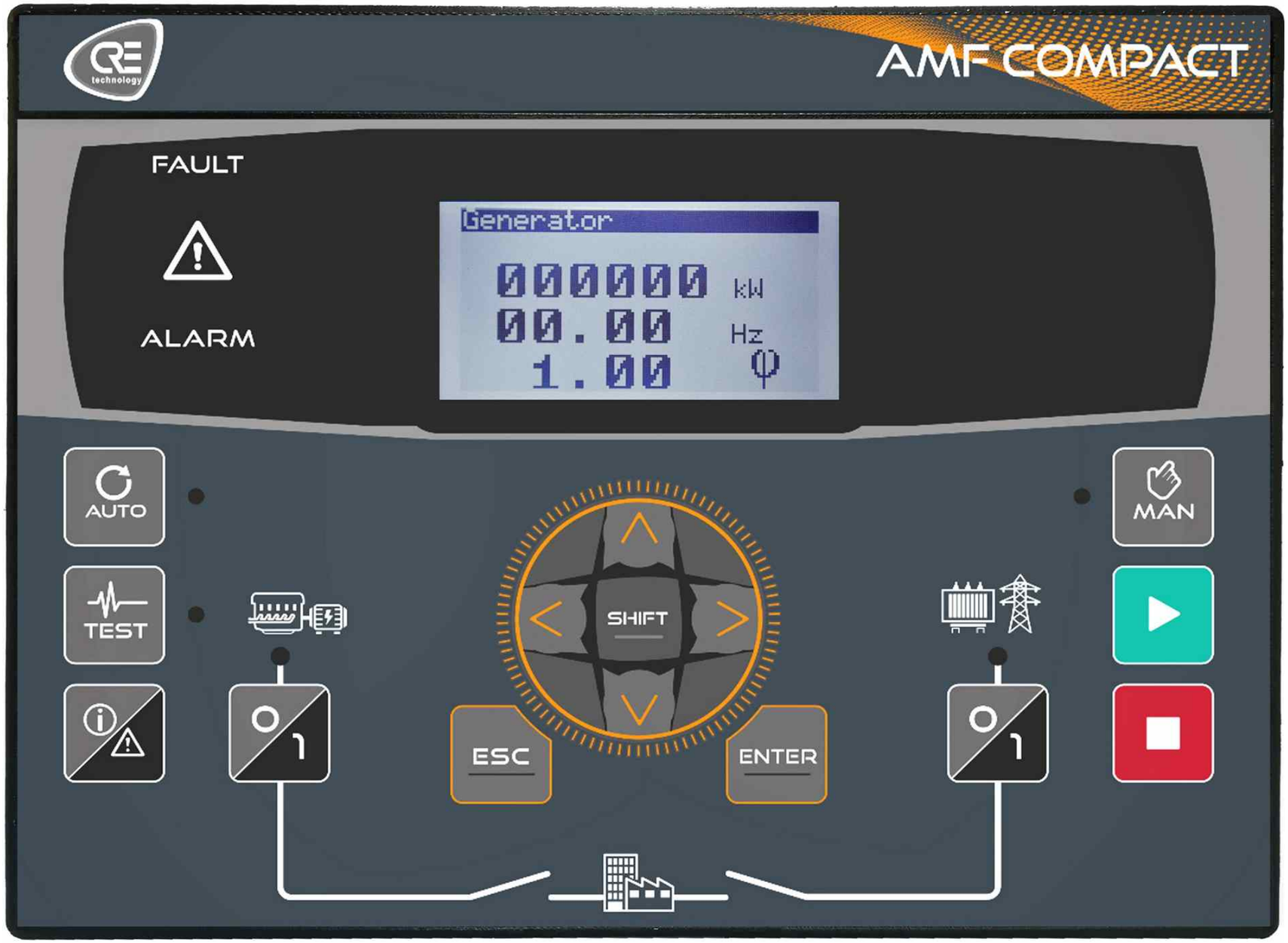
FOLIO	DESIGNATION
01	Title page
02	Sheet list
03	Module Front view
04	Module Rear / Core view
05	Dimensions / Panel cut
06	Single line diagram
07	Voltages and currents sensing
08	Power supply and shield connection
09	Digital inputs
10	Analog inputs
11	Digital outputs
12	Breaker control
13	Speed sensing
14	Speed & voltage control
15	CAN 1 connection
16	CAN 2 connection
17	Engine control
18	Digital output terminals

FOLIO	DESIGNATION

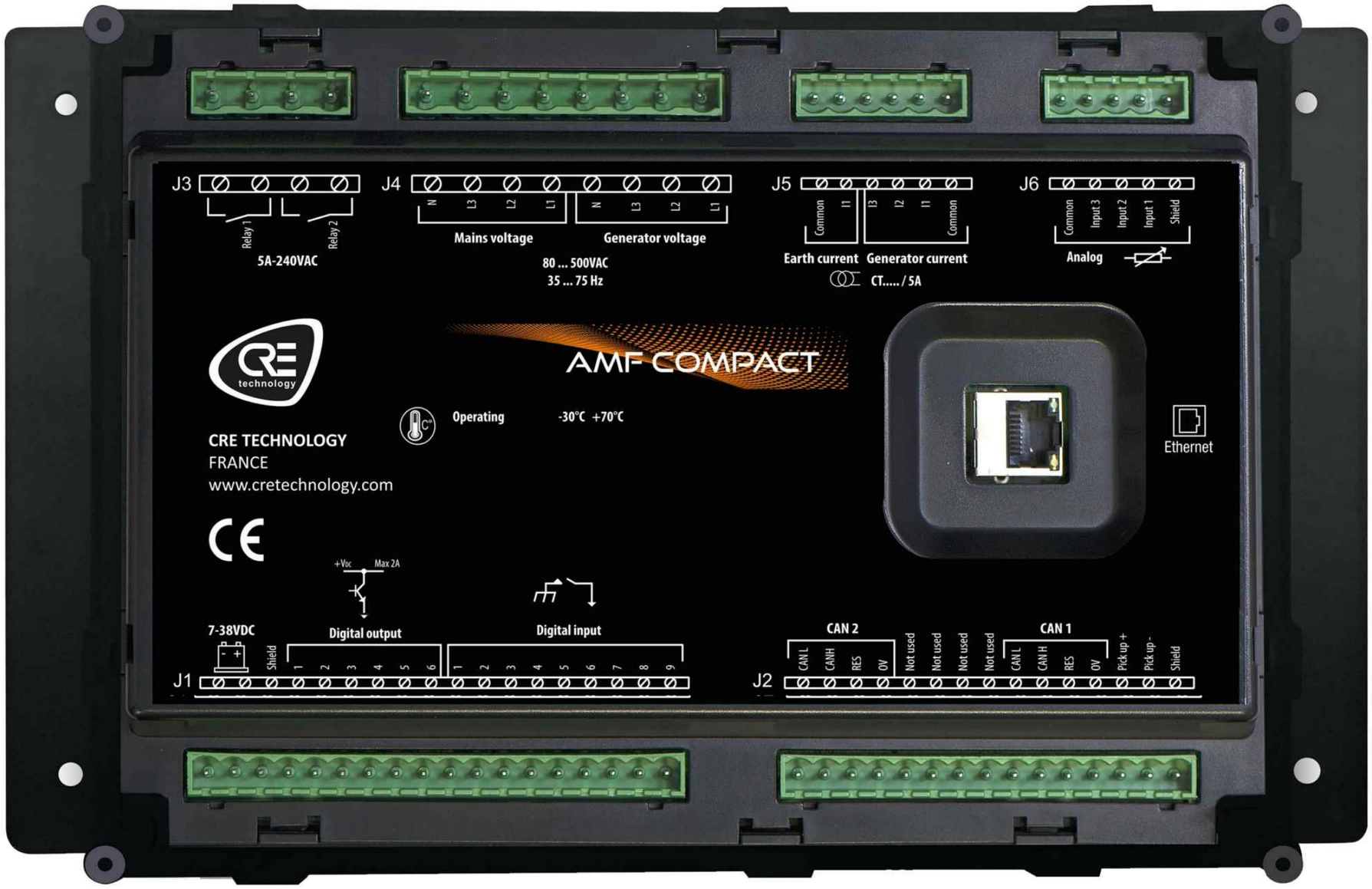
Created: 09/05/2019				
Drawing n°: A56-AMF-00 / 10 - DWG - 001				
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB
	REVISION	DATE	MODIFICATION	DRAWN

AMF COMPACT HMI / CORE
STANDARD WIRING SCHEMATICS

Sheet list



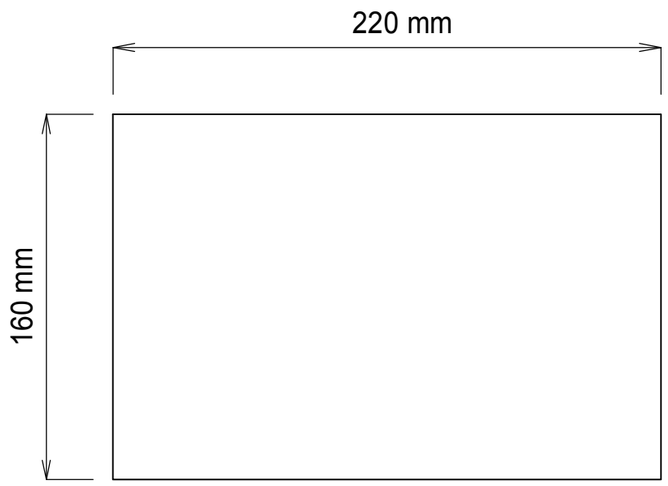
Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Module Front view	PAGE 03 02 04
Drawing n°: A56-AMF-00 / 10 - DWG - 001							
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			



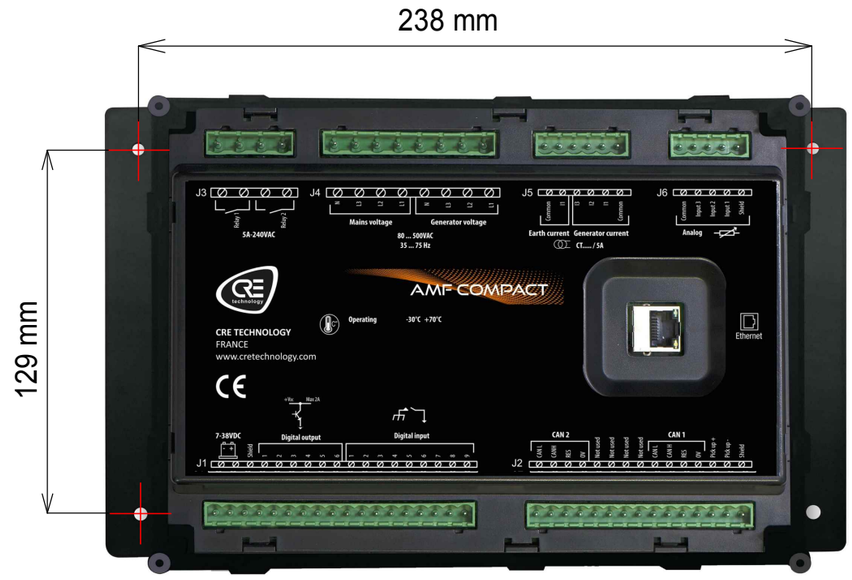
Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Module Rear / Core view	PAGE 04 03 05
Drawing n°: A56-AMF-00 / 10 - DWG - 001							
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			

HMI VERSION OVERALL DIMENSIONS

CORE VERSION OVERALL DIMENSIONS

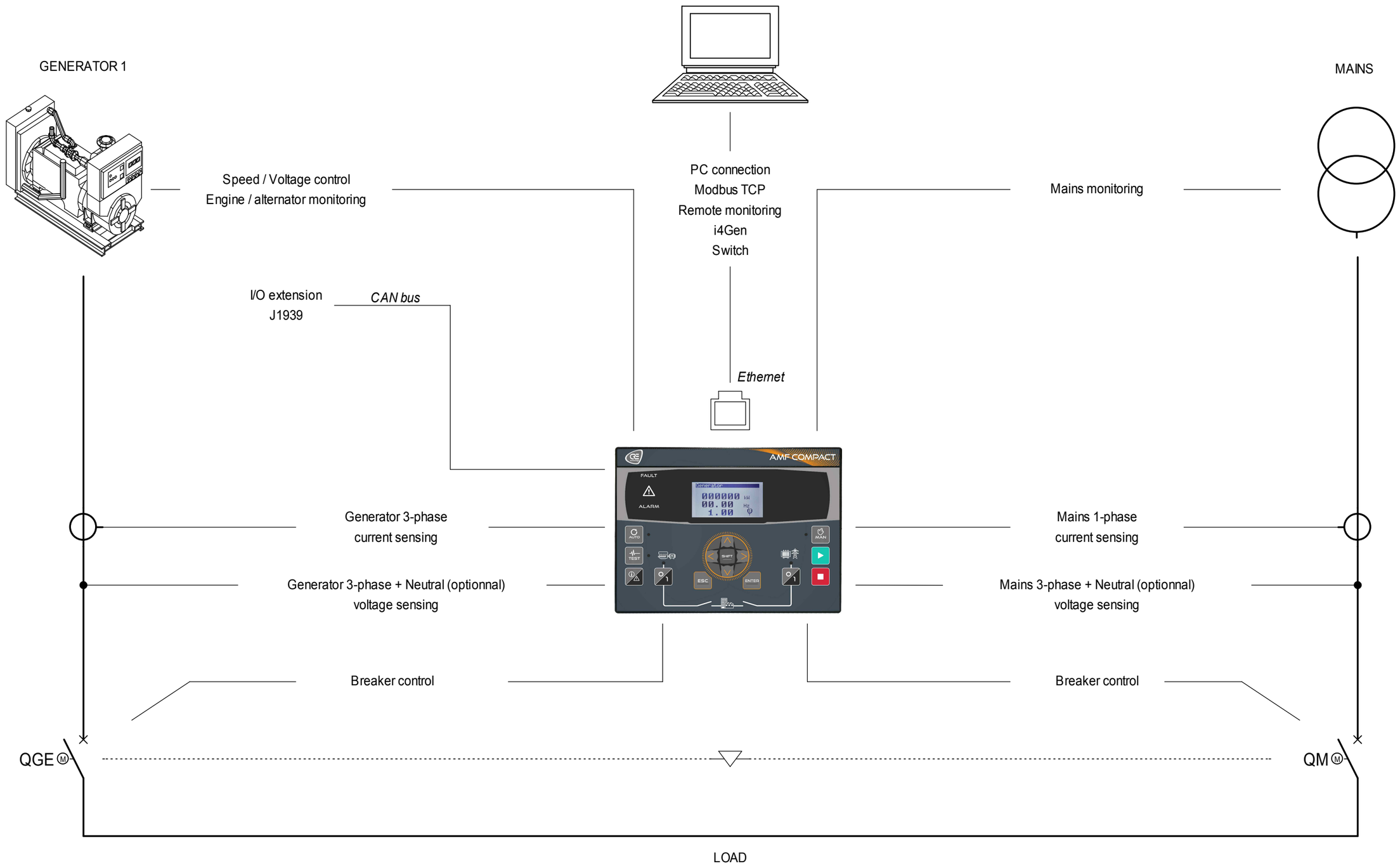


HMI VERSION PANEL CUTOUT DIMENSIONS



CORE VERSION MOUNTING SCREWS DIMENSIONS

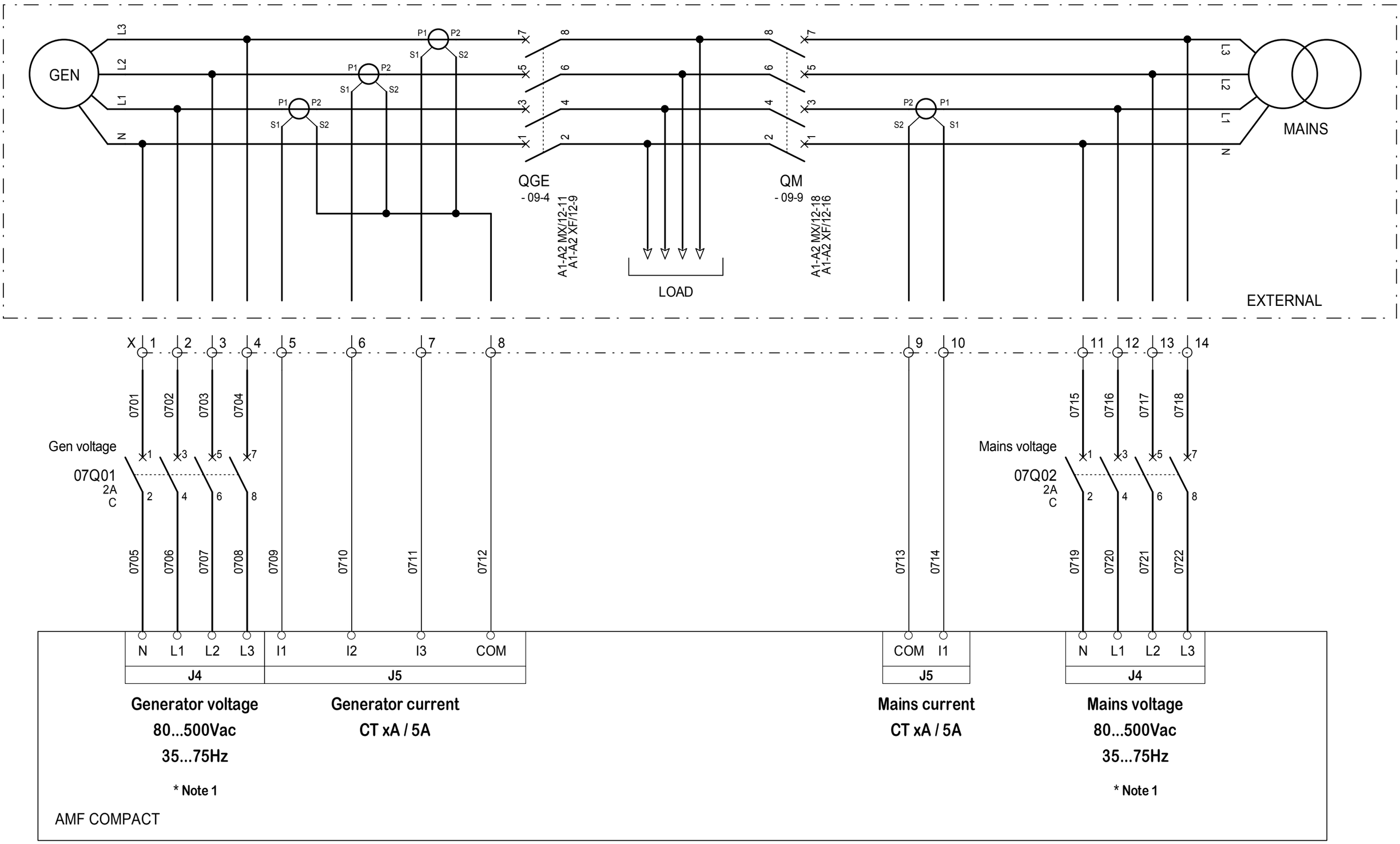
Created: 09/05/2019					AMF COMPACT HMI / CORE	Dimensions / Panel cut	PAGE
Drawing n°: A56-AMF-00 / 10 - DWG - 001					STANDARD WIRING SCHEMATICS		05
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			04 06
	REVISION	DATE	MODIFICATION	DRAWN			



Created: 09/05/2019					
Drawing n°: A56-AMF-00 / 10 - DWG - 001					
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB	
	REVISION	DATE	MODIFICATION	DRAWN	

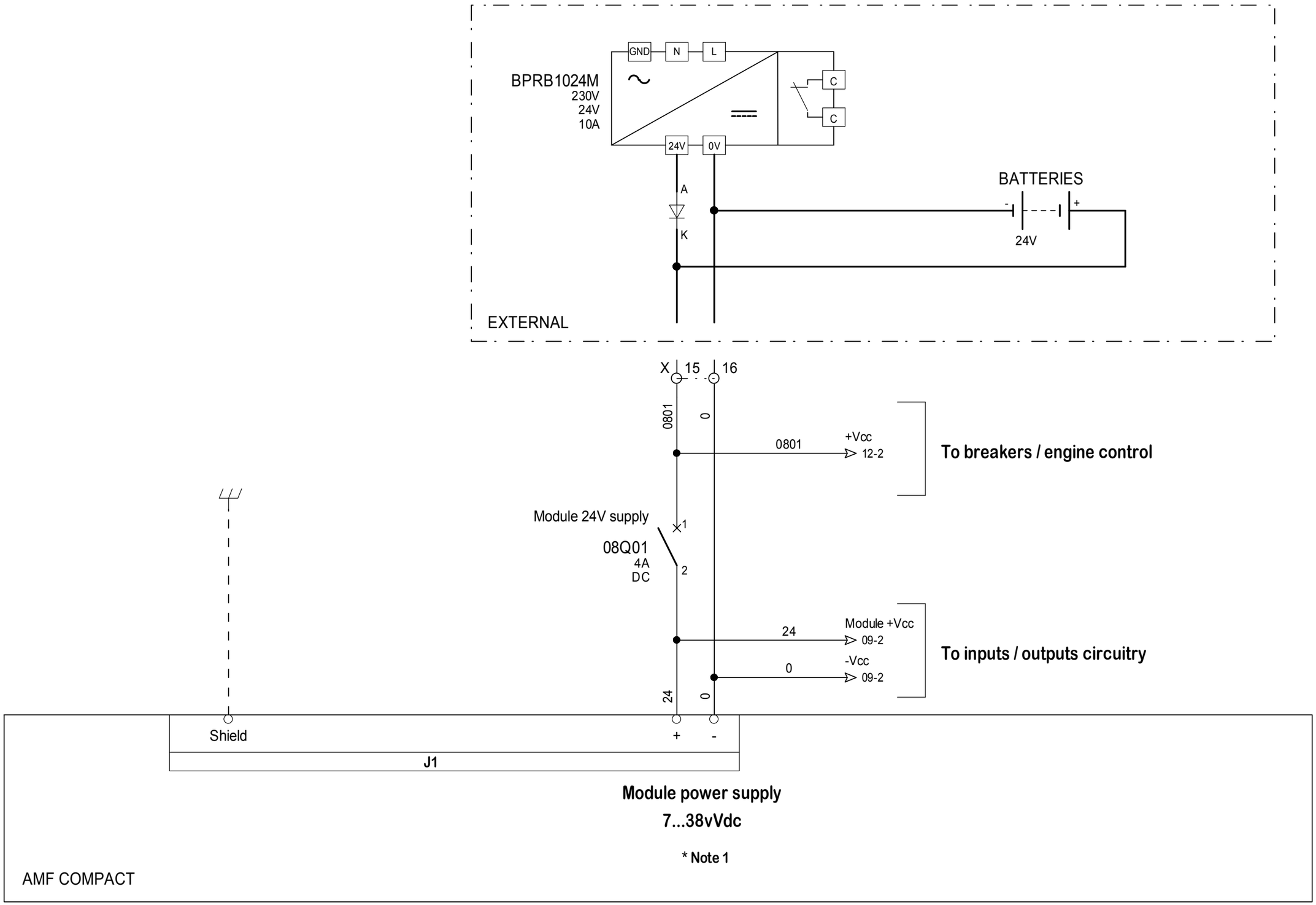
AMF COMPACT HMI / CORE
STANDARD WIRING SCHEMATICS

Single line diagram



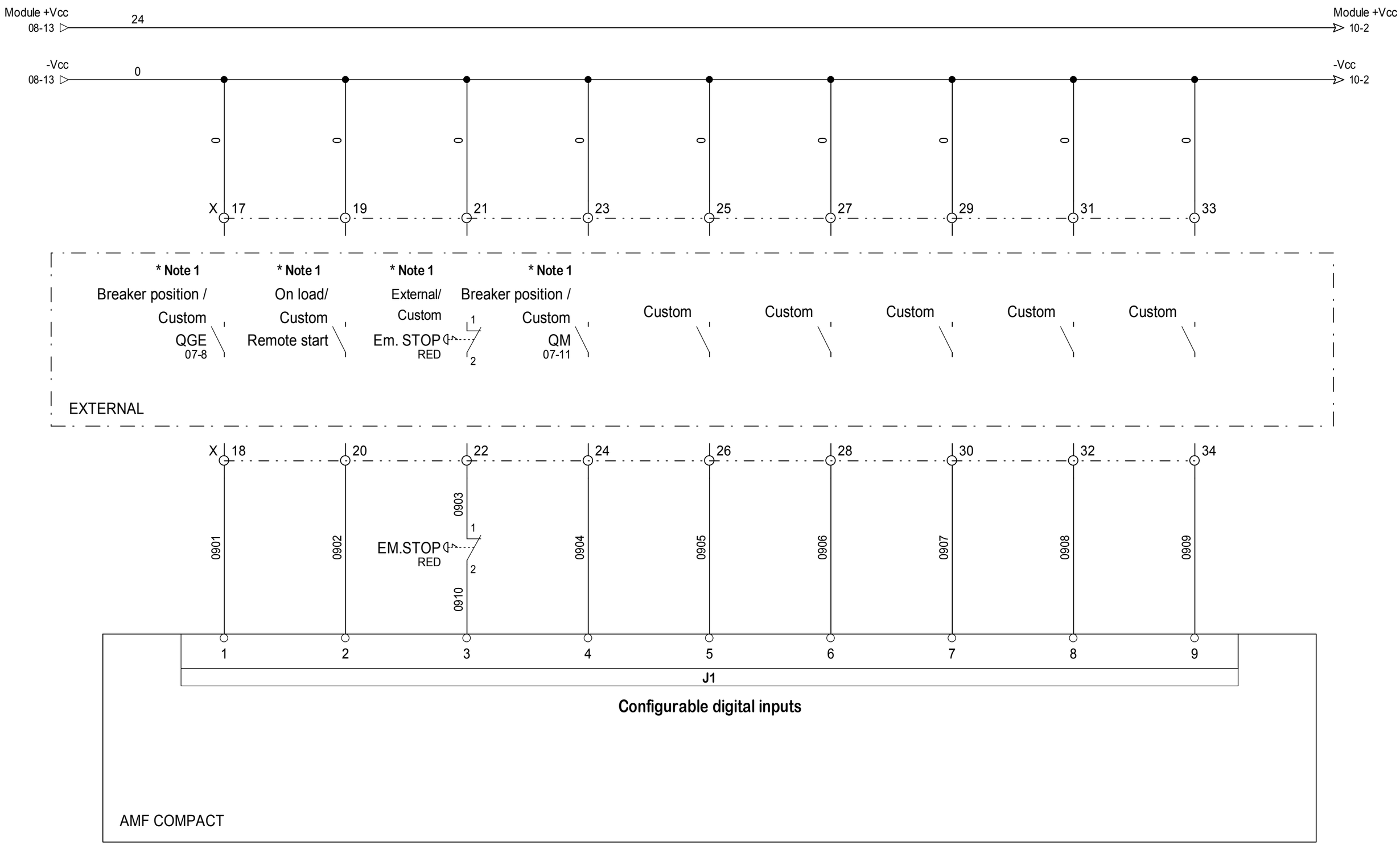
* Note1: Shall voltage transformers be required, refer to technical documentation

Created: 09/05/2019					AMF COMPACT HMI / CORE	Voltages and currents sensing	PAGE 07
Drawing n°: A56-AMF-00 / 10 - DWG - 001					STANDARD WIRING SCHEMATICS		06 08
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			



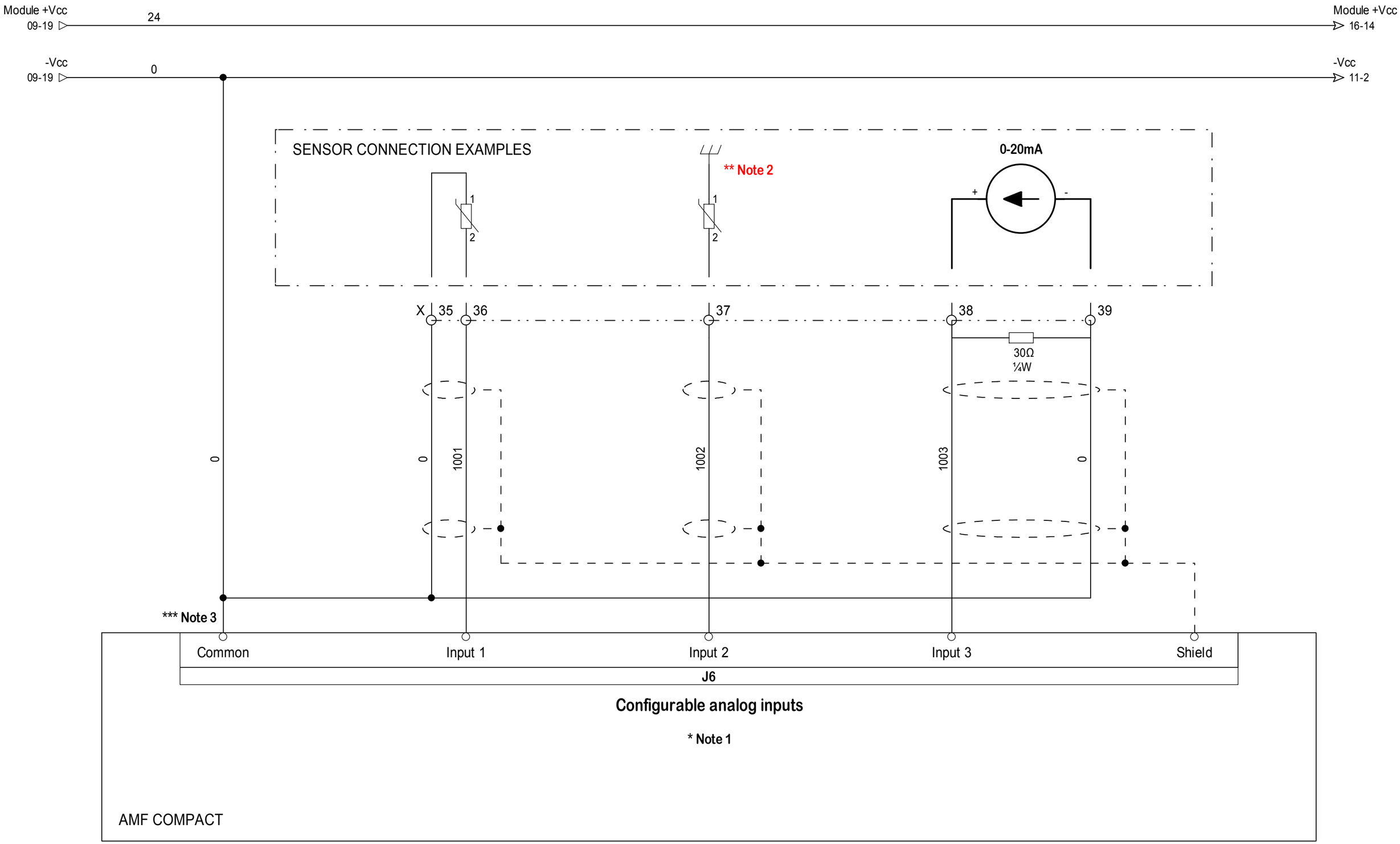
* Note1: Example given with use of a 24Vdc battery charger, but applies identically with 12Vdc

	Created: 09/05/2019					AMF COMPACT HMI / CORE	PAGE
	Drawing n°: A56-AMF-00 / 10 - DWG - 001					STANDARD WIRING SCHEMATICS	Power supply and shield connection	08
	Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			07 09
		REVISION	DATE	MODIFICATION	DRAWN		



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

Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Digital inputs	PAGE 09 ◄ 08 10 ►
Drawing n°: A56-AMF-00 / 10 - DWG - 001							
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			

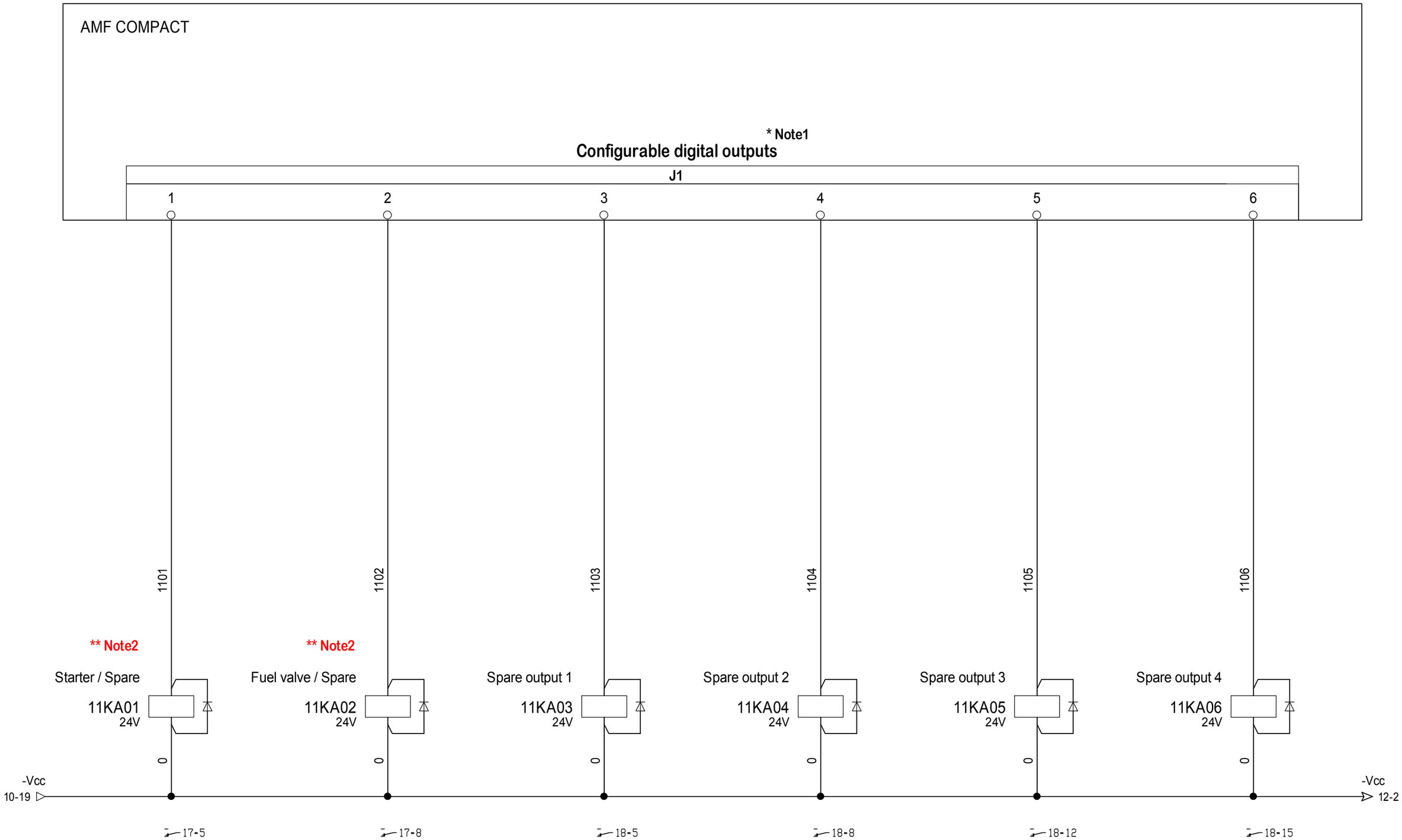


* Note1: Analog inputs can be used with resistive sensors (max. range 0-500 Ohms), with external 20mA current transducers fitted with a 30-ohm 1/4 Watt resistor or as additional digital inputs

** 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

Created: 09/05/2019					AMF COMPACT HMI / CORE	Analog inputs	PAGE
Drawing n°: A56-AMF-00 / 10 - DWG - 001					STANDARD WIRING SCHEMATICS		10
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			09 11
	REVISION	DATE	MODIFICATION	DRAWN			

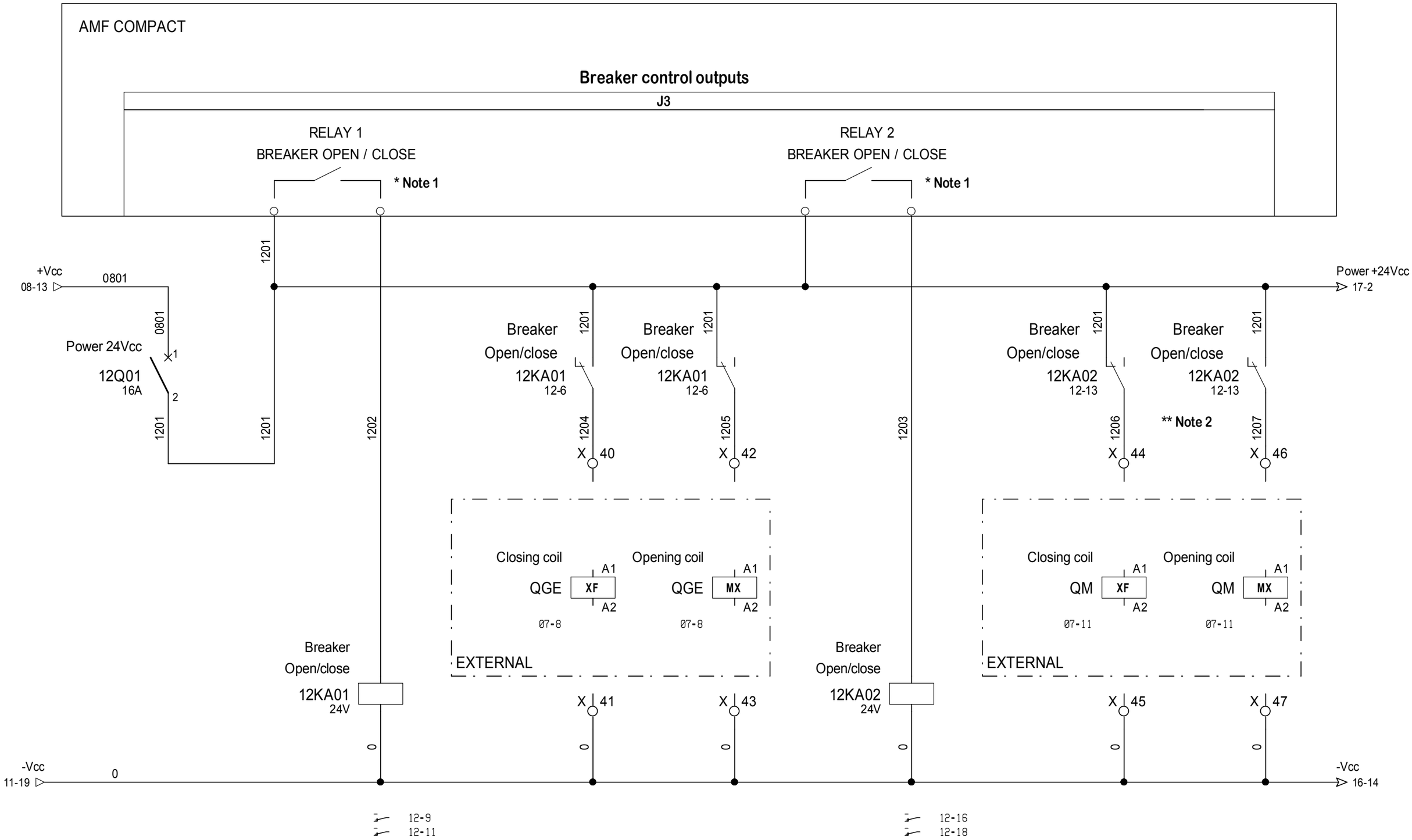


* Note1: Maximum output current is 1.8 Amps

** Note2: External relay recommended for starter & fuel valve controls

	Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Digital outputs
	Drawing n°: A56-AMF-00 / 10 - DWG - 001						
	Drawn: DB	A	19/05/2019	FIRST RELEASE	DB		
		REVISION	DATE	MODIFICATION	DRAWN		

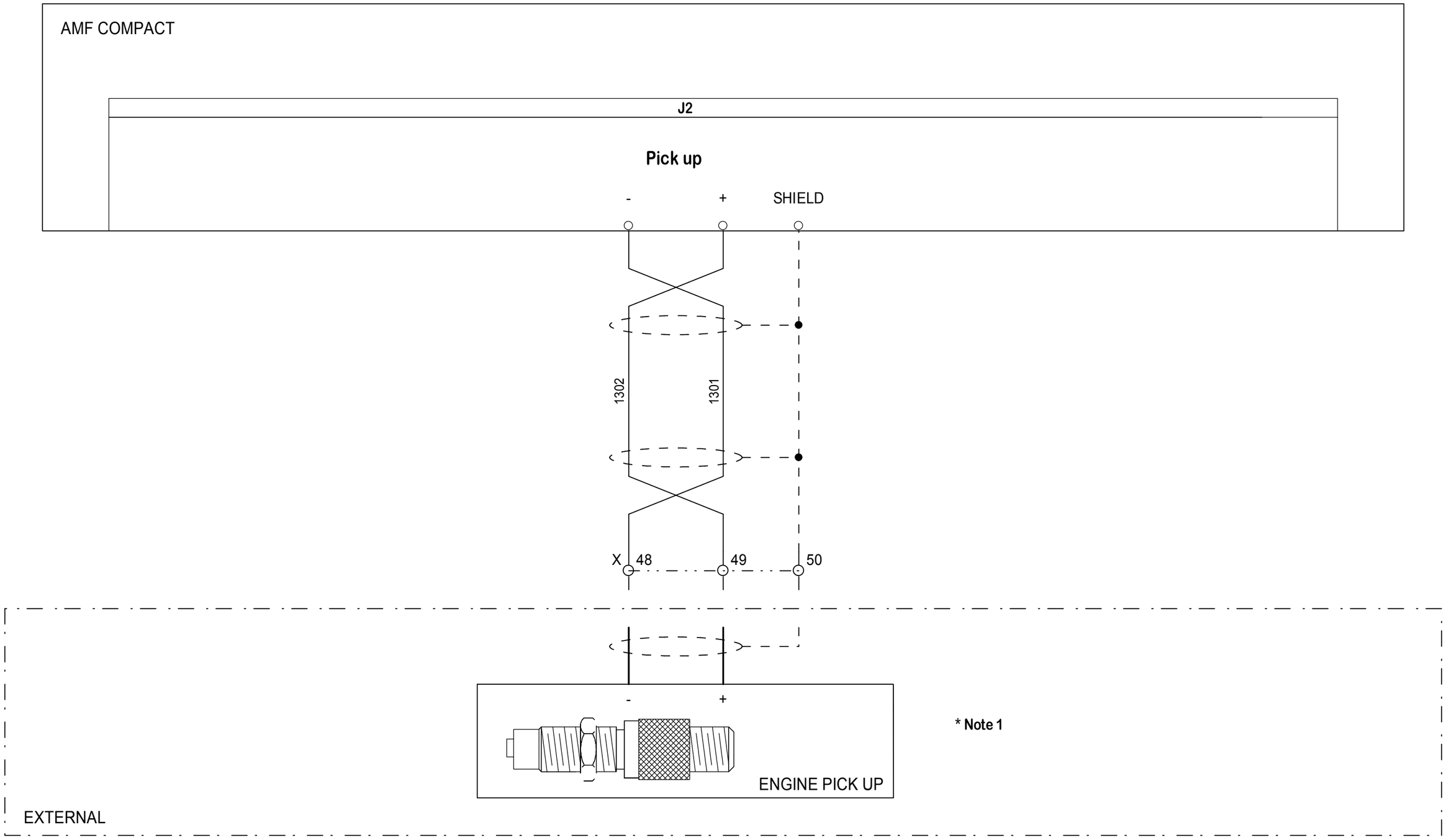
PAGE 11 (10 – 12)



* Note1: Default functions, adjustable via PC software

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

Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Breaker control	PAGE 12
Drawing n°: A56-AMF-00 / 10 - DWG - 001							◄ 11 13 ►
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			

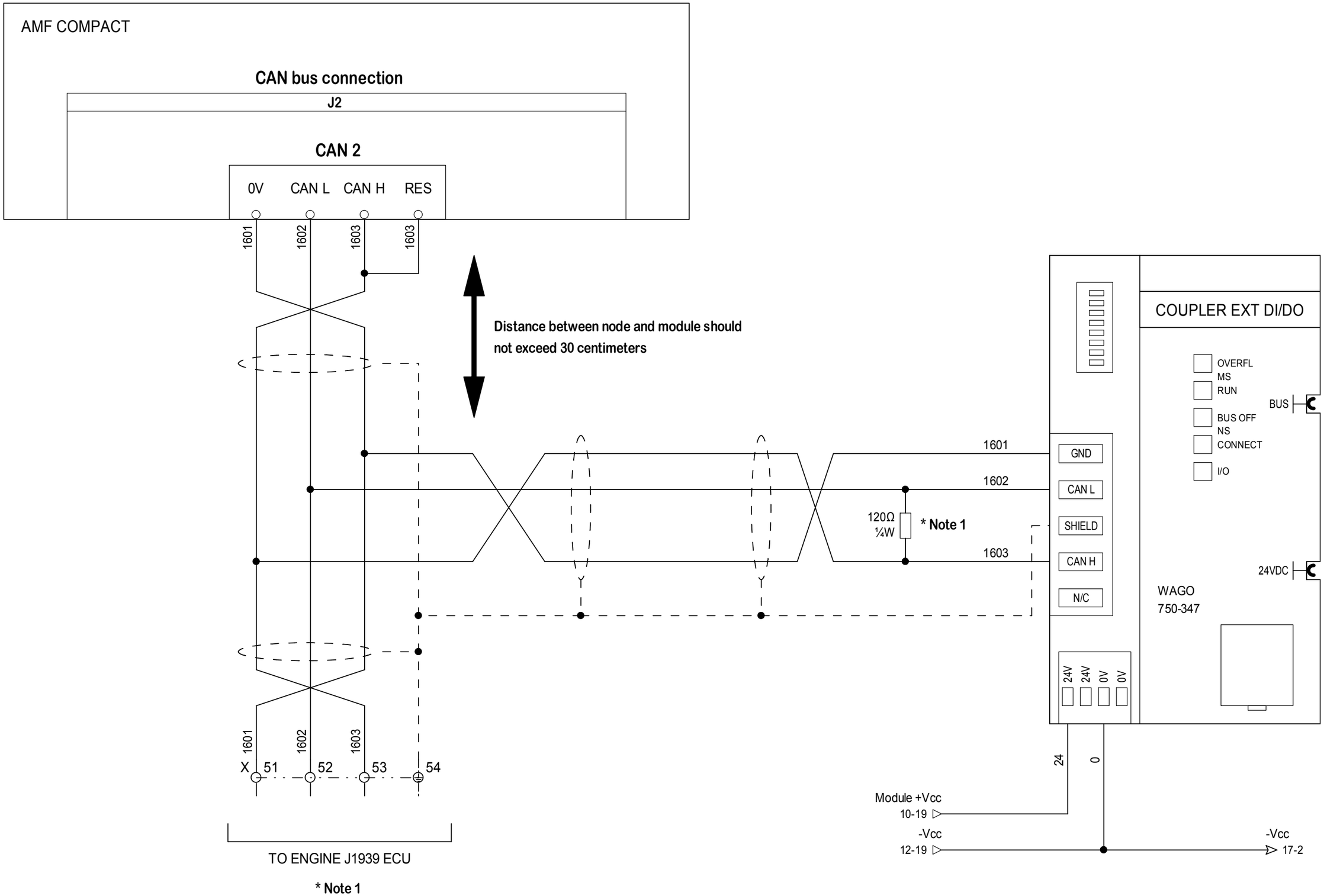


* Note1: Refer to the engine technical sheet to set the number of teeth

Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Speed sensing	PAGE 13 12 14
Drawing n°: A56-AMF-00 / 10 - DWG - 001							
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			

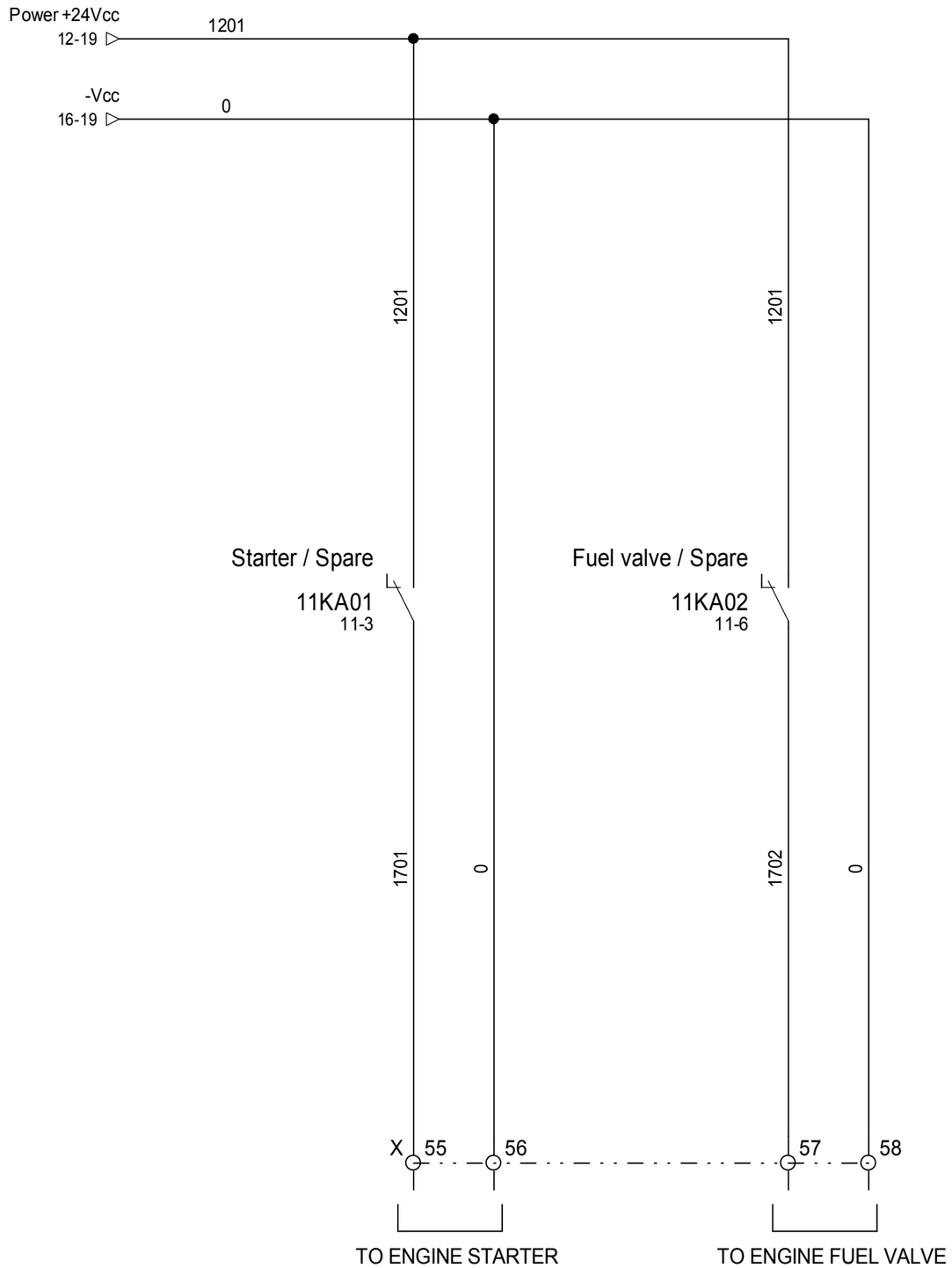
NOT USED

NOT USED

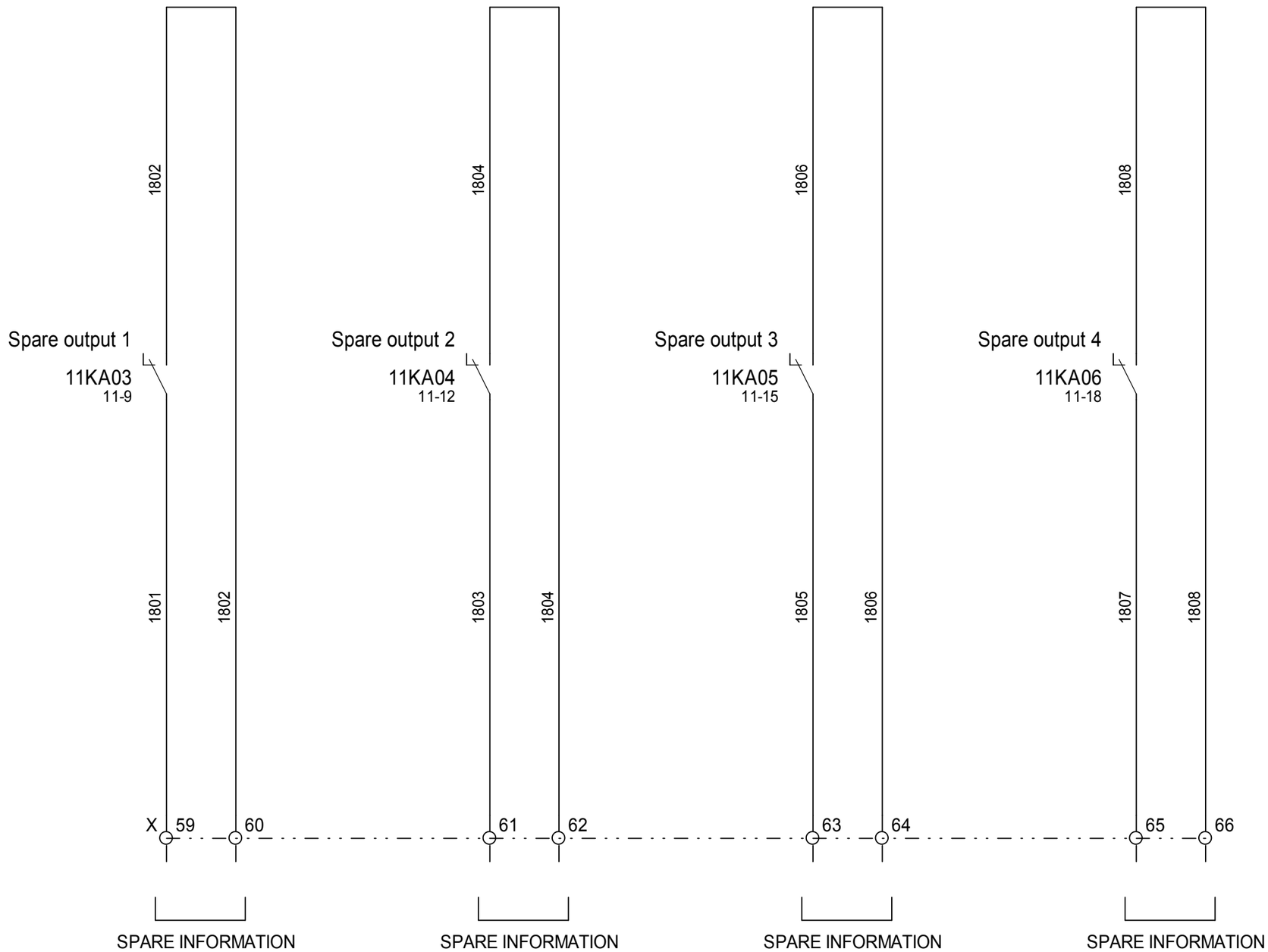


* Note1: Bus end 120-ohm resistor to be placed between CAN L and CAN H terminal on last equipment only

Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	CAN 2 connection
Drawing n°: A56-AMF-00 / 10 - DWG - 001						
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB		
	REVISION	DATE	MODIFICATION	DRAWN		



Created: 09/05/2019					AMF COMPACT HMI / CORE	Engine control	PAGE
Drawing n°: A56-AMF-00 / 10 - DWG - 001					STANDARD WIRING SCHEMATICS		17
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			16 18
	REVISION	DATE	MODIFICATION	DRAWN			



Created: 09/05/2019					AMF COMPACT HMI / CORE STANDARD WIRING SCHEMATICS	Digital output terminals	PAGE 18
Drawing n°: A56-AMF-00 / 10 - DWG - 001							
Drawn: DB	A	19/05/2019	FIRST RELEASE	DB			
	REVISION	DATE	MODIFICATION	DRAWN			