KADNA VERZIJA !!

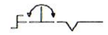
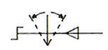
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iNMEL
D O O KOSTRENA

Nacrt br. / Drawing No.	880 - 110
Klijent / Customer	PREMIER CRUISES LIMITED
Ptrojekt / Project	m/v SERENISSIMA
Nacrt / Drawing	MAIN SWITCHBOARD SECTION No. 6 & 7 & 8
Broj stranica / No of pages	18

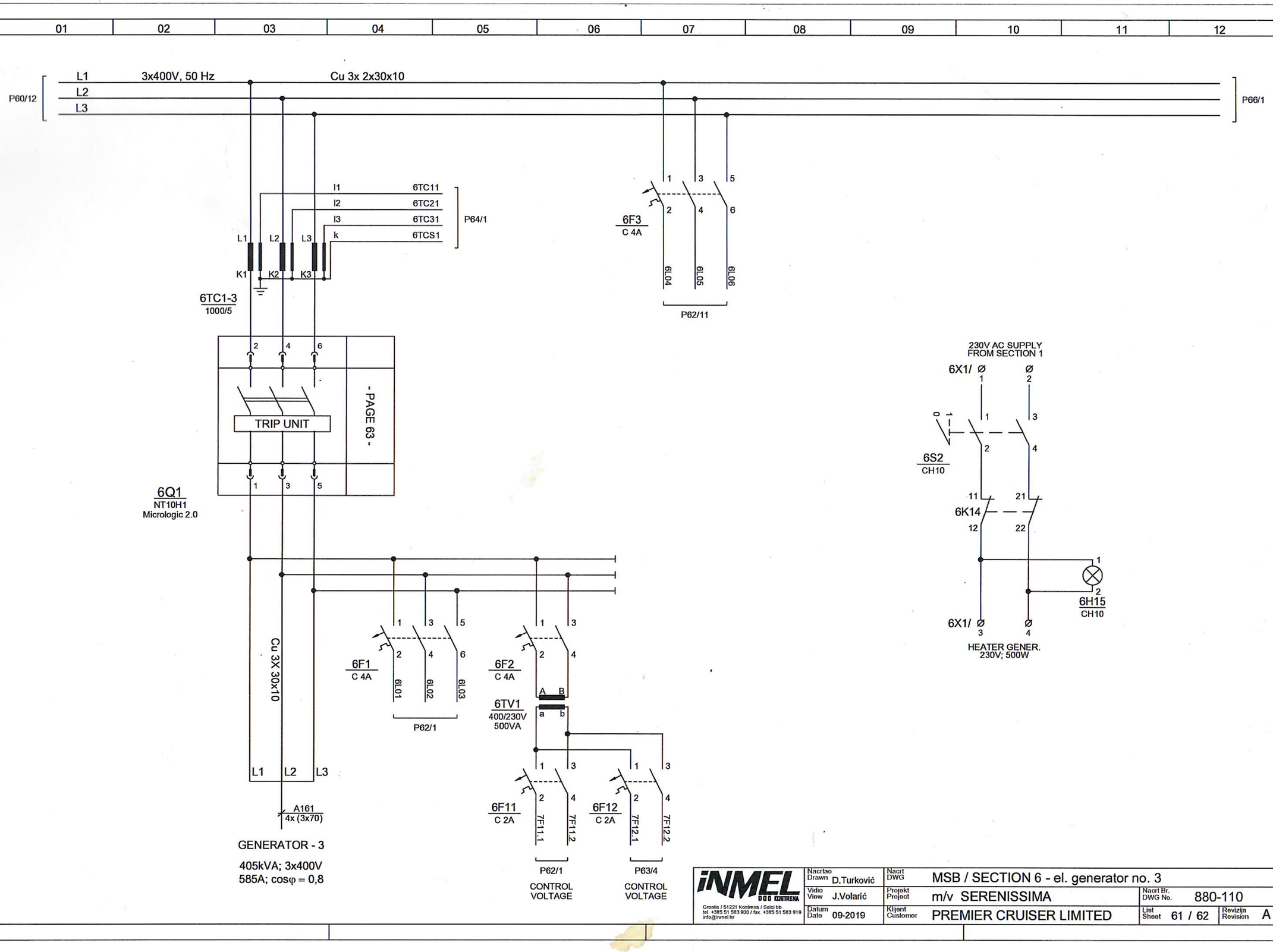
	A	11-2019	SECTION No 6 & 7 & 8	D.Turković	I. Volarić
	0	05-2003	PRVO IZDANJE		

01	02	03	04	05	06	07	08	09	10	11	12

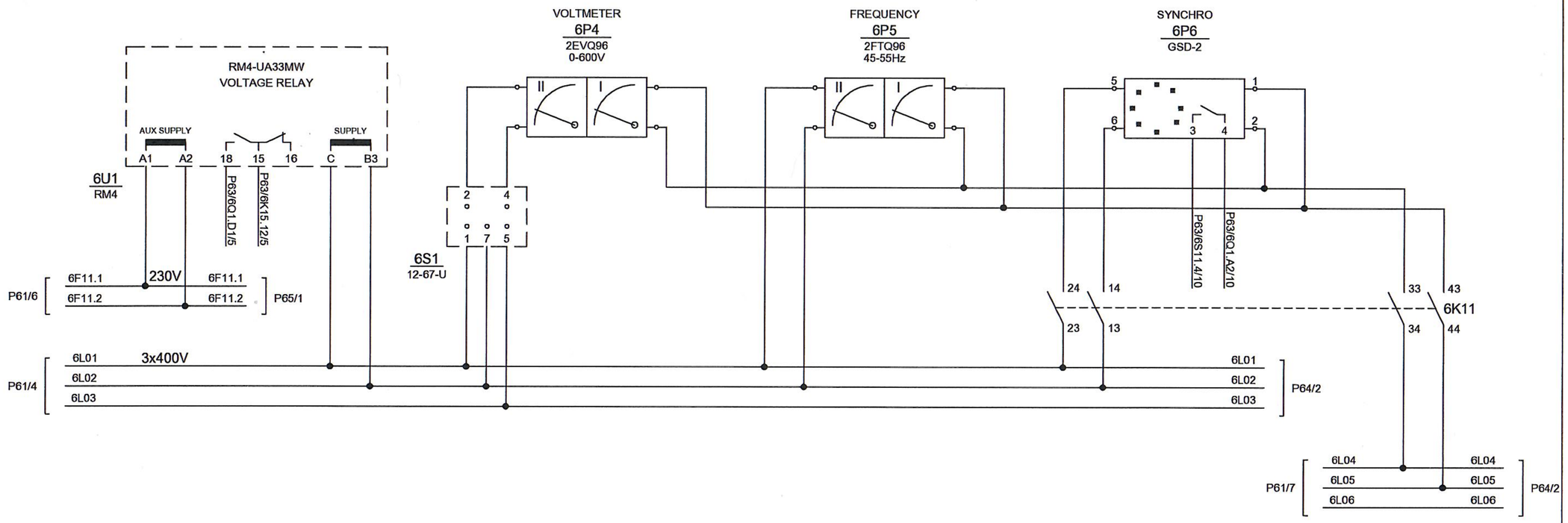
GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION
	CIRCUIT BREAKER WITH AUTOMATIC RELEASE		CAPACITOR (GENERAL SYMBOL)		COIL OF A TIME DELAYED RELEASING RELAY		BREAK CONTACT
	CIRCUIT BREAKER WITH AUTOMATIC RELEASE AND BUILT-IN THERMOMAGNETIC RELEASE		CAPACITIVE VOLTAGE DIVIDER		BISTABILE RELAY		CHANGE-OVER BREAK BEFORE MAKE CONTACT
			CURRENT TRANSFORMER		COIL OF A MECHANICALLY LATCHED RELAY		DELAYED ACTION (IN THE DIRECTION OF MOVEMENT FROM THE ARC TOWARDS ITS CENTRE)
	SWITCH DISCONNECTOR	⌀ X	CONNECTING TERMINAL		INDICATOR ELECTROMECHANICAL ELEMENT		POSITION SWITCH (LIMIT SWITCH) MAKE CONTACT
	CONTACTOR		BUZZER		LAMP GENERAL SYMBOL		POSITION SWITCH (LIMIT SWITCH) BRAKE CONTACT
	LOCK WITH FREE KEY WHEN THE DEVICE IS IN OPEN POSITION		INDICATING INSTRUMENT GENERAL SYMBOL		SEMICONDUCTOR DIODE		OPERATED BY PUSHING
	LOCK WITH FREE KEY WHEN THE DEVICE IS IN CLOSE POSITION		INTEGRATING INSTRUMENT GENERAL SYMBOL		LED		OPERATED BY TURNING
	PLUG AND SOCKET (MALE AND FEMALE)		DISCONNECTING FUSE, NOT WITH LIVE CIRCUIT AND WITH MECHANICAL LINKAGE (STRIKER FUSE)		TRANSDUCER OF ALTERNATING CURRENT MEASURE INTO DIRECT CURRENT SIGNAL		THREE HELD POSITIONS TURNING SWITCH
	VOLTAGE TRANSFORMER WITH TWO WINDINGS		OPERATING DEVICE GENERAL SYMBOL		EARTH, GROUND GENERAL SYMBOL		THREE HELD POSITIONS TURNING SWITCH WITH SPRING THROWBACK TO THE GENERAL POSITION
	VOLTAGE TRANSFORMER WITH THREE WINDINGS		COIL OF A TIME DELAYED OPERATING RELAY		MAKE CONTACT	----------	MECHANICAL, PNEUMATIC OR HYDRAULIC CONNECTION

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Nacrtao Drawn	D.Turković	Nacrt DWG	MSB / SECTION 6 & 7 & 8 Table symbol		
Vidio View	J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
Datum Date	09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet	60 / 61
				Revizija Revision	A



iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Soici bb tel. +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 6 - el. generator no. 3	
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 61 / 62 — Revizija Revision A



iNMEL d.o.o. KOSTRENA Croatia / 51221 Kostrena / Soici bb tel +385 51 583 900 / fax +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 6 - el. generator no. 3		
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 62 / 63	Revizija Revision A

01	02	03	04	05	06	07	08	09	10	11	12

GEAR MOTOR MCH
UNDERVOLTAGE RELEASE MN
FAULT TRIP INDICATION SDE
SHUNT RELEASE MX1
CLOSING RELEASE XF
AUXILIARI OF1
AUXILIARI OF4

P61/4 6F12.1

AUT MAN
6S3
CH10

7X1/ Ø 9
7X1/ Ø 10

6K15 12
SHORE CONN.
6U1 18

6K12 14
7K21 74
6K13 14
6S12 4

6S11 4
6P6 4
6S5 4
BLACKOUT BYPASS

6X2/ Ø 20
6X2/ Ø 23

6Q1
NT10H1

TRIP UNIT
SDE
M
CH
MN
XF
MX
OF4
OF3
OF2
OF1

P65/6F21.1/5
P64/6U2.1-28/6
P65/6K14.A1/5
P64/6U2.1-27/6
P64/6U2.1-26/6

6K10 A1/A2

6K10 11/14
6X2/ Ø 20 Ø 21

P61/4 6F12.2

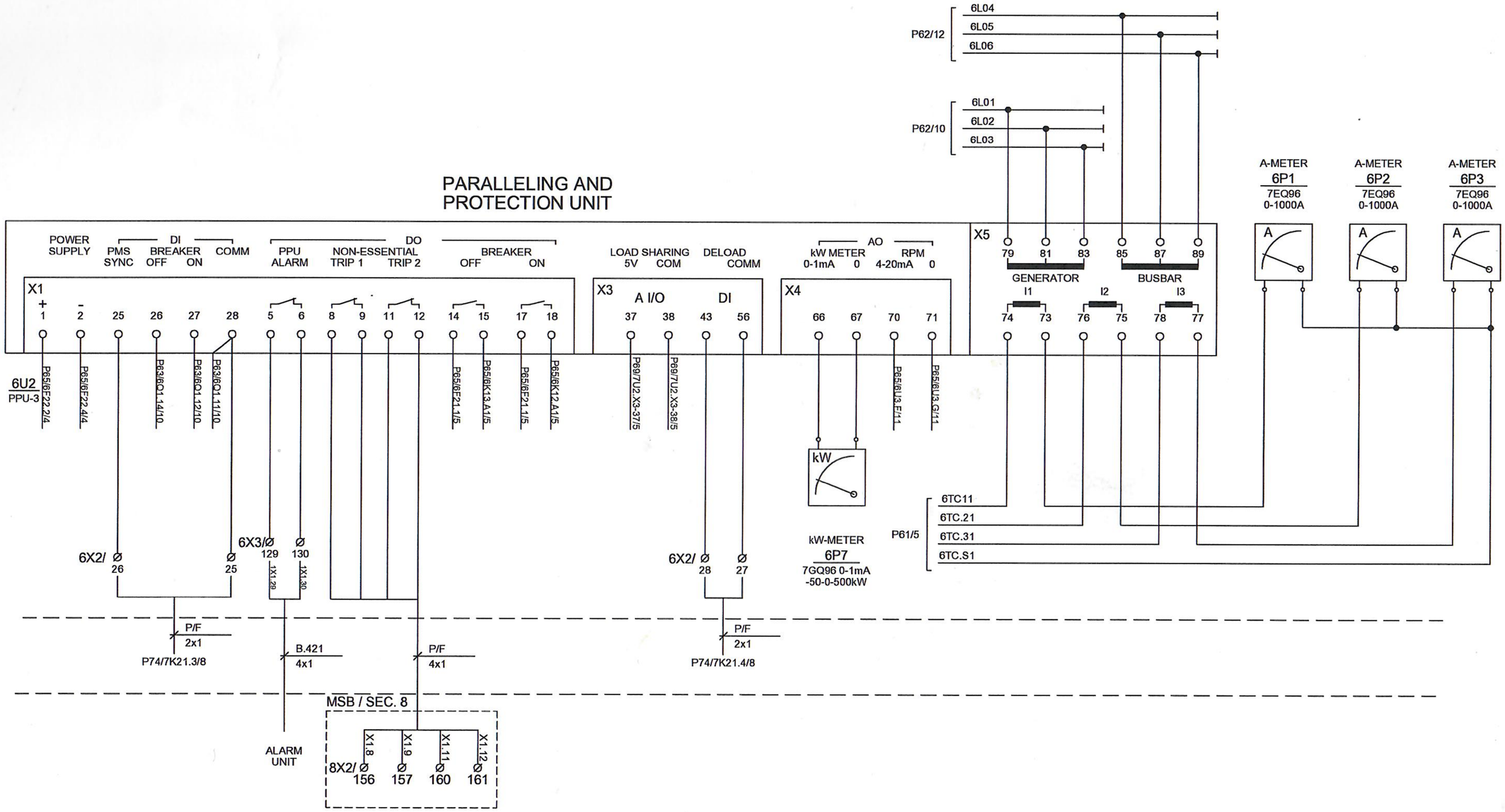
60.13
230V AC

11-14	O	/ 11
21-24	O	65/9
31-34	O	/

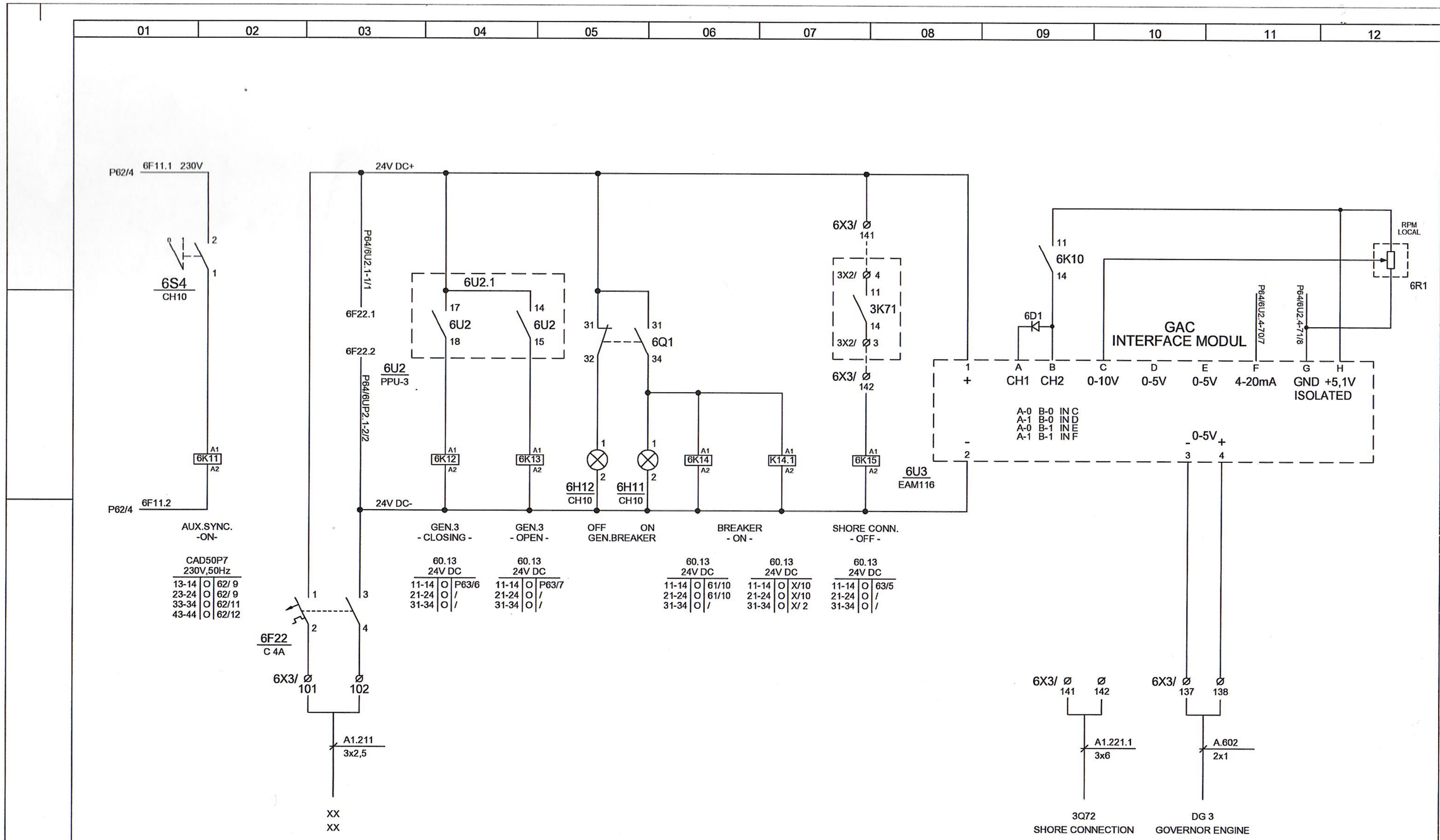
iNMEL d.o.o. KOSTRENA Croatia / 51221 Kostrena / Soici bb tel. +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 6 - el. generator no. 3	
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 63 / 64 — Revizija Revision A

01	02	03	04	05	06	07	08	09	10	11	12

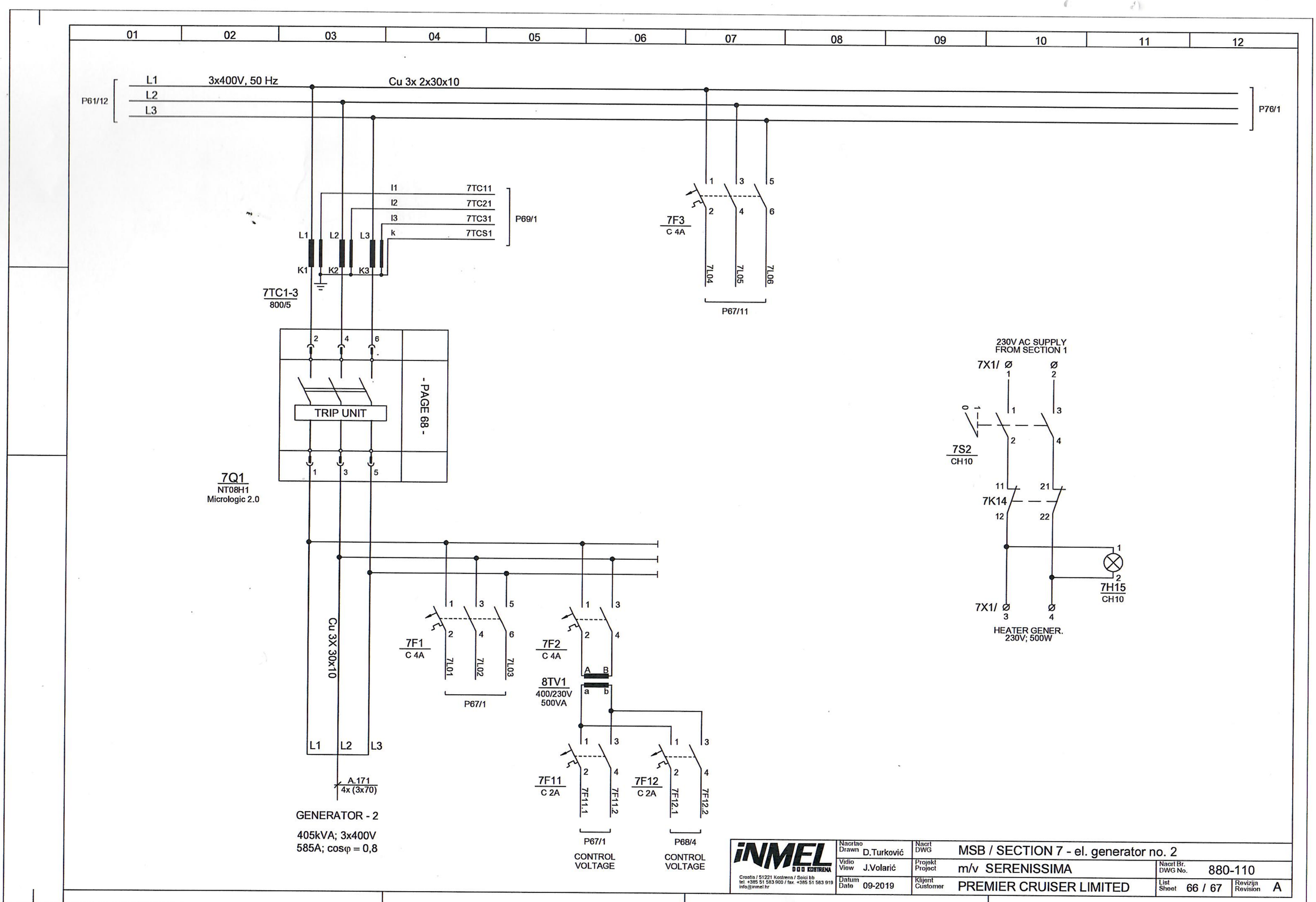
PARALLELING AND PROTECTION UNIT



iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Soici bb tel. +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 6 - el. generator no. 3	
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 64 / 65 — Revizija Revision A

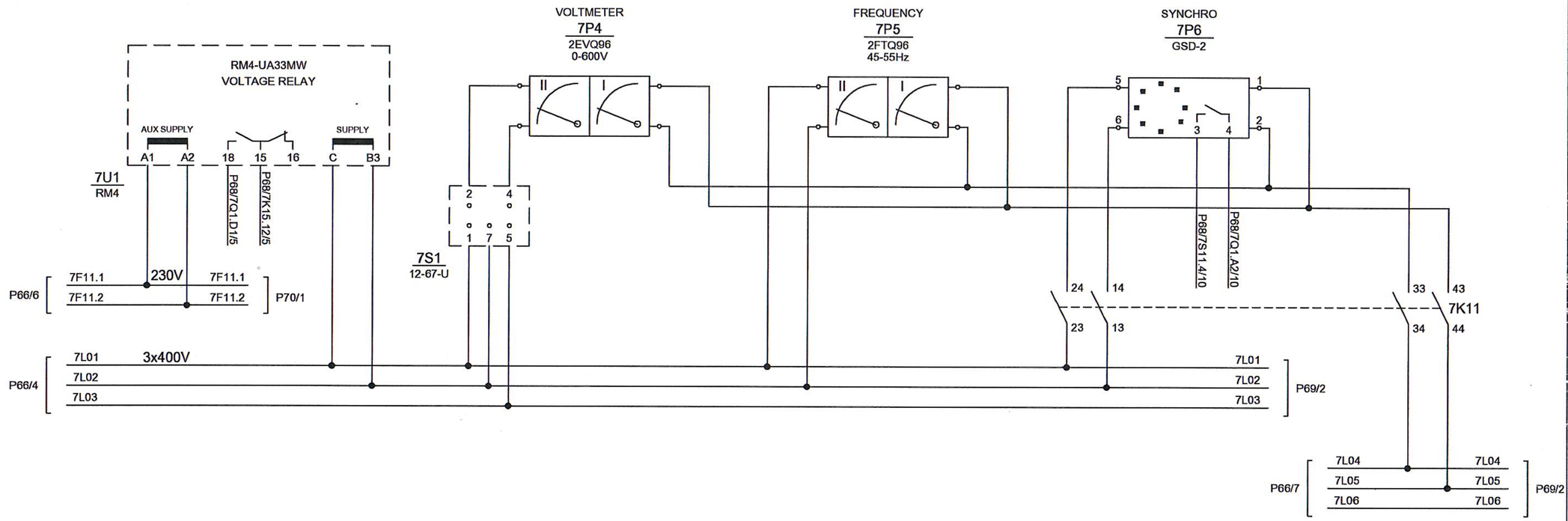


iNMEL d.o.o. KOSTRENA Croatia / 51221 Kostrena / Solci bb tel. +385 51 583 900 / fax +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 6 - el. generator no. 3	
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 65 / 66 — Revizija Revision A



iNMEL d.o.o. KOSTRENA Croatia / 51221 Kostrena / Soici bb tel +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković Vidio View J.Volarić Datum Date 09-2019	Nacrt DWG MSB / SECTION 7 - el. generator no. 2 Projekt Project m/v SERENISSIMA Klijent Customer PREMIER CRUISER LIMITED	Nacrt Br. DWG No. 880-110 List Sheet 66 / 67 Revizija Revision A

01	02	03	04	05	06	07	08	09	10	11	12



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	Vidio / View: J.Volarić	Projekt / Project: m/v SERENISSIMA	Nacrt Br. / DWG No.: 880-110	
	Datum / Date: 09-2019	Klijent / Customer: PREMIER CRUISER LIMITED	List / Sheet: 67 / 68	Revizija / Revision: A

01	02	03	04	05	06	07	08	09	10	11	12

P61/4 6F12.1

GEAR MOTOR	MCH
UNDERVOLTAGE RELEASE	MN
FAULT TRIP INDICATION	SDE
SHUNT RELEASE	MX1
CLOSING RELEASE	XF
AUXILIARI	OF1
AUXILIARI	OF4

AUT / MAN
7S3 CH10
7X1/ Ø 7
7X1/ Ø 8
7K15 SHORE CONN.
7U1
7K12
7K21
7K13
7S12
7S11
7P6
7S5
BLACKOUT BYPASS
P70/7F21.1/5
P69/7U2.1-28/6
7X2/ Ø 20
7X2/ Ø 22
7X2/ Ø 23
7X2/ Ø 24
TRIP UNIT
SDE
CH
M
MN
XF
MX
OF4
OF3
OF2
OF1
7Q1 NT08H1
P70/7K14.A1/5
P69/7U2.1-27/6
P69/7U2.1-26/6
7K10
7X2/ Ø 20
7X2/ Ø 21
P66/4 7F12.2

72

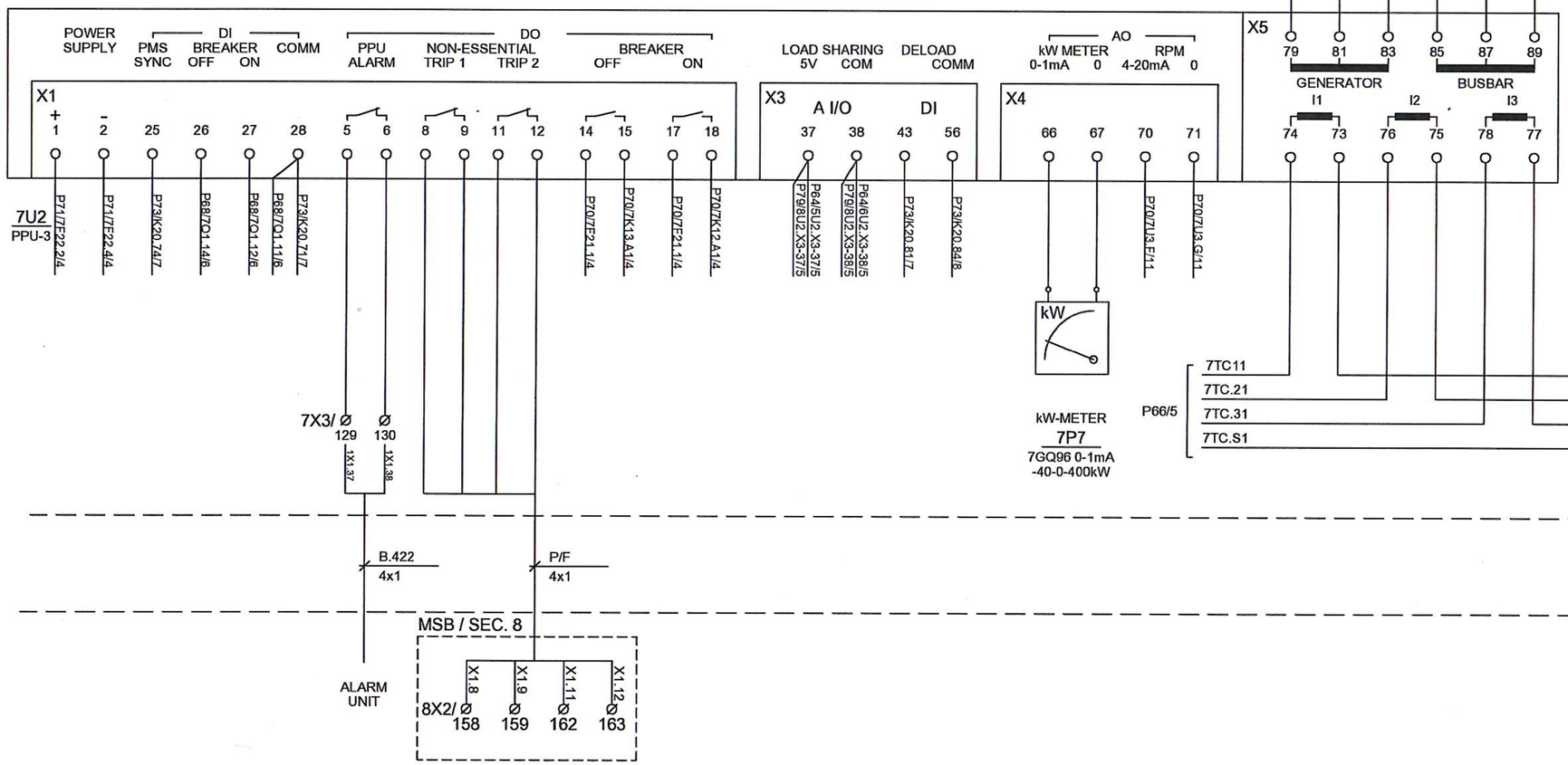
60.13
230V AC

11-14	O	/ 11
21-24	O	70/9
31-34	O	/

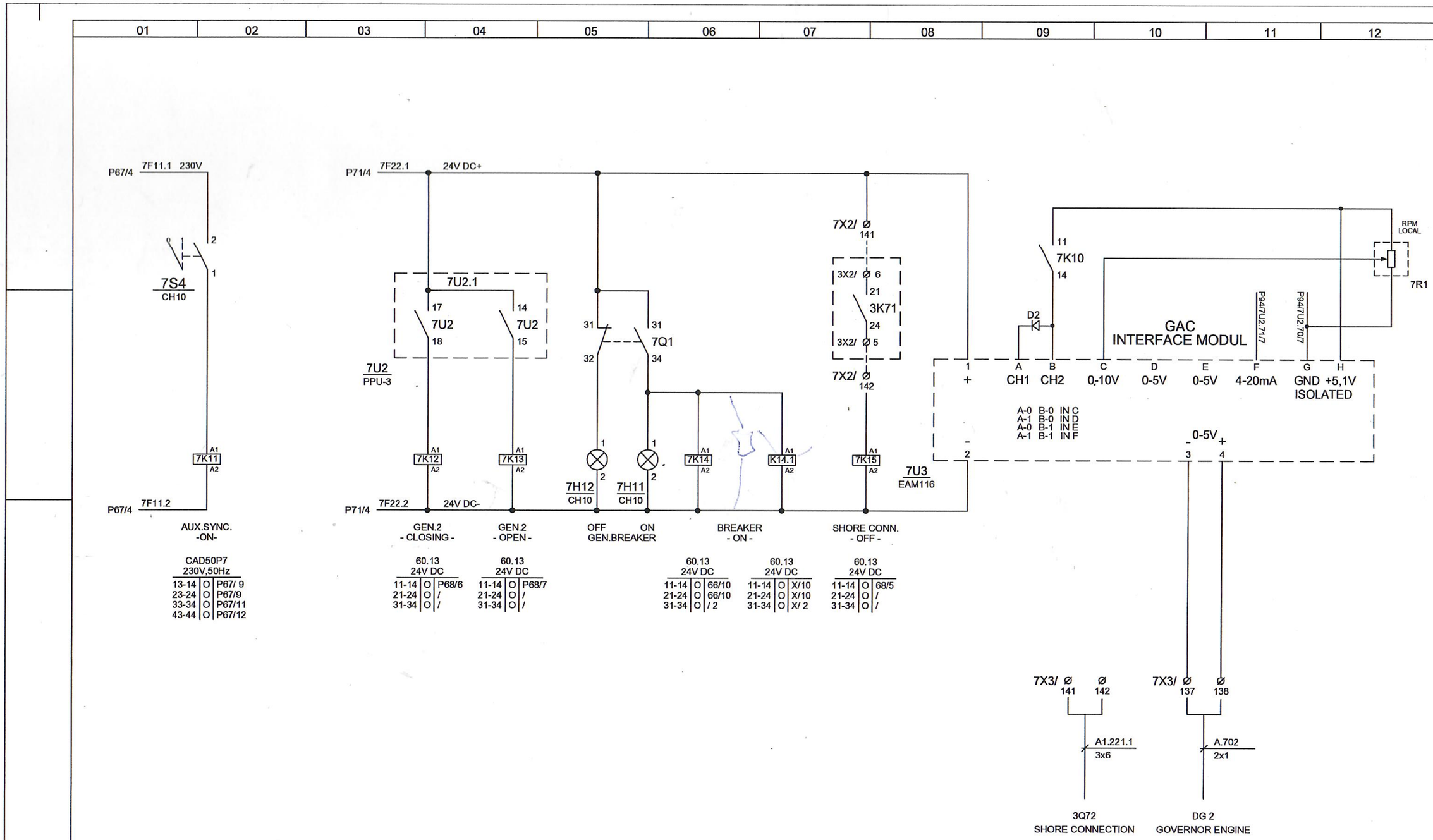
iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Soici bb tel. +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG MSB / SECTION 7 - el. generator no. 2		
	Vidio View J.Volarić	Projekt Project m/v SERENISSIMA	Nacrt Br. DWG No. 880-110	
	Datum Date 09-2019	Klijent Customer PREMIER CRUISER LIMITED	List Sheet 68 / 69	Revizija Revision A

01	02	03	04	05	06	07	08	09	10	11	12

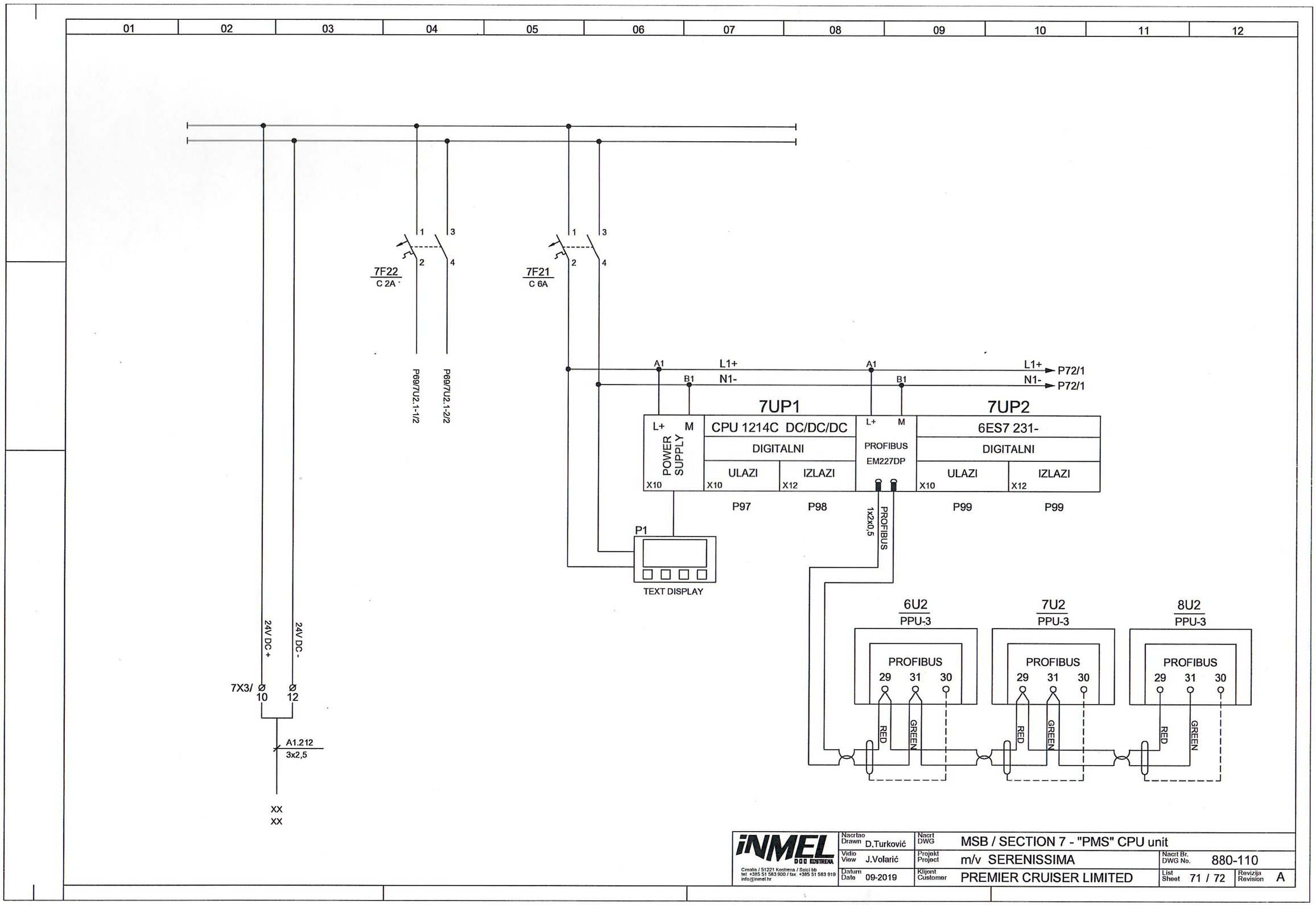
PARALLELING AND PROTECTION UNIT



iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Soici bb tel. +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković Vidio View J.Volarić Datum Date 09-2019	Nacrt DWG MSB / SECTION 7 - el. generator no. 2 Projekt Project m/v SERENISSIMA Klijent Customer PREMIER CRUISER LIMITED	Nacrt Br. DWG No. 880-110 List Sheet 69 / 70 Revizija Revision A



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iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Soici bb tel +385 51 583 900 / fax +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 7 - "PMS" CPU unit		
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 71 / 72	Revizija Revision A

01 02 03 04 05 06 07 08 09 10 11 12

CPU 1214 C
6ES7 214-1AG40-OXBO

7UP1
S7-1214C
10 DQ

NAPAJANJE
"SUPPLY"

DG 1 — READY SHUT DOWN COMM.

BREAKER 1 — AUTOM. TRIP OFF ON

DG 2 — READY SHUT DOWN COMM.

BREAKER 2 — AUTOM. TRIP OFF ON

X10

L+	M	1M	DI a.0	DI a.1	DI a.2	DI a.3	DI a.4	DI a.5	DI a.6	DI a.7	DI b.0	DI b.1	DI b.2	DI b.3	DI b.4	DI b.5

P96/10 L1+
P96/10 N1-

4A

L1+ → P98/1
N1- → P98/1

4A

7X2/ Ø 12 13 14 15 — X1.51 X1.52 K101 K102

7X2/ Ø 20 21 22 23 24 — 68/11 68/12 68/3 68/8 68/9

P/F
4x1

P/F
5x1

A.704
5x1

P/F
5x1

P68/7Q1

MSB / SEC. 8

8X3/ Ø 12 13 14 15 — L1+ DI.a0 DI.a1 DI.a2 — X1.51 X1.52 K101 K102

8X2/ Ø 20 21 22 23 24 — L1+ DI.a3 DI.a4 DI.a5 DI.a6

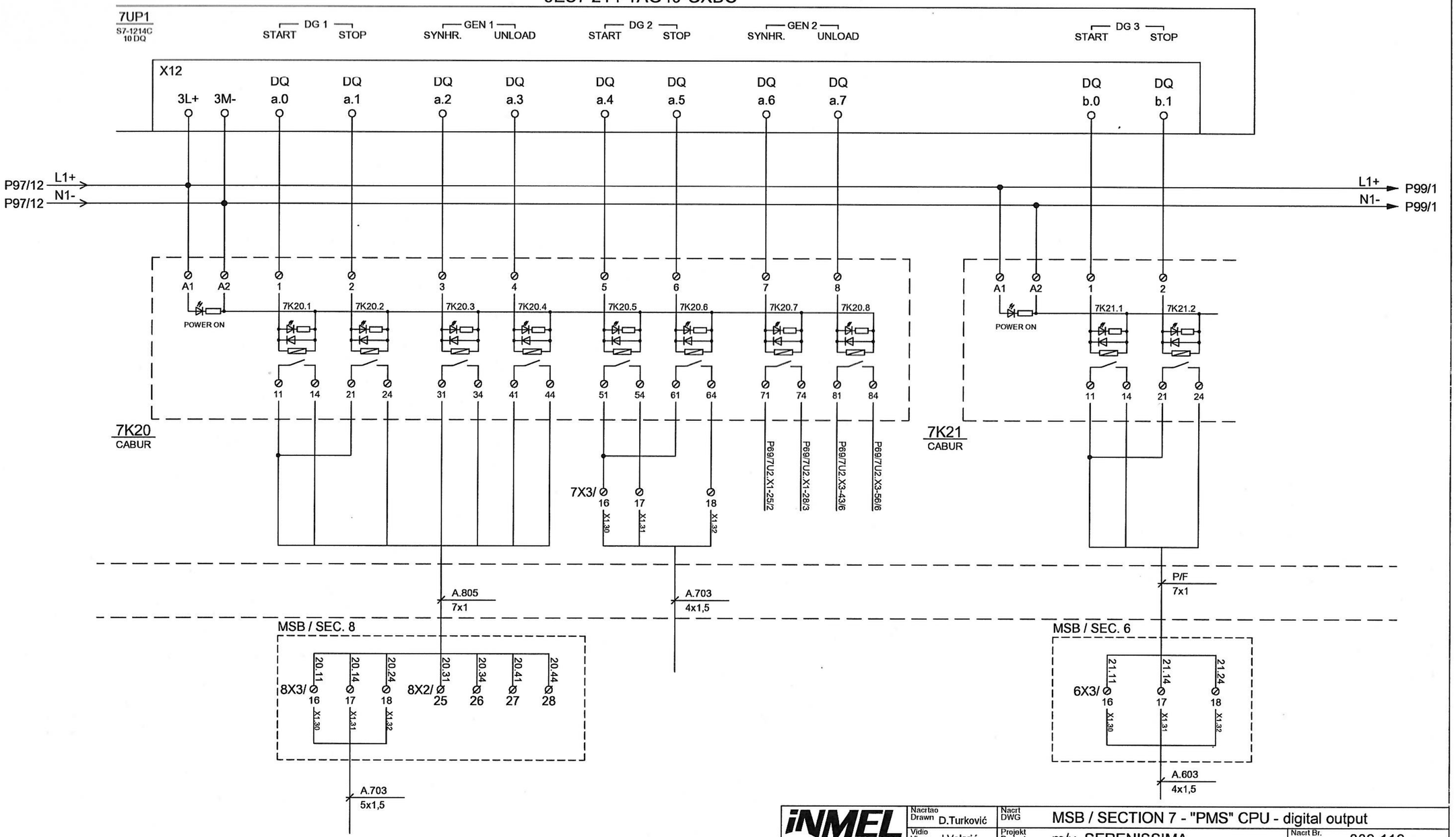
A.804
5x1,5

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Nacrtao Drawn D.Turković	Nacrt DWG MSB / SECTION 7 - "PMS" CPU digital input		
Vidio View J.Volarić	Projekt Project m/v SERENISSIMA	Nacrt Br. DWG No. 880-110	
Datum Date 09-2019	Klijent Customer PREMIER CRUISER LIMITED	List Sheet 72 / 73	Revizija Revision A

01 02 03 04 05 06 07 08 09 10 11 12

CPU 1214 C
6ES7 214-1AG40-OXBO



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	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 73 / 74	Revizija Revision A

01	02	03	04	05	06	07	08	09	10	11	12

CPU 1214 C
6ES7 214-1AG40-OXBO

7UP2
S7-1214C
DI / DQ

NAPAJANJE "SUPPLY"

DG 3: READY, SHUT DOWN, COMM.

BREAKER 3: AUTOM., TRIP, OFF, ON

START BOW TRUSTER

GEN 3: SYNHR., UNLOAD

BREAKER / BLACKOUT: GEN 1, GEN 2, GEN 3

PMS FAILURE

START BOW THRUSTER

X10: L+, M, 1M, DI a.0, DI a.1, DI a.2, DI a.3, DI a.4, DI a.5, DI a.6, DI a.7

X12: 3L+, 3M-, DQ a.0, DQ a.1, DQ a.2, DQ a.3, DQ a.4, DQ a.5, DQ a.6

P98/12 L1+
P98/12 N1-

4A

L1+ → P5
N1- → P5

3 4 5 6 7 8

7K21.3 7K21.4 7K21.5 7K21.6 7K21.7 7K21.8

A1 7K22 A2

60.13
24V DC
11-14 | O | P68/7

31 34 41 44 51 54 61 64 71 74 81 84

7K21
CABUR

7X1/ 5 6 7 8 9 10 7X3/ 31 32

BS3.3 BK12.14 JS3.3 JK12.14 BS3.3 BK12.14 JX1.39 JX1.40

11 7K22 14

P/F 4x1
P/F 5x1
P/F 2x1
P/F 2x1
P/F 2x1
P/F 2x1
P/F 2x1
P/F 2x1
A1.222 4x1
P/F 2x1

MSB / SEC. 6

6X3/ 20 21 22 23 — L1+, DI.a0, DI.a1, DI.a2 — X1.30 X1.31 X1.32 X1.32

MSB / SEC. 8

6X2/ 20 21 22 23 24 — L1+, DI.a3, DI.a4, DI.a5, DI.a6

8X2/ 29 — DI.a7

MSB / SEC. 6

6X2/ 25 26 27 28 — 21.31, 21.34, 21.41, 21.44

MSB - SECT.8 P78/6
MSB / SECT.7 P68/6
MSB / SECT.6 P63/6
ALARM UNIT

MSB / SEC. 8

8X2/ 30 31 — 22.11, 22.14

A.604
5x1,5

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	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA — Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED — List Sheet 74 / 75 — Revizija Revision A

01 02 03 04 05 06 07 08 09 10 11 12

CPU 1214 C
6ES7 214-1AG40-OXBO

PROFIBUS
X X

7UP1
S7-1214C
PROFIBUS

6U2
PPU-3

PROFIBUS
29 31 30

RED
GREEN

7U2
PPU-3

PROFIBUS
29 31 30

RED
GREEN

8U2
PPU-3

PROFIBUS
29 31 30

RED
GREEN

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Nacrtao / Drawn	D.Turković	Nacrt / DWG	MSB / SECTION 7 - "PMS" CPU - Profibus communic.		
Vidio / View	J.Volarić	Projekt / Project	m/v SERENISSIMA	Nacrt Br. / DWG No.	880-110
Datum / Date	09-2019	Klijent / Customer	PREMIER CRUISER LIMITED	List / Sheet 75 / 76	Revizija / Revision A

01 02 03 04 05 06 07 08 09 10 11 12

P66/1

L1
L2
L3

3x400V, 50 Hz

Cu 3x 2x30x10

P121/1

I1 8TC11
I2 8TC21
I3 8TC31
k 8TCS1

P79/1

L1 L2 L3

K1 K2 K3

8TC1-3
800/5

2 4 6

TRIP UNIT

- PAGE 78 -

1 3 5

8Q1
NT08H1
Micrologic 2.0

1 3 5

8F3
C 4A

2 4 6

8L04 8L05 8L06

P77/11

230V AC SUPPLY
FROM SECTION 1

8X1/ Ø 1 Ø 2

0 1

8S2
CH10

1 3

2 4

11 21

8K14

12 22

1

2

8H15
CH10

8X1/ Ø 3 Ø 4

HEATER GENER.
230V; 500W

Cu 3x 30x10

1 3 5

8F1
C 4A

2 4 6

8L01 8L02 8L03

P77/1

1 3

8F2
C 4A

2 4

A B

8TV1
400/230V
500VA

a b

1 3

8F11
C 2A

2 4

8F11.1 8F11.2

P77/1

CONTROL
VOLTAGE

1 3

8F12
C 2A

2 4

8F12.1 8F12.2

P78/4

CONTROL
VOLTAGE

L1 L2 L3

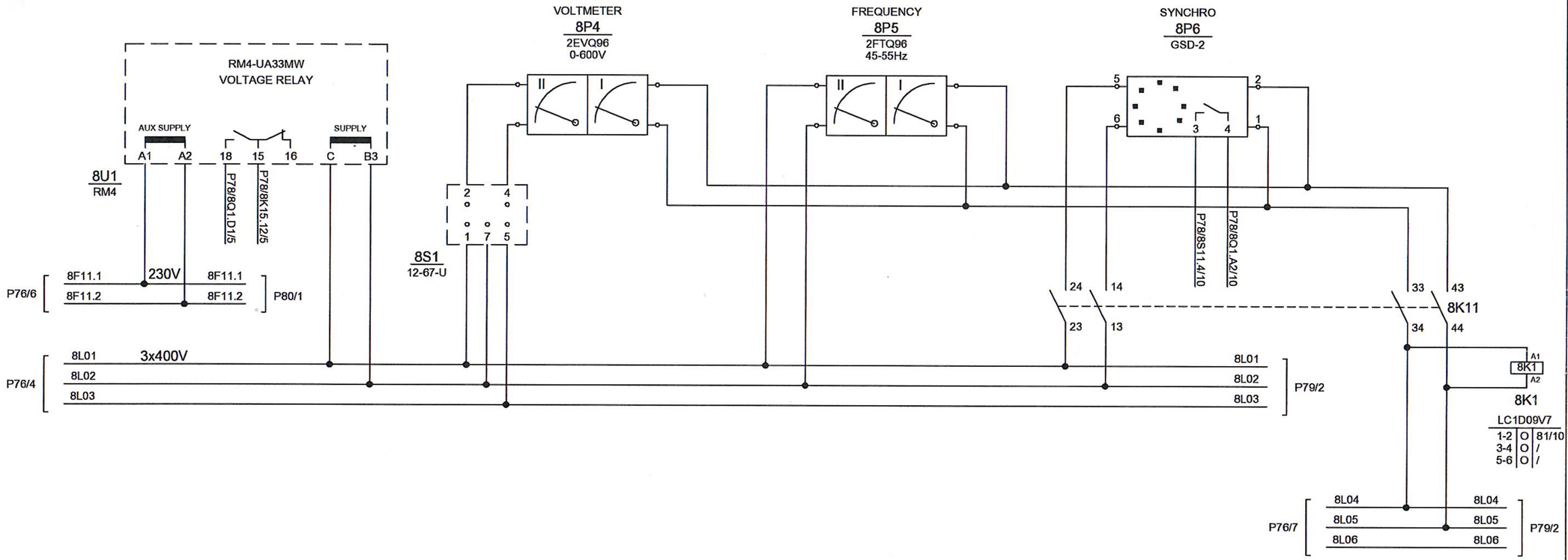
A.181
4x (3x70)

GENERATOR - 1

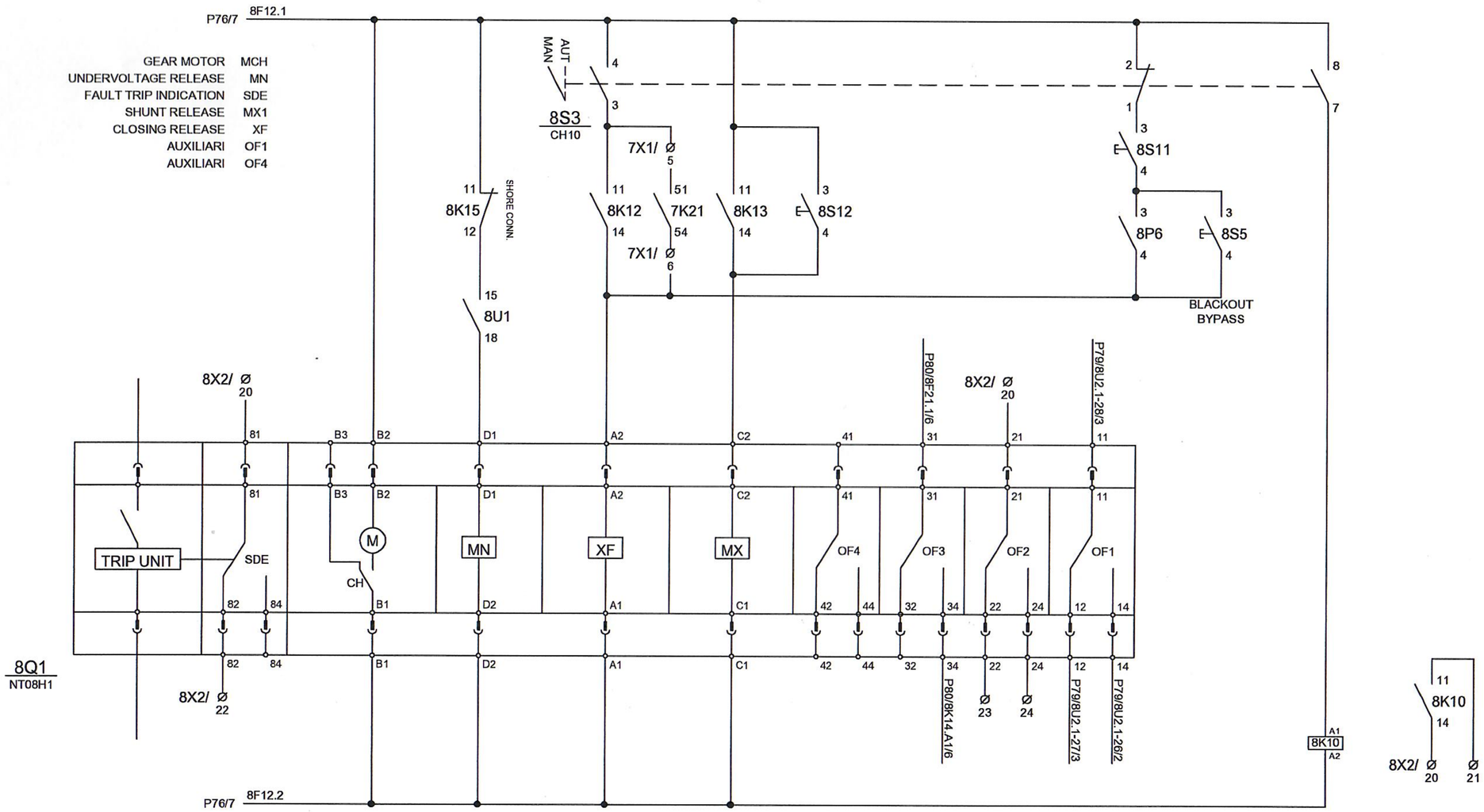
405kVA; 3x400V
585A; cosφ = 0,8

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Nacrtao Drawn	D.Turković	Nacrt DWG	MSB / SECTION 8 - el. generator no. 1		
Vidio View	J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
Datum Date	09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet	76 / 77
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	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
	Datum Date 09-2019	Kljent Customer	PREMIER CRUISER LIMITED	List Sheet 77 / 78	Revizija Revision A

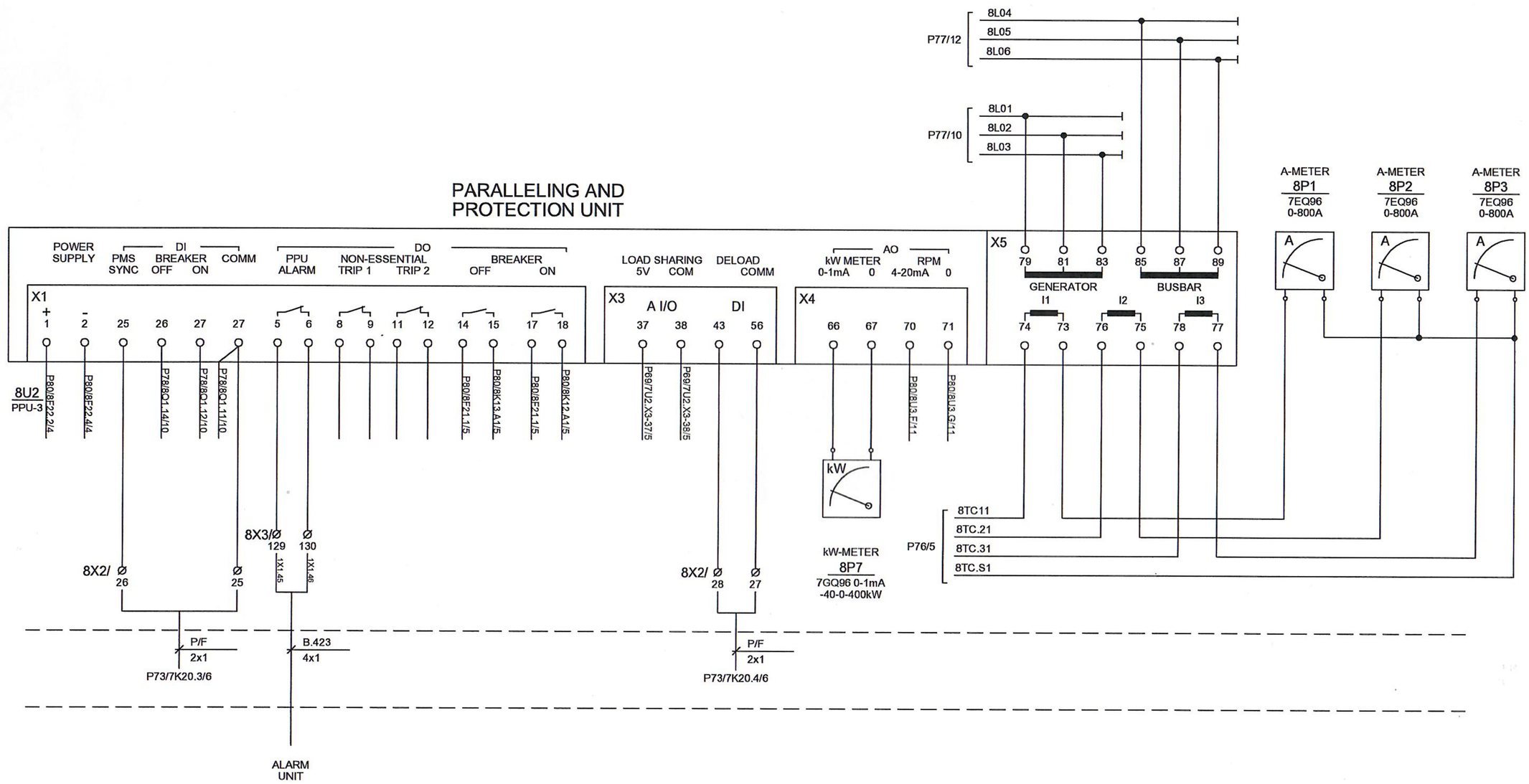


60.13
230V AC

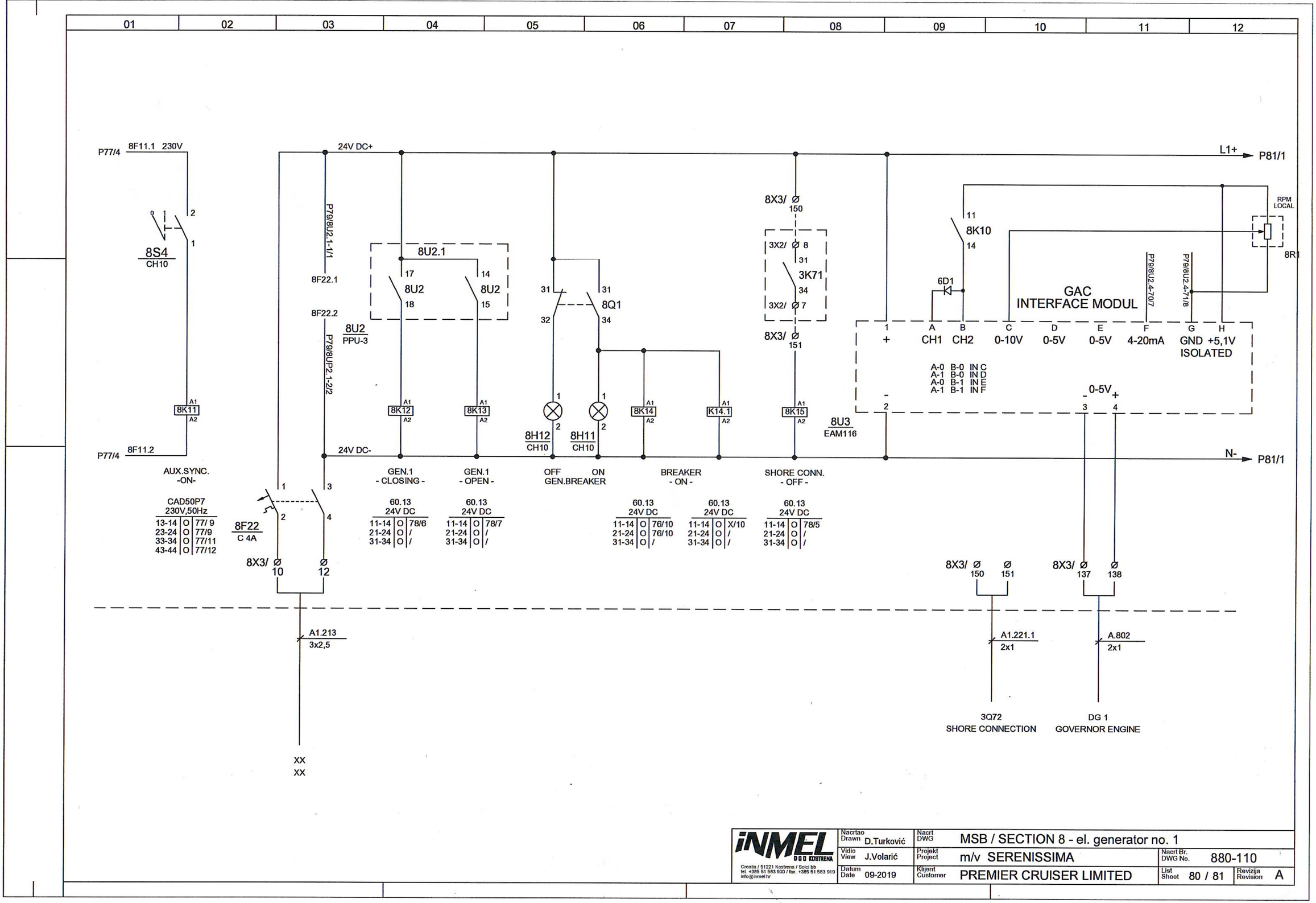
11-14	O	/ 11
21-24	O	80/9
31-34	O	/

iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Sasi bb tel +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG	MSB / SECTION 8 - el. generator no. 1
	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA — Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED — List Sheet 78 / 79 — Revizija Revision A

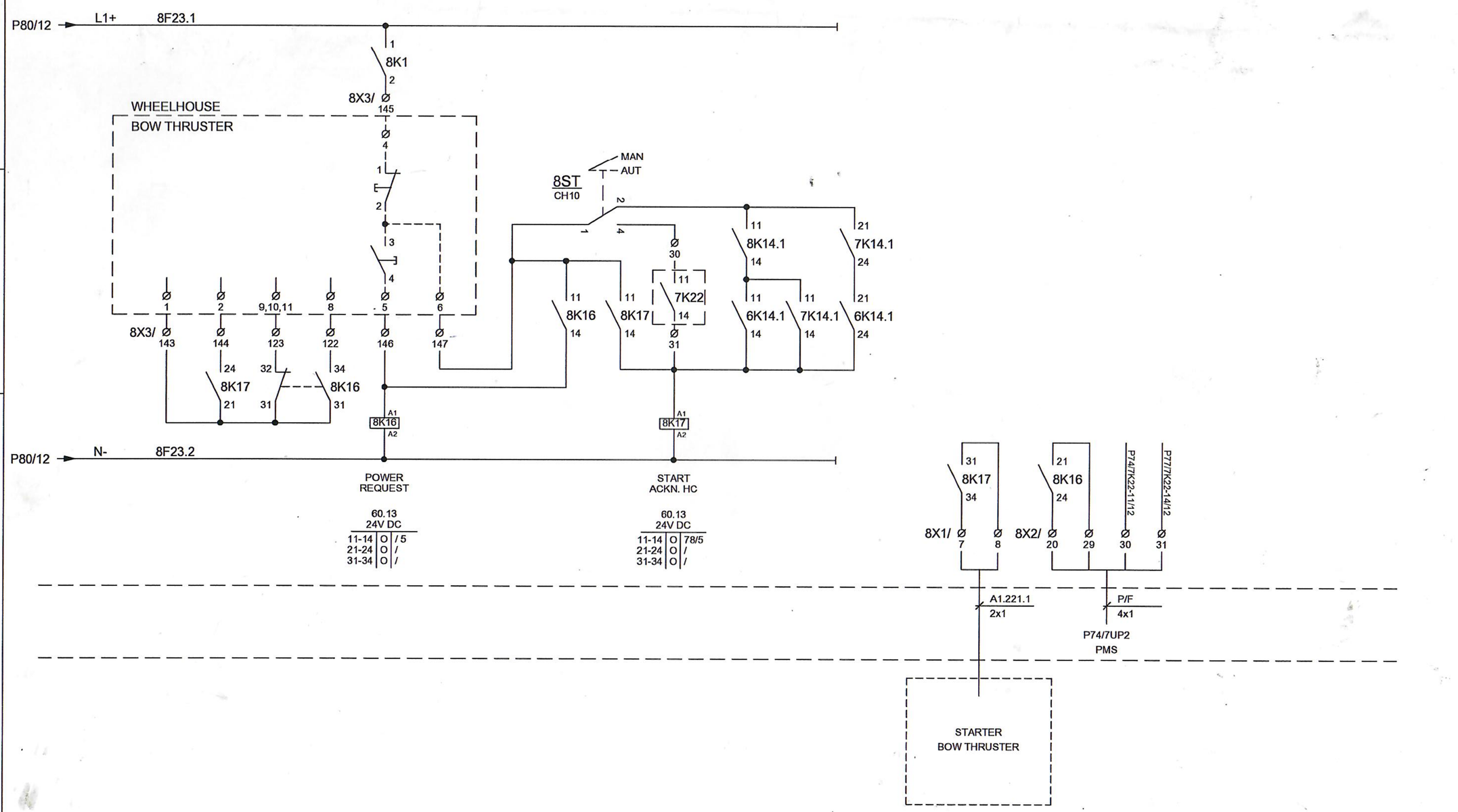
PARALLELING AND PROTECTION UNIT



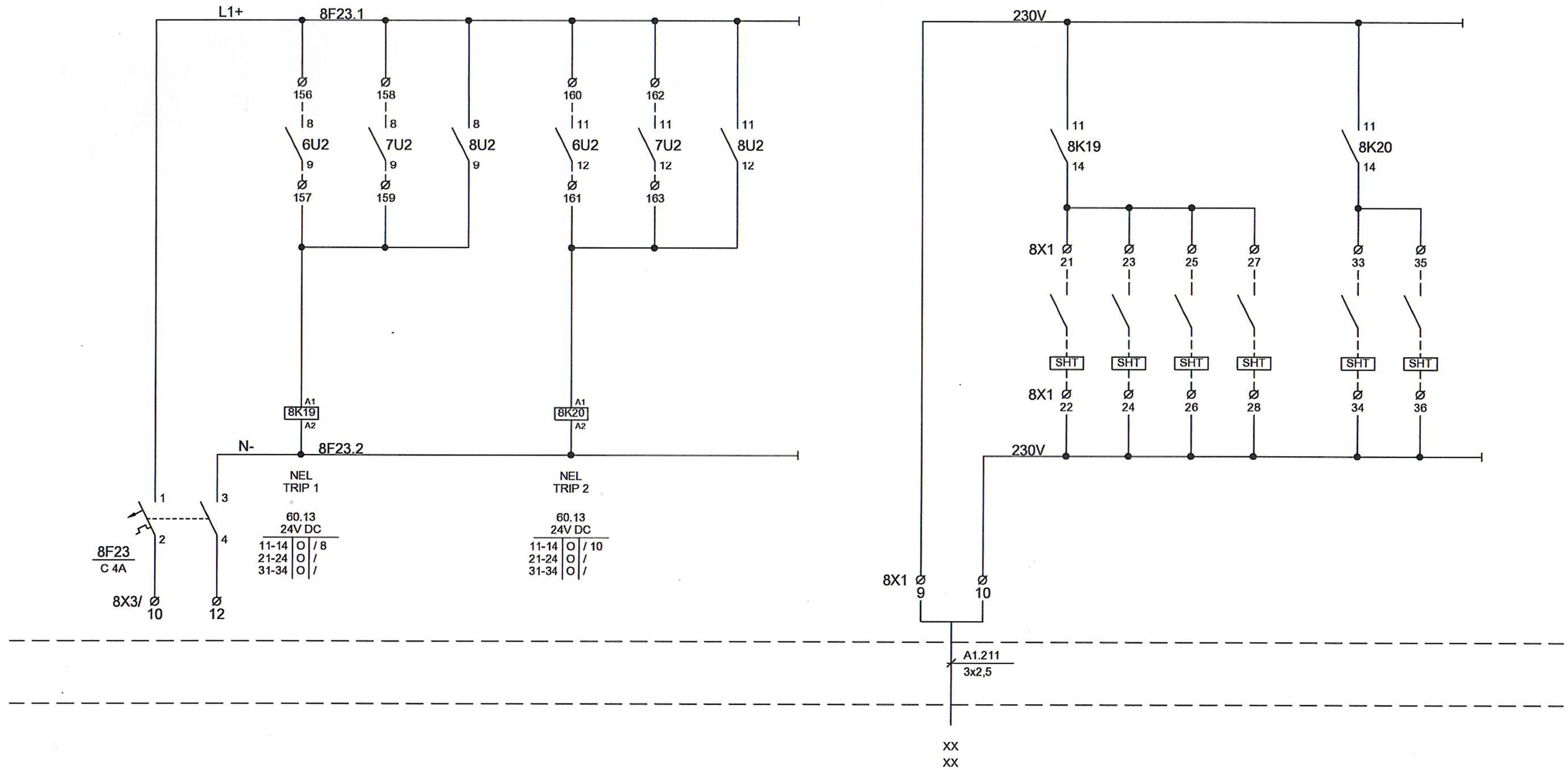
iNMEL DOO KOSTRENA Croatia / 51221 Kostrena / Soici bb tel. +385 51 583 900 / fax. +385 51 583 919 info@inmel.hr	Nacrtao Drawn D.Turković	Nacrt DWG MSB / SECTION 8 - el. generator no. 1	
	Vidio View J.Volarić	Projekt Project m/v SERENISSIMA	Nacrt Br. DWG No. 880-110
	Datum Date 09-2019	Klijent Customer PREMIER CRUISER LIMITED	List Sheet 79 / 80 — Revizija Revision A



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	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA — Nacrt Br. DWG No. 880-110
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	Vidio / View: J.Volarić	Projekt / Project: m/v SERENISSIMA	Nacrt Br. / DWG No.: 880-110	
	Datum / Date: 09-2019	Klijent / Customer: PREMIER CRUISER LIMITED	List / Sheet: 81 / 82	Revizija / Revision: A



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	Vidio View J.Volarić	Projekt Project	m/v SERENISSIMA	Nacrt Br. DWG No.	880-110
	Datum Date 09-2019	Klijent Customer	PREMIER CRUISER LIMITED	List Sheet 82 / 83	Revizija Revision A