

Drawing: 1636049080.dwg
 Rev: 3.1
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Table 5 - Circuit breaker & power cables info						
QAS	Q1 (In)	Ir	Im	T1-T2-T3	Wire size X	Wire size Z
160	250A	0,9xIn=225A	3,5xIn	250/5A	jx	hx

Table 1 - Index	
Sheet	Description
1	Index
2	Power supply, open/close GB/MB, inputs, outputs
3	Smartbox, fleetlink basic, weekly timer
4	Customer terminals
5	Power circuit
6	Sockets and powerlocks options
7	Engine compartment / After treatment system

Table 3 - Wire colour legend	
Size	Colour
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Grey
9	White

Table 2 - Cross-section legend		
Size	Cross section	Wire Type
aa	0,5 mm ²	H05 V-K
a	1 mm ²	H05 V-K
b	1,5 mm ²	H07 V-K
c	2,5 mm ²	H07 V-K
d	4 mm ²	H07 V-K
e	6 mm ²	H07 V-K
f	10 mm ²	H07 V-K
g	16 mm ²	H07 V-K
h	25 mm ²	H07 V-K
i	35 mm ²	H07 V-K
j	50 mm ²	H07 V-K
k	70 mm ²	H07 V-K
l	95 mm ²	H07 V-K
ax	0,5 mm ²	BELDEN 9271
gx	16 mm ²	EPR-CSP (BS6195)
hx	25 mm ²	EPR-CSP (BS6195)
ix	35 mm ²	EPR-CSP (BS6195)
jx	50 mm ²	EPR-CSP (BS6195)
kx	70 mm ²	EPR-CSP (BS6195)
lx	95 mm ²	EPR-CSP (BS6195)

Table 7 - Controller outputs	
Relay	Description
5	Run coil (key-on)
6	Cranking
9	AFT auto
10	AFT manual
11	AUT auto
12	AUT manual
13	Water in fuel relay
14	Flashing light
15	MB close
16	MB open
17	GB close
18	GB open

Table 4 - Optional equipment	
Option	Description
O5	ELR (RCMA 420)
O6	ITR
O7	Battery charger
O8	Coolant heater
O9	ISV - Manual reset
O10	Weekly timer
O11	Powerlocks - Single (1x5P)
O12	Sockets
O13	Fleetlink locator
O14	Powerlocks - Double (2x5P)
O15	Automatic urea transfer (AUT)
O16	Cold weather
O17	Smart box
O18	ISV - Auto reset
O22	ZBP Connector
O23	Automatic fuel transfer (AFT)
O24	DC to AC POWER INVERTER

Table 6 - Controller inputs	
Terminal	Description
4	Emergency stop
20	Fuel level (analogue)
21	Parked regeneration
22	Spillage sensors
23	Water in fuel
39	AFT
40	2nd parameters
41	Remote start
42	AUT
43	DEF Ready
44	ELR/ITR
45	Coolant level
46	Fan failure alarm
47	MB close feedback
48	MB open feedback
49	GB close feedback
50	GB open feedback

Table 8 - Component list		
Tag	Description	Location *
-A1	Control unit	02.05.A
-A2	CIO116	09.A6
-A3	ECU	07.D2
-A4	FX-30	09.A1
-A5	IOM 230	09.A4
-B2	Fuel level sensor	07.B5
-B3	Coolant level switch	07.B4
-B4	AFT fuel level switch (O23)	07.B8
-D25	Diode - ISV (O9/O18)	02.F3
-D48	Diode - Alternator	07.B2
-F1,2,6	Fuse - 2A	05.B9
-F7,8,9	Fuse - 500mA (O21/O27)	08.D6
-F10	Circuit breaker - 10A	02.D1
-F15	Fuse - 25A (O15)	07.B7
-F16,20,26,27	Fuse - 2A (O16)	04.C2
-F21	Fuse - 20A (O16)	04.B2
-F26	Fuse - 25A (O23)	07.A8
-F27	Fuse - 2A (O13)	03.C6
-F31	Fuse - 20A - Exhaust flap valve	07.E1
-F32	Fuse - 20A	07.E2
-F33	Fuse - 30A	07.C2
-F36	Fuse - 30A - Fuel filter heater	07.B7
-G1	Battery 1	07.B1
-G2	Battery 2	07.B1
-G3	Alternator battery charger	07.B2
-G4	Alternator	05.A6
-HL1,2,3	Lamp - N-EDF Pack	08.C7
-HL12	ISV activated lamp	02.E4
-KA1	Relay 12V 1CO - AFT	03.C1
-K0	Relay 12V 1CO - Power relay	07.C2
-K1	Start relay	07.B2
-K2	Starter relay control	07.B2
-K3	Relay 12V 2CO - ISV (O9/O18)	03.B3
-K7	Relay 12V 2CO - ELR/ITR trip	05.F10
-K8	Relay 12V 2CO - Fuel relay ON	02.B2
-K9	Relay 12V 1CO - MSS (dual frequency)	02.C5
-K11	Relay 12V 1CO - Open MB	03.B4
-K12	Relay 12V 1CO - Close MB	03.B4
-K14-15	Relay 12V 1CO - Open GB	03.B4
-K16R	Relay 12V 2CO - Wire heater	04.C1
-K23	Relay 12V 1CO - AFT (O23)	07.B8
-K24	Relay 12V 1CO - ISV auto/manual (O9/O18)	07.B9
-K27	Relay 12V 1CO - Smartbox (O17)	03.D7
-K28	Relay 12V 1CO - AUT (O15)	07.B7
-K29	Relay 12V 1CO - Fuel filter heaters	07.E9
-K40	Relay 12V 1CO - Genset Running	03.B3
-K41	Relay 12V 1CO - Common Alarm	03.B2
-K42	Relay 12V 1CO - Low Fuel Level	03.B2
-K45	Relay 12V 2CO - Overfill sensor (O16)	03.B1
-KT1	Timer relay (battery disconnection)	02.C2
-L1	Battery switch lamp	07.B3
-L15	AUT lamp	03.C2
-L23	AFT lamp	03.C2
-M0	Starter motor	07.C2
-M1	Motor - Main cooling system	05.F1
-M2	Motor - Secondary cooling system	05.F2
-M5	AFT pump (O23)	07.C8
-M28	AUT pump (O15)	07.C7
-N4	AVR	05.A4
-N3	PT100 4-20mA Converter	02.F5

Table 8 - Component list		
Tag	Description	Location *
-N22	Earth leakage relay	05.E8
-N23	Earth leakage relay RCMA 420 (O5)	05.E9
-N24	Insulation monitoring relay (O6)	05.D10
-PT1	Hou Meter	02.C2
-Q1	Circuit breaker - Main	05.E4
-Q2, Q11	Circuit breaker - Sockets (O12)	06.C
-Q15	Circuit breaker - VSD	05.D1
-Q16	Circuit breaker - secondary cooling system motor	05.D2
-Q17	Circuit breaker - Motorized breaker	05.D3
-Q18	Circuit breaker - DEF Pump (O15)	09.D8
-R1	Resistor - 120 Ω Engine CAN end	02.B8
-R2	Resistor - 120 Ω PMS CAN end	02.B10
-R3	Resistor - 120 Ω Hose heater relay	07.C7
-R5,6,7	Resistor 10KΩ 0.5W - SCR suction, press blac line	07.C9
-R8	Resistor 1.2KΩ 0.5W - Diagnostic lamp	07.E10
-R9	Resistor - 1.2KΩ - Glow lamp	07.E10
-R10	Resistor - 5.6KΩ MSS	02.F10
-R11	Resistor - 1.2KΩ MSS	02.E10
-R12	Resistor - 9KΩ MSS	02.E10
-R21	Coolant heater - 500W (O8)	04.A2
-R27	Wire heater (O16)	04.A2
-R40	Resistor - 10KΩ - WIF	03.B10
-R41	Resistor - 10KΩ - Pull-up spillage sensors	02.E6
-R42	Resistor - 33KΩ - Pull-down Spillage sensors	02.F6
-R43	Resistor - 10KΩ - 1st Spillage sensor	02.F7
-R44	Resistor - 56KΩ - 2nd Spillage sensor	02.F7
-S1	Battery switch	07.C1
-S2	1st Spillage sensor (lower)	07.B3
-S3	Emergency stop - Cubicle	02.B2
-S4	2nd Spillage sensor (upper)	07.B3
-S5	Switch - AFT (O23)	02.B5
-S6	Switch - Water in fuel	07.F9
-S9	DEF forced regeneration switch	02.D7
-S10	Key Switch ON/OFF	02.C1
-S12	Key switch - Dual frequency	02.D5
-S13	Switch CBE ON/OFF	09.C7
-S15	Switch - AUT (O15)	02.C8
-S16	Switch Thorus INT/EXT	05.B8
-S17	Switch Resistor ON/OFF	09.C10
-S20	Switch - Diagnostic mode	02.C2
-S22	Switch - ELR	05.E7
-S23	Switch - RCMA420 (O5)	05.F8
-T1T2T3	Current transformer	05.B6
-T4	Weekly timer (O10)	03.C5
-T22	Earth leakage relay torus (O4)	05.D5
-T23	RCMA 420 torus (O5)	05.D6
-TT1	PT100 - Coolant temperature	07.B5
-U1	VSD	05.E1
-U20	Battery charger (O7)	04.B3
-U21	DC to AC Power Inverter	08.C5
-X2, X11	Socket 1PH/3PH - 16A to 125A (O12)	06.D
-X12	Powerlocks (O11)	06.C1
-X13	Power distribution device (O12)	06.A3
-X14	Connector - Fuel level sensor	07.B5
-X15	Connector - Coolant level switch	07.B4
-X16	Powerlocks - Double (2x5P) (O15)	06.C2
-X17	Connector - Engine diagnostic	07.C5
-X18	Connector - Engine CANBUS	07.B6
-X19	Connector - Coils weather	02.F6
-X20	Connector - Cubicle-engine wire harness	02/03.G
-X21	Connector - 1st Spillage Sensor (lower)	07.B3

Table 8 - Component list		
Tag	Description	Location *
-X22	Connector - Inlet shutdown valve	02.E9
-X23	Terminal strip - Control cubicle connections	02.05
-X24	Terminal strip - Socket CB trip coil	06.D
-X25	Terminal strip - Customer terminals	04.E2-6
-X26	Connector AFT (O23)	07.A8
-X28	Connector - Coolant heater	04.B2
-X29	Connector - 2nd spillage sensor (upper)	07.B3
-X31	Connector - ISV relay (O9/O18)	02.E8
-X32	Connector - Inlet shutdown valve	07.A9
-X33	Connector PT-100	07.B5
-X34	Connector - Smartbox supply	02.E1
-X35	Connector - ZBP (O22)	04.B6
-X36	Connector - ISV auto (O18)	07.B9
-X37	Connector - ISV manual	07.B10
-X39	Connector - Secondary cooling system	05.F2
-X40	Connector - Urea system	07.D2
-X41	Connector - Urea quality sensor	07.F2
-X42	Connector - Urea tank level	07.F3
-X43	Connector - Urea supply module	07.F4
-X44	Connector - SCR 3-way valve	07.F5
-X45	Connector AUT (O15)	07.A7
-X46	Connector - Start signal	07.A6
-X47	Connector - Starter	07.C2
-X48	Connector - Alternator (Battery charger)	07.B2
-X50	Connector - After treatment system	07.E6
-X51	Connector - SCR Downstream NOX sensor	07.F5
-X52	Connector - DOC upstream NOX sensor	07.F6
-X53	Connector - SCROF Delta pressure	07.F6
-X54	Connector - DOC downstream temperature	07.F7
-X55	Connector - SCR upstream temperature	07.F7
-X56	Connector - SCR downstream temperature	07.F7
-X57	Connector - DOC upstream temperature	07.F8
-X58	Connector - DEF dosing module	07.F8
-X60	Connector - Urea system control	07.E3
-X61	Connector - Urea quality sensor	07.F2
-X62	Connector - Urea tank level	07.F3
-X63	Connector - Urea supply module	07.F4
-X64	Connector - SCR 3-way valve	07.F5
-X65	Connector - CAN termination	07.F2
-X71	Connector - Wire heater	04.B2
-X80	Connector - AVR	05.A4
-X81	Connector - AVR	05.A4
-X82	Connector - Fuel filter heater	07.C7
-X84	Connector - pre fuel filter heater	07.C8
-X85	Connector - Flashing light	07.A10
-X100	Connector - Water in fuel (filter)	03.D10
-X103	Connector - Emergency button	02.05
-X104	Banana plug - N-EDF pack (O27)	08.D7
-X56	Connector - Smartbox (O17)	03.C7
-X57	Connector - GPS antenna	03.C9
-X58	Connector - GSM antenna	03.C9
-ALS	Connector - Analogue Load Sharing	09.D4
-C1	Connector - External Thorus	04.E7
-C2B	Connector - Remote start	04.E5
-C4B-IN/OUT	Connector - Power management system	09.E7
-C6B	Connector - Main sensing	04.F4
-C8B	Connector - External tank	09.F8
-Y23	AFT valve (O23)	07.C8
-Y24	Inlet shutdown valve - Auto reset (O18)	07.C9
-Y28	AUT valve (O15)	07.C7

Rev	Modification	Date	Modified by
3	---	2024-01-18	FArcega
2	Added Power Inverter DC-AC	2024-01-18	FArcega
1	New Harting Connection (C8B)	2023-12-21	FArcega

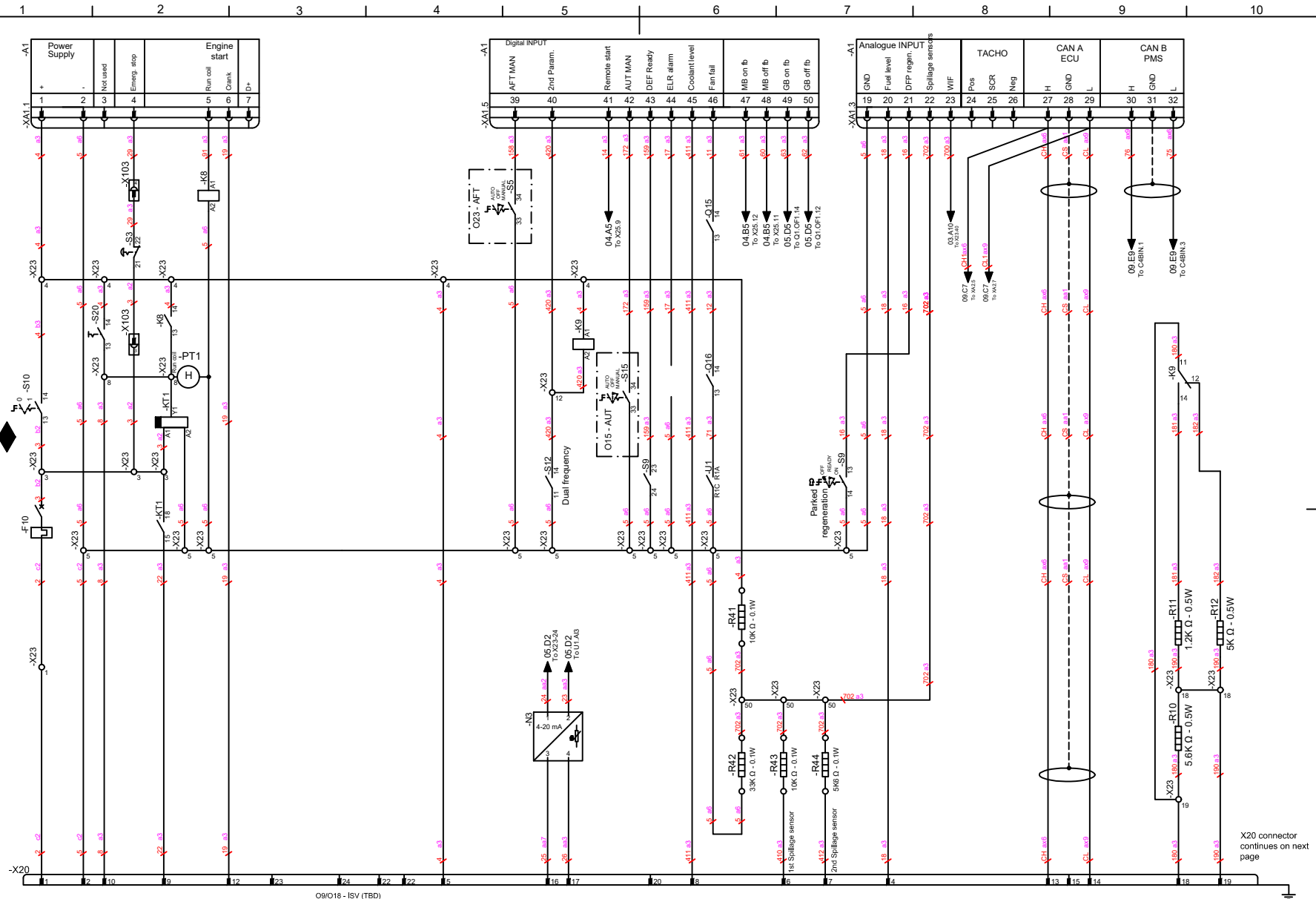
Differences with the drawing mentioned in the box "Compare" or "Replaces"
 Settings of cubicle electrical components according to instruction 1636032080

04.D6	Shawl	ESF	Approved By	OAranz	Approved Date	2024-01-23	Status	Released	Secrecy Class	1102 K/CONFIDENTIAL
ACD	A3			DIAGRAM CIRCUIT QAS+160/200 FPT QC3501 LOXAM		Compare	1636041168	Replaces	Designation: _____ Sheet 1 / 10 <h1>1636049080</h1>	

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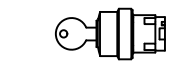
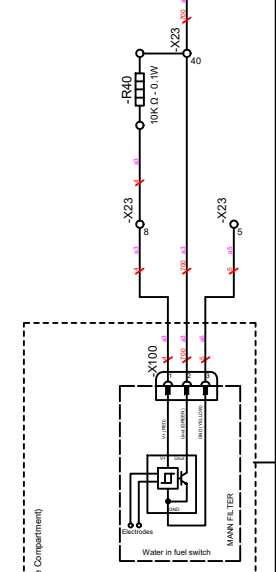
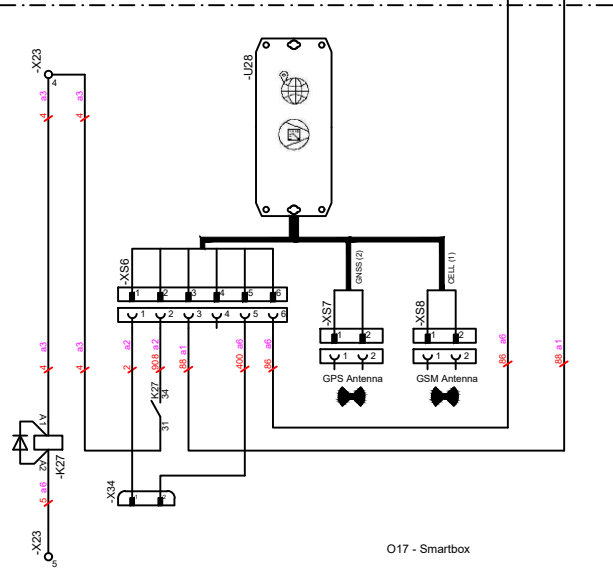
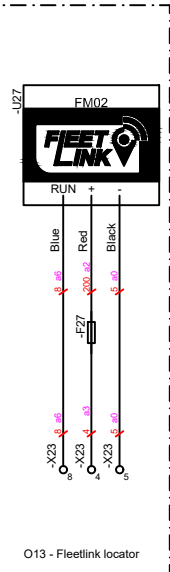
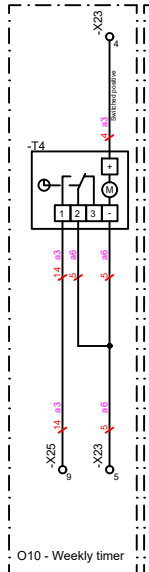
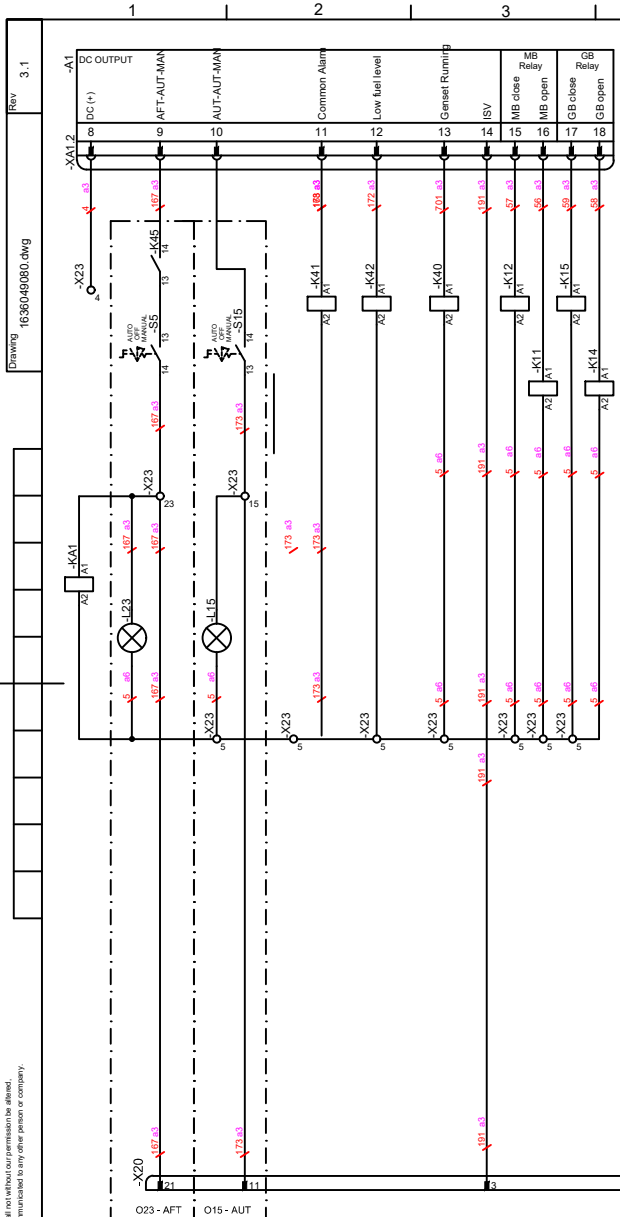


Rev	Modification	Date	Modified by
3	---	2024-01-18	FArcega
2	Added Power Inverter DC-AC	2024-01-18	FArcega
1	New Harting Connection (C8B)	2023-12-21	FArcega

Drawing ACD	ESF	Approved By A3	OAranz	Approv Date 2024-01-23	Status Released	Secrecy Class 1102 K/CONFIDENTIAL
			DIAGRAM CIRCUIT QAS+160/200 FPT QC3501 LOXAM		Compare 1636041168	Replaces
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X20 connector continues on next page

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S9 (parked regeneration)			
	OFF (Left)	READY (Center)	MANUAL (Right)
13-14	-	-	NO
23-24	NO	-	-
53-54	NO	-	-

NO: Normally open
NC: Normally closed



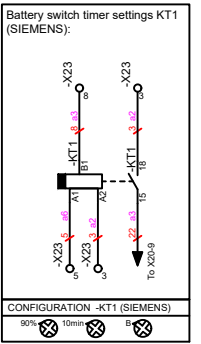
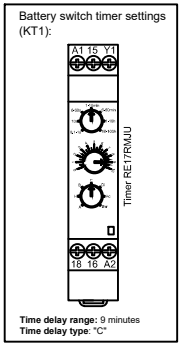
S15 (AUT)			
	AUTO (Left)	OFF (Center)	MANUAL (Right)
13-14	-	-	NO
33-34	-	NO	-

NO: Normally open
NC: Normally closed



S5 (AFT)			
	AUTO (Left)	OFF (Center)	MANUAL (Right)
13-14	-	-	NO
33-34	-	NO	-

NO: Normally open
NC: Normally closed

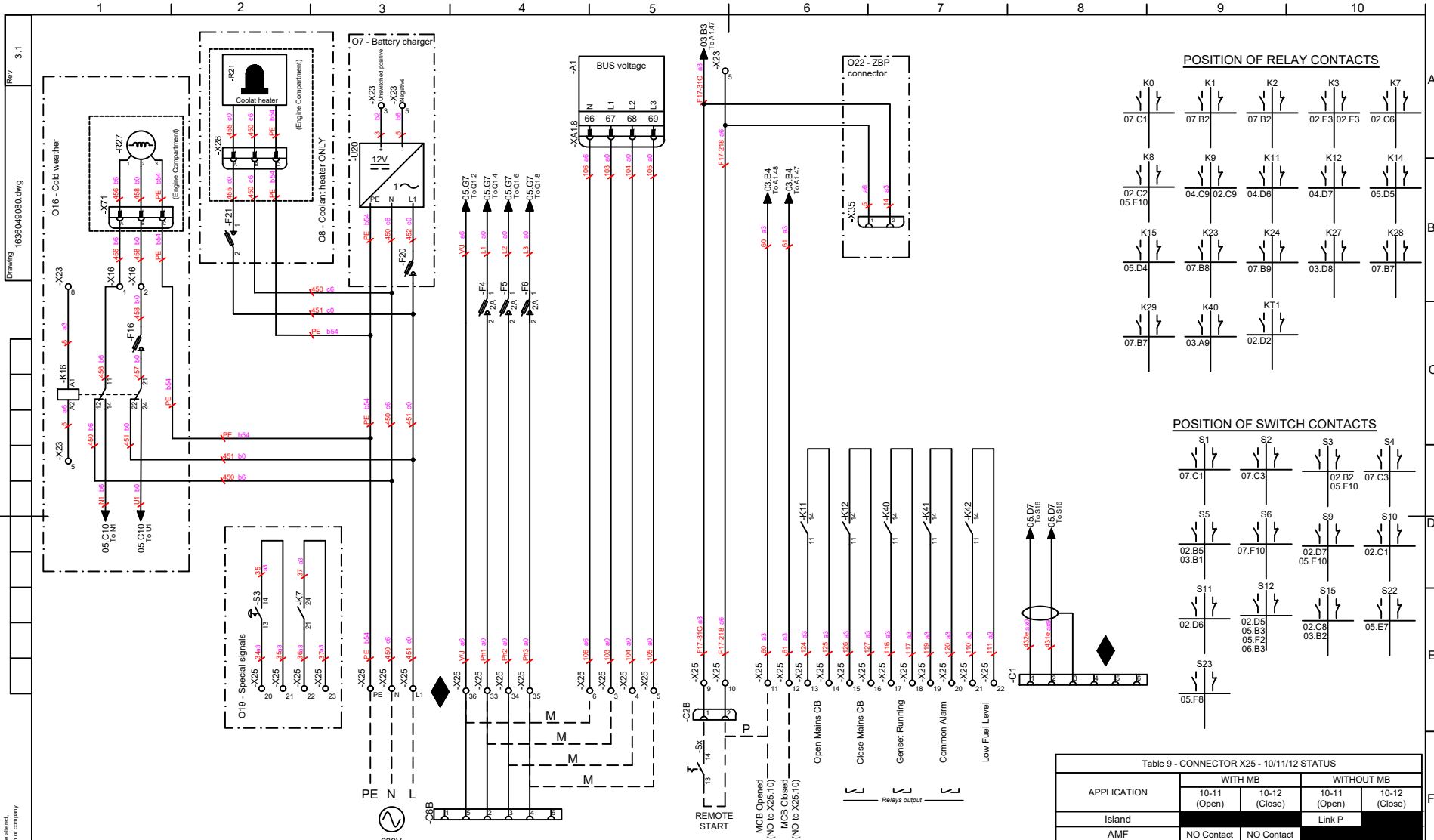


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3	---	2024-01-18	FArcega
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1	New Harting Connection (C8B)	2023-12-21	FArcega

Drawing Owner: ESF	Approved By: Oarranz	Approval Date: 2024-01-23	Status: Released	Secrecy Class: 1102 K/CONFIDENTIAL
		DIAGRAM CIRCUIT QAS+160/200 FPT QC3501 LOXAM		
Compare: 1636041168	Replaces:	Designation:	Sheet 3 / 10	1636049080

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NOTES
 NOTE 3: REMOVE LINK "M" WHEN PARALLELLING WITH THE MAINS. WHEN PARALLELLING MULTIPLE GEN-SETS IN ISLAND-MODE, LINK "M" IS NECESSARY.
 Note 4: Remove link "M" when parallelling with the mains. When parallelling multiple gen-sets in ISLAND-mode, link "M" is necessary.
 Note 5: Remove link "P" when NOT running in ISLAND-mode. See table 9 for the setting of "P" link and the status of terminals X25.10, X25.11 and X25.12 with the differents application modes.

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3	---	2024-01-18	FArcega
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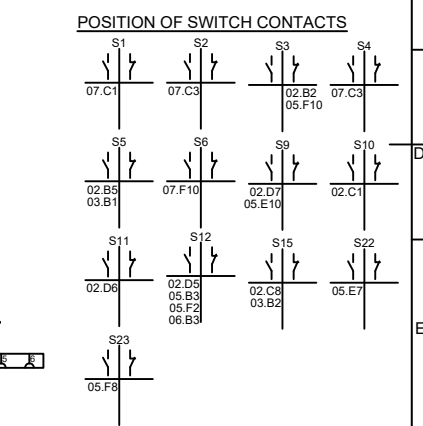
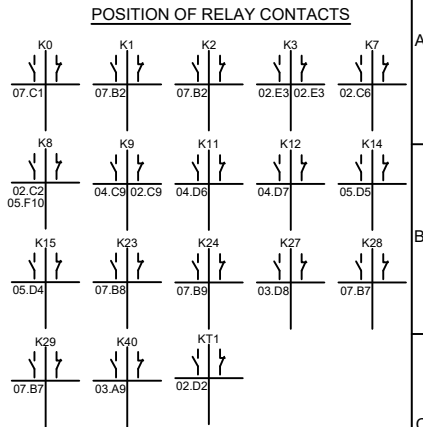
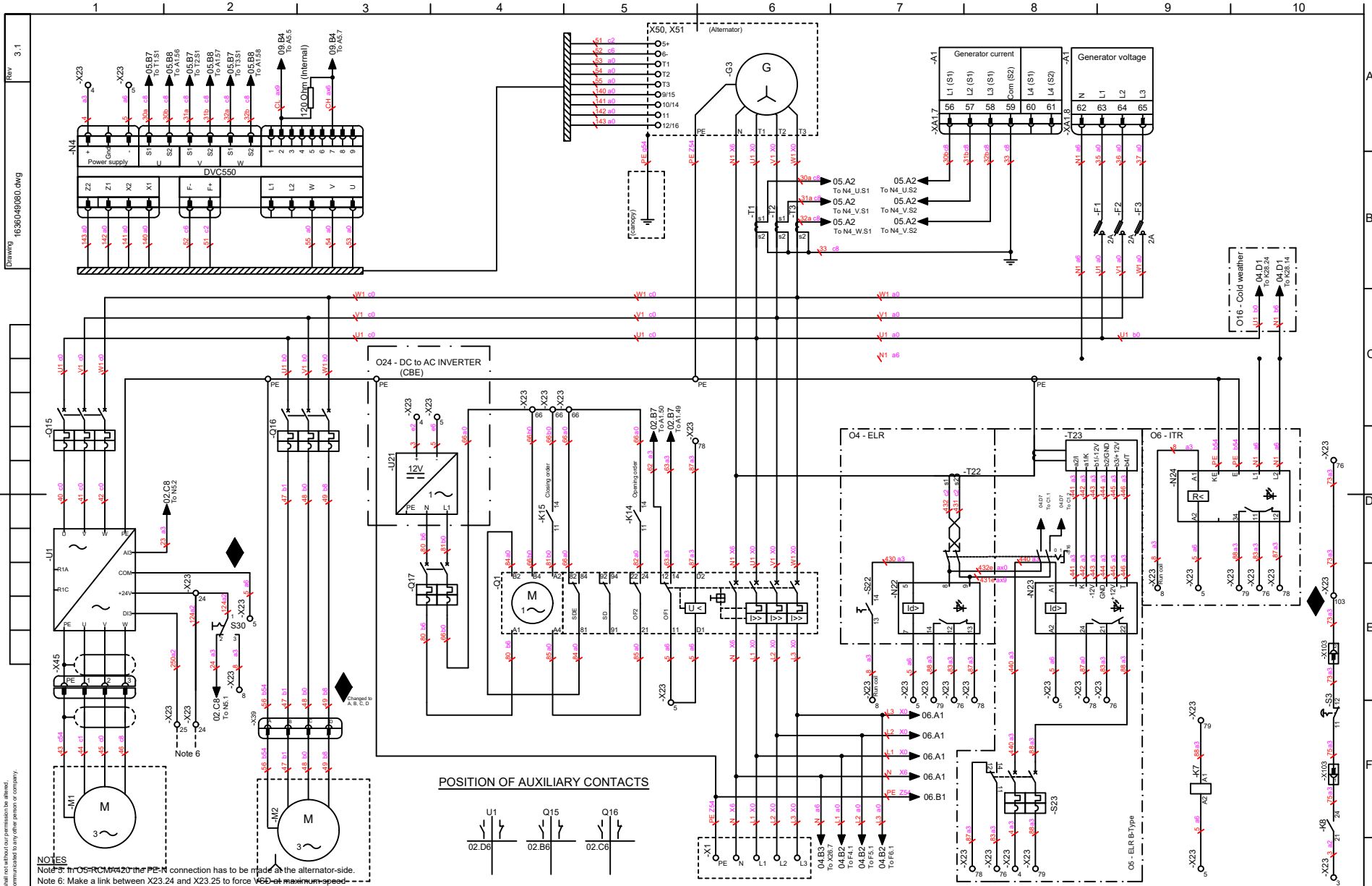


Table 9 - CONNECTOR X25 - 10/11/12 STATUS

APPLICATION	WITH MB		WITHOUT MB	
	10-11 (Open)	10-12 (Close)	10-11 (Open)	10-12 (Close)
Island			Link P	
AMF	NO Contact	NO Contact		
Peak Shaving	NO Contact	NO Contact		Link P
Fixed Power	NO Contact	NO Contact		Link P
Load Take Over	NO Contact	NO Contact		
Mains Power Exp/Imp	NO Contact	NO Contact		Link P

Drawing Owner ACD	Approved By A3	Approved Date 2024-01-23	Status Released	Secrecy Class 1102 K/CONFIDENTIAL
			Compare 1636041168	Replaces
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NOTES
 Note 5: In order to make the PE-N connection has to be made at the alternator side.
 Note 6: Make a link between X23.24 and X23.25 to force **VSD at maximum speed**.

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Drawing Owner	ESF	Approved By	OAranz	Approval Date	2024-01-23	Status	Released	Secrecy Class	1102 K/CONFIDENTIAL
Compare	1636041168	Replaces		Designation		Sheet 5	/ 10		
DIAGRAM CIRCUIT								1636049080	
QAS+160/200 FPT QC3501 LOXAM									

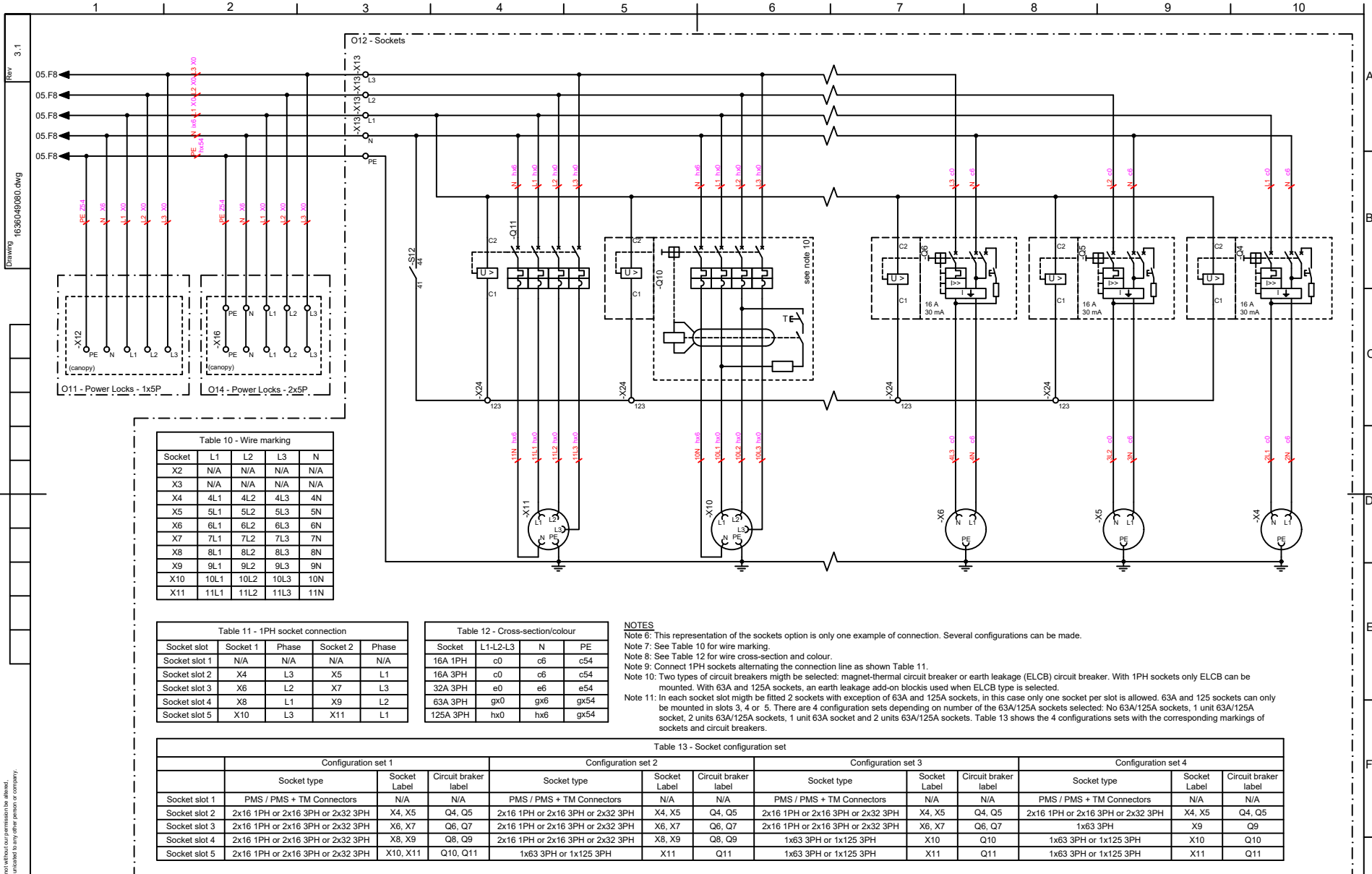


Table 10 - Wire marking

Socket	L1	L2	L3	N
X2	N/A	N/A	N/A	N/A
X3	N/A	N/A	N/A	N/A
X4	4L1	4L2	4L3	4N
X5	5L1	5L2	5L3	5N
X6	6L1	6L2	6L3	6N
X7	7L1	7L2	7L3	7N
X8	8L1	8L2	8L3	8N
X9	9L1	9L2	9L3	9N
X10	10L1	10L2	10L3	10N
X11	11L1	11L2	11L3	11N

Table 11 - 1PH socket connection

Socket slot	Socket 1	Phase	Socket 2	Phase
Socket slot 1	N/A	N/A	N/A	N/A
Socket slot 2	X4	L3	X5	L1
Socket slot 3	X6	L2	X7	L3
Socket slot 4	X8	L1	X9	L2
Socket slot 5	X10	L3	X11	L1

Table 12 - Cross-section/colour

Socket	L1-L2-L3	N	PE
16A 1PH	c0	c6	c54
16A 3PH	c0	c6	c54
32A 3PH	e0	e6	e54
63A 3PH	gx0	gx6	gx54
125A 3PH	hx0	hx6	gx54

NOTES
 Note 6: This representation of the sockets option is only one example of connection. Several configurations can be made.
 Note 7: See Table 10 for wire marking.
 Note 8: See Table 12 for wire cross-section and colour.
 Note 9: Connect 1PH sockets alternating the connection line as shown Table 11.
 Note 10: Two types of circuit breakers might be selected: magnet-thermal circuit breaker or earth leakage (ELCB) circuit breaker. With 1PH sockets only ELCB can be mounted. With 63A and 125A sockets, an earth leakage add-on block is used when ELCB type is selected.
 Note 11: In each socket slot might be fitted 2 sockets with exception of 63A and 125A sockets, in this case only one socket per slot is allowed. 63A and 125A sockets can only be mounted in slots 3, 4 or 5. There are 4 configuration sets depending on number of the 63A/125A sockets selected: No 63A/125A sockets, 1 unit 63A/125A socket, 2 units 63A/125A sockets, 1 unit 63A socket and 2 units 63A/125A sockets. Table 13 shows the 4 configurations sets with the corresponding markings of sockets and circuit breakers.

Table 13 - Socket configuration set

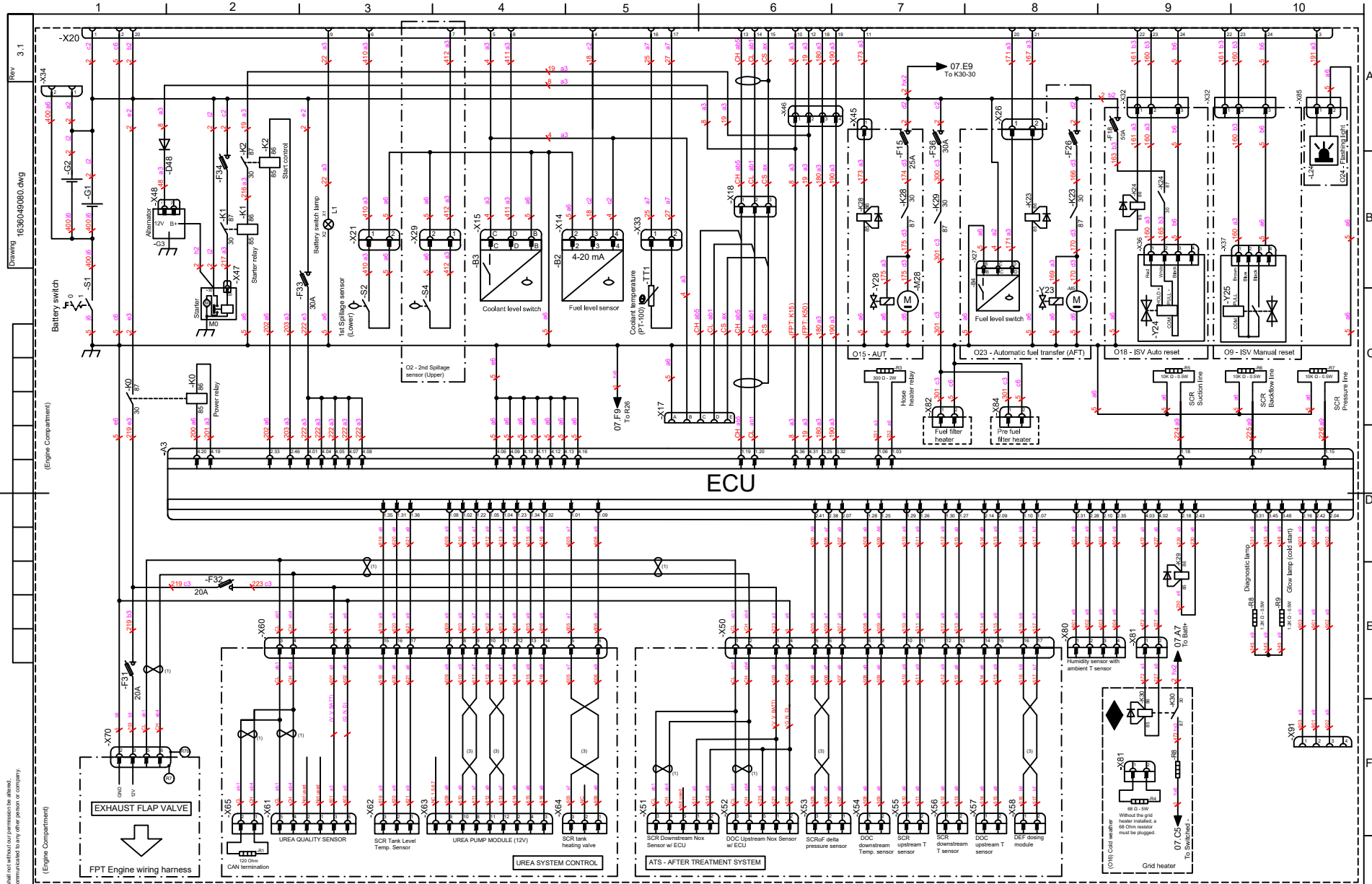
Socket slot	Configuration set 1			Configuration set 2			Configuration set 3			Configuration set 4		
	Socket type	Socket Label	Circuit breaker label	Socket type	Socket Label	Circuit breaker label	Socket type	Socket Label	Circuit breaker label	Socket type	Socket Label	Circuit breaker label
Socket slot 1	PMS / PMS + TM Connectors	N/A	N/A	PMS / PMS + TM Connectors	N/A	N/A	PMS / PMS + TM Connectors	N/A	N/A	PMS / PMS + TM Connectors	N/A	N/A
Socket slot 2	2x16 1PH or 2x16 3PH or 2x32 3PH	X4, X5	Q4, Q5	2x16 1PH or 2x16 3PH or 2x32 3PH	X4, X5	Q4, Q5	2x16 1PH or 2x16 3PH or 2x32 3PH	X4, X5	Q4, Q5	2x16 1PH or 2x16 3PH or 2x32 3PH	X4, X5	Q4, Q5
Socket slot 3	2x16 1PH or 2x16 3PH or 2x32 3PH	X6, X7	Q6, Q7	2x16 1PH or 2x16 3PH or 2x32 3PH	X6, X7	Q6, Q7	2x16 1PH or 2x16 3PH or 2x32 3PH	X6, X7	Q6, Q7	1x63 3PH	X9	Q9
Socket slot 4	2x16 1PH or 2x16 3PH or 2x32 3PH	X8, X9	Q8, Q9	2x16 1PH or 2x16 3PH or 2x32 3PH	X8, X9	Q8, Q9	1x63 3PH or 1x125 3PH	X10	Q10	1x63 3PH or 1x125 3PH	X10	Q10
Socket slot 5	2x16 1PH or 2x16 3PH or 2x32 3PH	X10, X11	Q10, Q11	1x63 3PH or 1x125 3PH	X11	Q11	1x63 3PH or 1x125 3PH	X11	Q11	1x63 3PH or 1x125 3PH	X11	Q11

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3	---	2024-01-18	FArcega
2	Added Power Inverter DC-AC	2024-01-18	FArcega
1	New Harting Connection (C8B)	2023-12-21	FArcega
Rev	Modification	Date	Modified by

Drawing Owner ACD	ESF	Approved By A3	OAranz	Approval Date 2024-01-23	Status Released	Secrecy Class 1102 K/CONFIDENTIAL
						Compare 1636041168
DIAGRAM CIRCUIT QAS+160/200 FPT QC3501 LOXAM						Replaces Sheet 6 / 10
<h1>1636049080</h1>						

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Rev	Modification	Date	Modified by
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- (1) CAN BUS shielded cable 1x2x0.75 Yellow - CAN H
Brown - CAN L
- (3) Twisted pair cable (twist length 40 +/- 2 times / m).

Drawing Owner: ESF
Approved By: A3
OArranz

Approved Date: 2024-01-23
Status: Released

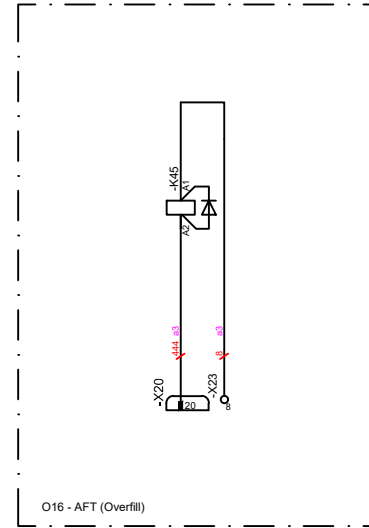
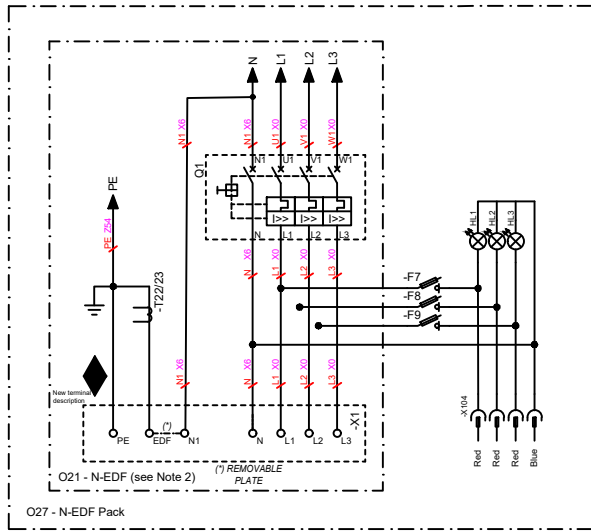
Secrecy Class: 1102 K/CONFIDENTIAL

DIAGRAM CIRCUIT
QAS+160/200 FPT QC3501 LOXAM

Compare: 1636041168
Designation: 1636049080
Replaces: Sheet 7 / 10

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Drawing 1636049080.dwg Rev 3.1



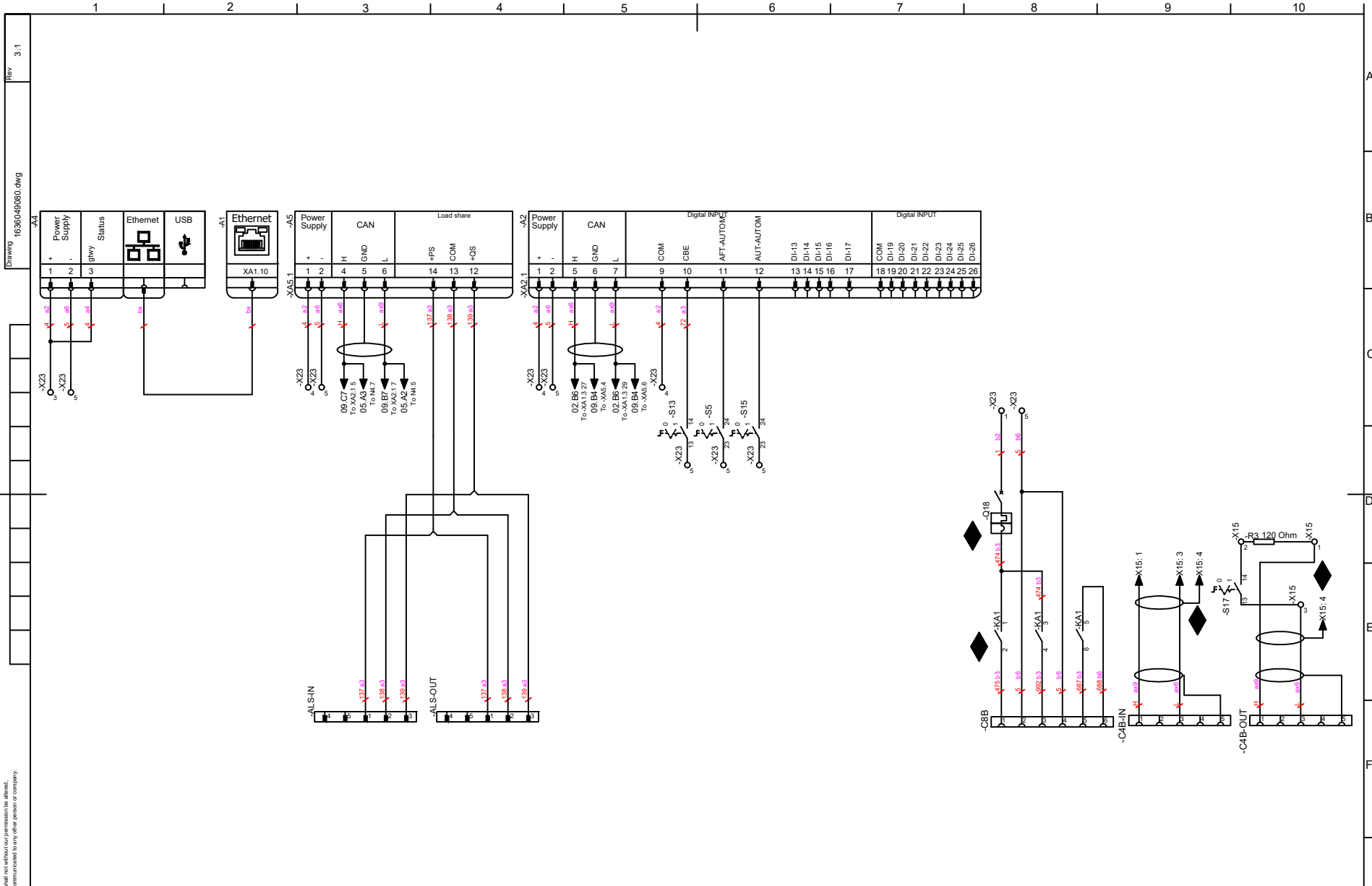
3	----	2024-01-18	FArcega
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Rev	Modification	Date	Modified by


Drawing Owner	ESF	Approved By	OArranz	Approval Date	2024-01-23	Status	Released	Secrecy Class	1102 K/CONFIDENTIAL
ACD	A3					Compare	1636041168	Replaces	
		DIAGRAM CIRCUIT QAS+160/200 FPT QC3501 LOXAM				Designation	Sheet 8 / 10		
						1636049080			

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Drawing 1636049080.dwg Rev 3.1

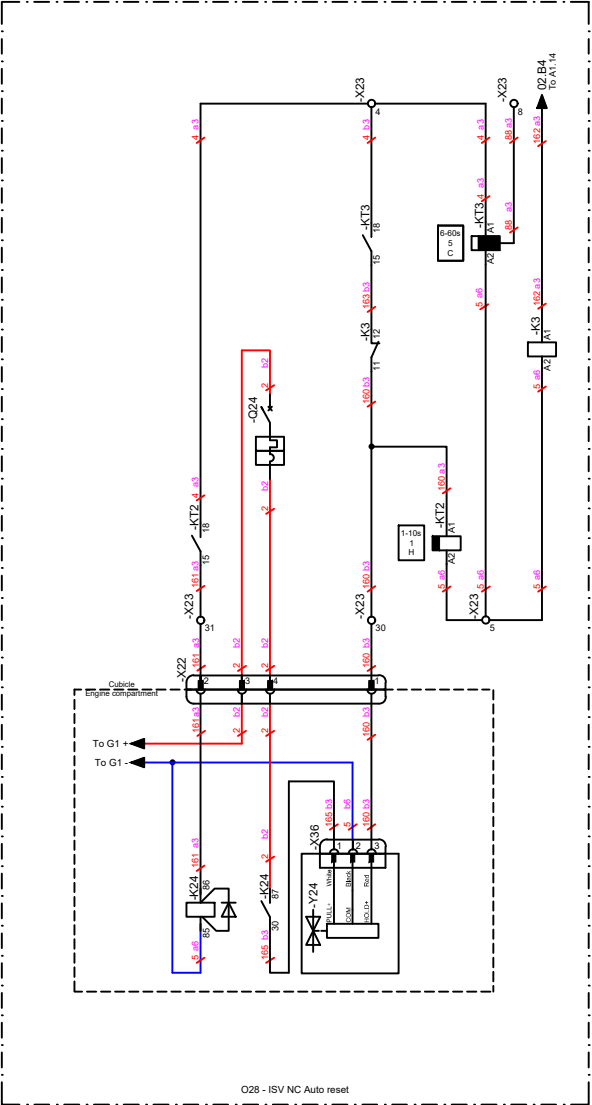
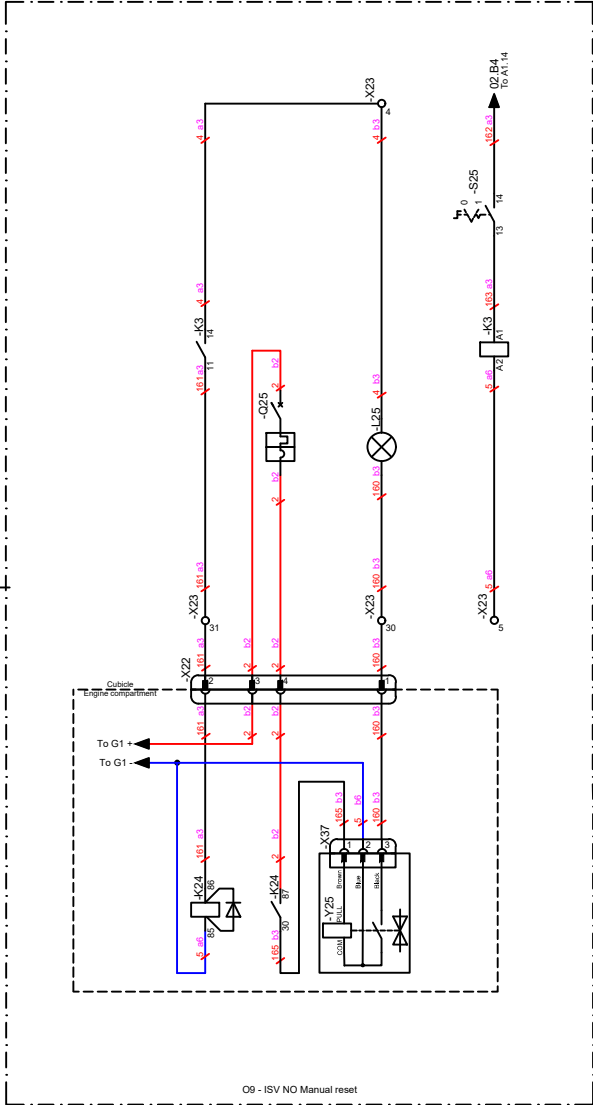
3	----	2024-01-18	F.Arcega
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Rev	Modification	Date	Modified by



Drawing Owner	ESF	Approved By	OAranz	Approval Date	2024-01-23	Status	Released	Secrecy Class	1102 K/CONFIDENTIAL
	ACD		A3			Compare	1636041168	Replaces	
 DIAGRAM CIRCUIT QAS+160/200 FPT QC3501 LOXAM								Designation	Sheet 9 / 10
								1636049080	

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Drawing 1636049080.dwg Rev 3.1



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Approval Date: 2024-01-23 Status: Released

Security Class: 1102 K/CONFIDENTIAL

DIAGRAM CIRCUIT
QAS+160/200 FPT QC3501 LOXAM

Compare 1636041168 Replaces

Designation Sheet 10 / 10

1636049080

1 2 3 4 5 6 7 8 9 10

A B C D E F G