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				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) INDEX	ELECTRICAL DIAGRAMS STANDARD			
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.			GSTZ112_A1.DWG	SHEET	1 OF	42
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.			SERIAL CODE	N'DOC.	GSTZ112	NEXT
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.						


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IDEA R. 2019

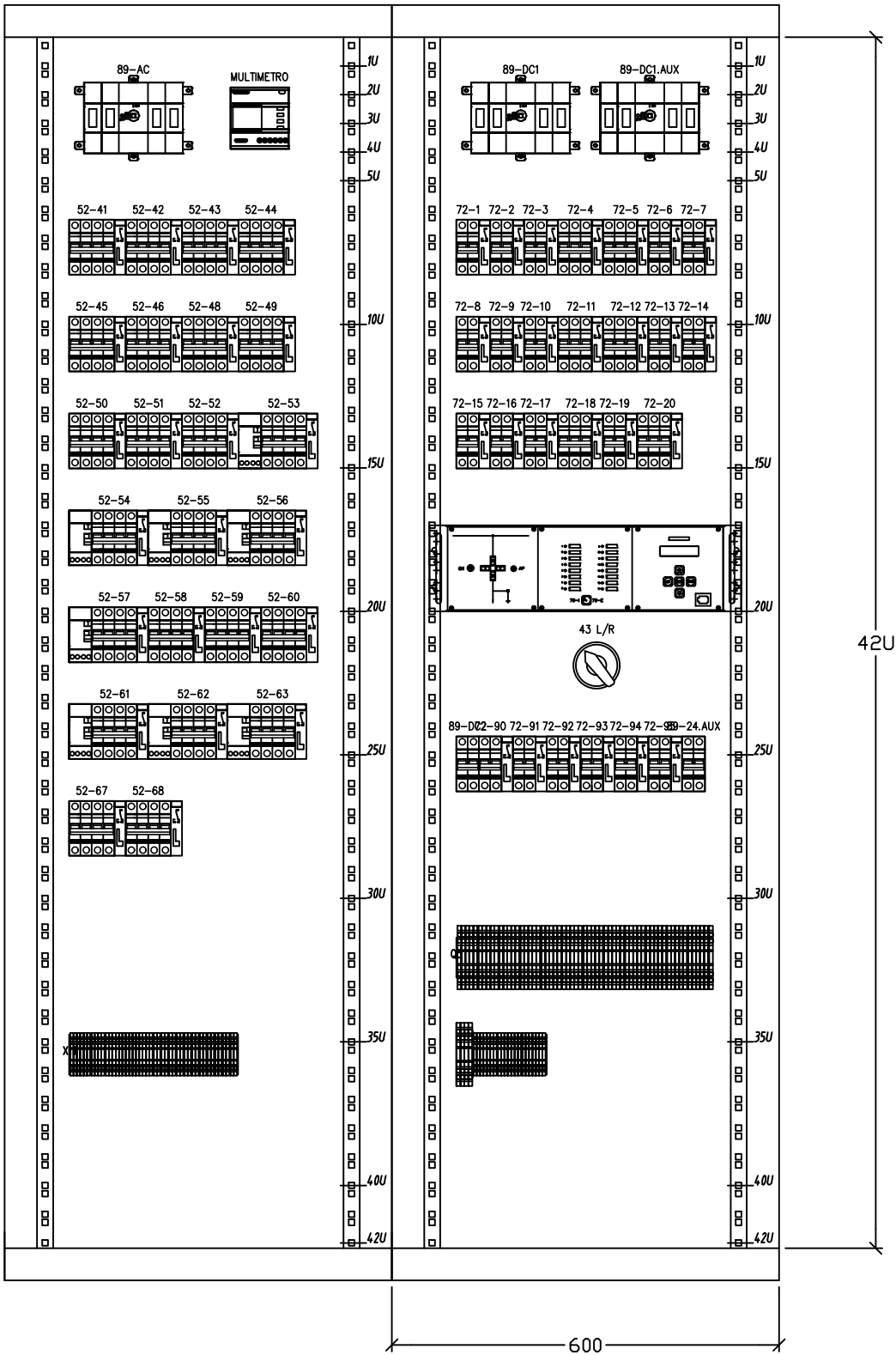
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2	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	8	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	18	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	20	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	21	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	22	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	24	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	26	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	27	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	28	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	29	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	30	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	31	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	32	FIRST APPROVED EDITION	31/03/2020	Berasi P.
2	33	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	39	FIRST APPROVED EDITION	31/03/2020	Berasi P.
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2	42	FIRST APPROVED EDITION	31/03/2020	Berasi P.

				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) REVIEW LIST	ELECTRICAL DIAGRAMS STANDARD							
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.			GSTZ112_A1.DWG			SHEET	2 OF	42		
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.										
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.										
								SERIAL CODE				N°DOC.	GSTZ112	NEXT	3

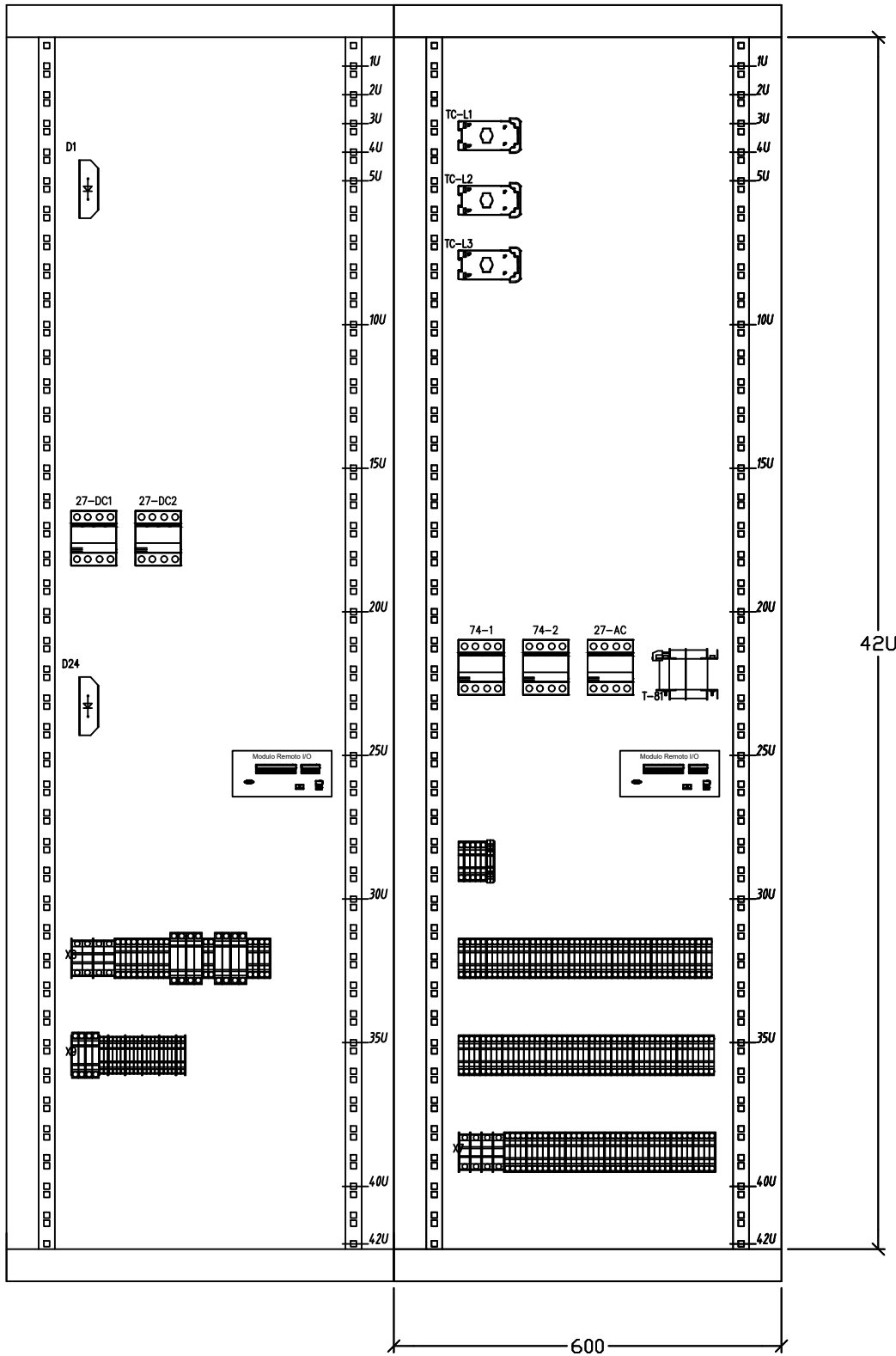
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A	<table><tr><th>TERMINAL BOARD</th><th>SITE</th><th>DESCRIPTION</th></tr><tr><td>Q5</td><td>+GSTZ112_DC</td><td>TERMINAL BOARD: POWER SUPPLY DEVICE</td></tr><tr><td>X7</td><td>+GSTZ112_AC</td><td>TERMINAL BOARD: AC DISTRIBUTION</td></tr><tr><td>X8</td><td>+GSTZ112_DC</td><td>TERMINAL BOARD: DC1 DISTRIBUTION</td></tr><tr><td>X9</td><td>+GSTZ112_DC</td><td>TERMINAL BOARD: DC2 DISTRIBUTION</td></tr><tr><td>X10</td><td>+GSTZ112_DC</td><td>TERMINAL BOARD: ALARMS OF DC CIRCUITS</td></tr><tr><td>X11</td><td>+GSTZ112_AC</td><td>TERMINAL BOARD: ALARMS OF AC CIRCUITS</td></tr></table>				TERMINAL BOARD	SITE	DESCRIPTION	Q5	+GSTZ112_DC	TERMINAL BOARD: POWER SUPPLY DEVICE	X7	+GSTZ112_AC	TERMINAL BOARD: AC DISTRIBUTION	X8	+GSTZ112_DC	TERMINAL BOARD: DC1 DISTRIBUTION	X9	+GSTZ112_DC	TERMINAL BOARD: DC2 DISTRIBUTION	X10	+GSTZ112_DC	TERMINAL BOARD: ALARMS OF DC CIRCUITS	X11	+GSTZ112_AC	TERMINAL BOARD: ALARMS OF AC CIRCUITS	<table><tr><th>CONNECTOR</th><th>SITE</th><th>DESCRIPTION</th></tr><tr><td>MI</td><td>+GSTP101</td><td>DIGITAL INPUT</td></tr><tr><td>MMI-RIO1</td><td>+RIO1</td><td>DIGITAL INPUT</td></tr><tr><td>MMI-RIO2</td><td>+RIO2</td><td>DIGITAL INPUT</td></tr><tr><td>MMO-RIO1</td><td>+RIO1</td><td>DIGITAL OUTPUT</td></tr><tr><td>MMO-RIO2</td><td>+RIO2</td><td>DIGITAL OUTPUT</td></tr><tr><td>MMP-RIO1</td><td>+RIO1</td><td>POWER SUPPLY</td></tr><tr><td>MMP-RIO2</td><td>+RIO2</td><td>POWER SUPPLY</td></tr><tr><td>MP</td><td>+GSTP101</td><td>POWER SUPPLY</td></tr><tr><td>MT</td><td>+GSTP101</td><td>CB CONTROL</td></tr></table>				CONNECTOR	SITE	DESCRIPTION	MI	+GSTP101	DIGITAL INPUT	MMI-RIO1	+RIO1	DIGITAL INPUT	MMI-RIO2	+RIO2	DIGITAL INPUT	MMO-RIO1	+RIO1	DIGITAL OUTPUT	MMO-RIO2	+RIO2	DIGITAL OUTPUT	MMP-RIO1	+RIO1	POWER SUPPLY	MMP-RIO2	+RIO2	POWER SUPPLY	MP	+GSTP101	POWER SUPPLY	MT	+GSTP101	CB CONTROL	A
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						GSTZ112_A1.DWG		SHEET	3 OF 42																																																			
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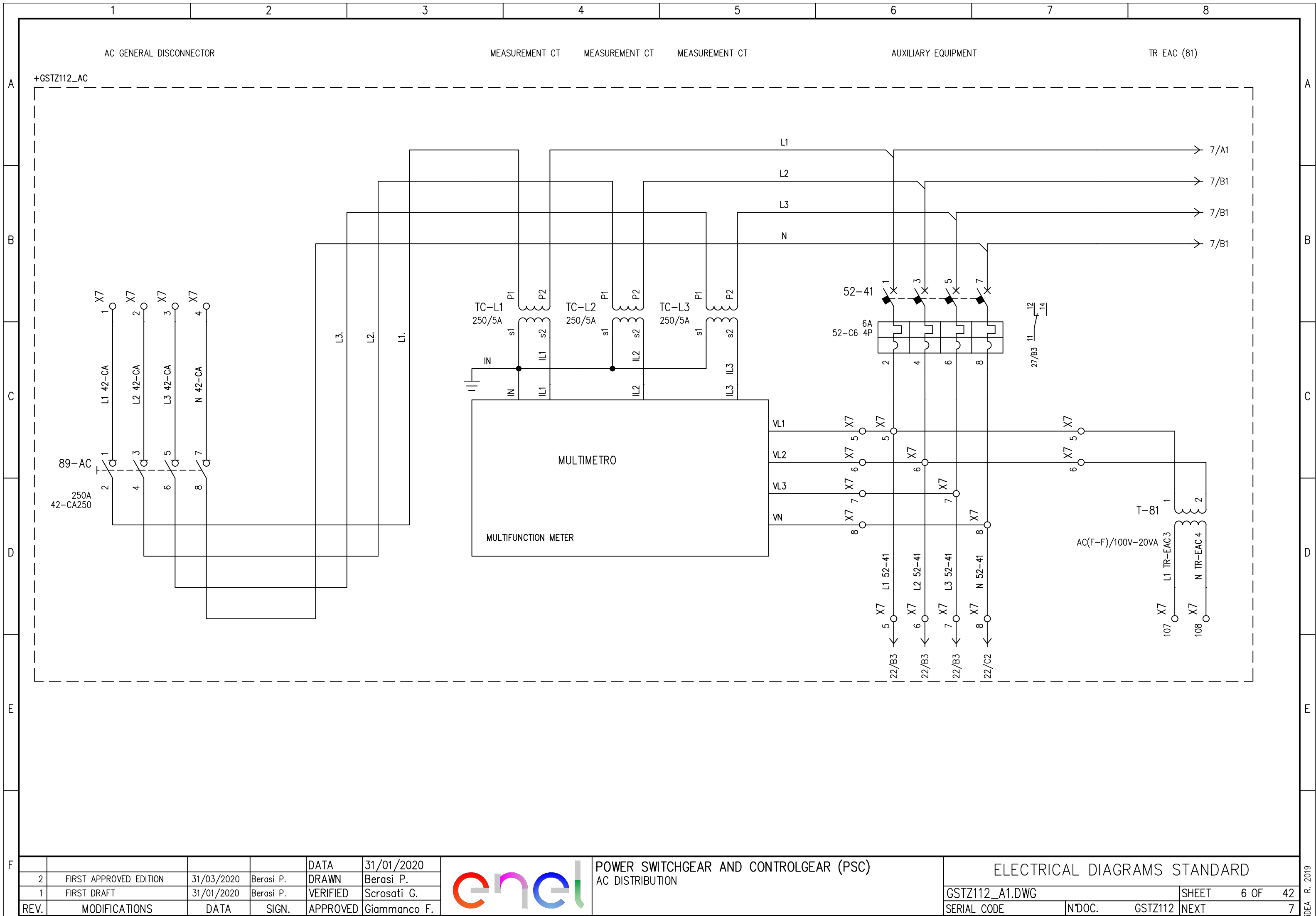
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HEATING</td><td>25A</td><td>9/B1</td></tr><tr><td>52-52</td><td>AVAILABLE</td><td>25A</td><td>9/B3</td></tr><tr><td>52-53</td><td>HVAC</td><td>25A</td><td>9/B5</td></tr><tr><td>52-54</td><td>HVAC</td><td>25A</td><td>9/B7</td></tr><tr><td>52-55</td><td>AVAILABLE</td><td>16A</td><td>10/B1</td></tr><tr><td>52-56</td><td>INTERNAL SOCKET</td><td>32A</td><td>10/B3</td></tr><tr><td>52-57</td><td>EXTERNAL SOCKET</td><td>32A</td><td>10/B5</td></tr><tr><td>52-58</td><td>EXTERNAL HEATING</td><td>20A</td><td>10/B7</td></tr><tr><td>52-59</td><td>MV CELLS HEATING</td><td>25A</td><td>11/B1</td></tr><tr><td>52-60</td><td>EXTERNAL LIGHTING (AUTOMATIC)</td><td>16A</td><td>11/B4</td></tr><tr><td>52-61</td><td>EXTERNAL LIGHTING (MANUAL)</td><td>25A</td><td>11/B7</td></tr><tr><td>52-62</td><td>INTERNAL LIGHTING</td><td>10A</td><td>12/B2</td></tr><tr><td>52-63</td><td>INTERNAL LIGHTING (RESERVE)</td><td>10A</td><td>12/B4</td></tr><tr><td>52-67</td><td>AVAILABLE</td><td>16A</td><td>12/B5</td></tr><tr><td>52-68</td><td>AVAILABLE</td><td>16A</td><td>12/B7</td></tr><tr><td>74-1</td><td>RELAY FOR MV CELLS HEATING</td><td></td><td>11/C3</td></tr><tr><td>74-2</td><td>RELAY FOR EXTERNAL LIGHTING (AUTOMATIC)</td><td></td><td>11/C6</td></tr><tr><td>89-AC</td><td>AC GENERAL DISCONNECTOR</td><td>250A</td><td>6/C1</td></tr><tr><td>MULTIMETER</td><td>MULTIFUNCTION METER</td><td></td><td>6/C3</td></tr><tr><td>T-81</td><td>TR EAC (81)</td><td>AC(F-F)/100V-20VA</td><td>6/D8</td></tr><tr><td>TC-L1</td><td>MEASUREMENT CT</td><td>MEASUREMENT CT</td><td>6/B4</td></tr><tr><td>TC-L2</td><td>MEASUREMENT CT</td><td>MEASUREMENT CT</td><td>6/B4</td></tr><tr><td>TC-L3</td><td>MEASUREMENT CT</td><td>MEASUREMENT CT</td><td>6/B5</td></tr></table>				ACRONYM	DESCRIPTION	DESCRIPTION 2	POSITION	27-AC	UNDervOLTAGE RELAY (AC)		22/B2	52-41	AUXILIARY EQUIPMENT	6A	6/B6	52-42	POWER SUPPLY STATION (PSS)	32A	7/B1	52-43	HV CIRCUIT BREAKER – MOTOR	20A	7/B3	52-44	OLTC MOTOR – HV/MV TRASNFORMER 1	6A	7/B5	52-45	FANS HV/MV TRANSFORMER 1	25A	7/B7	52-46	MOTOR PETERSEN COIL	16A	8/B1	52-48	HV CIRCUIT BREAKER – MOTOR	20A	8/B3	52-49	OLTC MOTOR – HV/MV TRASNFORMER 2	6A	8/B5	52-50	FANS HV/MV TRANSFORMER 2	25A	8/B7	52-51	CONTAINER HEATING	25A	9/B1	52-52	AVAILABLE	25A	9/B3	52-53	HVAC	25A	9/B5	52-54	HVAC	25A	9/B7	52-55	AVAILABLE	16A	10/B1	52-56	INTERNAL SOCKET	32A	10/B3	52-57	EXTERNAL SOCKET	32A	10/B5	52-58	EXTERNAL HEATING	20A	10/B7	52-59	MV CELLS HEATING	25A	11/B1	52-60	EXTERNAL LIGHTING (AUTOMATIC)	16A	11/B4	52-61	EXTERNAL LIGHTING (MANUAL)	25A	11/B7	52-62	INTERNAL LIGHTING	10A	12/B2	52-63	INTERNAL LIGHTING (RESERVE)	10A	12/B4	52-67	AVAILABLE	16A	12/B5	52-68	AVAILABLE	16A	12/B7	74-1	RELAY FOR MV CELLS HEATING		11/C3	74-2	RELAY FOR EXTERNAL LIGHTING (AUTOMATIC)		11/C6	89-AC	AC GENERAL DISCONNECTOR	250A	6/C1	MULTIMETER	MULTIFUNCTION METER		6/C3	T-81	TR EAC (81)	AC(F-F)/100V-20VA	6/D8	TC-L1	MEASUREMENT CT	MEASUREMENT CT	6/B4	TC-L2	MEASUREMENT CT	MEASUREMENT CT	6/B4	TC-L3	MEASUREMENT CT	MEASUREMENT CT	6/B5	<table><tr><th>ACRONYM</th><th>DESCRIPTION</th><th>DESCRIPTION 2</th><th>POSITION</th></tr><tr><td>27-DC1</td><td>UNDervOLTAGE RELAY (DC)</td><td>DC1 (VAUX)</td><td>22/B4</td></tr><tr><td>27-DC2</td><td>UNDervOLTAGE RELAY (DC)</td><td>DC2 (24VDC/48VDC)</td><td>22/B6</td></tr><tr><td>43 L/R</td><td>LOCAL REMOTE CONTROL / COMMANDS</td><td>IF REQUEST (SEE GSTZ112)</td><td>13/D7</td></tr><tr><td>72-1</td><td>AUXILIARY SERVICE EQUIPMENT</td><td>6A</td><td>13/B7</td></tr><tr><td>72-2</td><td>SWITCH OF</td><td>6A</td><td>14/B2</td></tr><tr><td>72-3</td><td>POWER QUALITY</td><td>6A</td><td>14/B3</td></tr><tr><td>72-4</td><td>HV CIRCUIT BREAKER – MOTOR</td><td>16A</td><td>14/B5</td></tr><tr><td>72-5</td><td>MV CIRCUIT BREAKER MOTOR – RED BUSBAR</td><td>32A</td><td>14/B7</td></tr><tr><td>72-6</td><td>HV LINE (DEVICE POWER SUPPLY)</td><td>6A</td><td>15/B2</td></tr><tr><td>72-7</td><td>HV/MV TRANFORMER 1 (DEVICE POWER SUPPLY)</td><td>6A</td><td>15/B4</td></tr><tr><td>72-8</td><td>MV LINE RED BUSBAR (DEVICE POWER SUPPLY)</td><td>10A</td><td>15/B5</td></tr><tr><td>72-9</td><td>PETERSEN COIL (DEVICE POWER SUPPLY)</td><td>6A</td><td>15/B7</td></tr><tr><td>72-10</td><td>AVAILABLE</td><td>6A</td><td>16/B2</td></tr><tr><td>72-11</td><td>HV CIRCUIT BREAKER – MOTOR</td><td>16A</td><td>16/B4</td></tr><tr><td>72-12</td><td>MV CIRCUIT BREAKER MOTOR – GREEN BUSBAR</td><td>32A</td><td>16/B6</td></tr><tr><td>72-13</td><td>HV LINE (DEVICE POWER SUPPLY)</td><td>6A</td><td>17/B2</td></tr><tr><td>72-14</td><td>HV/MV TRANFORMER 2 (DEVICE POWER SUPPLY)</td><td>6A</td><td>17/B4</td></tr><tr><td>72-15</td><td>MV LINE GREEN BUSBAR (DEVICE POWER SUPPLY)</td><td>10A</td><td>17/B5</td></tr><tr><td>72-16</td><td>COUPLER (DEVICE POWER SUPPLY)</td><td>6A</td><td>17/B7</td></tr><tr><td>72-17</td><td>AVAILABLE (DEVICE POWER SUPPLY)</td><td>16A</td><td>18/B2</td></tr><tr><td>72-18</td><td>MOTOR AVAILABLE</td><td>32A</td><td>18/B3</td></tr><tr><td>72-19</td><td>AVAILABLE (DEVICE POWER SUPPLY)</td><td>6A</td><td>18/B5</td></tr><tr><td>72-20</td><td>MOTOR AVAILABLE</td><td>16A</td><td>18/B6</td></tr><tr><td>72-90</td><td>TPT POWER SUPPLY</td><td>25A</td><td>19/B3</td></tr><tr><td>72-91</td><td>SWITCH OF</td><td>16A</td><td>19/B5</td></tr><tr><td>72-92</td><td>AUXILIARY SERVICE EQUIPMENT</td><td>16A</td><td>19/B7</td></tr><tr><td>72-93</td><td>AVAILABLE</td><td>16A</td><td>20/B2</td></tr><tr><td>72-94</td><td>INTERNAL LIGHT COMMAND</td><td>6A</td><td>20/B3</td></tr><tr><td>72-95</td><td>AVAILABLE</td><td>16A</td><td>20/B4</td></tr><tr><td>89-24.AUX</td><td>AUX RECTIFIER DISCONNECTOR</td><td>80A</td><td>19/B2</td></tr><tr><td>89-DC1</td><td>GENERAL SWITCH VAUX</td><td>250A</td><td>13/C1</td></tr><tr><td>89-DC2</td><td>GENERAL SWITCH 24VDC</td><td>80A</td><td>19/B1</td></tr><tr><td>89-RD.AUX</td><td>EMERGENCY RECTIFIER</td><td>250A</td><td>13/B4</td></tr><tr><td>D1</td><td>DIODE</td><td>300A</td><td>13/B4</td></tr><tr><td>D24</td><td>DIODE</td><td>80A-250V</td><td>19/B2</td></tr></table>				ACRONYM	DESCRIPTION	DESCRIPTION 2	POSITION	27-DC1	UNDervOLTAGE RELAY (DC)	DC1 (VAUX)	22/B4	27-DC2	UNDervOLTAGE RELAY (DC)	DC2 (24VDC/48VDC)	22/B6	43 L/R	LOCAL REMOTE CONTROL / COMMANDS	IF REQUEST (SEE GSTZ112)	13/D7	72-1	AUXILIARY SERVICE EQUIPMENT	6A	13/B7	72-2	SWITCH OF	6A	14/B2	72-3	POWER QUALITY	6A	14/B3	72-4	HV CIRCUIT BREAKER – MOTOR	16A	14/B5	72-5	MV CIRCUIT BREAKER MOTOR – RED BUSBAR	32A	14/B7	72-6	HV LINE (DEVICE POWER SUPPLY)	6A	15/B2	72-7	HV/MV TRANFORMER 1 (DEVICE POWER SUPPLY)	6A	15/B4	72-8	MV LINE RED BUSBAR (DEVICE POWER SUPPLY)	10A	15/B5	72-9	PETERSEN COIL (DEVICE POWER SUPPLY)	6A	15/B7	72-10	AVAILABLE	6A	16/B2	72-11	HV CIRCUIT BREAKER – MOTOR	16A	16/B4	72-12	MV CIRCUIT BREAKER MOTOR – GREEN BUSBAR	32A	16/B6	72-13	HV LINE (DEVICE POWER SUPPLY)	6A	17/B2	72-14	HV/MV TRANFORMER 2 (DEVICE POWER SUPPLY)	6A	17/B4	72-15	MV LINE GREEN BUSBAR (DEVICE POWER SUPPLY)	10A	17/B5	72-16	COUPLER (DEVICE POWER SUPPLY)	6A	17/B7	72-17	AVAILABLE (DEVICE POWER SUPPLY)	16A	18/B2	72-18	MOTOR AVAILABLE	32A	18/B3	72-19	AVAILABLE (DEVICE POWER SUPPLY)	6A	18/B5	72-20	MOTOR AVAILABLE	16A	18/B6	72-90	TPT POWER SUPPLY	25A	19/B3	72-91	SWITCH OF	16A	19/B5	72-92	AUXILIARY SERVICE EQUIPMENT	16A	19/B7	72-93	AVAILABLE	16A	20/B2	72-94	INTERNAL LIGHT COMMAND	6A	20/B3	72-95	AVAILABLE	16A	20/B4	89-24.AUX	AUX RECTIFIER DISCONNECTOR	80A	19/B2	89-DC1	GENERAL SWITCH VAUX	250A	13/C1	89-DC2	GENERAL SWITCH 24VDC	80A	19/B1	89-RD.AUX	EMERGENCY RECTIFIER	250A	13/B4	D1	DIODE	300A	13/B4	D24	DIODE	80A-250V	19/B2		
ACRONYM	DESCRIPTION	DESCRIPTION 2	POSITION																																																																																																																																																																																																																																																																																															
27-AC	UNDervOLTAGE RELAY (AC)		22/B2																																																																																																																																																																																																																																																																																															
52-41	AUXILIARY EQUIPMENT	6A	6/B6																																																																																																																																																																																																																																																																																															
52-42	POWER SUPPLY STATION (PSS)	32A	7/B1																																																																																																																																																																																																																																																																																															
52-43	HV CIRCUIT BREAKER – MOTOR	20A	7/B3																																																																																																																																																																																																																																																																																															
52-44	OLTC MOTOR – HV/MV TRASNFORMER 1	6A	7/B5																																																																																																																																																																																																																																																																																															
52-45	FANS HV/MV TRANSFORMER 1	25A	7/B7																																																																																																																																																																																																																																																																																															
52-46	MOTOR PETERSEN COIL	16A	8/B1																																																																																																																																																																																																																																																																																															
52-48	HV CIRCUIT BREAKER – MOTOR	20A	8/B3																																																																																																																																																																																																																																																																																															
52-49	OLTC MOTOR – HV/MV TRASNFORMER 2	6A	8/B5																																																																																																																																																																																																																																																																																															
52-50	FANS HV/MV TRANSFORMER 2	25A	8/B7																																																																																																																																																																																																																																																																																															
52-51	CONTAINER HEATING	25A	9/B1																																																																																																																																																																																																																																																																																															
52-52	AVAILABLE	25A	9/B3																																																																																																																																																																																																																																																																																															
52-53	HVAC	25A	9/B5																																																																																																																																																																																																																																																																																															
52-54	HVAC	25A	9/B7																																																																																																																																																																																																																																																																																															
52-55	AVAILABLE	16A	10/B1																																																																																																																																																																																																																																																																																															
52-56	INTERNAL SOCKET	32A	10/B3																																																																																																																																																																																																																																																																																															
52-57	EXTERNAL SOCKET	32A	10/B5																																																																																																																																																																																																																																																																																															
52-58	EXTERNAL HEATING	20A	10/B7																																																																																																																																																																																																																																																																																															
52-59	MV CELLS HEATING	25A	11/B1																																																																																																																																																																																																																																																																																															
52-60	EXTERNAL LIGHTING (AUTOMATIC)	16A	11/B4																																																																																																																																																																																																																																																																																															
52-61	EXTERNAL LIGHTING (MANUAL)	25A	11/B7																																																																																																																																																																																																																																																																																															
52-62	INTERNAL LIGHTING	10A	12/B2																																																																																																																																																																																																																																																																																															
52-63	INTERNAL LIGHTING (RESERVE)	10A	12/B4																																																																																																																																																																																																																																																																																															
52-67	AVAILABLE	16A	12/B5																																																																																																																																																																																																																																																																																															
52-68	AVAILABLE	16A	12/B7																																																																																																																																																																																																																																																																																															
74-1	RELAY FOR MV CELLS HEATING		11/C3																																																																																																																																																																																																																																																																																															
74-2	RELAY FOR EXTERNAL LIGHTING (AUTOMATIC)		11/C6																																																																																																																																																																																																																																																																																															
89-AC	AC GENERAL DISCONNECTOR	250A	6/C1																																																																																																																																																																																																																																																																																															
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TC-L2	MEASUREMENT CT	MEASUREMENT CT	6/B4																																																																																																																																																																																																																																																																																															
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27-DC1	UNDervOLTAGE RELAY (DC)	DC1 (VAUX)	22/B4																																																																																																																																																																																																																																																																																															
27-DC2	UNDervOLTAGE RELAY (DC)	DC2 (24VDC/48VDC)	22/B6																																																																																																																																																																																																																																																																																															
43 L/R	LOCAL REMOTE CONTROL / COMMANDS	IF REQUEST (SEE GSTZ112)	13/D7																																																																																																																																																																																																																																																																																															
72-1	AUXILIARY SERVICE EQUIPMENT	6A	13/B7																																																																																																																																																																																																																																																																																															
72-2	SWITCH OF	6A	14/B2																																																																																																																																																																																																																																																																																															
72-3	POWER QUALITY	6A	14/B3																																																																																																																																																																																																																																																																																															
72-4	HV CIRCUIT BREAKER – MOTOR	16A	14/B5																																																																																																																																																																																																																																																																																															
72-5	MV CIRCUIT BREAKER MOTOR – RED BUSBAR	32A	14/B7																																																																																																																																																																																																																																																																																															
72-6	HV LINE (DEVICE POWER SUPPLY)	6A	15/B2																																																																																																																																																																																																																																																																																															
72-7	HV/MV TRANFORMER 1 (DEVICE POWER SUPPLY)	6A	15/B4																																																																																																																																																																																																																																																																																															
72-8	MV LINE RED BUSBAR (DEVICE POWER SUPPLY)	10A	15/B5																																																																																																																																																																																																																																																																																															
72-9	PETERSEN COIL (DEVICE POWER SUPPLY)	6A	15/B7																																																																																																																																																																																																																																																																																															
72-10	AVAILABLE	6A	16/B2																																																																																																																																																																																																																																																																																															
72-11	HV CIRCUIT BREAKER – MOTOR	16A	16/B4																																																																																																																																																																																																																																																																																															
72-12	MV CIRCUIT BREAKER MOTOR – GREEN BUSBAR	32A	16/B6																																																																																																																																																																																																																																																																																															
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72-90	TPT POWER SUPPLY	25A	19/B3																																																																																																																																																																																																																																																																																															
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72-94	INTERNAL LIGHT COMMAND	6A	20/B3																																																																																																																																																																																																																																																																																															
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F	<table><tr><td></td><td></td><td></td><td></td><td>DATA</td><td>31/01/2020</td></tr><tr><td>2</td><td>FIRST APPROVED EDITION</td><td>31/03/2020</td><td>Berasi P.</td><td>DRAWN</td><td>Berasi P.</td></tr><tr><td>1</td><td>FIRST DRAFT</td><td>31/01/2020</td><td>Berasi P.</td><td>VERIFIED</td><td>Scrosati G.</td></tr><tr><td>REV.</td><td>MODIFICATIONS</td><td>DATA</td><td>SIGN.</td><td>APPROVED</td><td>Giammanco F.</td></tr></table>								DATA	31/01/2020	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.			POWER SWITCHGEAR AND CONTROLGEAR (PSC) LEGEND SYMBOLS		ELECTRICAL DIAGRAMS STANDARD																																																																																																																																																																																																																																																																	
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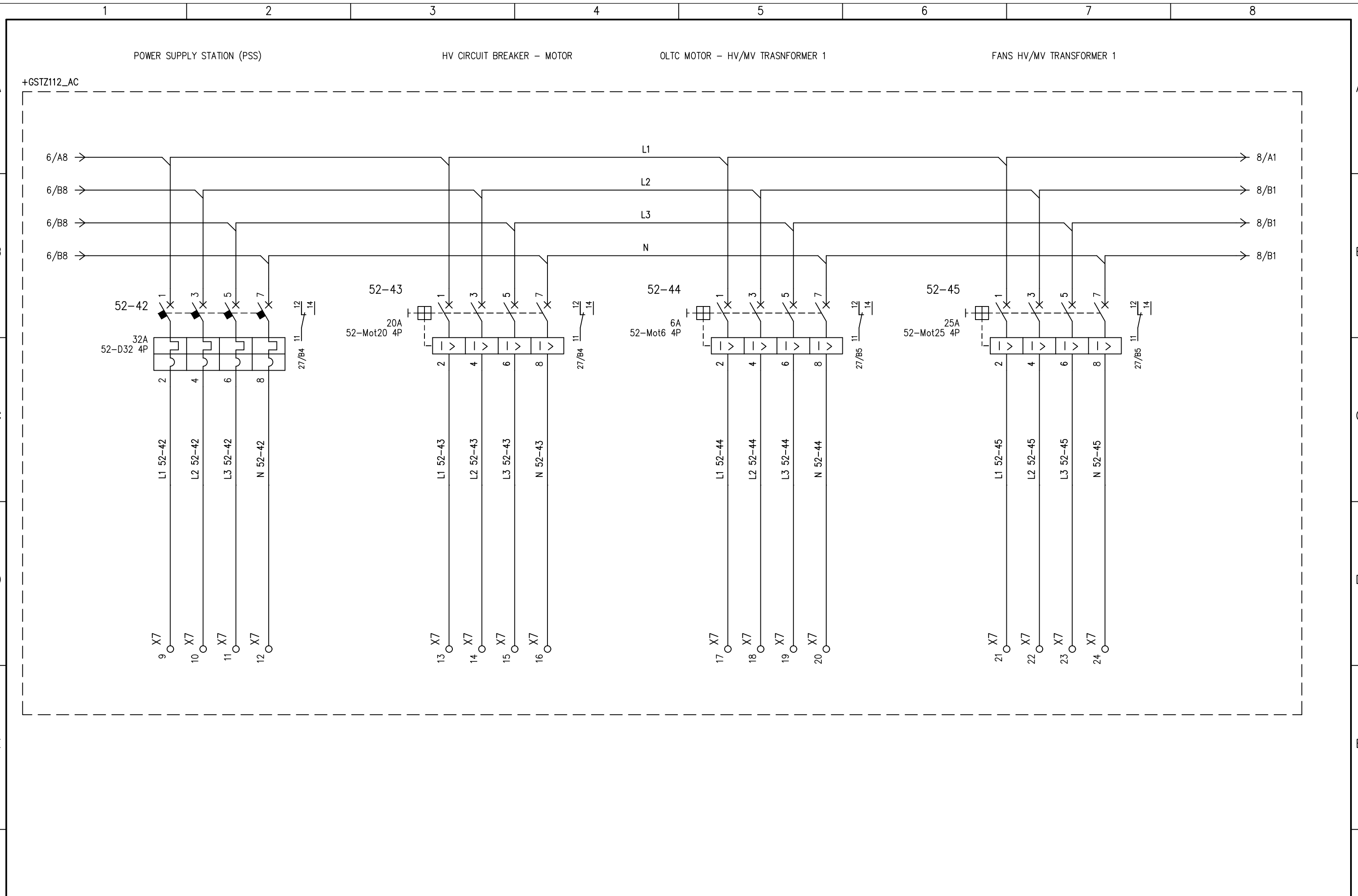
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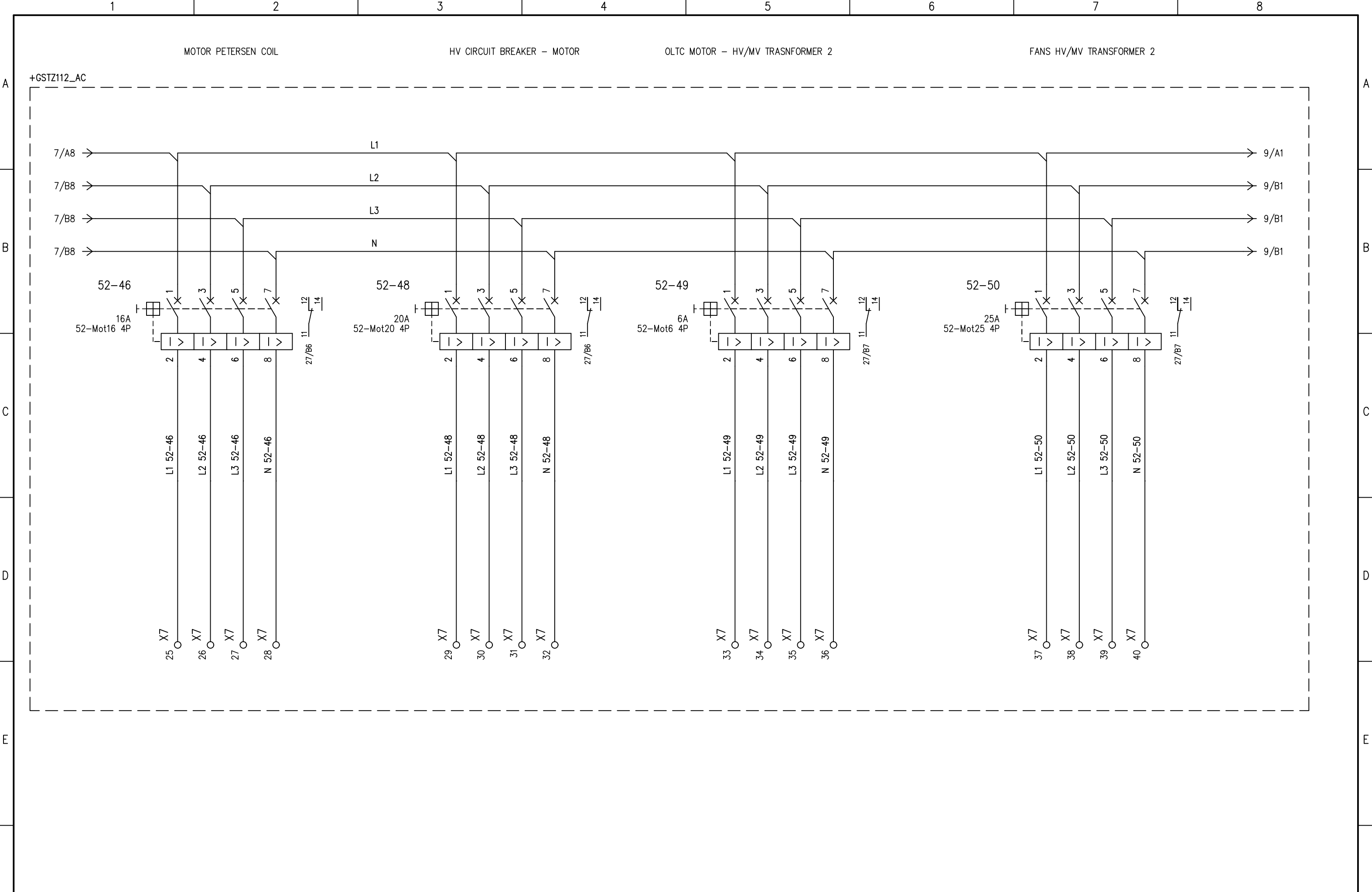







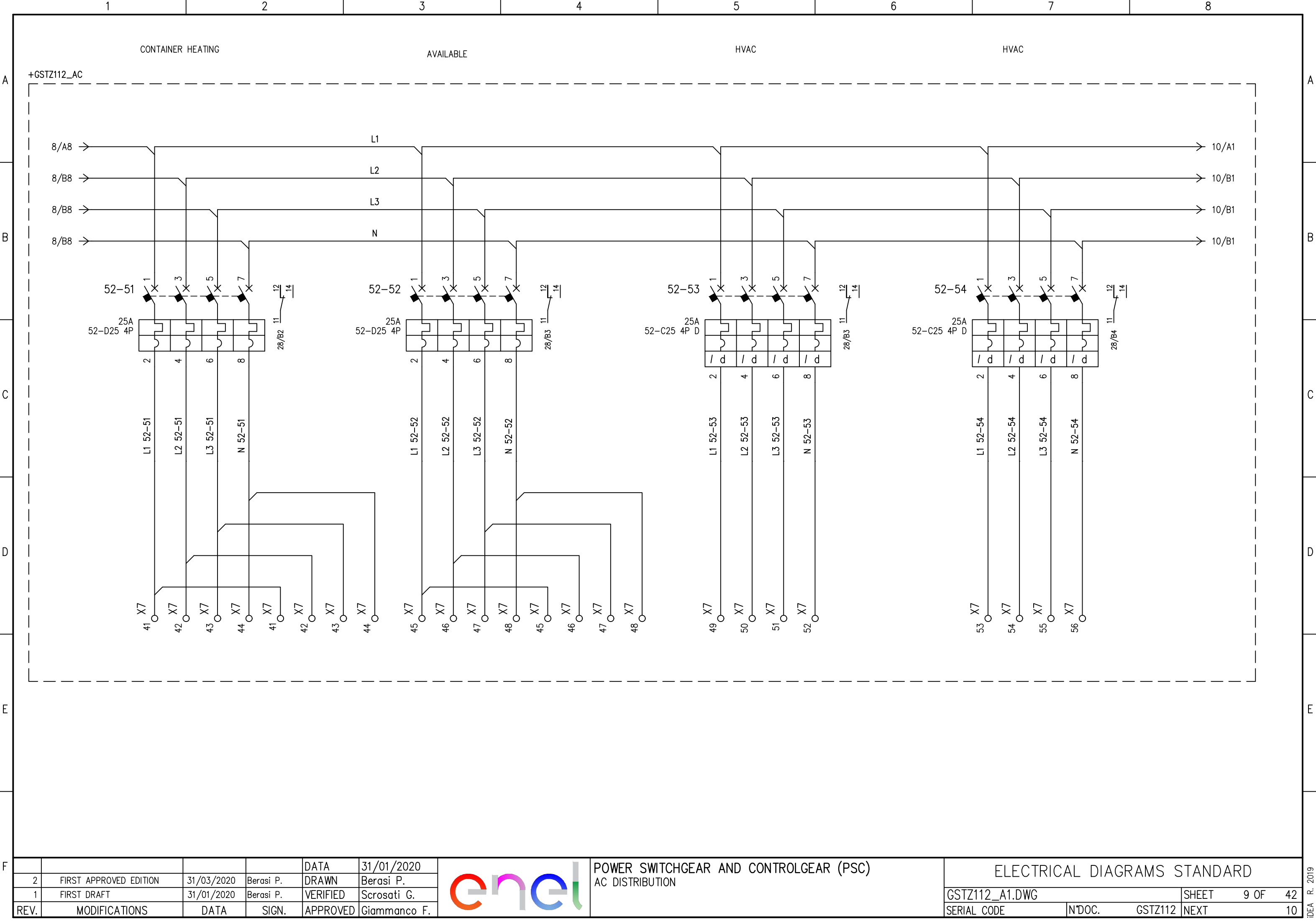
				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) AC DISTRIBUTION	ELECTRICAL DIAGRAMS STANDARD			
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.			GSTZ112_A1.DWG			SHEET 7 OF 42
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.						
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.			SERIAL CODE	N'DOC.	GSTZ112	NEXT 8





F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) AC DISTRIBUTION	ELECTRICAL DIAGRAMS STANDARD		
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	8 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT 9



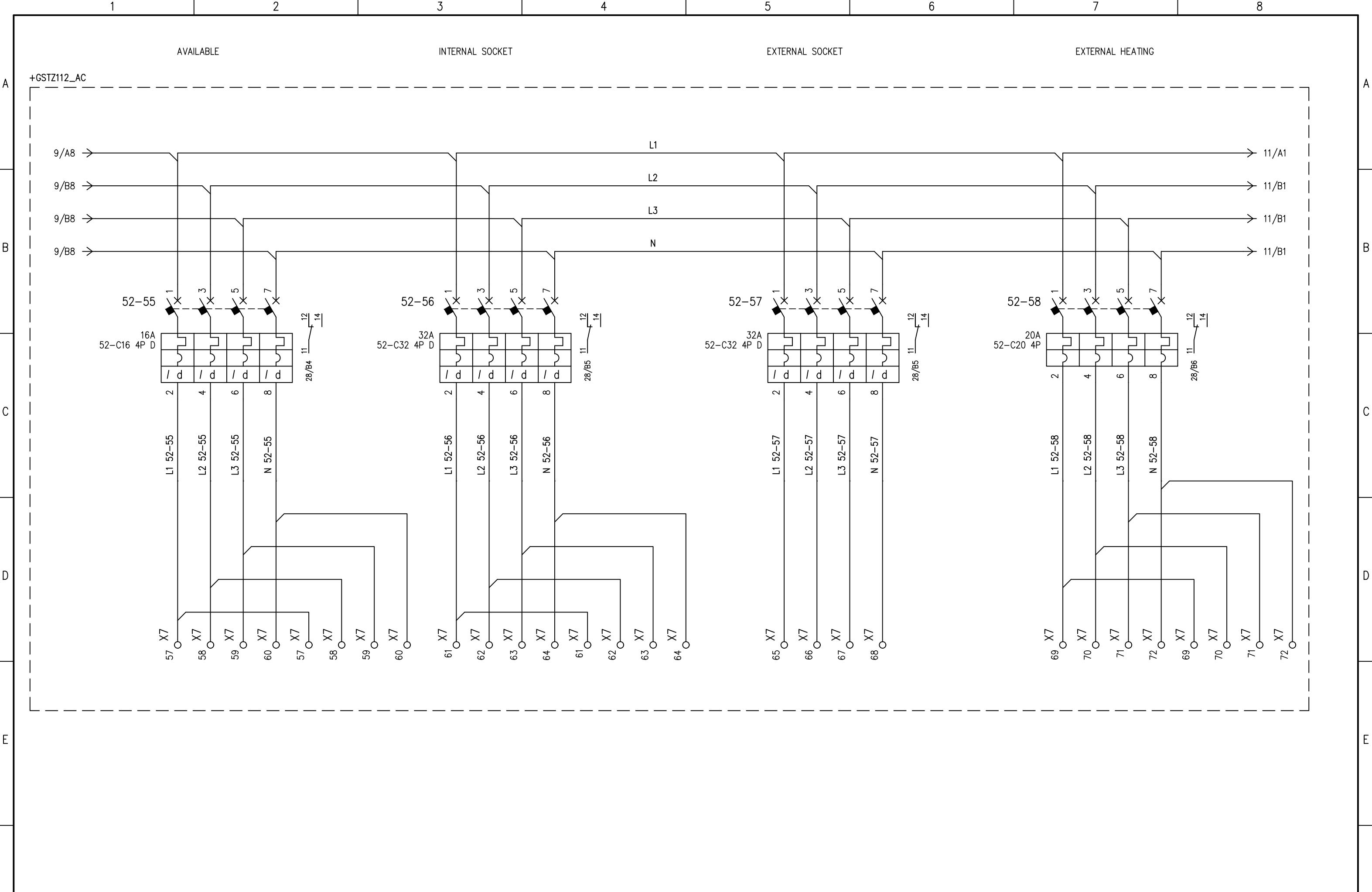



REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.



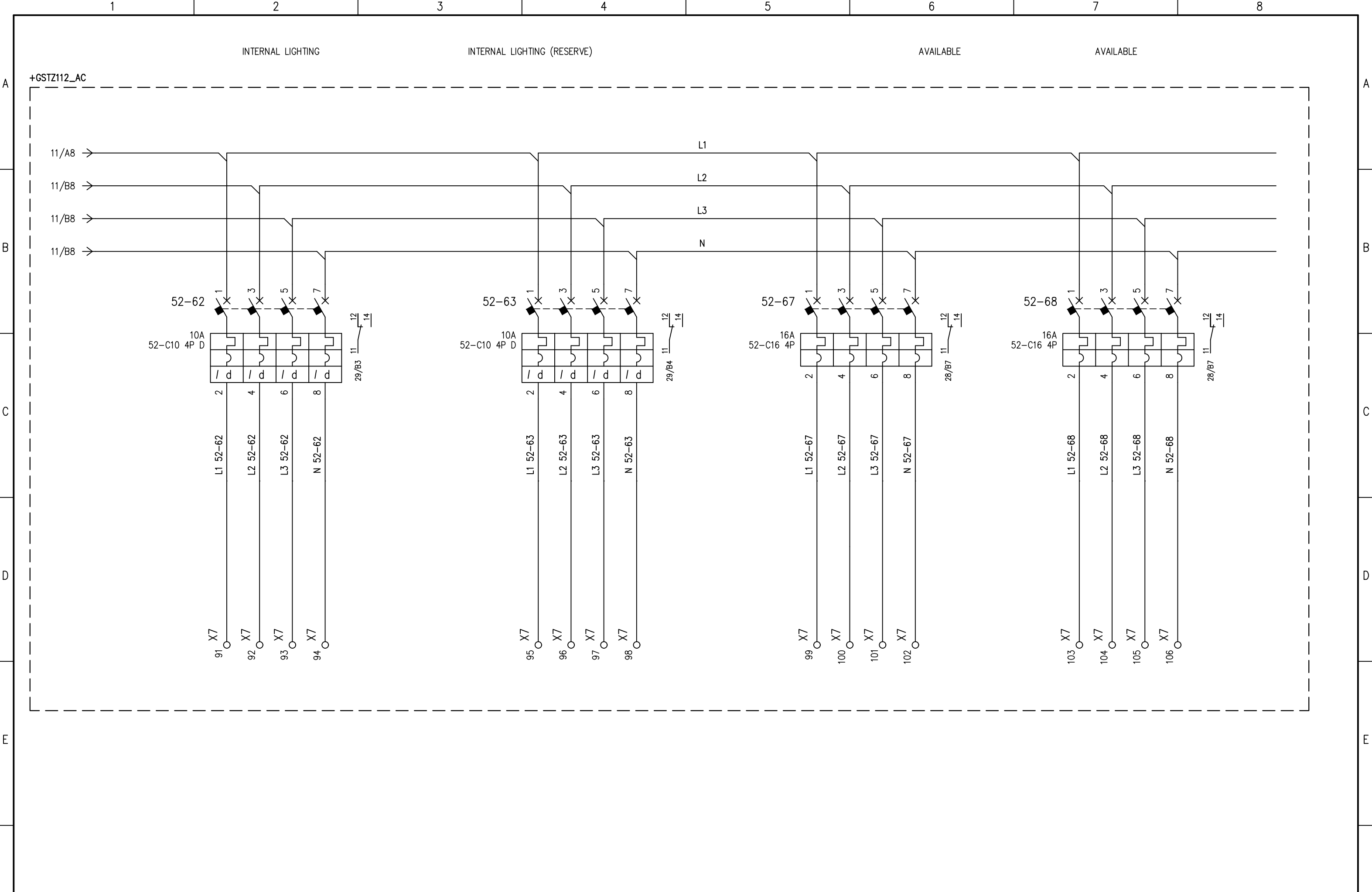
POWER SWITCHGEAR AND CONTROLGEAR (PSC)  
AC DISTRIBUTION


ELECTRICAL DIAGRAMS STANDARD			
GSTZ112_A1.DWG		SHEET	9 OF 42
SERIAL CODE	N'DOC.	GSTZ112	NEXT 10

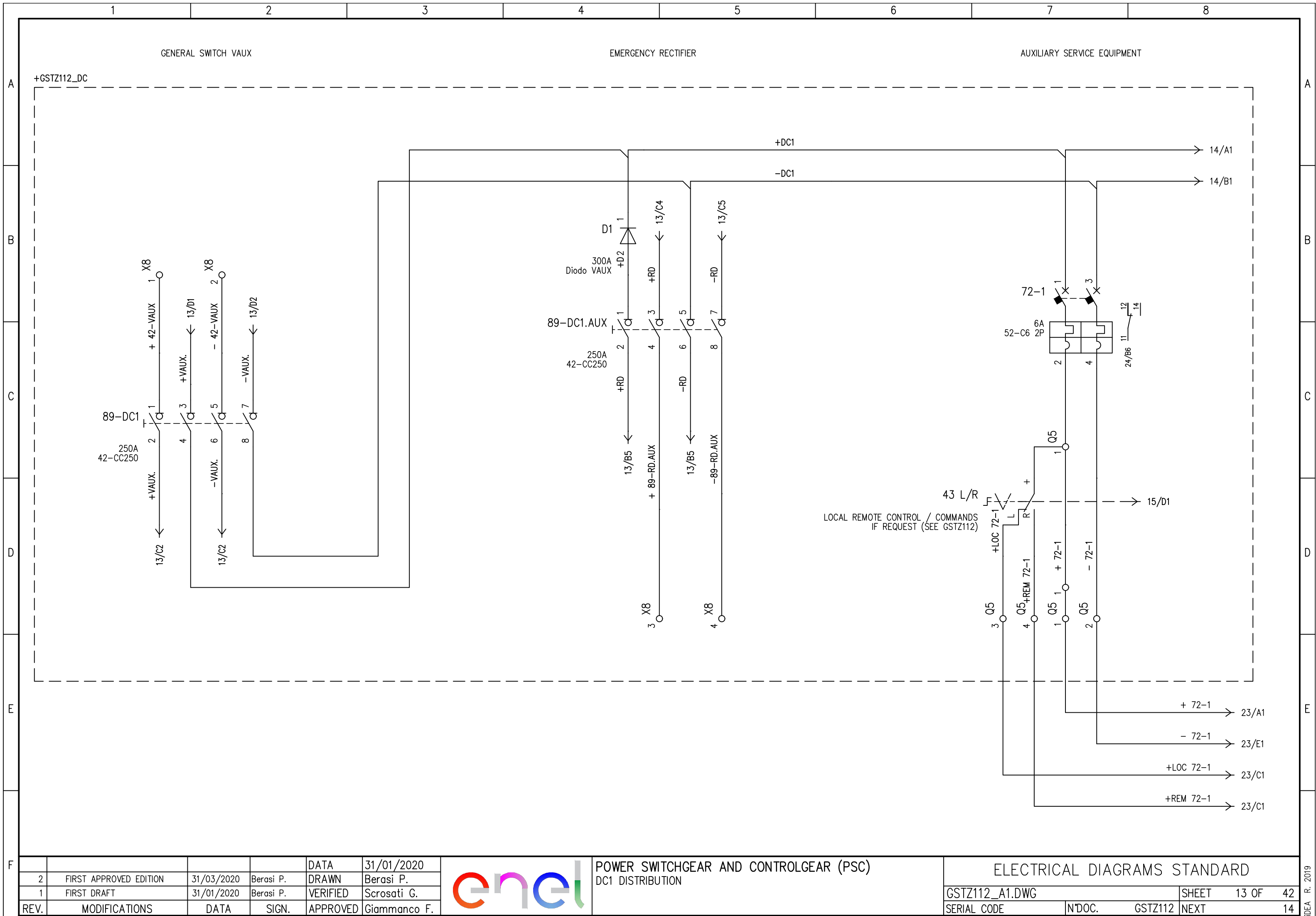


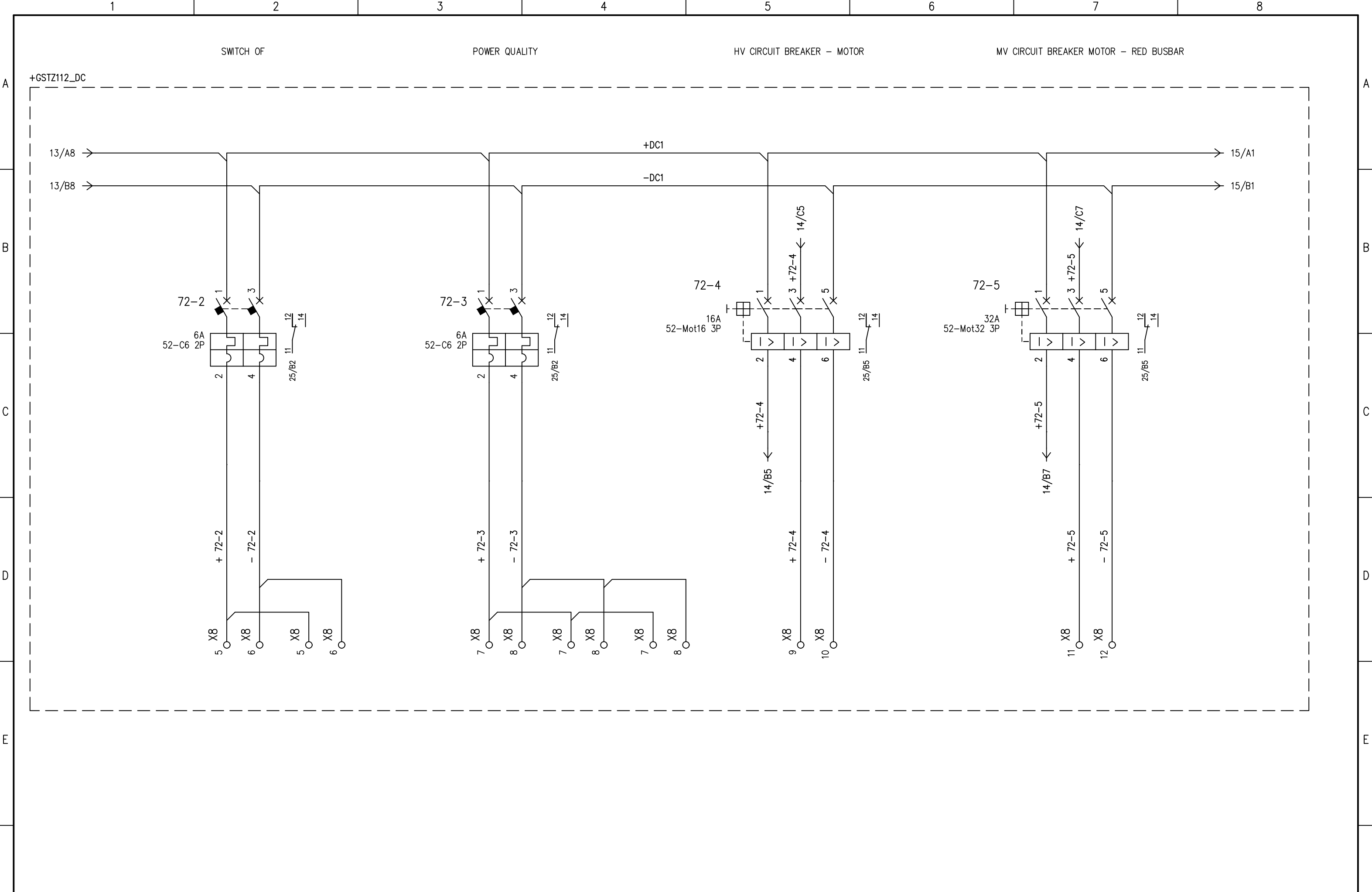
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	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	10 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT






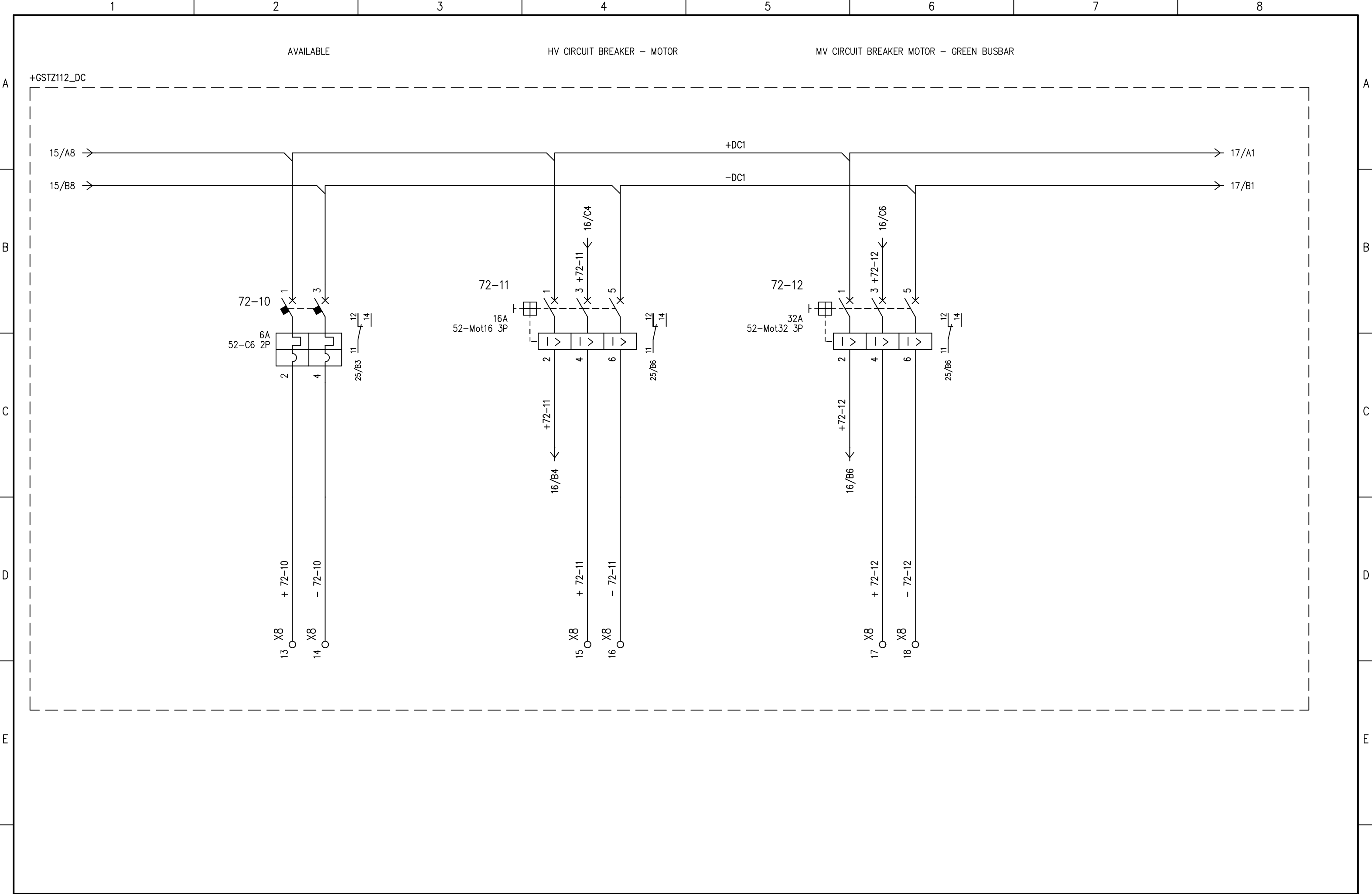
F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) AC DISTRIBUTION	ELECTRICAL DIAGRAMS STANDARD		
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	12 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT






				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) DC1 DISTRIBUTION	ELECTRICAL DIAGRAMS STANDARD			
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.			GSTZ112_A1.DWG			SHEET 14 OF 42
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.						
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.			SERIAL CODE	N'DOC.	GSTZ112	NEXT 15

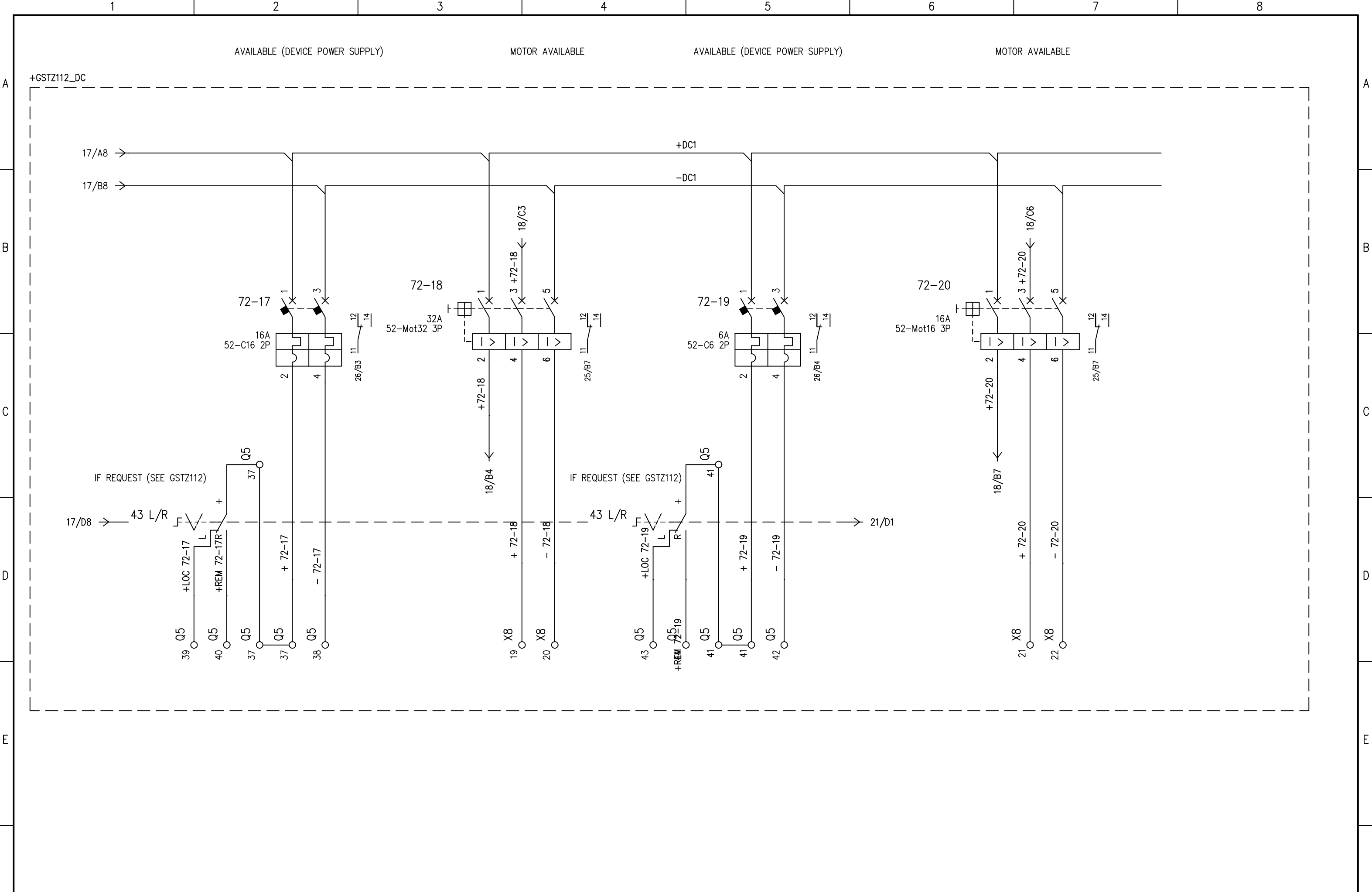





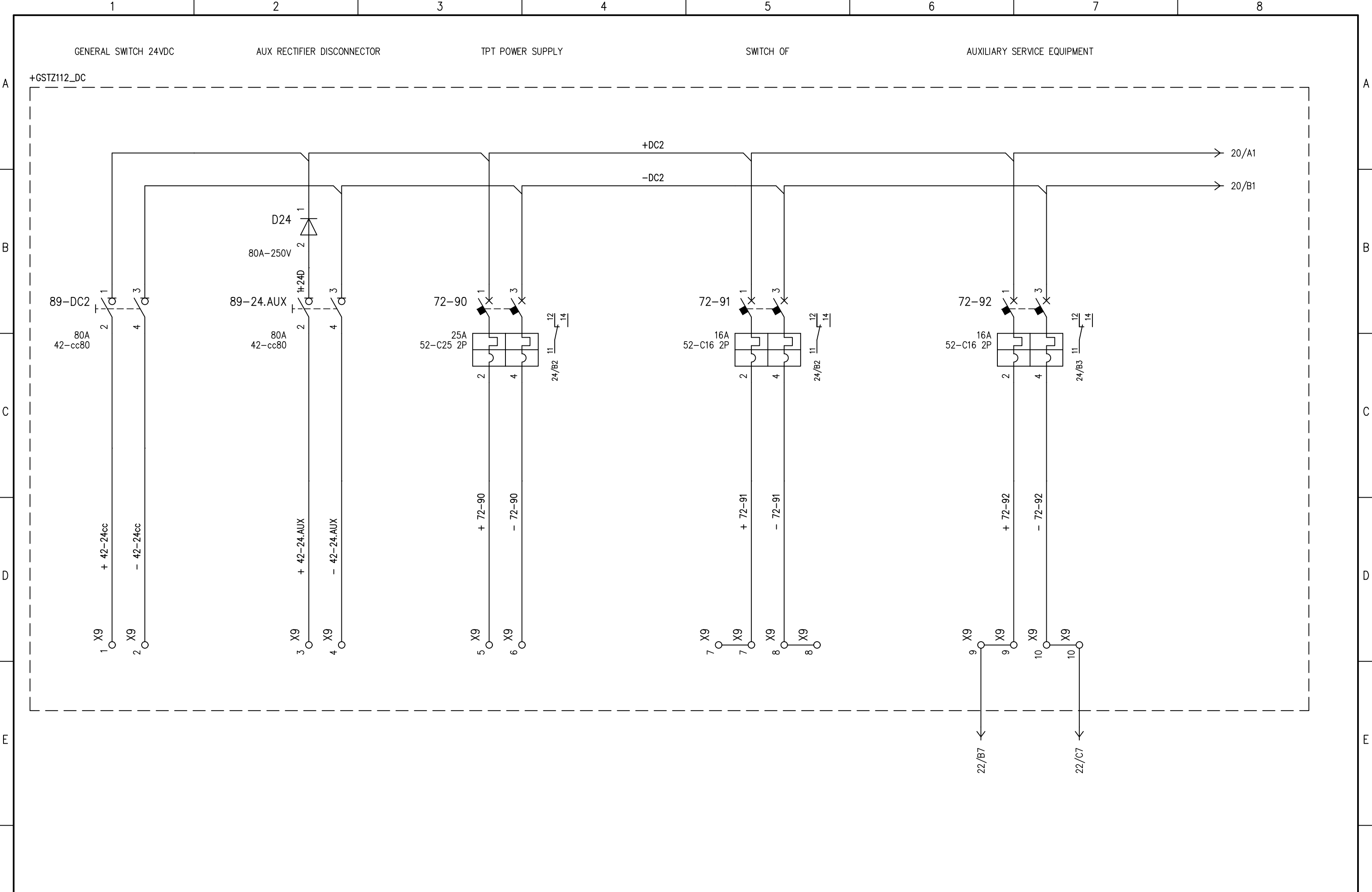
F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) DC1 DISTRIBUTION	ELECTRICAL DIAGRAMS STANDARD		
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	16 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT




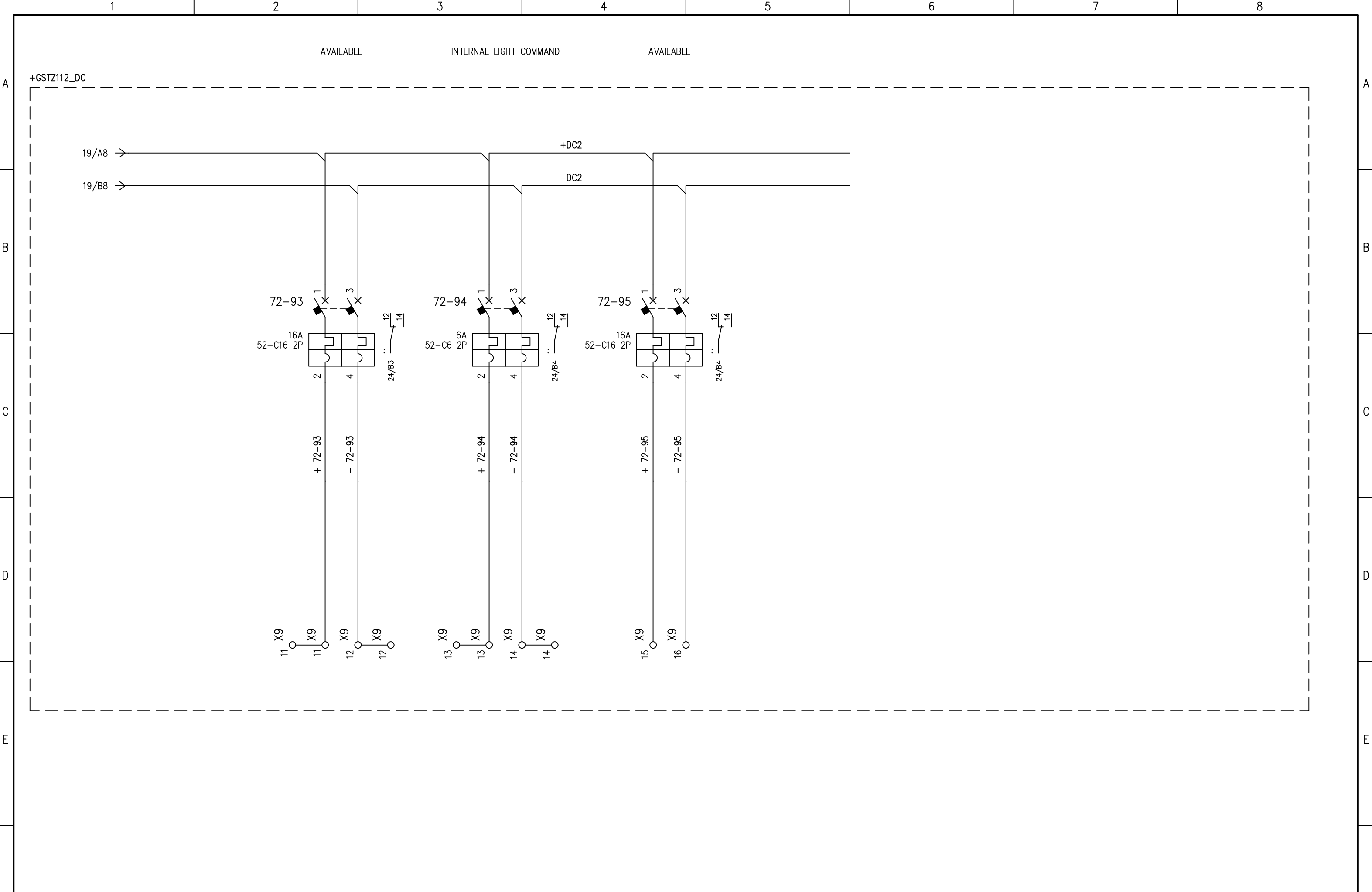





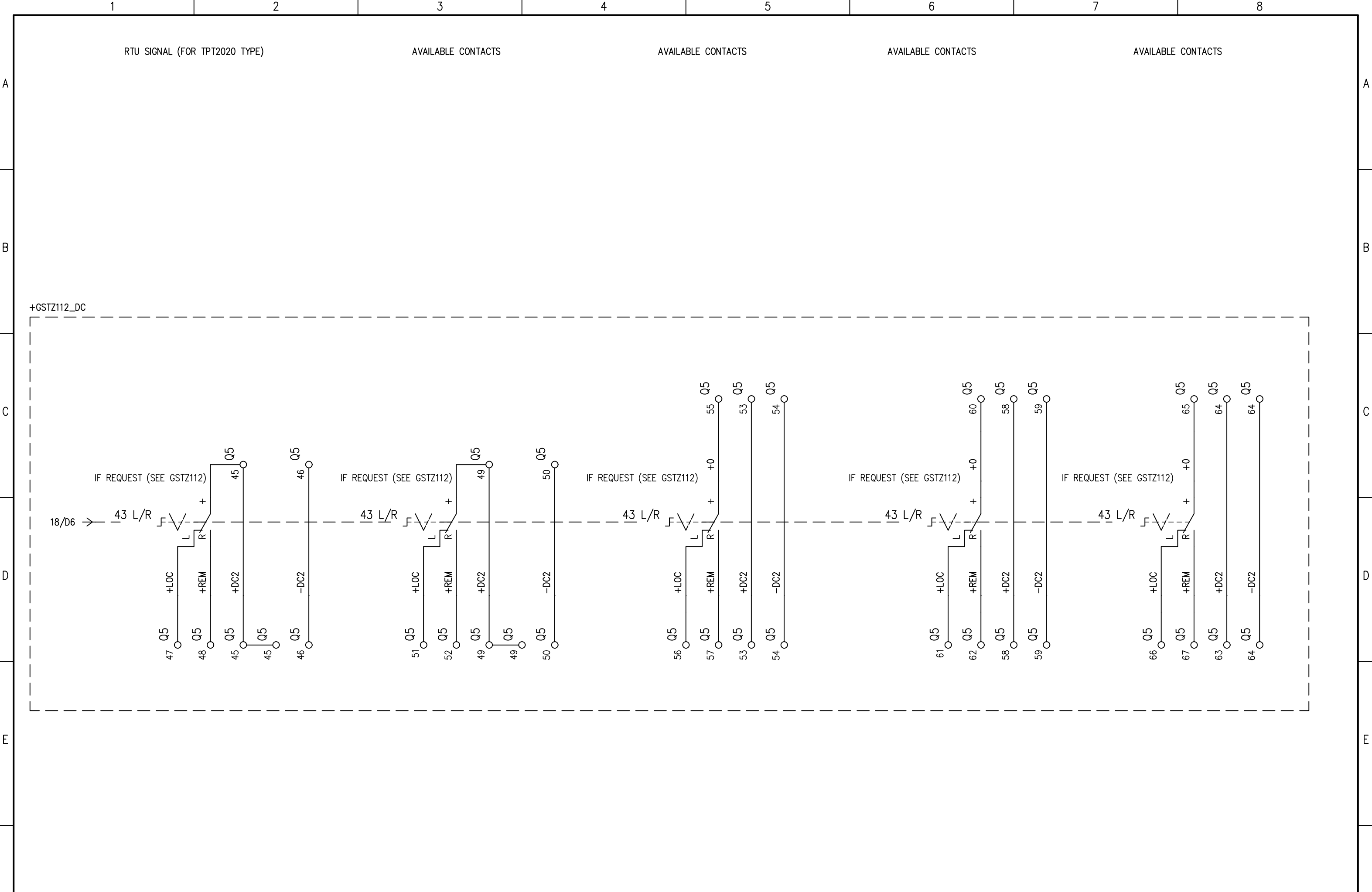
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2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.				GSTZ112_A1.DWG		
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.				SHEET 18 OF 42		
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.				SERIAL CODE N'DOC. GSTZ112 NEXT 19		




F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) DC2 DISTRIBUTION	ELECTRICAL DIAGRAMS STANDARD		
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET 19 OF 42		
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT 20



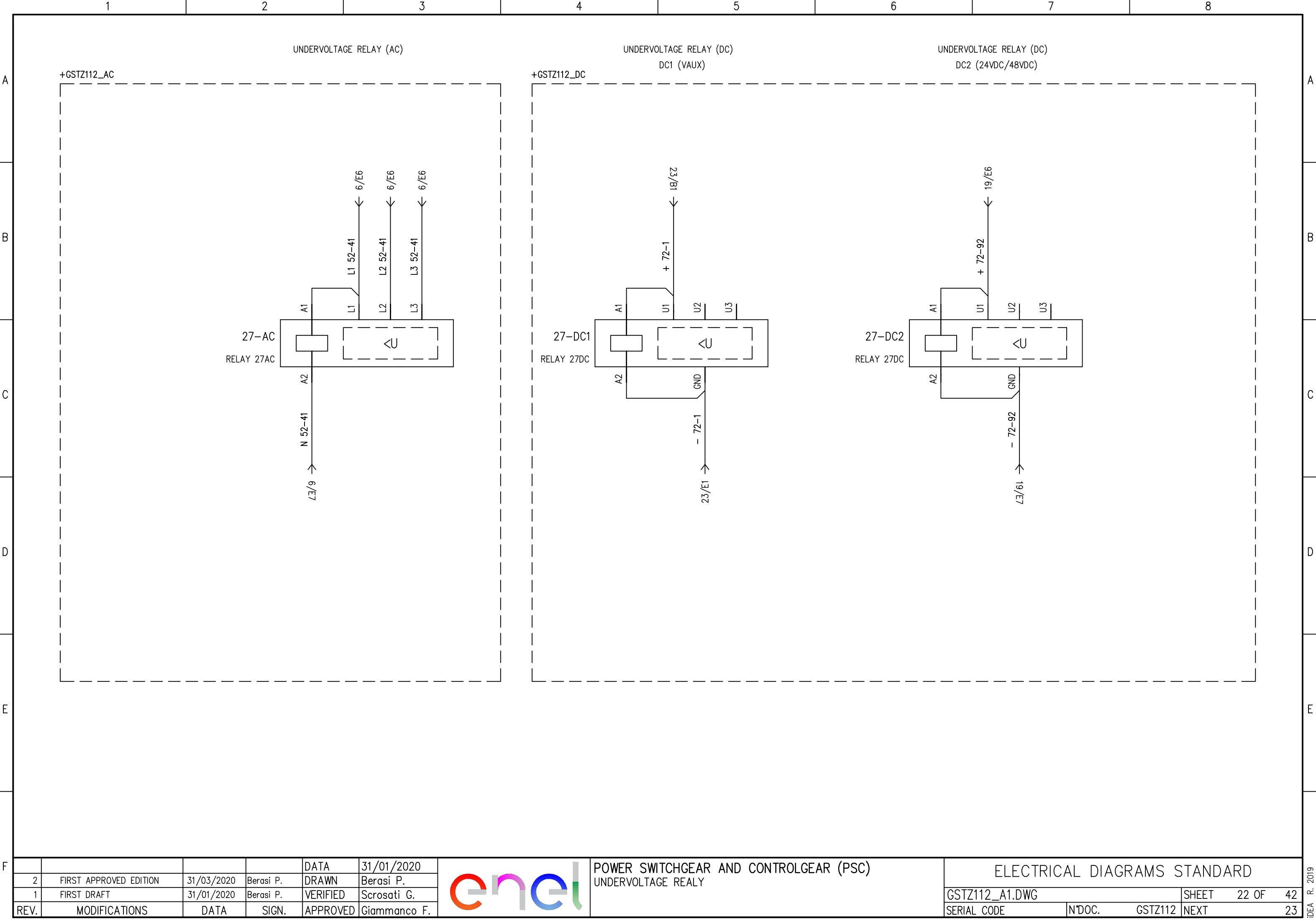
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	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	20 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT



F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) 43-L/R CONTACT SWITCHES	ELECTRICAL DIAGRAMS STANDARD				
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN			Berasi P.	GSTZ112_A1.DWG			
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED			Scrosati G.	SHEET		21 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED			Giammanco F.	SERIAL CODE	N'DOC.	GSTZ112	NEXT
									22			

IDEA R. 2019

iDEA R. 2019

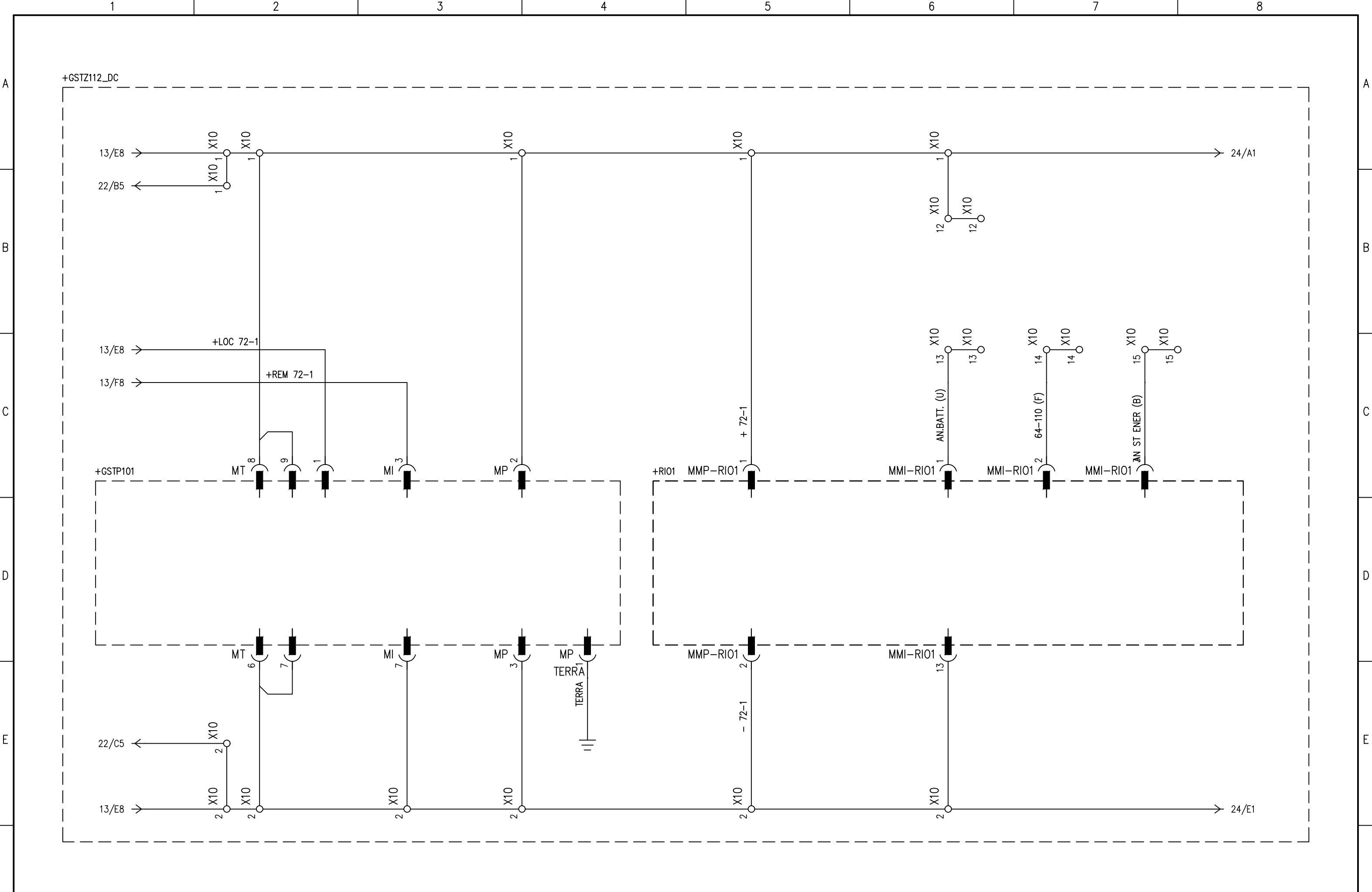



				DATA	31/01/2020
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.



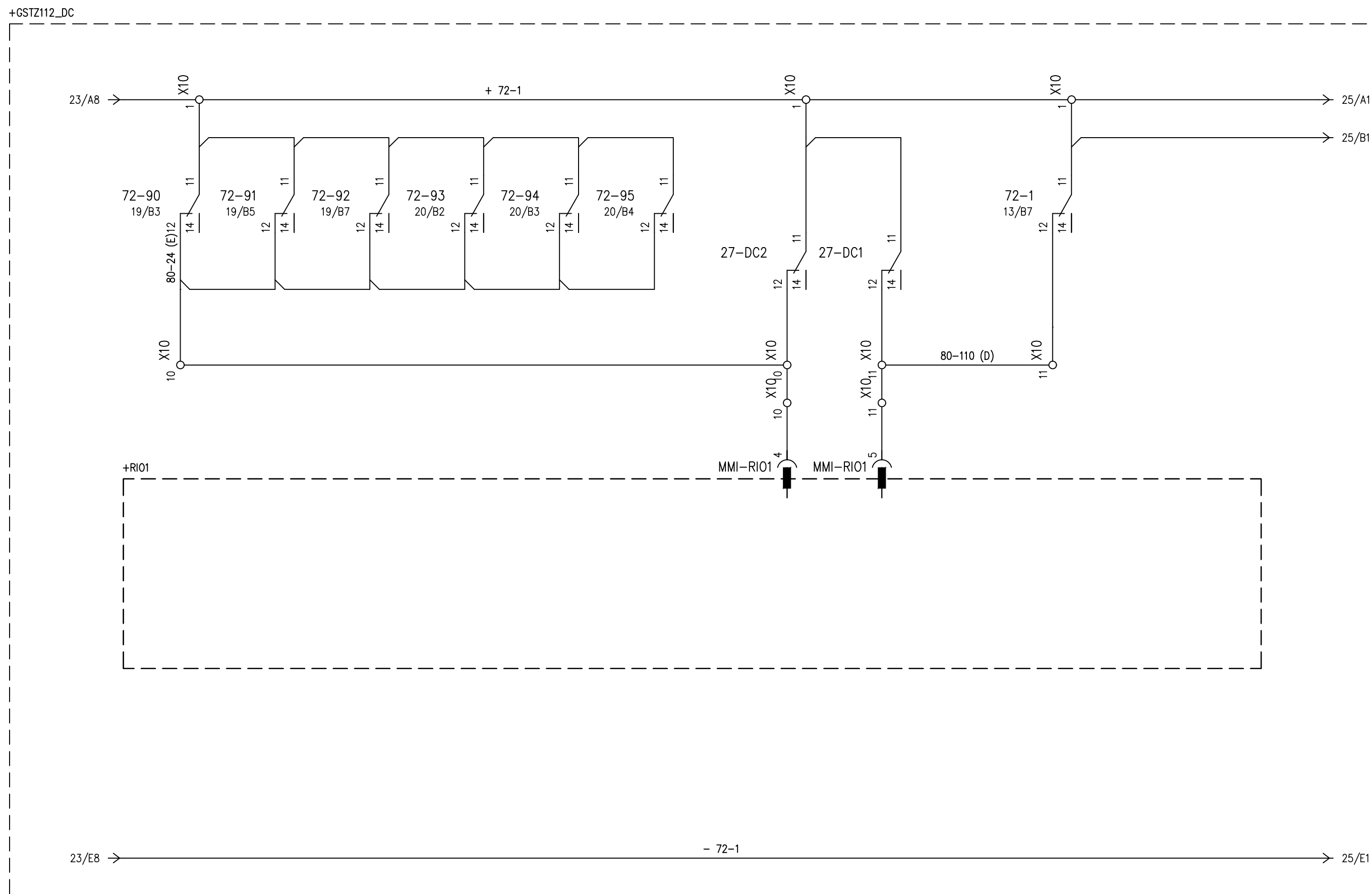
POWER SWITCHGEAR AND CONTROLGEAR (PSC)  
UNDERVOLTAGE REALY

ELECTRICAL DIAGRAMS STANDARD			
GSTZ112_A1.DWG		SHEET	22 OF 42
SERIAL CODE	N'DOC.	GSTZ112	NEXT 23



F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) ALARMS AND SIGNALS OF POWER SUPPLY STATION	ELECTRICAL DIAGRAMS STANDARD			
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN			Berasi P.	GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED			Scrosati G.	SHEET 23 OF 42		
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED			Giammanco F.	SERIAL CODE	N'DOC.	GSTZ112

IDEA R. 2019



				DATA	31/01/2020
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.



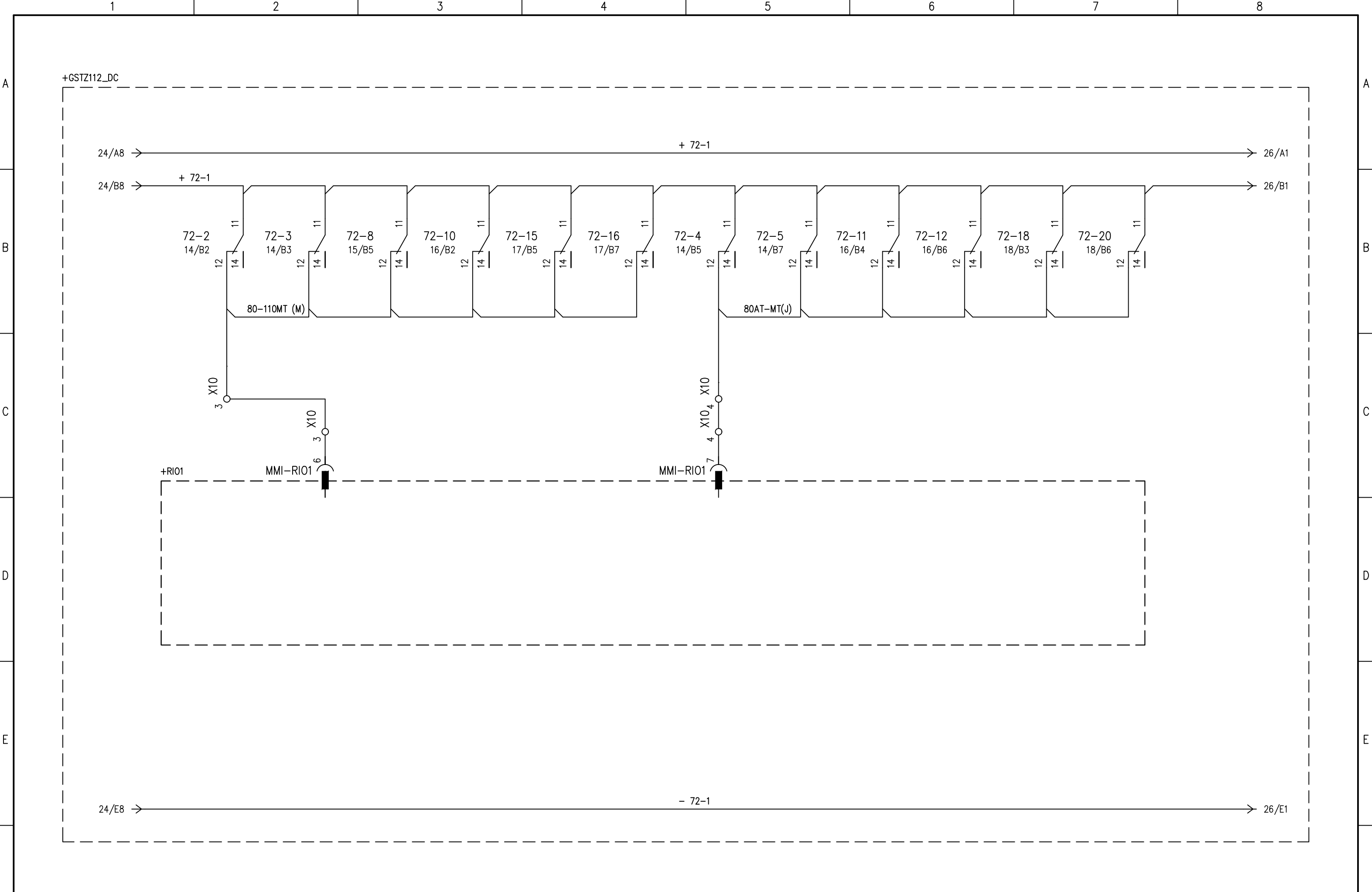
## POWER SWITCHGEAR AND CONTROLGEAR (PSC)


### ALARM AND SIGNALS – DC SIDE

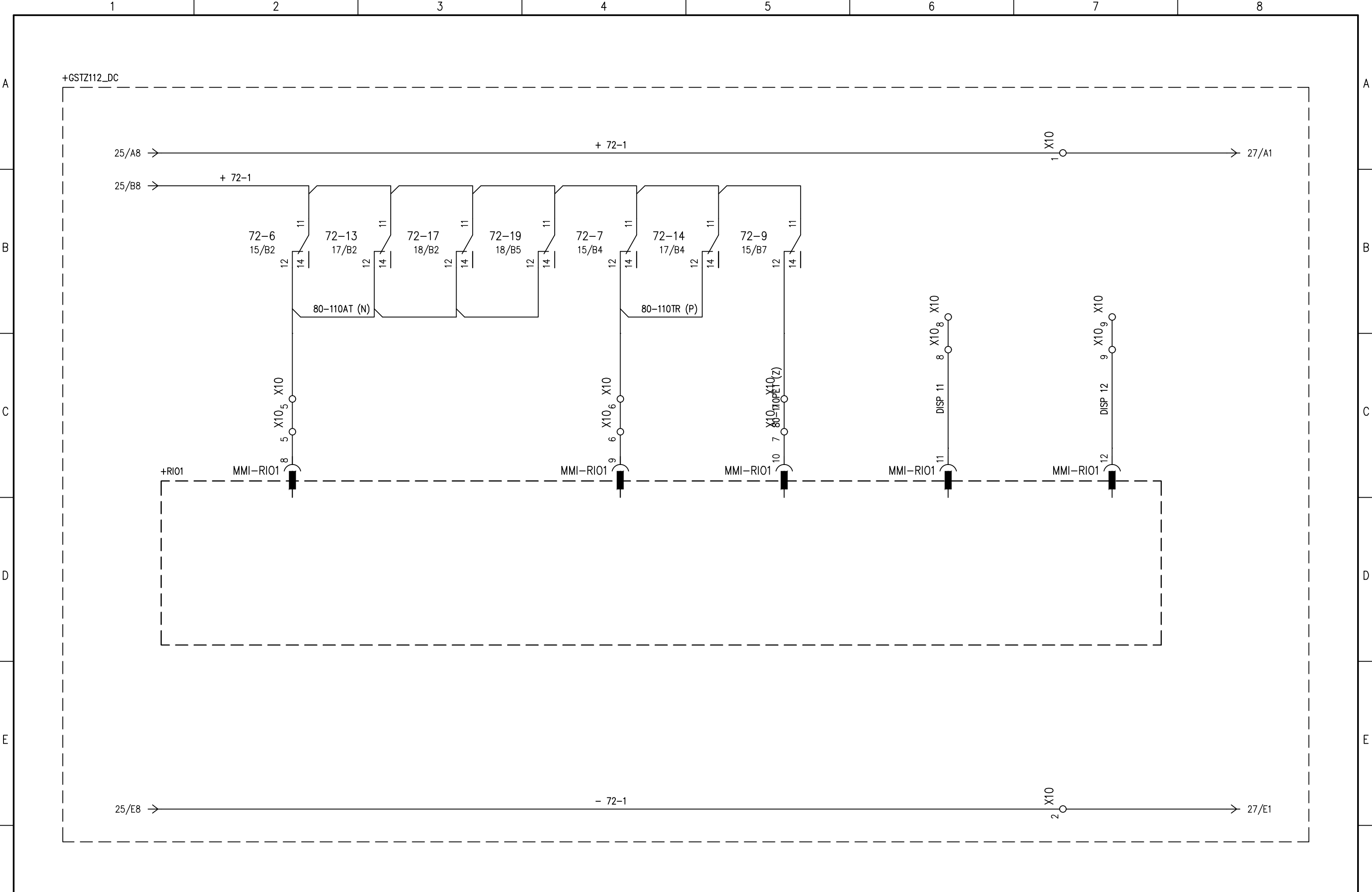
## ELECTRICAL DIAGRAMS STANDARD


GSTZ112_A1.DWG			SHEET	24 OF	42
SERIAL CODE	N'DOC.	GSTZ112	NEXT		25





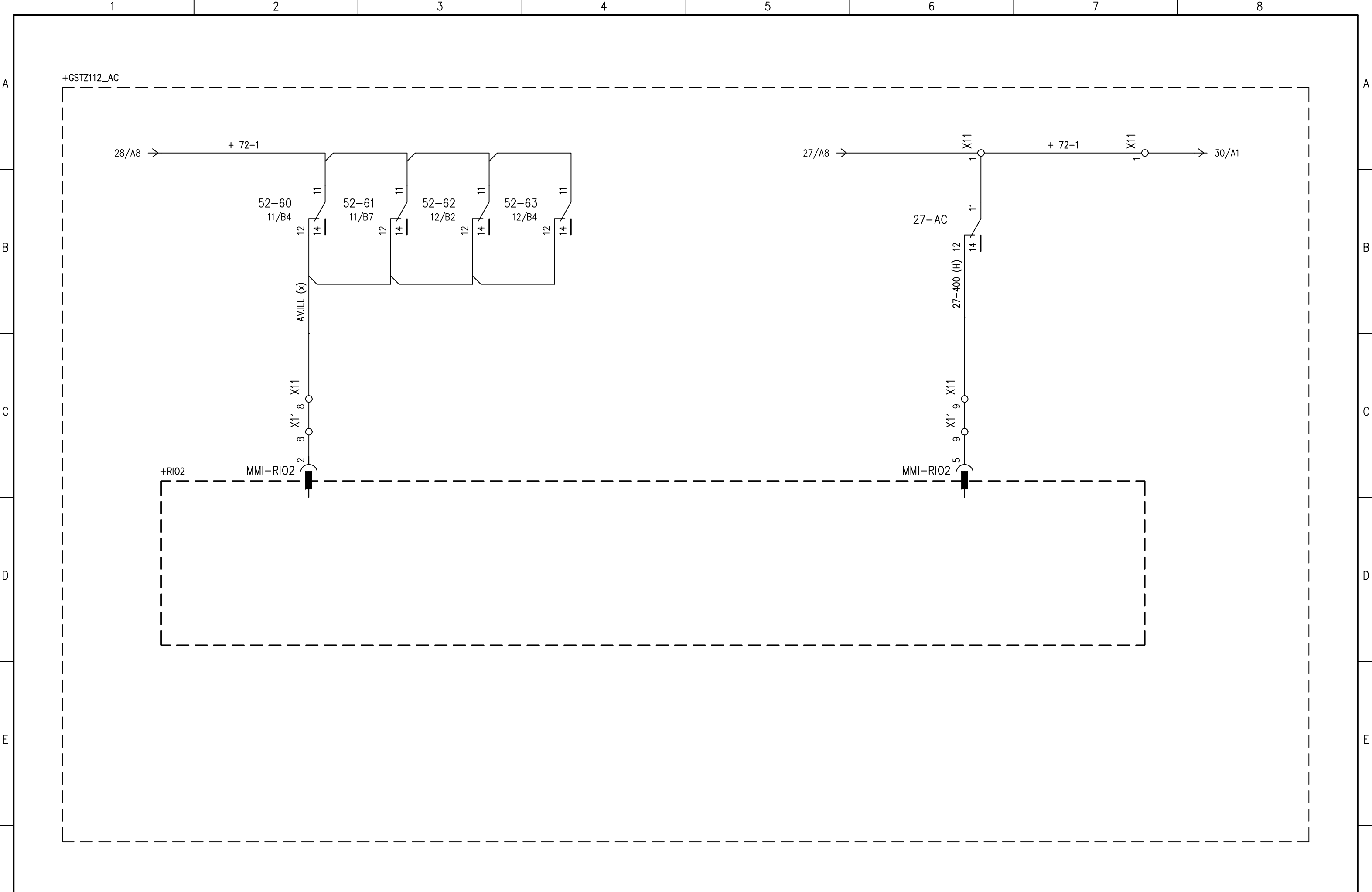
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	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	25 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT




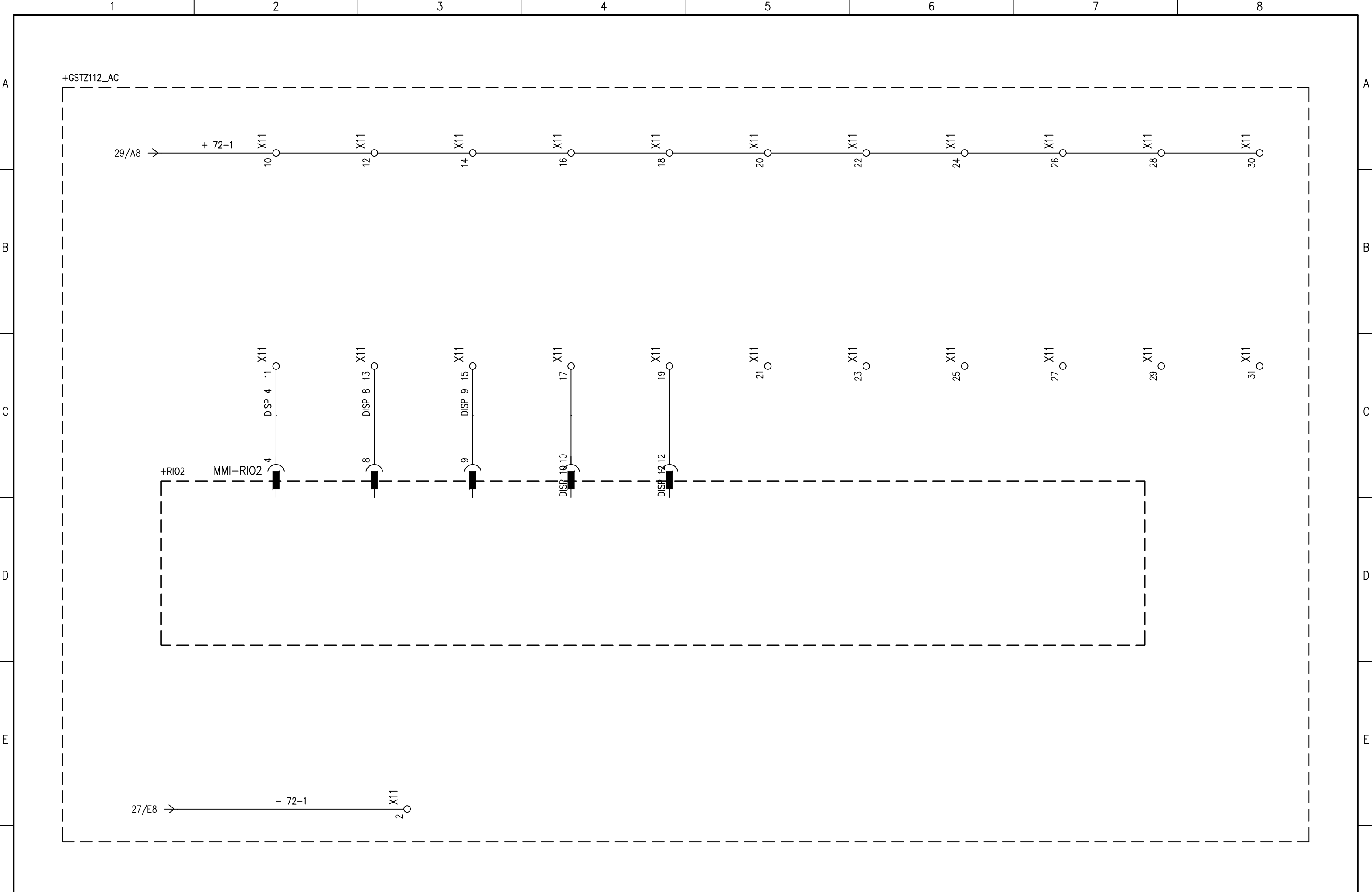
F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) ALARM AND SIGNALS – DC SIDE	ELECTRICAL DIAGRAMS STANDARD		
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SHEET	26 OF	42
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		SERIAL CODE	N'DOC.	GSTZ112 NEXT







F				DATA	31/01/2020		POWER SWITCHGEAR AND CONTROLGEAR (PSC) ALARM AND SIGNALS – AC SIDE	ELECTRICAL DIAGRAMS STANDARD		
	2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.		GSTZ112_A1.DWG		
	1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.		SERIAL CODE	N'DOC.	GSTZ112
	REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.		NEXT		



				DATA	31/01/2020
2	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DRAWN	Berasi P.
1	FIRST DRAFT	31/01/2020	Berasi P.	VERIFIED	Scrosati G.
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.



POWER SWITCHGEAR AND CONTROLGEAR (PSC)  
ALARM AND SIGNALS AVAILABLE

ELECTRICAL DIAGRAMS STANDARD		
GSTZ112_A1.DWG		SHEET 30 OF 42
SERIAL CODE	N'DOC. GSTZ112	NEXT 31

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1

2

3

4

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6

7

8


Q5

+GSTZ112\_DC

TERMINAL BOARD: POWER SUPPLY DEVICE

+DC2	53	2.5MMQ		
+DC2	53	2.5MMQ		
-DC2	54	2.5MMQ		
-DC2	54	2.5MMQ		
+LOC	56	2.5MMQ	43 L/R: L	
+REM	57	2.5MMQ	43 L/R: R	
+0	55	2.5MMQ	43 L/R: +	
+DC2	58	2.5MMQ		
+DC2	58	2.5MMQ		
-DC2	59	2.5MMQ		
-DC2	59	2.5MMQ		
+LOC	61	2.5MMQ	43 L/R: L	
+REM	62	2.5MMQ	43 L/R: R	
+0	60	2.5MMQ	43 L/R: +	
+DC2	63	2.5MMQ		
+DC2	64	2.5MMQ		
-DC2	64	2.5MMQ		
-DC2	64	2.5MMQ		
+LOC	66	2.5MMQ	43 L/R: L	
+REM	67	2.5MMQ	43 L/R: R	
+0	65	2.5MMQ	43 L/R: +	

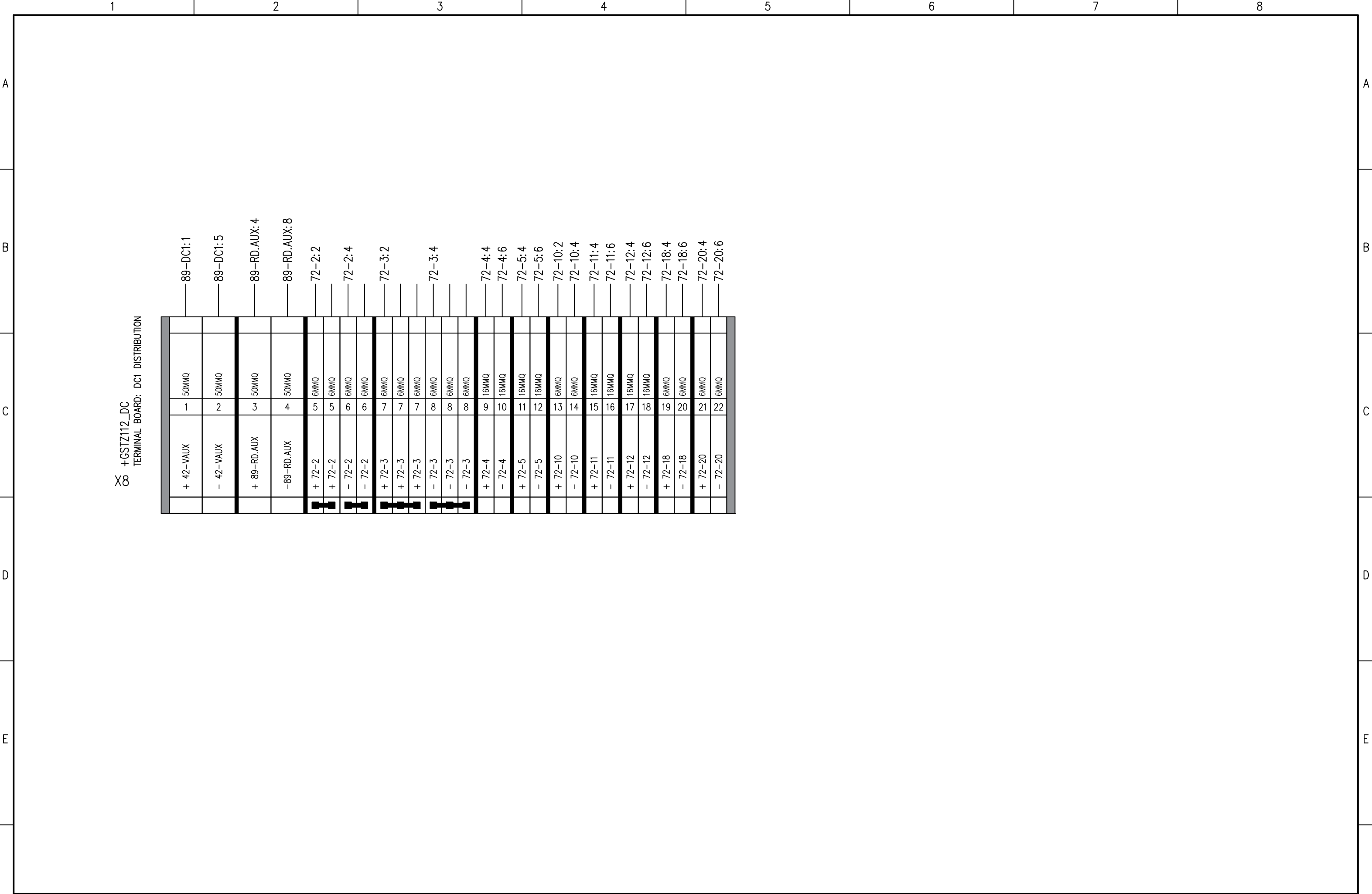
	FIRST APPROVED EDITION	31/03/2020	Berasi P.	DATA	31/01/2020
2	FIRST DRAFT	31/01/2020	Berasi P.	DRAWN	Berasi P.
1				VERIFIED	Scrosati G.
REV.	MODIFICATIONS	DATA	SIGN.	APPROVED	Giammanco F.



POWER SWITCHGEAR AND CONTROLGEAR (PSC)  
TERMINAL BOARD: Q5

GSTZ112_A1.DWG		SHEET	32 OF	42
SERIAL CODE	N°DOC.	GSTZ112	NEXT	33





X8 +GSTZ112_DC TERMINAL BOARD: DC1 DISTRIBUTION					
	+ 42-VAUX	1	50MMQ		89-DC1: 1
	- 42-VAUX	2	50MMQ		89-DC1: 5
	+ 89-RD.AUX	3	50MMQ		89-RD.AUX: 4
	-89-RD.AUX	4	50MMQ		89-RD.AUX: 8
		5	6MMQ		72-2: 2
		5	6MMQ		
		6	6MMQ		72-2: 4
		6	6MMQ		
		7	6MMQ		72-3: 2
		7	6MMQ		
		7	6MMQ		
		8	6MMQ		72-3: 4
		8	6MMQ		
		8	6MMQ		
		9	16MMQ		72-4: 4
		10	16MMQ		72-4: 6
		11	16MMQ		72-5: 4
		12	16MMQ		72-5: 6
		13	6MMQ		72-10: 2
		14	6MMQ		72-10: 4
		15	16MMQ		72-11: 4
		16	16MMQ		72-11: 6
		17	16MMQ		72-12: 4
		18	16MMQ		72-12: 6
		19	6MMQ		72-18: 4
		20	6MMQ		72-18: 6
		21	6MMQ		72-20: 4
		22	6MMQ		72-20: 6



## ELECTRICAL DIAGRAMS STANDARD

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# ELECTRICAL DIAGRAMS STANDARD

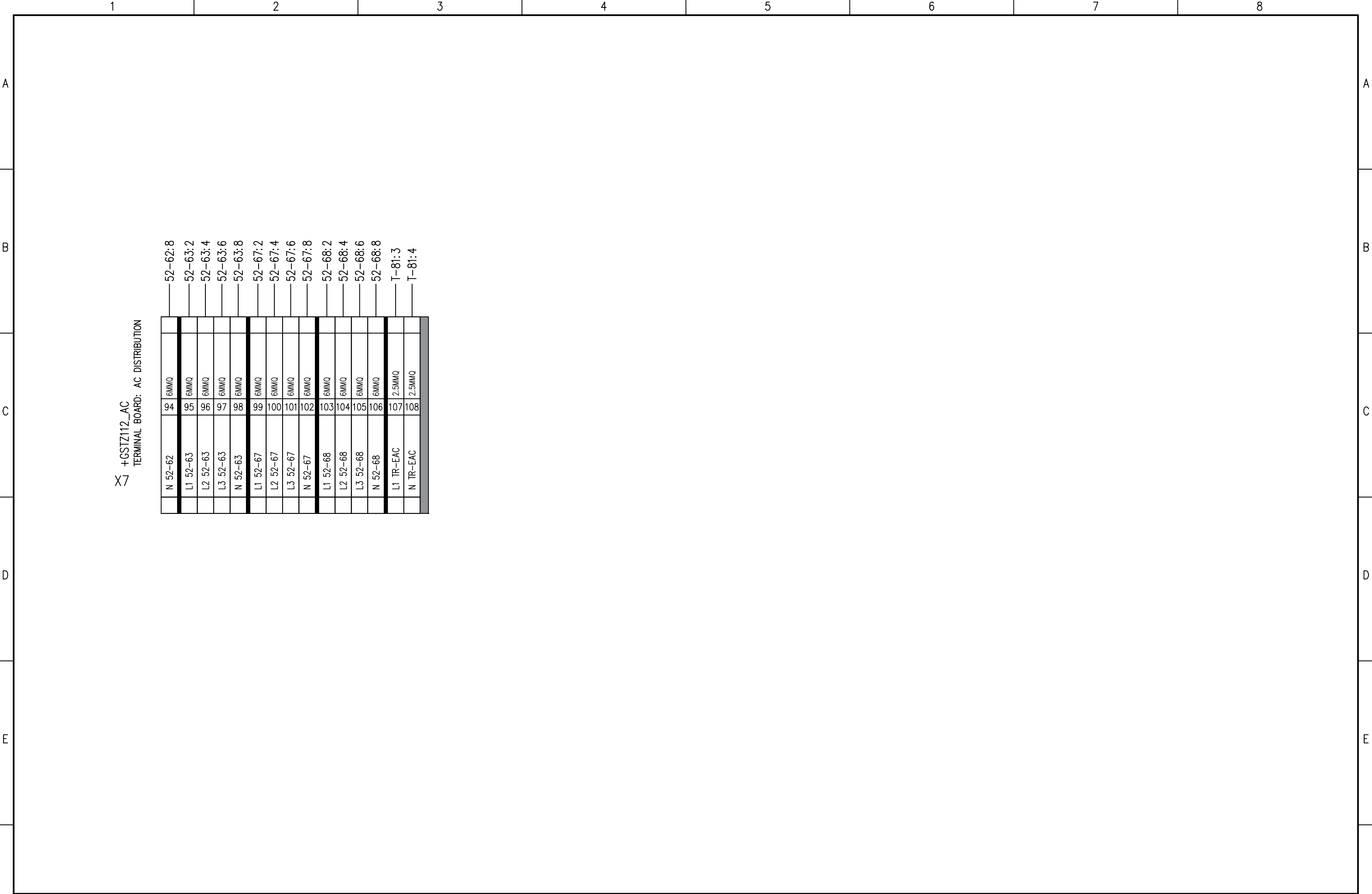
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TERMINAL BOARD: X7

GSTZ112_A1.DWG			SHEET	37 OF	42
SERIAL CODE	N'DOC.	GSTZ112	NEXT		38



X7

+GSTZ112\_AC

TERMINAL BOARD: AC DISTRIBUTION


N 52-62	94	6MMQ	52-62:8
L1 52-63	95	6MMQ	52-63:2
L2 52-63	96	6MMQ	52-63:4
L3 52-63	97	6MMQ	52-63:6
N 52-63	98	6MMQ	52-63:8
L1 52-67	99	6MMQ	52-67:2
L2 52-67	100	6MMQ	52-67:4
L3 52-67	101	6MMQ	52-67:6
N 52-67	102	6MMQ	52-67:8
L1 52-68	103	6MMQ	52-68:2
L2 52-68	104	6MMQ	52-68:4
L3 52-68	105	6MMQ	52-68:6
N 52-68	106	6MMQ	52-68:8
L1 TR-EAC	107	2.5MMQ	T-81:3
N TR-EAC	108	2.5MMQ	T-81:4



1		2		3		4		5		6		7		8				
Descrizione articolo							Codice articolo		Costruttore			Codice alternativo		Quantità	U.M.			
10MMQ CLAMP							10MMQ							4	nr			
16MMQ CLAMP							16MMQ							8	nr			
2.5MMQ CLAMP							2.5MMQ							115	nr			
SWITCH 4 POLES 250A							42–CA250							1	nr			
SWITCH 4 POLES 250A							42–CC250							2	nr			
SWITCH 2 POLES 80A							42–cc80							2	nr			
SELECTOR 2 POSITIONS R601–224002–W002							43 L–R		COMELETRIC					1	nr			
4MMQ CLAMP							4MMQ							20	nr			
4MMQ (2+2) CLAMP							4MMQ (2+2)							65	nr			
50MMQ CLAMP							50MMQ							4	nr			
SWITCH 2 POLES 10A – C CURVE + AUX. CONTACT							52–C10 2P							2	nr			
SWITCH 4 POLES 10A – C CURVE – DIFFERENTIAL + AUX. CONTACT							52–C10 4P D							2	nr			
SWITCH 2 POLES 16A – C CURVE + AUX. CONTACT							52–C16 2P							5	nr			
SWITCH 4 POLES 16A – C CURVE + AUX. CONTACT							52–C16 4P							3	nr			
SWITCH 4 POLES 16A – C CURVE – DIFFERENTIAL + AUX. CONTACT							52–C16 4P D							1	nr			
SWITCH 4 POLES 20A – C CURVE + AUX. CONTACT							52–C20 4P							1	nr			
SWITCH 2 POLES 25A – C CURVE + AUX. CONTACT							52–C25 2P							1	nr			
					DATA	31/01/2020	 POWER SWITCHGEAR AND CONTROLGEAR (PSC) LIST OF ELECTRICAL COMPONENTS					ELECTRICAL DIAGRAMS STANDARD						
2	FIRST APPROVED EDITION		31/03/2020	Berasi P.	DRAWN	Berasi P.						GSTZ112_A1.DWG				SHEET	40 OF	42
1	FIRST DRAFT		31/01/2020	Berasi P.	VERIFIED	Scrosati G.												
REV.	MODIFICATIONS		DATA	SIGN.	APPROVED	Giammanco F.						SERIAL CODE				N'DOC.	GSTZ112	NEXT





1		2		3		4		5		6		7		8		
Descrizione articolo								Codice articolo		Costruttore			Codice alternativo		Quantità	U.M.
SWITCH 4 POLES 25A – C CURVE + AUX. CONTACT								52–C25 4P							1	nr
SWITCH 4 POLES 25A – C CURVE – DIFFERENTIAL + AUX. CONTACT								52–C25 4P D							3	nr
SWITCH 4 POLES 32A – C CURVE – DIFFERENTIAL + AUX. CONTACT								52–C32 4P D							2	nr
SWITCH 2 POLES 16A – C CURVE + AUX. CONTACT								52–C6 2P							12	nr
SWITCH 4 POLES 6A – C CURVE + AUX. CONTACT								52–C6 4P							1	nr
SWITCH 4 POLES 25A – D CURVE + AUX. CONTACT								52–D25 4P							2	nr
SWITCH 4 POLES 32A – D CURVE + AUX. CONTACT								52–D32 4P							1	nr
SWITCH 3 POLES 16A – FOR MOTOR + AUX. CONTACT								52–Mot16 3P							3	nr
SWITCH 4 POLES 16A – FOR MOTOR + AUX. CONTACT								52–Mot16 4P							1	nr
SWITCH 4 POLES 20A – FOR MOTOR + AUX. CONTACT								52–Mot20 4P							2	nr
SWITCH 4 POLES 25A – FOR MOTOR + AUX. CONTACT								52–Mot25 4P							2	nr
SWITCH 3 POLES 32A – FOR MOTOR + AUX. CONTACT								52–Mot32 3P							3	nr
SWITCH 4 POLES 6A – FOR MOTOR + AUX. CONTACT								52–Mot6 4P							2	nr
6MMQ CLAMP								6MMQ							152	nr
95MMQ CLAMP								95MMQ							4	nr
RELAY 4P 20A – CATEGORY AC1								CONT.–4P							2	nr
DIODE 24VDC 80A – 350V								Diodo 24Vdc							1	nr
					DATA	31/01/2020	POWER SWITCHGEAR AND CONTROLGEAR (PSC) LIST OF ELECTRICAL COMPONENTS					ELECTRICAL DIAGRAMS STANDARD				
2	FIRST APPROVED EDITION		31/03/2020	Berasi P.	DRAWN	Berasi P.										
1	FIRST DRAFT		31/01/2020	Berasi P.	VERIFIED	Scrosati G.										
REV.	MODIFICATIONS		DATA	SIGN.	APPROVED	Giammanco F.										
												GSTZ112_A1.DWG		SHEET 41 OF 42		
												SERIAL CODE		N'DOC.	GSTZ112	NEXT



POWER SWITCHGEAR AND CONTROLGEAR (PSC)  
LIST OF ELECTRICAL COMPONENTS

GSTZ112_A1.DWG			SHEET	41 OF	42
SERIAL CODE		N'DOC.	GSTZ112	NEXT	42

1		2		3		4		5		6		7		8			
Descrizione articolo								Codice articolo		Costruttore		Codice alternativo		Quantità	U.M.		
DIODE VAUX 300A – 600V								Diodo VAUX						1	nr		
7 PIN CONNECTOR – 5.08 WITH FIXING SCREW								MI						1	nr		
13 PIN CONNECTOR – 3.81								MMI						2	nr		
2 PIN CONNECTOR – 5.08								MMP						2	nr		
3 PIN CONNECTOR – 5.08 WITH FIXING SCREW								MP						1	nr		
14 PIN CONNECTOR – 5.08 WITH FIXING SCREW								MT						1	nr		
MULTIFUNCTION METER								MULTIMETRO						1	nr		
TERMINAL CLAMP								Parete						12	nr		
AC UNDERVOLTAGE RELAY								RELAY 27AC						1	nr		
DC UNDERVOLTAGE RELAY								RELAY 27DC						2	nr		
TWILIGHT RELAY								RELE CR.						1	nr		
SEPARATOR CLAMP								Separatore						81	nr		
MEASUREMENT CT 250/5								TA MISURA 250/5						3	nr		
THERMOSTAT 10–90°C – 16A								TERMOSTATO						1	nr		
TRASFORMATORE EAC AC(F–F)/100V–20VA								TR–EAC						1	nr		
HUMIDOSTAT								UMIDOSTATO						1	nr		
					DATA	31/01/2020	POWER SWITCHGEAR AND CONTROLGEAR (PSC) LIST OF ELECTRICAL COMPONENTS					ELECTRICAL DIAGRAMS STANDARD					
2	FIRST APPROVED EDITION		31/03/2020	Berasi P.	DRAWN	Berasi P.						GSTZ112_A1.DWG				SHEET 42 OF 42	
1	FIRST DRAFT		31/01/2020	Berasi P.	VERIFIED	Scrosati G.											
REV.	MODIFICATIONS		DATA	SIGN.	APPROVED	Giammanco F.						SERIAL CODE				N'DOC. GSTZ112 NEXT	