



Before installing this product, please read this installation manual carefully.

Installation must be performed in accordance with national electrical installation standards and only by authorized personnel. After reading it carefully, keep this installation manual for future reference.

EN

**Connection diagrams
for EC motors 1.2kW-5.25kW
VENTUS control gears**

CE

***Appendix to the CG UPC Instruction for VENTUS
Air Handling Units***

VENTUS

IOMM CG UPC – Appendix 1 - ver. 2.0.1 (06.2026)



ATTENTION!

- ! INSTALLATION, MAINTENANCE, AND REPAIRS MUST BE PERFORMED BY QUALIFIED TECHNICAL PERSONNEL OR SUPERVISED BY AUTHORIZED SPECIALISTS.
- ! INSTALLATION, COMMISSIONING, AND SERVICING OF AIR HANDLING UNITS AND THEIR EQUIPMENT MAY INVOLVE CERTAIN SAFETY RISKS AND THUS REQUIRES SPECIFIC KNOWLEDGE AND TRAINING.
- ! WHEN CONNECTING, SERVICING, AND USING AIR HANDLING UNITS, ALL PRECAUTIONS COMMUNICATED BY THE MANUFACTURER AND THOSE RESULTING FROM GOOD PRACTICES FOR HVAC INSTALLATION AND EQUIPMENT MUST BE OBSERVED.
- ! THE TERM "QUALIFIED TECHNICAL PERSONNEL" REFERS TO TRAINED SPECIALISTS WHO, THANKS TO THEIR PROFESSIONAL EXPERIENCE AND KNOWLEDGE OF THE RELEVANT STANDARDS, DOCUMENTATION, AND REGULATIONS REGARDING OPERATING PROCEDURES AND RELATED SAFETY, ARE AUTHORIZED TO PERFORM THE NECESSARY ACTIVITIES, AS WELL AS THOSE WHO IS ABLE TO DIAGNOSE AND CORRECT ANY POTENTIAL PROBLEMS. ALL ELECTRICAL WORK MAY BE PERFORMED BY A LICENSED ELECTRICIAN WHO HAS AT LEAST A CERTIFICATE OF QUALIFICATION FOR THE OPERATION OF DEVICES, INSTALLATIONS, AND NETWORKS (E1) AND A CERTIFICATE OF QUALIFICATION FOR SUPERVISION OF DEVICES, INSTALLATIONS, AND NETWORKS (D1).
- ! IF THE DEVICE IS EQUIPPED WITH COMPONENTS OR IS CONNECTED TO INSTALLATIONS THAT REQUIRE E2 AND D2 QUALIFICATIONS, THE INSTALLER AND TECHNICAL SUPERVISION PERSON MUST HAVE SUCH QUALIFICATIONS.
- ! ALWAYS INSTALL A DEDICATED CIRCUIT AND BREAKER. IMPROPER WIRING OR INSTALLATION CAN CAUSE FIRE OR ELECTRIC SHOCK.
- ! IF THE POWER SUPPLY IS IMPROPERLY RATED OR ELECTRICAL WORK IS PERFORMED IMPROPERLY, ELECTRIC SHOCK OR FIRE MAY OCCUR.
- ! DO NOT USE A DAMAGED OR INCORRECTLY SELECTED BREAKER OR CABLE.



DANGER!

- ! ALWAYS INSTALL A DEDICATED CIRCUIT AND BREAKER.
- ! IMPROPER WIRING OR INSTALLATION CAN CAUSE FIRE OR ELECTRIC SHOCK.
- ! IF THE POWER SUPPLY IS IMPROPERLY RATED OR ELECTRICAL WORK IS PERFORMED IMPROPERLY, ELECTRIC SHOCK OR FIRE MAY OCCUR.
- ! DO NOT USE A DAMAGED OR INCORRECTLY SELECTED BREAKER OR CABLE..



ATTENTION!

- ! WARRANTY REPAIRS MAY ONLY BE PERFORMED BY SERVICE PERSONNEL WITH AUTHORIZATIONS GRANTED BY VTS, CONFIRMED BY AN APPROPRIATE CERTIFICATE PERMITTING THEM TO PERFORM THIS TYPE OF WORK. WE ALSO RECOMMEND THAT A VTS-AUTHORIZED SERVICE PERFORM INSTALLATION, COMMISSIONING, POST-WARRANTY REPAIRS, TECHNICAL INSPECTIONS, AND MAINTENANCE WORK REQUIRED FOR AIR HANDLING UNITS.
- ! VTS RESERVES THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.



INFORMATION FOR USERS ON THE CORRECT HANDLING OF ELECTRICAL AND ELECTRONIC WASTE (WEEE).

IN ACCORDANCE WITH THE EUROPEAN UNION DIRECTIVE 2002/96/EC ISSUED ON 27 JANUARY 2003 AND RELATED NATIONAL REGULATIONS, PLEASE NOTE THAT:

- ! WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) CANNOT BE DISPOSED OF AS MUNICIPAL WASTE, AND SUCH WASTE MUST BE COLLECTED AND DISPOSED OF SEPARATELY.
- ! PUBLIC OR PRIVATE WASTE COLLECTION SYSTEMS SHOULD BE USED AS DEFINED IN LOCAL REGULATIONS.
- ! EQUIPMENT MAY CONTAIN HAZARDOUS SUBSTANCES: IMPROPER USE OR IMPROPER DISPOSAL OF SUBSTANCES MAY HAVE A NEGATIVE EFFECT ON HUMAN HEALTH AND THE ENVIRONMENT.
- ! THE SYMBOL (CROSSED-OUT WASTE BIN) ON THE PRODUCT OR ON THE PACKAGING AND IN THE TECHNICAL LEAFLET MEANS THAT THE EQUIPMENT WAS PLACED ON THE MARKET AFTER 13 AUGUST 2005 AND MUST BE DISPOSED OF SEPARATELY! BY SEPARATING AND SUBMITTING USED ELECTRICAL AND ELECTRONIC EQUIPMENT FOR PROCESSING, RECOVERY, RECYCLING, AND DISPOSAL, YOU PROTECT THE ENVIRONMENT FROM POLLUTION AND CONTAMINATION, CONTRIBUTE TO REDUCING THE CONSUMPTION OF NATURAL RESOURCES, AND REDUCING THE COSTS OF PRODUCING NEW EQUIPMENT.
- ! IN THE CASE OF ILLEGAL DISPOSAL OF ELECTRICAL AND ELECTRONIC WASTE, PENALTIES ARE SET OUT IN LOCAL WASTE DISPOSAL REGULATIONS.

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1 WIRING GUIDANCE

Fan sections with EC motors in VENTUS modular AIR HANDLING UNITS

AHU	FLA [A]	MCA [A]	M.C.B. [A]	WIRE [mm ²]
250 0.75kW 0.75x1	3,2	4	6	4
315 1.2kW 1.20x1	1,9	2,4	6	2,4
315 3.3kW 3.30x1	5,1	6,4	10	6,4
400 2.7kW 2.70x1	4,2	5,3	10	5,3
400 2.7kW 2.70x2	8,4	10,5	16	10,5
450 3.3kW 3.30x1	5,1	6,4	10	6,4
450 3.3kW 3.30x2	10,2	12,8	16	12,8
450 3.3kW 3.30x3	15,3	19,1	25	19,1
450 3.3kW 3.30x4	20,4	25,5	32	25,5
450 3.3kW 3.30x5	25,5	31,9	40	31,9
450 3.3kW 3.30x6	30,6	38,3	50	38,3
450 3.3kW 3.30x8	40,8	51	63	51
450 5.25kW 5.25x1	8,1	10,1	16	10,1
450 5.25kW 5.25x2	16,2	20,3	25	20,3
450 5.25kW 5.25x3	24,3	30,4	40	30,4
450 5.25kW 5.25x4	32,4	40,5	50	40,5
450 5.25kW 5.25x5	40,5	50,6	63	50,6
450 5.25kW 5.25x6	48,6	60,8	80	60,8
450 5.25kW 5.25x8	64,8	81	100	81
250 0.75kW 0.75x1	3,2	4	6	4
315 1.2kW 1.20x1	1,9	2,4	6	2,4
315 3.3kW 3.30x1	5,1	6,4	10	6,4
400 2.7kW 2.70x1	4,2	5,3	10	5,3
400 2.7kW 2.70x2	8,4	10,5	16	10,5
450 3.3kW 3.30x1	5,1	6,4	10	6,4
450 3.3kW 3.30x2	10,2	12,8	16	12,8
450 3.3kW 3.30x3	15,3	19,1	25	19,1
450 3.3kW 3.30x4	20,4	25,5	32	25,5

2 RATED POWER SUPPLY CURRENTS OF 3X400V~ CG

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		1.2kW	1.5kW	1.5kW	1.5kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW
EXHAUST ↓		x1	x1	x2	x3	x2	x3	x4	x5	x6	x7
-	L1	3,9	4,9	7,8	10,7	12,2	17,3	22,4	27,5	32,6	37,7
	L2	3,4	4,4	7,3	10,2	11,7	16,8	21,9	27,0	32,1	37,2
	L3	8,9	9,9	12,8	15,7	17,2	22,3	27,4	32,5	37,6	42,7
1.2kW x1	L1	5,8	6,8	9,7	12,6	14,1	19,2	24,3	29,4	34,5	39,6
	L2	5,3	6,3	9,2	12,1	13,6	18,7	23,8	28,9	34,0	39,1
	L3	10,8	11,8	14,7	17,6	19,1	24,2	29,3	34,4	39,5	44,6
1.5kW x1	L1	6,8	7,8	10,7	13,6	15,1	20,2	25,3	30,4	35,5	40,6
	L2	6,3	7,3	10,2	13,1	14,6	19,7	24,8	29,9	35,0	40,1
	L3	11,8	12,8	15,7	18,6	20,1	25,2	30,3	35,4	40,5	45,6
1.5kW x2	L1	9,7	10,7	13,6	16,5	18,0	23,1	28,2	33,3	38,4	43,5
	L2	9,2	10,2	13,1	16,0	17,5	22,6	27,7	32,8	37,9	43,0
	L3	14,7	15,7	18,6	21,5	23,0	28,1	33,2	38,3	43,4	48,5
1.5kW x3	L1	12,6	13,6	16,5	19,4	20,9	26,0	31,1	36,2	41,3	46,4
	L2	12,1	13,1	16,0	18,9	20,4	25,5	30,6	35,7	40,8	45,9
	L3	17,6	18,6	21,5	24,4	25,9	31,0	36,1	41,2	46,3	51,4
2.4kW x2	L1	14,1	15,1	18,0	20,9	22,4	27,5	32,6	37,7	42,8	47,9
	L2	13,6	14,6	17,5	20,4	21,9	27,0	32,1	37,2	42,3	47,4
	L3	19,1	20,1	23,0	25,9	27,4	32,5	37,6	42,7	47,8	52,9
2.4kW x3	L1	19,2	20,2	23,1	26,0	27,5	32,6	37,7	42,8	47,9	53,0
	L2	18,7	19,7	22,6	25,5	27,0	32,1	37,2	42,3	47,4	52,5
	L3	24,2	25,2	28,1	31,0	32,5	37,6	42,7	47,8	52,9	58,0
2.4kW x4	L1	24,3	25,3	28,2	31,1	32,6	37,7	42,8	47,9	53,0	58,1
	L2	23,8	24,8	27,7	30,6	32,1	37,2	42,3	47,4	52,5	57,6
	L3	29,3	30,3	33,2	36,1	37,6	42,7	47,8	52,9	58,0	63,1
2.4kW x5	L1	29,4	30,4	33,3	36,2	37,7	42,8	47,9	53,0	58,1	63,2
	L2	28,9	29,9	32,8	35,7	37,2	42,3	47,4	52,5	57,6	62,7
	L3	34,4	35,4	38,3	41,2	42,7	47,8	52,9	58,0	63,1	68,2
2.4kW x6	L1	34,5	35,5	38,4	41,3	42,8	47,9	53,0	58,1	63,2	68,3
	L2	34,0	35,0	37,9	40,8	42,3	47,4	52,5	57,6	62,7	67,8
	L3	39,5	40,5	43,4	46,3	47,8	52,9	58,0	63,1	68,2	73,3
2.4kW x7	L1	39,6	40,6	43,5	46,4	47,9	53,0	58,1	63,2	68,3	73,4
	L2	39,1	40,1	43,0	45,9	47,4	52,5	57,6	62,7	67,8	72,9
	L3	44,6	45,6	48,5	51,4	52,9	58,0	63,1	68,2	73,3	78,4

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		1.2kW x1	1.5kW x1	1.5kW x2	1.5kW x3	2.4kW x2	2.4kW x3	2.4kW x4	2.4kW x5	2.4kW x6	2.4kW x7
EXHAUST ↓											
2.4kW x8	L1	44,7	45,7	48,6	51,5	53,0	58,1	63,2	68,3	73,4	78,5
	L2	44,2	45,2	48,1	51,0	52,5	57,6	62,7	67,8	72,9	78,0
	L3	49,7	50,7	53,6	56,5	58,0	63,1	68,2	73,3	78,4	83,5
2.7kW x1	L1	8,1	9,1	12,0	14,9	16,4	21,5	26,6	31,7	36,8	41,9
	L2	7,6	8,6	11,5	14,4	15,9	21,0	26,1	31,2	36,3	41,4
	L3	13,1	14,1	17,0	19,9	21,4	26,5	31,6	36,7	41,8	46,9
2.7kW x2	L1	12,3	13,3	16,2	19,1	20,6	25,7	30,8	35,9	41,0	46,1
	L2	11,8	12,8	15,7	18,6	20,1	25,2	30,3	35,4	40,5	45,6
	L3	17,3	18,3	21,2	24,1	25,6	30,7	35,8	40,9	46,0	51,1
3.3kW x1	L1	9,0	10,0	12,9	15,8	17,3	22,4	27,5	32,6	37,7	42,8
	L2	8,5	9,5	12,4	15,3	16,8	21,9	27,0	32,1	37,2	42,3
	L3	14,0	15,0	17,9	20,8	22,3	27,4	32,5	37,6	42,7	47,8
3.3kW x2	L1	14,1	15,1	18,0	20,9	22,4	27,5	32,6	37,7	42,8	47,9
	L2	13,6	14,6	17,5	20,4	21,9	27,0	32,1	37,2	42,3	47,4
	L3	19,1	20,1	23,0	25,9	27,4	32,5	37,6	42,7	47,8	52,9
3.3kW x3	L1	19,2	20,2	23,1	26,0	27,5	32,6	37,7	42,8	47,9	53,0
	L2	18,7	19,7	22,6	25,5	27,0	32,1	37,2	42,3	47,4	52,5
	L3	24,2	25,2	28,1	31,0	32,5	37,6	42,7	47,8	52,9	58,0
3.3kW x4	L1	24,3	25,3	28,2	31,1	32,6	37,7	42,8	47,9	53,0	58,1
	L2	23,8	24,8	27,7	30,6	32,1	37,2	42,3	47,4	52,5	57,6
	L3	29,3	30,3	33,2	36,1	37,6	42,7	47,8	52,9	58,0	63,1
3.3kW x5	L1	29,4	30,4	33,3	36,2	37,7	42,8	47,9	53,0	58,1	63,2
	L2	28,9	29,9	32,8	35,7	37,2	42,3	47,4	52,5	57,6	62,7
	L3	34,4	35,4	38,3	41,2	42,7	47,8	52,9	58,0	63,1	68,2
3.3kW x6	L1	34,5	35,5	38,4	41,3	42,8	47,9	53,0	58,1	63,2	68,3
	L2	34,0	35,0	37,9	40,8	42,3	47,4	52,5	57,6	62,7	67,8
	L3	39,5	40,5	43,4	46,3	47,8	52,9	58,0	63,1	68,2	73,3
3.3kW x8	L1	44,7	45,7	48,6	51,5	53,0	58,1	63,2	68,3	73,4	78,5
	L2	44,2	45,2	48,1	51,0	52,5	57,6	62,7	67,8	72,9	78,0
	L3	49,7	50,7	53,6	56,5	58,0	63,1	68,2	73,3	78,4	83,5
5.25kW x1	L1	12,0	13,0	15,9	18,8	20,3	25,4	30,5	35,6	40,7	45,8
	L2	11,5	12,5	15,4	18,3	19,8	24,9	30,0	35,1	40,2	45,3
	L3	17,0	18,0	20,9	23,8	25,3	30,4	35,5	40,6	45,7	50,8

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		1.2kW x1	1.5kW x1	1.5kW x2	1.5kW x3	2.4kW x2	2.4kW x3	2.4kW x4	2.4kW x5	2.4kW x6	2.4kW x7
EXHAUST ↓											
5.25kW x2	L1	20,1	21,1	24,0	26,9	28,4	33,5	38,6	43,7	48,8	53,9
	L2	19,6	20,6	23,5	26,4	27,9	33,0	38,1	43,2	48,3	53,4
	L3	25,1	26,1	29,0	31,9	33,4	38,5	43,6	48,7	53,8	58,9
5.25kW x3	L1	28,2	29,2	32,1	35,0	36,5	41,6	46,7	51,8	56,9	62,0
	L2	27,7	28,7	31,6	34,5	36,0	41,1	46,2	51,3	56,4	61,5
	L3	33,2	34,2	37,1	40,0	41,5	46,6	51,7	56,8	61,9	67,0
5.25kW x4	L1	36,3	37,3	40,2	43,1	44,6	49,7	54,8	59,9	65,0	70,1
	L2	35,8	36,8	39,7	42,6	44,1	49,2	54,3	59,4	64,5	69,6
	L3	41,3	42,3	45,2	48,1	49,6	54,7	59,8	64,9	70,0	75,1
5.25kW x5	L1	44,4	45,4	48,3	51,2	52,7	57,8	62,9	68,0	73,1	78,2
	L2	43,9	44,9	47,8	50,7	52,2	57,3	62,4	67,5	72,6	77,7
	L3	49,4	50,4	53,3	56,2	57,7	62,8	67,9	73,0	78,1	83,2
5.25kW x6	L1	52,5	53,5	56,4	59,3	60,8	65,9	71,0	76,1	81,2	86,3
	L2	52,0	53,0	55,9	58,8	60,3	65,4	70,5	75,6	80,7	85,8
	L3	57,5	58,5	61,4	64,3	65,8	70,9	76,0	81,1	86,2	91,3
5.25kW x8	L1	68,7	69,7	72,6	75,5	77,0	82,1	87,2	92,3	97,4	102,5
	L2	68,2	69,2	72,1	75,0	76,5	81,6	86,7	91,8	96,9	102,0
	L3	73,7	74,7	77,6	80,5	82,0	87,1	92,2	97,3	102,4	107,5

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		1.2kW	1.5kW	1.5kW	1.5kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW
EXHAUST ↓		x1	x1	x2	x3	x2	x3	x4	x5	x6	x7
2.4kW x8	L1	44,7	45,7	48,6	51,5	53,0	58,1	63,2	68,3	73,4	78,5
	L2	44,2	45,2	48,1	51,0	52,5	57,6	62,7	67,8	72,9	78,0
	L3	49,7	50,7	53,6	56,5	58,0	63,1	68,2	73,3	78,4	83,5
2.7kW x1	L1	8,1	9,1	12,0	14,9	16,4	21,5	26,6	31,7	36,8	41,9
	L2	7,6	8,6	11,5	14,4	15,9	21,0	26,1	31,2	36,3	41,4
	L3	13,1	14,1	17,0	19,9	21,4	26,5	31,6	36,7	41,8	46,9
2.7kW x2	L1	12,3	13,3	16,2	19,1	20,6	25,7	30,8	35,9	41,0	46,1
	L2	11,8	12,8	15,7	18,6	20,1	25,2	30,3	35,4	40,5	45,6
	L3	17,3	18,3	21,2	24,1	25,6	30,7	35,8	40,9	46,0	51,1
3.3kW x1	L1	9,0	10,0	12,9	15,8	17,3	22,4	27,5	32,6	37,7	42,8
	L2	8,5	9,5	12,4	15,3	16,8	21,9	27,0	32,1	37,2	42,3
	L3	14,0	15,0	17,9	20,8	22,3	27,4	32,5	37,6	42,7	47,8
3.3kW x2	L1	14,1	15,1	18,0	20,9	22,4	27,5	32,6	37,7	42,8	47,9
	L2	13,6	14,6	17,5	20,4	21,9	27,0	32,1	37,2	42,3	47,4
	L3	19,1	20,1	23,0	25,9	27,4	32,5	37,6	42,7	47,8	52,9
3.3kW x3	L1	19,2	20,2	23,1	26,0	27,5	32,6	37,7	42,8	47,9	53,0
	L2	18,7	19,7	22,6	25,5	27,0	32,1	37,2	42,3	47,4	52,5
	L3	24,2	25,2	28,1	31,0	32,5	37,6	42,7	47,8	52,9	58,0
3.3kW x4	L1	24,3	25,3	28,2	31,1	32,6	37,7	42,8	47,9	53,0	58,1
	L2	23,8	24,8	27,7	30,6	32,1	37,2	42,3	47,4	52,5	57,6
	L3	29,3	30,3	33,2	36,1	37,6	42,7	47,8	52,9	58,0	63,1
3.3kW x5	L1	29,4	30,4	33,3	36,2	37,7	42,8	47,9	53,0	58,1	63,2
	L2	28,9	29,9	32,8	35,7	37,2	42,3	47,4	52,5	57,6	62,7
	L3	34,4	35,4	38,3	41,2	42,7	47,8	52,9	58,0	63,1	68,2
3.3kW x6	L1	34,5	35,5	38,4	41,3	42,8	47,9	53,0	58,1	63,2	68,3
	L2	34,0	35,0	37,9	40,8	42,3	47,4	52,5	57,6	62,7	67,8
	L3	39,5	40,5	43,4	46,3	47,8	52,9	58,0	63,1	68,2	73,3
3.3kW x8	L1	44,7	45,7	48,6	51,5	53,0	58,1	63,2	68,3	73,4	78,5
	L2	44,2	45,2	48,1	51,0	52,5	57,6	62,7	67,8	72,9	78,0
	L3	49,7	50,7	53,6	56,5	58,0	63,1	68,2	73,3	78,4	83,5
5.25kW x1	L1	12,0	13,0	15,9	18,8	20,3	25,4	30,5	35,6	40,7	45,8
	L2	11,5	12,5	15,4	18,3	19,8	24,9	30,0	35,1	40,2	45,3
	L3	17,0	18,0	20,9	23,8	25,3	30,4	35,5	40,6	45,7	50,8

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		2.4kW x8	2.7kW x1	2.7kW x2	3.3kW x1	3.3kW x2	3.3kW x3	3.3kW x4	3.3kW x5	3.3kW x6	3.3kW x8
EXHAUST ↓											
-	L1	42,8	6,2	10,4	7,1	12,2	17,3	22,4	27,5	32,6	42,8
	L2	42,3	5,7	9,9	6,6	11,7	16,8	21,9	27,0	32,1	42,3
	L3	47,8	11,2	15,4	12,1	17,2	22,3	27,4	32,5	37,6	47,8
1.2kW x1	L1	44,7	8,1	12,3	9,0	14,1	19,2	24,3	29,4	34,5	44,7
	L2	44,2	7,6	11,8	8,5	13,6	18,7	23,8	28,9	34,0	44,2
	L3	49,7	13,1	17,3	14,0	19,1	24,2	29,3	34,4	39,5	49,7
1.5kW x1	L1	45,7	9,1	13,3	10,0	15,1	20,2	25,3	30,4	35,5	45,7
	L2	45,2	8,6	12,8	9,5	14,6	19,7	24,8	29,9	35,0	45,2
	L3	50,7	14,1	18,3	15,0	20,1	25,2	30,3	35,4	40,5	50,7
1.5kW x2	L1	48,6	12	16,2	12,9	18,0	23,1	28,2	33,3	38,4	48,6
	L2	48,1	11,5	15,7	12,4	17,5	22,6	27,7	32,8	37,9	48,1
	L3	53,6	17,0	21,2	17,9	23,0	28,1	33,2	38,3	43,4	53,6
1.5kW x3	L1	51,5	14,9	19,1	15,8	20,9	26,0	31,1	36,2	41,3	51,5
	L2	51,0	14,4	18,6	15,3	20,4	25,5	30,6	35,7	40,8	51,0
	L3	56,5	19,9	24,1	20,8	25,9	31,0	36,1	41,2	46,3	56,5
2.4kW x2	L1	53,0	16,4	20,6	17,3	22,4	27,5	32,6	37,7	42,8	53,0
	L2	52,5	15,9	20,1	16,8	21,9	27,0	32,1	37,2	42,3	52,5
	L3	58,0	21,4	25,6	22,3	27,4	32,5	37,6	42,7	47,8	58,0
2.4kW x3	L1	58,1	21,5	25,7	22,4	27,5	32,6	37,7	42,8	47,9	58,1
	L2	57,6	21,0	25,2	21,9	27,0	32,1	37,2	42,3	47,4	57,6
	L3	63,1	26,5	30,7	27,4	32,5	37,6	42,7	47,8	52,9	63,1
2.4kW x4	L1	63,2	26,6	30,8	27,5	32,6	37,7	42,8	47,9	53,0	63,2
	L2	62,7	26,1	30,3	27,0	32,1	37,2	42,3	47,4	52,5	62,7
	L3	68,2	31,6	35,8	32,5	37,6	42,7	47,8	52,9	58,0	68,2
2.4kW x5	L1	68,3	31,7	35,9	32,6	37,7	42,8	47,9	53,0	58,1	68,3
	L2	67,8	31,2	35,4	32,1	37,2	42,3	47,4	52,5	57,6	67,8
	L3	73,3	36,7	40,9	37,6	42,7	47,8	52,9	58,0	63,1	73,3
2.4kW x6	L1	73,4	36,8	41	37,7	42,8	47,9	53,0	58,1	63,2	73,4
	L2	72,9	36,3	40,5	37,2	42,3	47,4	52,5	57,6	62,7	72,9
	L3	78,4	41,8	46,0	42,7	47,8	52,9	58,0	63,1	68,2	78,4
2.4kW x7	L1	78,5	41,9	46,1	42,8	47,9	53,0	58,1	63,2	68,3	78,5
	L2	78,0	41,4	45,6	42,3	47,4	52,5	57,6	62,7	67,8	78,0
	L3	83,5	46,9	51,1	47,8	52,9	58,0	63,1	68,2	73,3	83,5

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		2.4kW x8	2.7kW x1	2.7kW x2	3.3kW x1	3.3kW x2	3.3kW x3	3.3kW x4	3.3kW x5	3.3kW x6	3.3kW x8
EXHAUST ↓											
2.4kW x8	L1	83,6	47	51,2	47,9	53,0	58,1	63,2	68,3	73,4	83,6
	L2	83,1	46,5	50,7	47,4	52,5	57,6	62,7	67,8	72,9	83,1
	L3	88,6	52,0	56,2	52,9	58,0	63,1	68,2	73,3	78,4	88,6
2.7kW x1	L1	47,0	10,4	14,6	11,3	16,4	21,5	26,6	31,7	36,8	47,0
	L2	46,5	9,9	14,1	10,8	15,9	21,0	26,1	31,2	36,3	46,5
	L3	52,0	15,4	19,6	16,3	21,4	26,5	31,6	36,7	41,8	52,0
2.7kW x2	L1	51,2	14,6	18,8	15,5	20,6	25,7	30,8	35,9	41,0	51,2
	L2	50,7	14,1	18,3	15,0	20,1	25,2	30,3	35,4	40,5	50,7
	L3	56,2	19,6	23,8	20,5	25,6	30,7	35,8	40,9	46,0	56,2
3.3kW x1	L1	47,9	11,3	15,5	12,2	17,3	22,4	27,5	32,6	37,7	47,9
	L2	47,4	10,8	15,0	11,7	16,8	21,9	27,0	32,1	37,2	47,4
	L3	52,9	16,3	20,5	17,2	22,3	27,4	32,5	37,6	42,7	52,9
3.3kW x2	L1	53,0	16,4	20,6	17,3	22,4	27,5	32,6	37,7	42,8	53,0
	L2	52,5	15,9	20,1	16,8	21,9	27,0	32,1	37,2	42,3	52,5
	L3	58,0	21,4	25,6	22,3	27,4	32,5	37,6	42,7	47,8	58,0
3.3kW x3	L1	58,1	21,5	25,7	22,4	27,5	32,6	37,7	42,8	47,9	58,1
	L2	57,6	21,0	25,2	21,9	27,0	32,1	37,2	42,3	47,4	57,6
	L3	63,1	26,5	30,7	27,4	32,5	37,6	42,7	47,8	52,9	63,1
3.3kW x4	L1	63,2	26,6	30,8	27,5	32,6	37,7	42,8	47,9	53,0	63,2
	L2	62,7	26,1	30,3	27,0	32,1	37,2	42,3	47,4	52,5	62,7
	L3	68,2	31,6	35,8	32,5	37,6	42,7	47,8	52,9	58,0	68,2
3.3kW x5	L1	68,3	31,7	35,9	32,6	37,7	42,8	47,9	53,0	58,1	68,3
	L2	67,8	31,2	35,4	32,1	37,2	42,3	47,4	52,5	57,6	67,8
	L3	73,3	36,7	40,9	37,6	42,7	47,8	52,9	58,0	63,1	73,3
3.3kW x6	L1	73,4	36,8	41	37,7	42,8	47,9	53,0	58,1	63,2	73,4
	L2	72,9	36,3	40,5	37,2	42,3	47,4	52,5	57,6	62,7	72,9
	L3	78,4	41,8	46,0	42,7	47,8	52,9	58,0	63,1	68,2	78,4
3.3kW x8	L1	83,6	47	51,2	47,9	53,0	58,1	63,2	68,3	73,4	83,6
	L2	83,1	46,5	50,7	47,4	52,5	57,6	62,7	67,8	72,9	83,1
	L3	88,6	52,0	56,2	52,9	58,0	63,1	68,2	73,3	78,4	88,6
5.25kW x1	L1	50,9	14,3	18,5	15,2	20,3	25,4	30,5	35,6	40,7	50,9
	L2	50,4	13,8	18,0	14,7	19,8	24,9	30,0	35,1	40,2	50,4
	L3	55,9	19,3	23,5	20,2	25,3	30,4	35,5	40,6	45,7	55,9

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		2.4kW x8	2.7kW x1	2.7kW x2	3.3kW x1	3.3kW x2	3.3kW x3	3.3kW x4	3.3kW x5	3.3kW x6	3.3kW x8
EXHAUST ↓											
5.25kW x2	L1	59,0	22,4	26,6	23,3	28,4	33,5	38,6	43,7	48,8	59,0
	L2	58,5	21,9	26,1	22,8	27,9	33,0	38,1	43,2	48,3	58,5
	L3	64,0	27,4	31,6	28,3	33,4	38,5	43,6	48,7	53,8	64,0
5.25kW x3	L1	67,1	30,5	34,7	31,4	36,5	41,6	46,7	51,8	56,9	67,1
	L2	66,6	30,0	34,2	30,9	36,0	41,1	46,2	51,3	56,4	66,6
	L3	72,1	35,5	39,7	36,4	41,5	46,6	51,7	56,8	61,9	72,1
5.25kW x4	L1	75,2	38,6	42,8	39,5	44,6	49,7	54,8	59,9	65,0	75,2
	L2	74,7	38,1	42,3	39,0	44,1	49,2	54,3	59,4	64,5	74,7
	L3	80,2	43,6	47,8	44,5	49,6	54,7	59,8	64,9	70,0	80,2
5.25kW x5	L1	83,3	46,7	50,9	47,6	52,7	57,8	62,9	68,0	73,1	83,3
	L2	82,8	46,2	50,4	47,1	52,2	57,3	62,4	67,5	72,6	82,8
	L3	88,3	51,7	55,9	52,6	57,7	62,8	67,9	73,0	78,1	88,3
5.25kW x6	L1	91,4	54,8	59	55,7	60,8	65,9	71,0	76,1	81,2	91,4
	L2	90,9	54,3	58,5	55,2	60,3	65,4	70,5	75,6	80,7	90,9
	L3	96,4	59,8	64,0	60,7	65,8	70,9	76,0	81,1	86,2	96,4
5.25kW x8	L1	107,6	71	75,2	71,9	77,0	82,1	87,2	92,3	97,4	107,6
	L2	107,1	70,5	74,7	71,4	76,5	81,6	86,7	91,8	96,9	107,1
	L3	112,6	76,0	80,2	76,9	82,0	87,1	92,2	97,3	102,4	112,6

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		5.25kW x1	5.25kW x2	5.25kW x3	5.25kW x4	5.25kW x5	5.25kW x6	5.25kW x8
EXHAUST ↓								
-	L1	83,6	47	51,2	47,9	53,0	58,1	63,2
	L2	83,1	46,5	50,7	47,4	52,5	57,6	62,7
	L3	88,6	52,0	56,2	52,9	58,0	63,1	68,2
1.2kW x1	L1	47,0	10,4	14,6	11,3	16,4	21,5	26,6
	L2	46,5	9,9	14,1	10,8	15,9	21,0	26,1
	L3	52,0	15,4	19,6	16,3	21,4	26,5	31,6
1.5kW x1	L1	51,2	14,6	18,8	15,5	20,6	25,7	30,8
	L2	50,7	14,1	18,3	15,0	20,1	25,2	30,3
	L3	56,2	19,6	23,8	20,5	25,6	30,7	35,8
1.5kW x2	L1	47,9	11,3	15,5	12,2	17,3	22,4	27,5
	L2	47,4	10,8	15,0	11,7	16,8	21,9	27,0
	L3	52,9	16,3	20,5	17,2	22,3	27,4	32,5
1.5kW x3	L1	53,0	16,4	20,6	17,3	22,4	27,5	32,6
	L2	52,5	15,9	20,1	16,8	21,9	27,0	32,1
	L3	58,0	21,4	25,6	22,3	27,4	32,5	37,6
2.4kW x2	L1	58,1	21,5	25,7	22,4	27,5	32,6	37,7
	L2	57,6	21,0	25,2	21,9	27,0	32,1	37,2
	L3	63,1	26,5	30,7	27,4	32,5	37,6	42,7
2.4kW x3	L1	63,2	26,6	30,8	27,5	32,6	37,7	42,8
	L2	62,7	26,1	30,3	27,0	32,1	37,2	42,3
	L3	68,2	31,6	35,8	32,5	37,6	42,7	47,8
2.4kW x4	L1	68,3	31,7	35,9	32,6	37,7	42,8	47,9
	L2	67,8	31,2	35,4	32,1	37,2	42,3	47,4
	L3	73,3	36,7	40,9	37,6	42,7	47,8	52,9
2.4kW x5	L1	73,4	36,8	41	37,7	42,8	47,9	53,0
	L2	72,9	36,3	40,5	37,2	42,3	47,4	52,5
	L3	78,4	41,8	46,0	42,7	47,8	52,9	58,0
2.4kW x6	L1	83,6	47	51,2	47,9	53,0	58,1	63,2
	L2	83,1	46,5	50,7	47,4	52,5	57,6	62,7
	L3	88,6	52,0	56,2	52,9	58,0	63,1	68,2
2.4kW x7	L1	50,9	14,3	18,5	15,2	20,3	25,4	30,5
	L2	50,4	13,8	18,0	14,7	19,8	24,9	30,0
	L3	55,9	19,3	23,5	20,2	25,3	30,4	35,5

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		5.25kW x1	5.25kW x2	5.25kW x3	5.25kW x4	5.25kW x5	5.25kW x6	5.25kW x8
EXHAUST ↓								
2.4kW x8	L1	50,9	59,0	67,1	75,2	83,3	91,4	107,6
	L2	50,4	58,5	66,6	74,7	82,8	90,9	107,1
	L3	55,9	64,0	72,1	80,2	88,3	96,4	112,6
2.7kW x1	L1	14,3	22,4	30,5	38,6	46,7	54,8	71,0
	L2	13,8	21,9	30,0	38,1	46,2	54,3	70,5
	L3	19,3	27,4	35,5	43,6	51,7	59,8	76,0
2.7kW x2	L1	18,5	26,6	34,7	42,8	50,9	59,0	75,2
	L2	18,0	26,1	34,2	42,3	50,4	58,5	74,7
	L3	23,5	31,6	39,7	47,8	55,9	64,0	80,2
3.3kW x1	L1	15,2	23,3	31,4	39,5	47,6	55,7	71,9
	L2	14,7	22,8	30,9	39,0	47,1	55,2	71,4
	L3	20,2	28,3	36,4	44,5	52,6	60,7	76,9
3.3kW x2	L1	20,3	28,4	36,5	44,6	52,7	60,8	77,0
	L2	19,8	27,9	36,0	44,1	52,2	60,3	76,5
	L3	25,3	33,4	41,5	49,6	57,7	65,8	82,0
3.3kW x3	L1	25,4	33,5	41,6	49,7	57,8	65,9	82,1
	L2	24,9	33,0	41,1	49,2	57,3	65,4	81,6
	L3	30,4	38,5	46,6	54,7	62,8	70,9	87,1
3.3kW x4	L1	30,5	38,6	46,7	54,8	62,9	71,0	87,2
	L2	30,0	38,1	46,2	54,3	62,4	70,5	86,7
	L3	35,5	43,6	51,7	59,8	67,9	76,0	92,2
3.3kW x5	L1	35,6	43,7	51,8	59,9	68,0	76,1	92,3
	L2	35,1	43,2	51,3	59,4	67,5	75,6	91,8
	L3	40,6	48,7	56,8	64,9	73,0	81,1	97,3
3.3kW x6	L1	40,7	48,8	56,9	65,0	73,1	81,2	97,4
	L2	40,2	48,3	56,4	64,5	72,6	80,7	96,9
	L3	45,7	53,8	61,9	70,0	78,1	86,2	102,4
3.3kW x8	L1	50,9	59,0	67,1	75,2	83,3	91,4	107,6
	L2	50,4	58,5	66,6	74,7	82,8	90,9	107,1
	L3	55,9	64,0	72,1	80,2	88,3	96,4	112,6
5.25kW x1	L1	18,2	26,3	34,4	42,5	50,6	58,7	74,9
	L2	17,7	25,8	33,9	42,0	50,1	58,2	74,4
	L3	23,2	31,3	39,4	47,5	55,6	63,7	79,9

Rated currents [A] of power supply of Control Gear CG UPC at voltage 3x400V~ for VENTUS modular control units equipped with EC motors.

SUPPLY →		5.25kW x1	5.25kW x2	5.25kW x3	5.25kW x4	5.25kW x5	5.25kW x6	5.25kW x8
EXHAUST ↓								
5.25kW x2	L1	26,3	34,4	42,5	50,6	58,7	66,8	83,0
	L2	25,8	33,9	42,0	50,1	58,2	66,3	82,5
	L3	31,3	39,4	47,5	55,6	63,7	71,8	88,0
5.25kW x3	L1	34,4	42,5	50,6	58,7	66,8	74,9	91,1
	L2	33,9	42,0	50,1	58,2	66,3	74,4	90,6
	L3	39,4	47,5	55,6	63,7	71,8	79,9	96,1
5.25kW x4	L1	42,5	50,6	58,7	66,8	74,9	83,0	99,2
	L2	42,0	50,1	58,2	66,3	74,4	82,5	98,7
	L3	47,5	55,6	63,7	71,8	79,9	88,0	104,2
5.25kW x5	L1	50,6	58,7	66,8	74,9	83,0	91,1	107,3
	L2	50,1	58,2	66,3	74,4	82,5	90,6	106,8
	L3	55,6	63,7	71,8	79,9	88,0	96,1	112,3
5.25kW x6	L1	58,7	66,8	74,9	83,0	91,1	99,2	115,4
	L2	58,2	66,3	74,4	82,5	90,6	98,7	114,9
	L3	63,7	71,8	79,9	88,0	96,1	104,2	120,4
5.25kW x8	L1	74,9	83,0	91,1	99,2	107,3	115,4	131,6
	L2	74,4	82,5	90,6	98,7	106,8	114,9	131,1
	L3	79,9	88,0	96,1	104,2	112,3	120,4	136,6

3 POWER SUPPLY CABLES FOR CG 3X400V~

The minimum wire cross-sectional areas [mm²] for power supply cables feeding the CG UPC distribution boards are specified below, based on the assumption that the cable length does not exceed 10 m and that the cables are not exposed to significant heat sources, such as hot technical areas, hot climatic zones, or roof installations exposed to direct sunlight.

Nawiew →		1.5kW x1	1.5kW x2	1.5kW x3	2.4kW x2	2.4kW x3	2.4kW x4	2.4kW x5	2.4kW x6	2.4kW x7	2.4kW x8
↓ Wywiew											
	L1	1,5	1,5	2,5	2,5	4	4	6	10	10	10
	L2	1,5	1,5	2,5	2,5	4	4	6	10	10	10
	L3	1,5	1,5	2,5	2,5	4	4	6	10	10	10
1.2kW x1	L1	1,5	1,5	1,5	2,5	4	6	6	10	10	16
	L2	1,5	1,5	1,5	2,5	4	6	6	10	10	16
	L3	1,5	1,5	2,5	2,5	4	6	6	10	10	16
1.5kW x1	L1	1,5	2,5	2,5	4	4	6	10	10	10	16
	L2	1,5	2,5	2,5	4	4	6	10	10	10	16
	L3	1,5	2,5	2,5	4	4	6	10	10	10	16
1.5kW x2	L1	2,5	2,5	4	4	6	6	10	10	16	16
	L2	2,5	2,5	4	4	6	6	10	10	16	16
	L3	2,5	2,5	4	4	6	6	10	10	16	16
1.5kW x3	L1	2,5	4	4	4	6	10	10	10	16	16
	L2	2,5	4	4	4	6	10	10	10	16	16
	L3	2,5	4	4	4	6	10	10	10	16	16
2.4kW x2	L1	4	4	4	6	6	10	10	16	16	16
	L2	4	4	4	6	6	10	10	16	16	16
	L3	4	4	4	6	6	10	10	16	16	16
2.4kW x3	L1	4	6	6	6	10	10	16	16	16	16
	L2	4	6	6	6	10	10	16	16	16	16
	L3	4	6	6	6	10	10	16	16	16	16
2.4kW x4	L1	6	6	10	10	10	16	16	16	16	25
	L2	6	6	10	10	10	16	16	16	16	25
	L3	6	6	10	10	10	16	16	16	16	25
2.4kW x5	L1	10	10	10	10	16	16	16	16	25	25
	L2	10	10	10	10	16	16	16	16	25	25
	L3	10	10	10	10	16	16	16	16	25	25
2.4kW x6	L1	10	10	10	16	16	16	16	25	25	25
	L2	10	10	10	16	16	16	16	25	25	25
	L3	10	10	10	16	16	16	16	25	25	25
2.4kW x7	L1	10	16	16	16	16	16	25	25	25	35
	L2	10	16	16	16	16	16	25	25	25	35
	L3	10	16	16	16	16	16	25	25	25	35

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		1.5kW	1.5kW	1.5kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW	2.4kW
↓ Wywiew		x1	x2	x3	x2	x3	x4	x5	x6	x7	x8
2,4kW x8	L1	16	16	16	16	16	25	25	25	35	35
	L2	16	16	16	16	16	25	25	25	35	35
	L3	16	16	16	16	16	25	25	25	35	35
2.7kW x1	L1	1,5	2,5	2,5	4	4	6	10	10	10	16
	L2	1,5	2,5	2,5	4	4	6	10	10	10	16
	L3	1,5	2,5	2,5	4	4	6	10	10	10	16
2.7kW x2	L1	2,5	4	4	4	6	6	10	10	16	16
	L2	2,5	4	4	4	6	6	10	10	16	16
	L3	2,5	4	4	4	6	6	10	10	16	16
3.3kW x1	L1	1,5	2,5	2,5	4	4	6	10	10	10	16
	L2	1,5	2,5	2,5	4	4	6	10	10	10	16
	L3	1,5	2,5	2,5	4	4	6	10	10	10	16
3.3kW x2	L1	2,5	4	4	4	6	10	10	10	16	16
	L2	2,5	4	4	4	6	10	10	10	16	16
	L3	2,5	4	4	4	6	10	10	10	16	16
3.3kW x3	L1	4	4	6	6	10	10	10	16	16	16
	L2	4	4	6	6	10	10	10	16	16	16
	L3	4	4	6	6	10	10	10	16	16	16
3.3kW x4	L1	6	6	10	10	10	10	16	16	16	25
	L2	6	6	10	10	10	10	16	16	16	25
	L3	6	6	10	10	10	10	16	16	16	25
3.3kW x5	L1	10	10	10	10	16	16	16	16	25	25
	L2	10	10	10	10	16	16	16	16	25	25
	L3	10	10	10	10	16	16	16	16	25	25
3.3kW x6	L1	10	10	10	16	16	16	16	25	25	25
	L2	10	10	10	16	16	16	16	25	25	25
	L3	10	10	10	16	16	16	16	25	25	25
3.3kW x8	L1	16	16	16	16	16	25	25	25	35	35
	L2	16	16	16	16	16	25	25	25	35	35
	L3	16	16	16	16	16	25	25	25	35	35
5.25kW x1	L1	2,5	2,5	4	4	6	6	10	10	16	16
	L2	2,5	2,5	4	4	6	6	10	10	16	16
	L3	2,5	2,5	4	4	6	6	10	10	16	16

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		1.5kW x1	1.5kW x2	1.5kW x3	2.4kW x2	2.4kW x3	2.4kW x4	2.4kW x5	2.4kW x6	2.4kW x7	2.4kW x8
↓ Wywiew											
5.25kW x2	L1	4	6	6	6	10	10	10	16	16	16
	L2	4	6	6	6	10	10	10	16	16	16
	L3	4	6	6	6	10	10	10	16	16	16
5.25kW x3	L1	6	10	10	10	10	16	16	16	25	25
	L2	6	10	10	10	10	16	16	16	25	25
	L3	6	10	10	10	10	16	16	16	25	25
5.25kW x4	L1	10	10	10	16	16	16	16	25	25	25
	L2	10	10	10	16	16	16	16	25	25	25
	L3	10	10	10	16	16	16	16	25	25	25
5.25kW x5	L1	16	16	16	16	16	25	25	25	35	35
	L2	16	16	16	16	16	25	25	25	35	35
	L3	16	16	16	16	16	25	25	25	35	35
5.25kW x6	L1	16	16	25	25	25	25	25	35	35	35
	L2	16	16	25	25	25	25	25	35	35	35
	L3	16	16	25	25	25	25	25	35	35	35
5.25kW x8	L1	25	25	25	25	35	35	35	35	50	50
	L2	25	25	25	25	35	35	35	35	50	50
	L3	25	25	25	25	35	35	35	35	50	50
5.25kW x2	L1	4	6	6	6	10	10	10	16	16	16
	L2	4	6	6	6	10	10	10	16	16	16
	L3	4	6	6	6	10	10	10	16	16	16
	L3	16	16	25	25	25	25	25	35	35	35

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		2.7kW x1	2.7kW x2	3.3kW x1	3.3kW x2	3.3kW x3	3.3kW x4	3.3kW x5	3.3kW x6	3.3kW x8	5.25kW x1
↓ Wywiew											
	L1	1,5	2,5	1,5	2,5	4	4	6	10	10	1,5
	L2	1,5	2,5	1,5	2,5	4	4	6	10	10	1,5
	L3	1,5	2,5	1,5	2,5	4	4	6	10	10	1,5
1,2kW x1	L1	1,5	1,5	1,5	2,5	4	6	6	10	16	2,5
	L2	1,5	1,5	1,5	2,5	4	6	6	10	16	2,5
	L3	1,5	2,5	1,5	2,5	4	6	6	10	16	2,5
1,5kW x1	L1	2,5	2,5	1,5	2,5	4	6	10	10	16	2,5
	L2	2,5	2,5	1,5	2,5	4	6	10	10	16	2,5
	L3	2,5	2,5	1,5	2,5	4	6	10	10	16	2,5
1,5kW x2	L1	2,5	4	2,5	4	4	6	10	10	16	2,5
	L2	2,5	4	2,5	4	4	6	10	10	16	2,5
	L3	2,5	4	2,5	4	4	6	10	10	16	2,5
1,5kW x3	L1	4	4	2,5	4	6	10	10	10	16	4
	L2	4	4	2,5	4	6	10	10	10	16	4
	L3	4	4	2,5	4	6	10	10	10	16	4
2,4kW x2	L1	4	4	4	4	6	10	10	16	16	4
	L2	4	4	4	4	6	10	10	16	16	4
	L3	4	4	4	4	6	10	10	16	16	4
2,4kW x3	L1	6	6	4	6	10	10	16	16	16	6
	L2	6	6	4	6	10	10	16	16	16	6
	L3	6	6	4	6	10	10	16	16	16	6
2,4kW x4	L1	6	10	6	10	10	10	16	16	25	6
	L2	6	10	6	10	10	10	16	16	25	6
	L3	6	10	6	10	10	10	16	16	25	6
2,4kW x5	L1	10	10	10	10	10	16	16	16	25	10
	L2	10	10	10	10	10	16	16	16	25	10
	L3	10	10	10	10	10	16	16	16	25	10
2,4kW x6	L1	10	10	10	10	16	16	16	25	25	16
	L2	10	10	10	10	16	16	16	25	25	16
	L3	10	10	10	10	16	16	16	25	25	10
2,4kW x7	L1	16	16	10	16	16	16	25	25	35	16
	L2	16	16	10	16	16	16	25	25	35	16
	L3	16	16	10	16	16	16	25	25	35	16

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		2.7kW x1	2.7kW x2	3.3kW x1	3.3kW x2	3.3kW x3	3.3kW x4	3.3kW x5	3.3kW x6	3.3kW x8	5.25kW x1
↓ Wywiew											
2.4kW x8	L1	16	16	16	16	16	25	25	25	35	16
	L2	16	16	16	16	16	25	25	25	35	16
	L3	16	16	16	16	16	25	25	25	35	16
2.7kW x1	L1	2,5	2,5	2,5	4	4	6	10	10	16	2,5
	L2	2,5	2,5	2,5	4	4	6	10	10	16	2,5
	L3	2,5	2,5	2,5	4	4	6	10	10	16	2,5
2.7kW x2	L1	4	4	2,5	4	6	6	10	10	16	4
	L2	4	4	2,5	4	6	6	10	10	16	4
	L3	4	4	2,5	4	6	6	10	10	16	4
3.3kW x1	L1	2,5	2,5	2,5	4	4	6	10	10	16	2,5
	L2	2,5	2,5	2,5	4	4	6	10	10	16	2,5
	L3	2,5	2,5	2,5	4	4	6	10	10	16	2,5
3.3kW x2	L1	4	4	4	4	6	10	10	10	16	4
	L2	4	4	4	4	6	10	10	10	16	4
	L3	4	4	4	4	6	10	10	10	16	4
3.3kW x3	L1	4	6	4	6	10	10	10	16	16	6
	L2	4	6	4	6	10	10	10	16	16	6
	L3	4	6	4	6	10	10	10	16	16	6
3.3kW x4	L1	6	10	6	10	10	10	16	16	25	6
	L2	6	10	6	10	10	10	16	16	25	6
	L3	6	10	6	10	10	10	16	16	25	6
3.3kW x5	L1	10	10	10	10	10	16	16	16	25	10
	L2	10	10	10	10	10	16	16	16	25	10
	L3	10	10	10	10	10	16	16	16	25	10
3.3kW x6	L1	10	10	10	10	16	16	16	25	25	10
	L2	10	10	10	10	16	16	16	25	25	10
	L3	10	10	10	10	16	16	16	25	25	10
3.3kW x8	L1	16	16	16	16	16	25	25	25	35	16
	L2	16	16	16	16	16	25	25	25	35	16
	L3	16	16	16	16	16	25	25	25	35	16
5.25kW x1	L1	2,5	4	2,5	4	6	6	10	10	16	4
	L2	2,5	4	2,5	4	6	6	10	10	16	4
	L3	2,5	4	2,5	4	6	6	10	10	16	4

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		2.7kW x1	2.7kW x2	3.3kW x1	3.3kW x2	3.3kW x3	3.3kW x4	3.3kW x5	3.3kW x6	3.3kW x8	5.25kW x1
↓ Wywiew											
5.25kW x2	L1	6	6	4	6	10	10	10	16	16	6
	L2	6	6	4	6	10	10	10	16	16	6
	L3	6	6	4	6	10	10	10	16	16	6
5.25kW x3	L1	10	10	10	10	10	16	16	16	25	10
	L2	10	10	10	10	10	16	16	16	25	10
	L3	10	10	10	10	10	16	16	16	25	10
5.25kW x4	L1	10	10	10	16	16	16	16	25	25	10
	L2	10	10	10	16	16	16	16	25	25	10
	L3	10	10	10	16	16	16	16	25	25	10
5.25kW x5	L1	16	16	16	16	16	25	25	25	35	16
	L2	16	16	16	16	16	25	25	25	35	16
	L3	16	16	16	16	16	25	25	25	35	16
5.25kW x6	L1	16	25	16	16	25	25	25	35	35	16
	L2	16	25	16	16	25	25	25	35	35	16
	L3	16	25	16	16	25	25	25	35	35	16
5.25kW x8	L1	25	25	25	25	35	35	35	35	50	25
	L2	25	25	25	25	35	35	35	35	50	25
	L3	25	25	25	25	35	35	35	35	50	25

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		5.25kW x2	5.25kW x3	5.25kW x4	5.25kW x5	5.25kW x6	5.25kW x8
↓ Wywiew							
	L1	4	6	10	10	16	25
	L2	4	6	10	10	16	25
	L3	4	6	10	10	16	25
1.2kW x1	L1	4	6	10	16	16	25
	L2	4	6	10	16	16	25
	L3	4	6	10	16	16	25
1,5kW x1	L1	4	6	10	16	16	25
	L2	4	6	10	16	16	25
	L3	4	6	10	16	16	25
1,5kW x2	L1	6	10	10	16	16	25
	L2	6	10	10	16	16	25
	L3	6	10	10	16	16	25
1,5kW x3	L1	6	10	10	16	16	25
	L2	6	10	10	16	16	25
	L3	6	10	10	16	16	25
2,4kW x2	L1	6	10	16	16	25	25
	L2	6	10	16	16	25	25
	L3	6	10	16	16	25	25
2,4kW x3	L1	10	10	16	16	25	35
	L2	10	10	16	16	25	35
	L3	10	10	16	16	25	35
2,4kW x4	L1	10	16	16	25	25	35
	L2	10	16	16	25	25	35
	L3	10	16	16	25	25	35
2,4kW x5	L1	10	16	16	25	25	35
	L2	10	16	16	25	25	35
	L3	10	16	16	25	25	35
2,4kW x6	L1	16	16	25	25	35	35
	L2	16	16	25	25	35	35
	L3	16	16	25	25	35	35
2,4kW x7	L1	16	25	25	35	35	50
	L2	16	25	25	35	35	50
	L3	16	25	25	35	35	50

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

Nawiew →		5.25kW x2	5.25kW x3	5.25kW x4	5.25kW x5	5.25kW x6	5.25kW x8
↓ Wywiew							
2,4kW x8	L1	16	25	25	35	35	50
	L2	16	25	25	35	35	50
	L3	16	25	25	35	35	50
2.7kW x1	L1	4	6	10	16	16	25
	L2	4	6	10	16	16	25
	L3	4	6	10	16	16	25
2.7kW x2	L1	6	10	10	16	16	25
	L2	6	10	10	16	16	25
	L3	6	10	10	16	16	25
3.3kW x1	L1	4	10	10	16	16	25
	L2	4	10	10	16	16	25
	L3	4	10	10	16	16	25
3.3kW x2	L1	6	10	16	16	16	25
	L2	6	10	16	16	16	25
	L3	6	10	16	16	16	25
3.3kW x3	L1	10	10	16	16	25	35
	L2	10	10	16	16	25	35
	L3	10	10	16	16	25	35
3.3kW x4	L1	10	16	16	25	25	35
	L2	10	16	16	25	25	35
	L3	10	16	16	25	25	35
3.3kW x5	L1	10	16	16	25	25	35
	L2	10	16	16	25	25	35
	L3	10	16	16	25	25	35
3.3kW x6	L1	16	16	25	25	35	35
	L2	16	16	25	25	35	35
	L3	16	16	25	25	35	35
3.3kW x8	L1	16	25	25	35	35	50
	L2	16	25	25	35	35	50
	L3	16	25	25	35	35	50
5.25kW x1	L1	6	10	10	16	16	25
	L2	6	10	10	16	16	25
	L3	6	10	10	16	16	25

The minimum cross-sectional areas [mm²] of electrical wires powering CG UPC distribution boards.

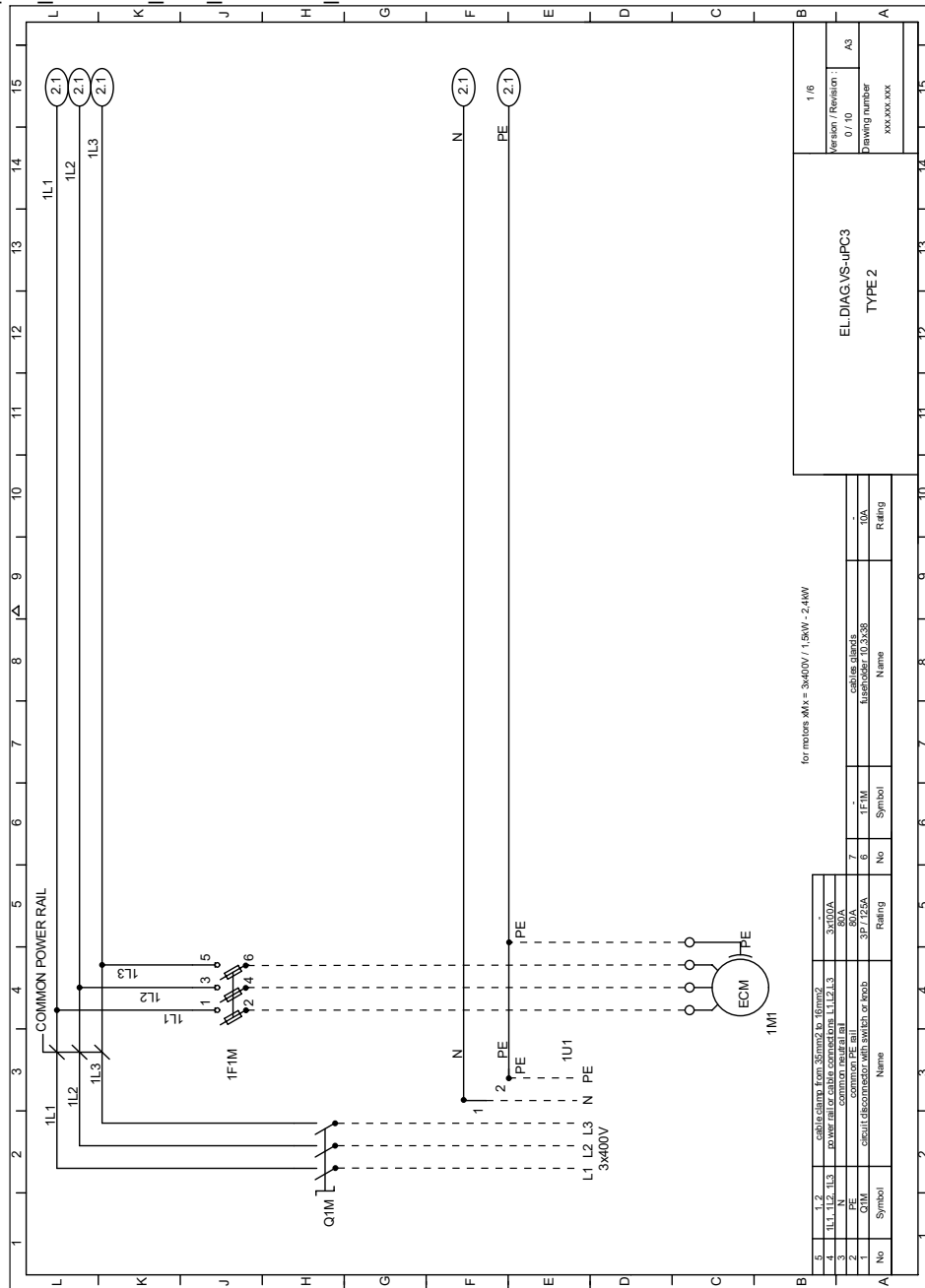
Nawiew →		5.25kW x2	5.25kW x3	5.25kW x4	5.25kW x5	5.25kW x6	5.25kW x8
↓ Wywiew							
5.25kW x2	L1	10	10	16	16	25	35
	L2	10	10	16	16	25	35
	L3	10	10	16	16	25	35
5.25kW x3	L1	10	16	16	25	25	35
	L2	10	16	16	25	25	35
	L3	10	16	16	25	25	35
5.25kW x4	L1	16	16	25	25	35	35
	L2	16	16	25	25	35	35
	L3	16	16	25	25	35	35
5.25kW x5	L1	16	25	25	35	35	50
	L2	16	25	25	35	35	50
	L3	16	25	25	35	35	50
5.25kW x6	L1	25	25	35	35	50	50
	L2	25	25	35	35	50	50
	L3	25	25	35	35	50	50
5.25kW x8	L1	35	35	35	50	50	70
	L2	35	35	35	50	50	70
	L3	35	35	35	50	50	70

4 DIAGRAMS FOR CG WITH: 1.5KW OR 2.4KW

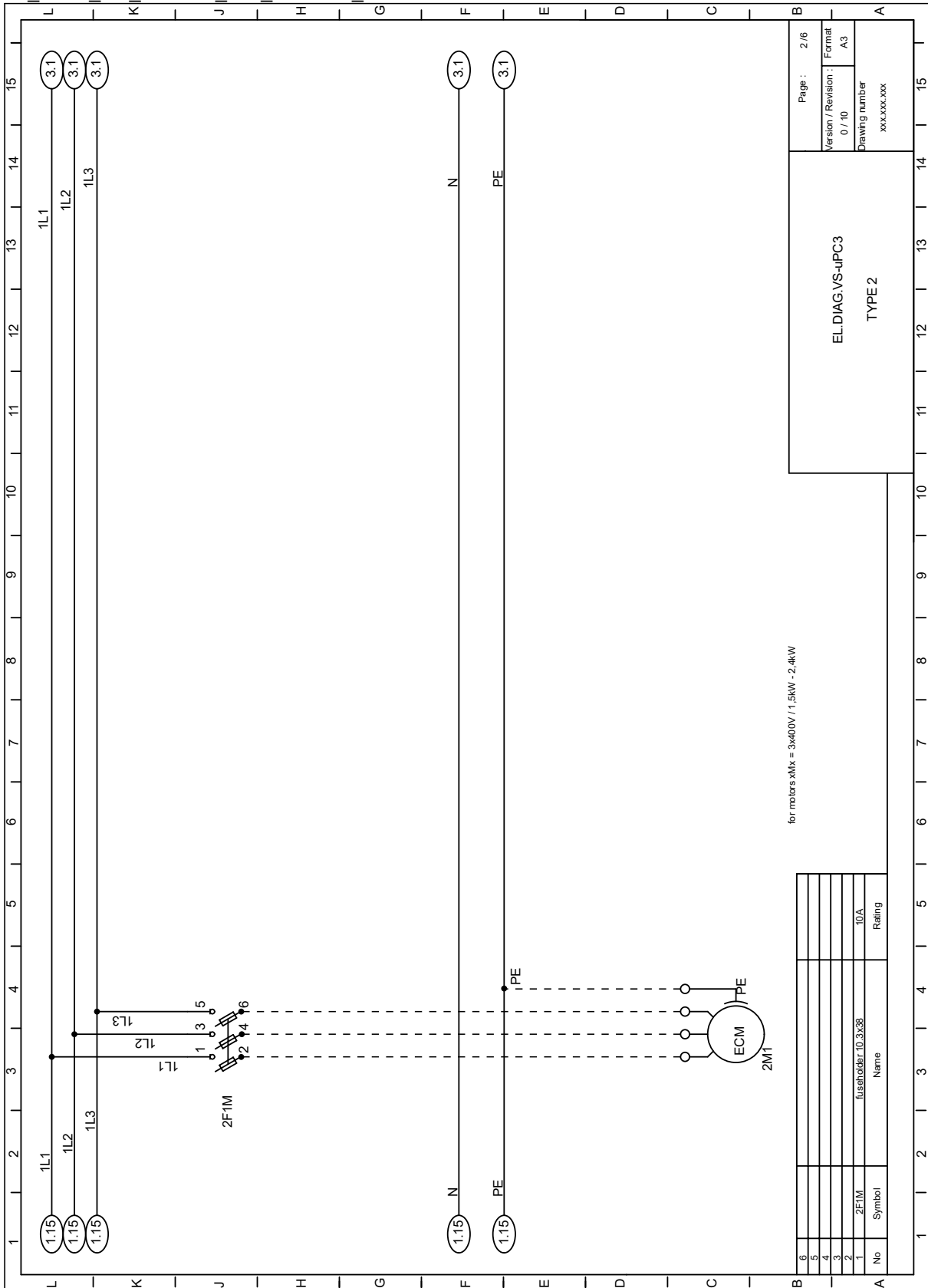
4.1 CONNECTION DIAGRAMS FOR SUPPLY-EXHAUST UNITS.

4.1.1 VVS030-VVS040- 2.4kW x 1, 1.5kW x 1

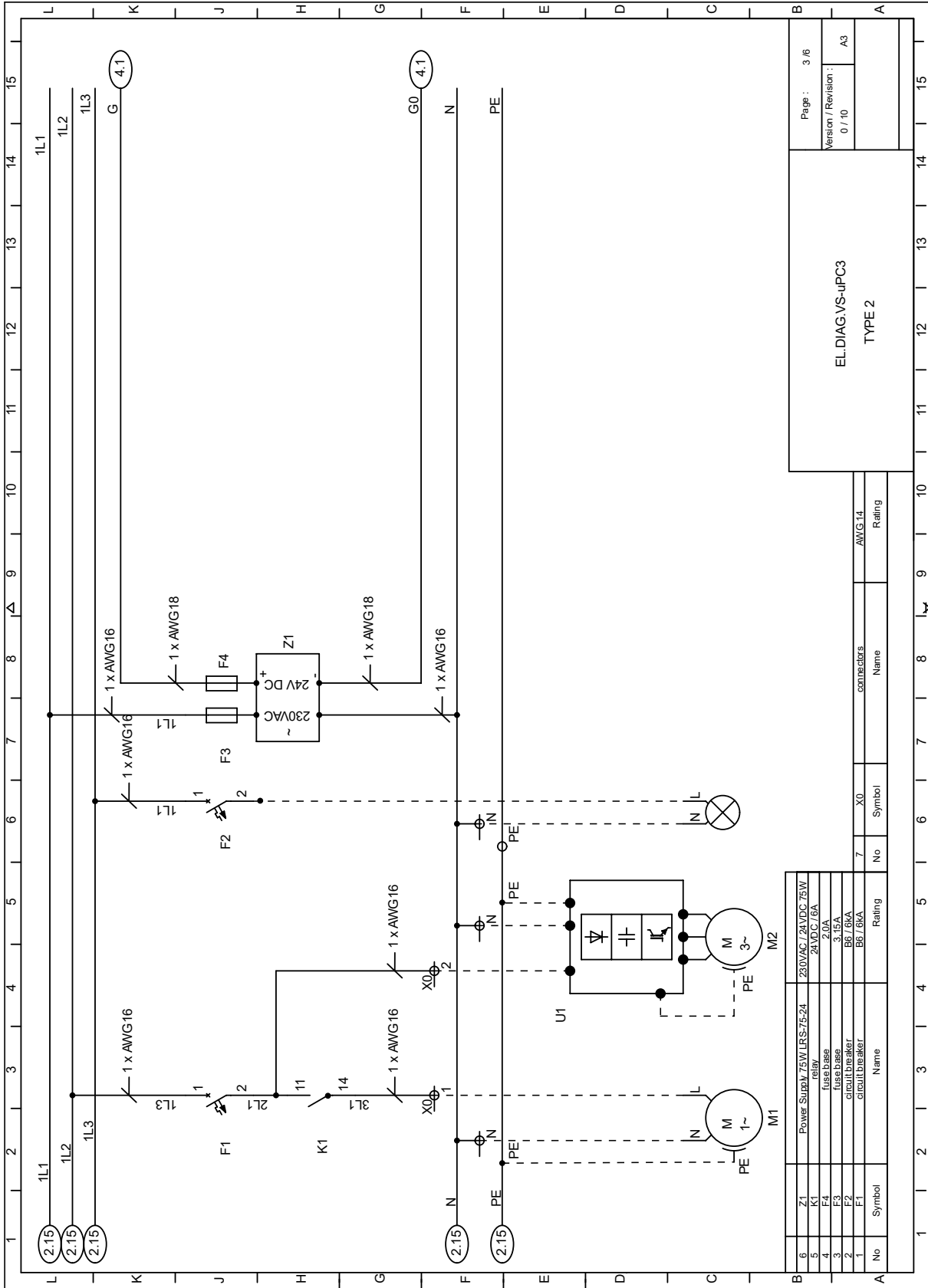
EL_DIAG_EC_VVS030_040_2.4kWx1_1/6



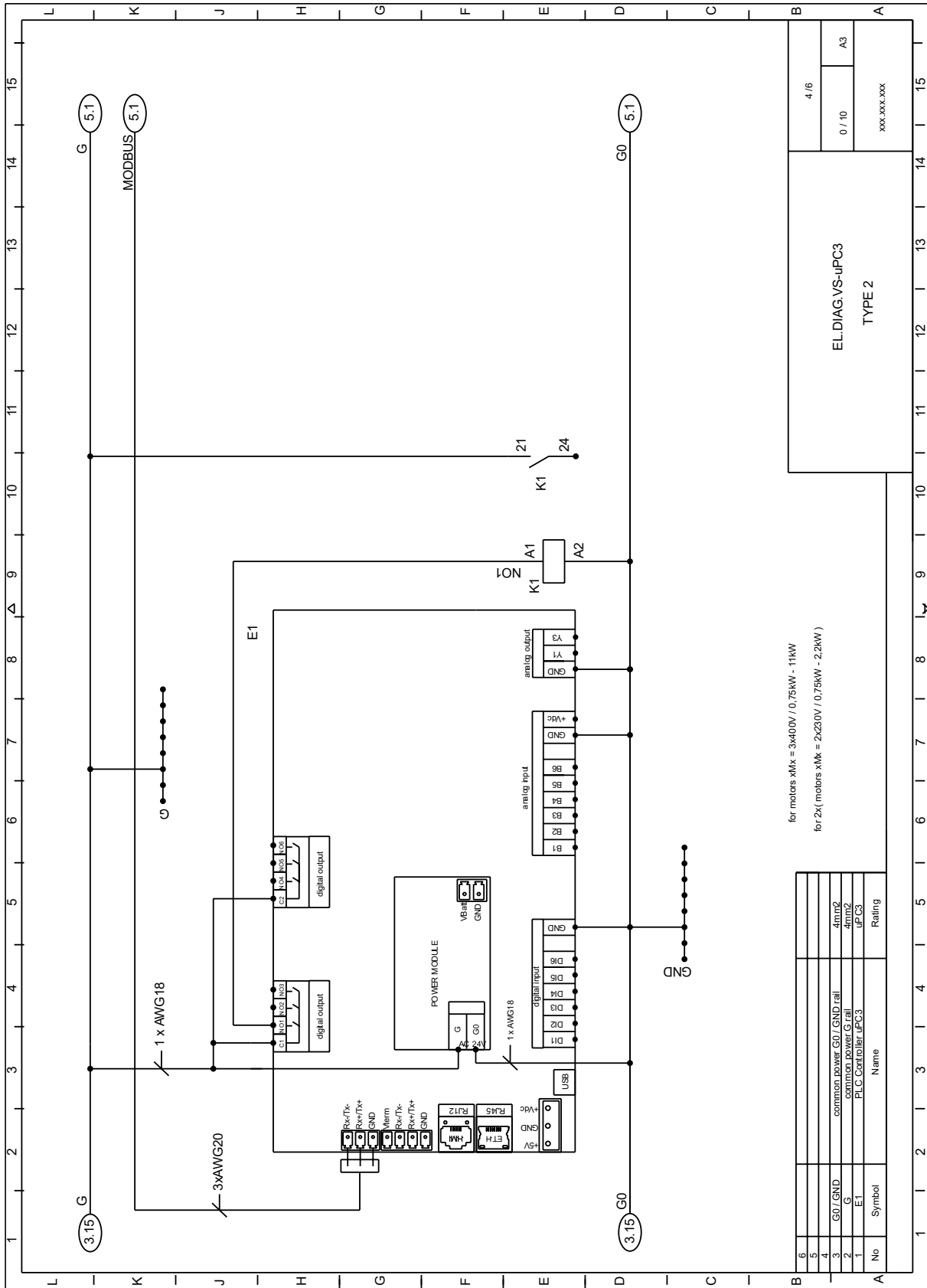
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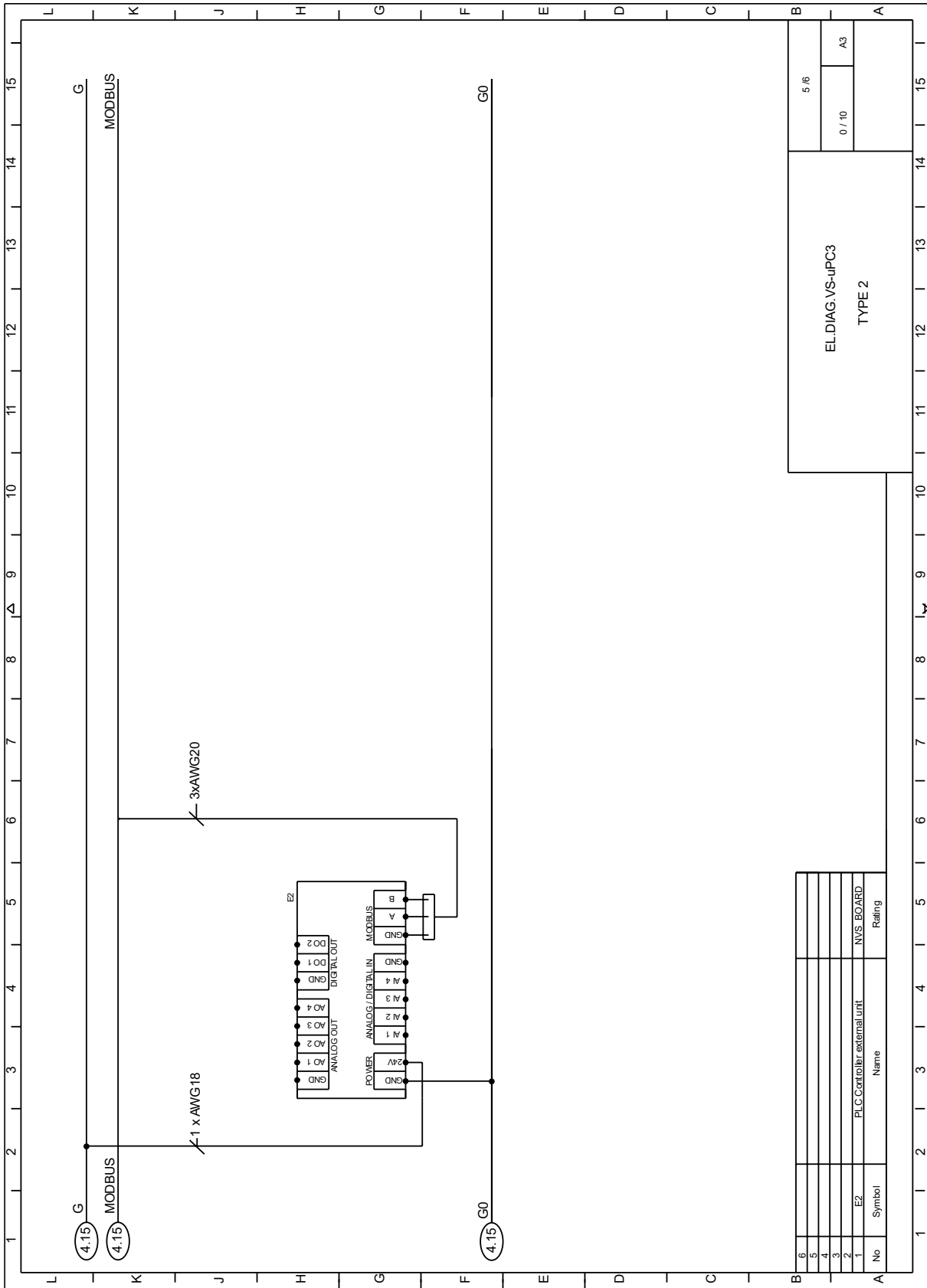
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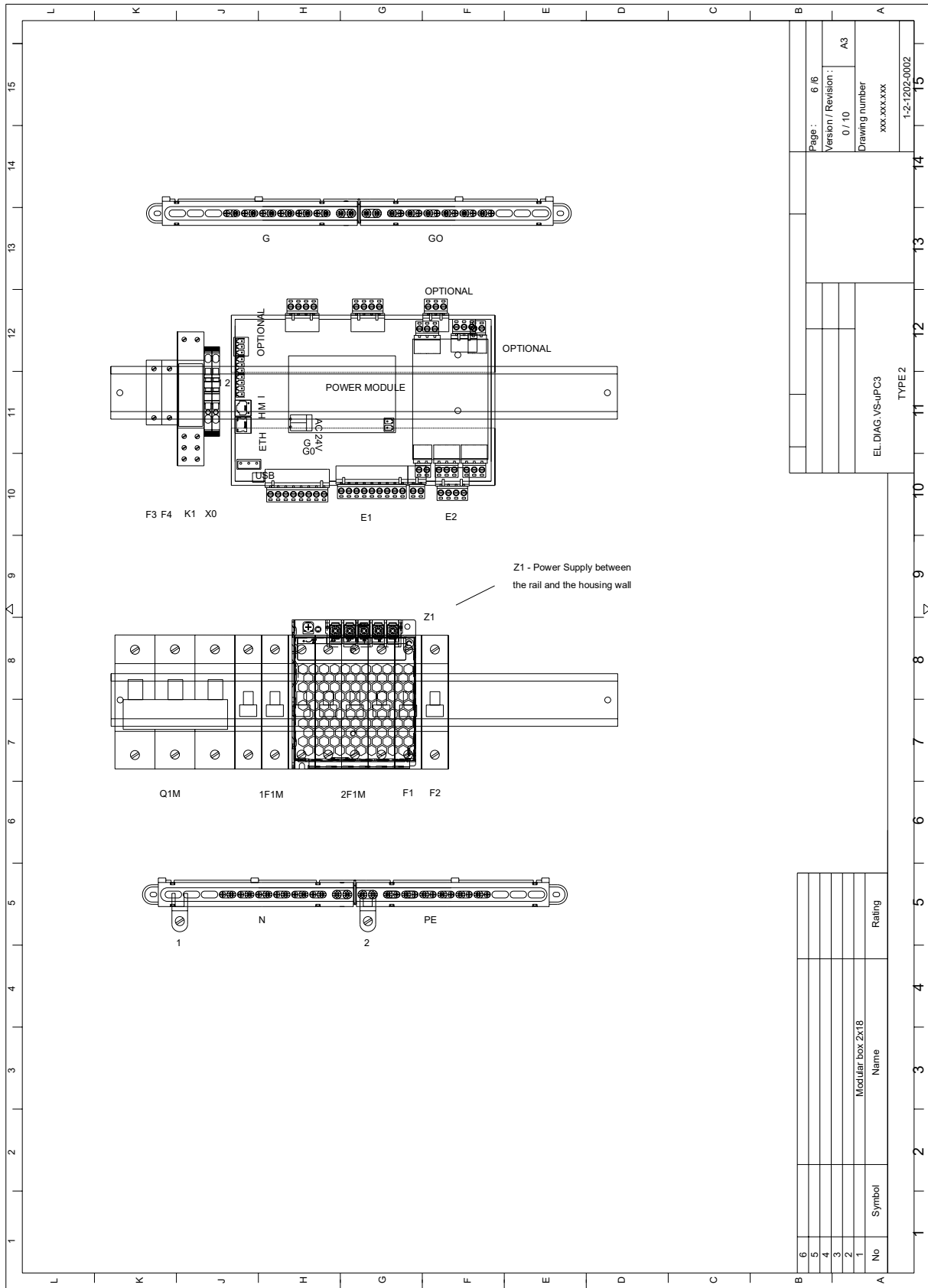
EL_DIAG_EC_VVS030_040_2.4kWx1_4/6



EL_DIAG_EC_VVS030_040_2.4kWx1_5/6



EL_DIAG_EC_VVS030_040_2.4kWx1_6/6



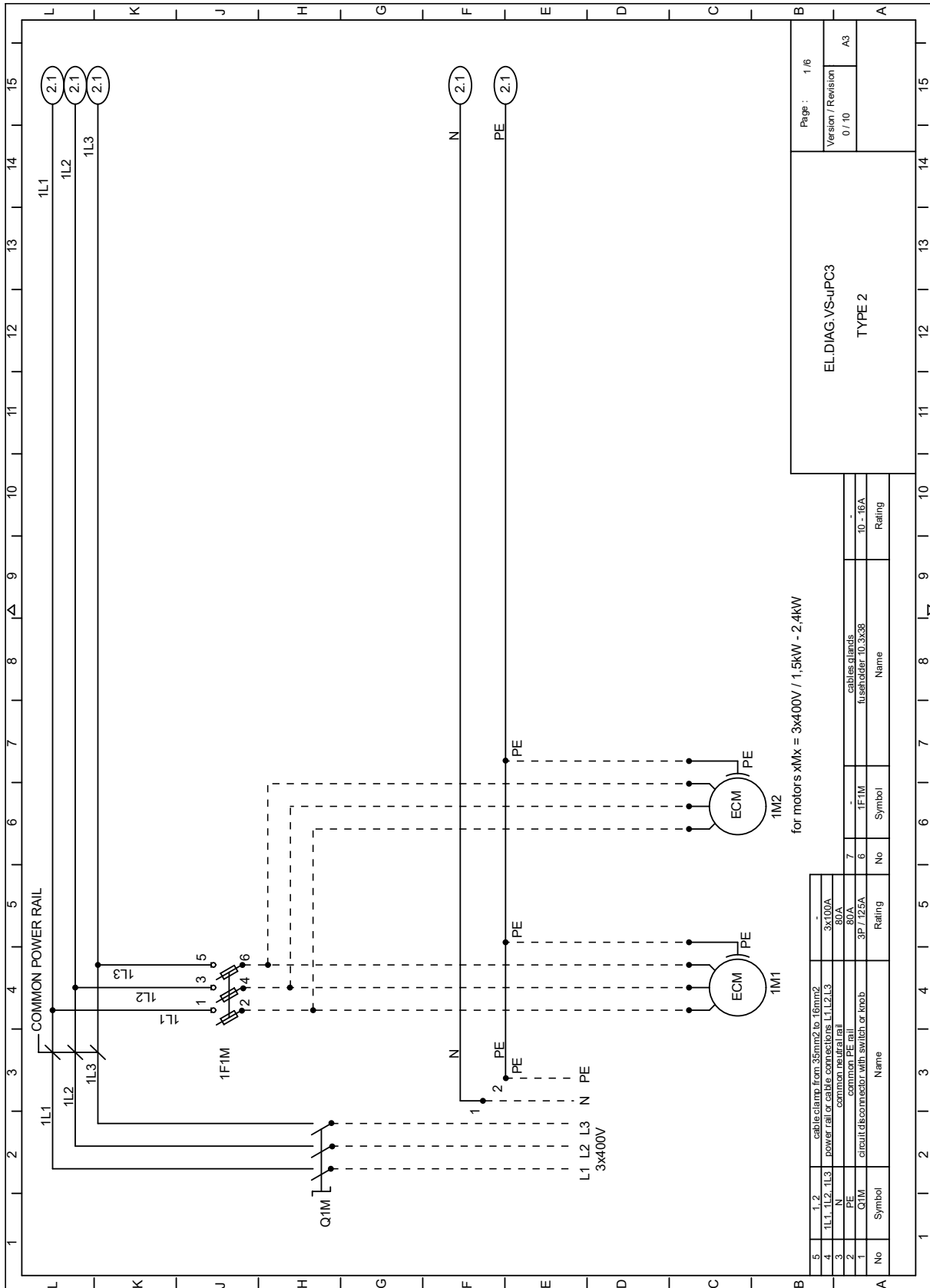
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Version / Revision :	0 / 10
Drawing number	xxx.xxx.xxx
1-2-1202-0002	

EL DIAG VS-UPC3	
TYPE 2	

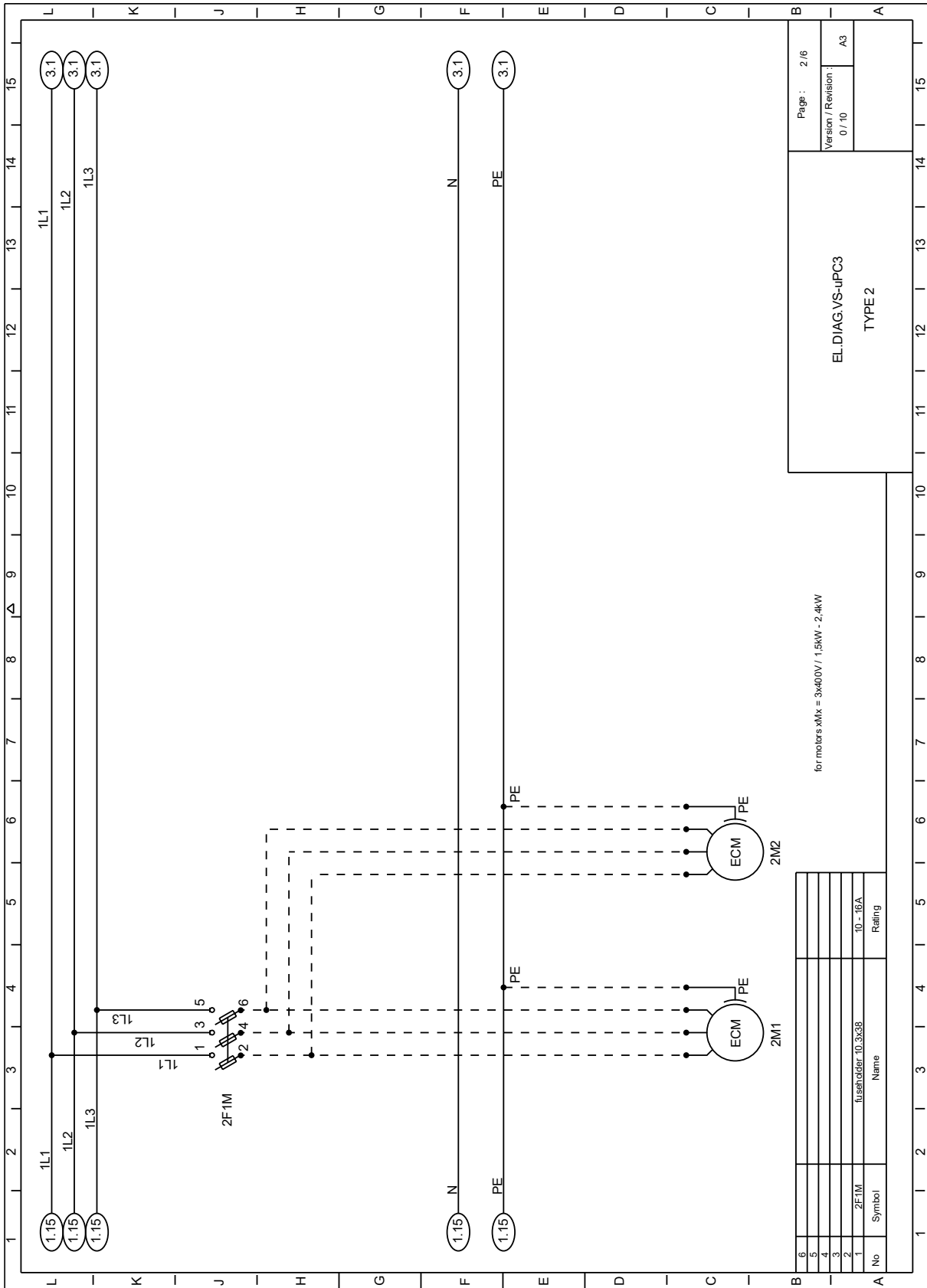
No	Symbol	Name	Rating
6			
5			
4			
3			
2			
1		Modular box 2x18	

4.1.2 VVS055-VVS120- 2.4kW x2

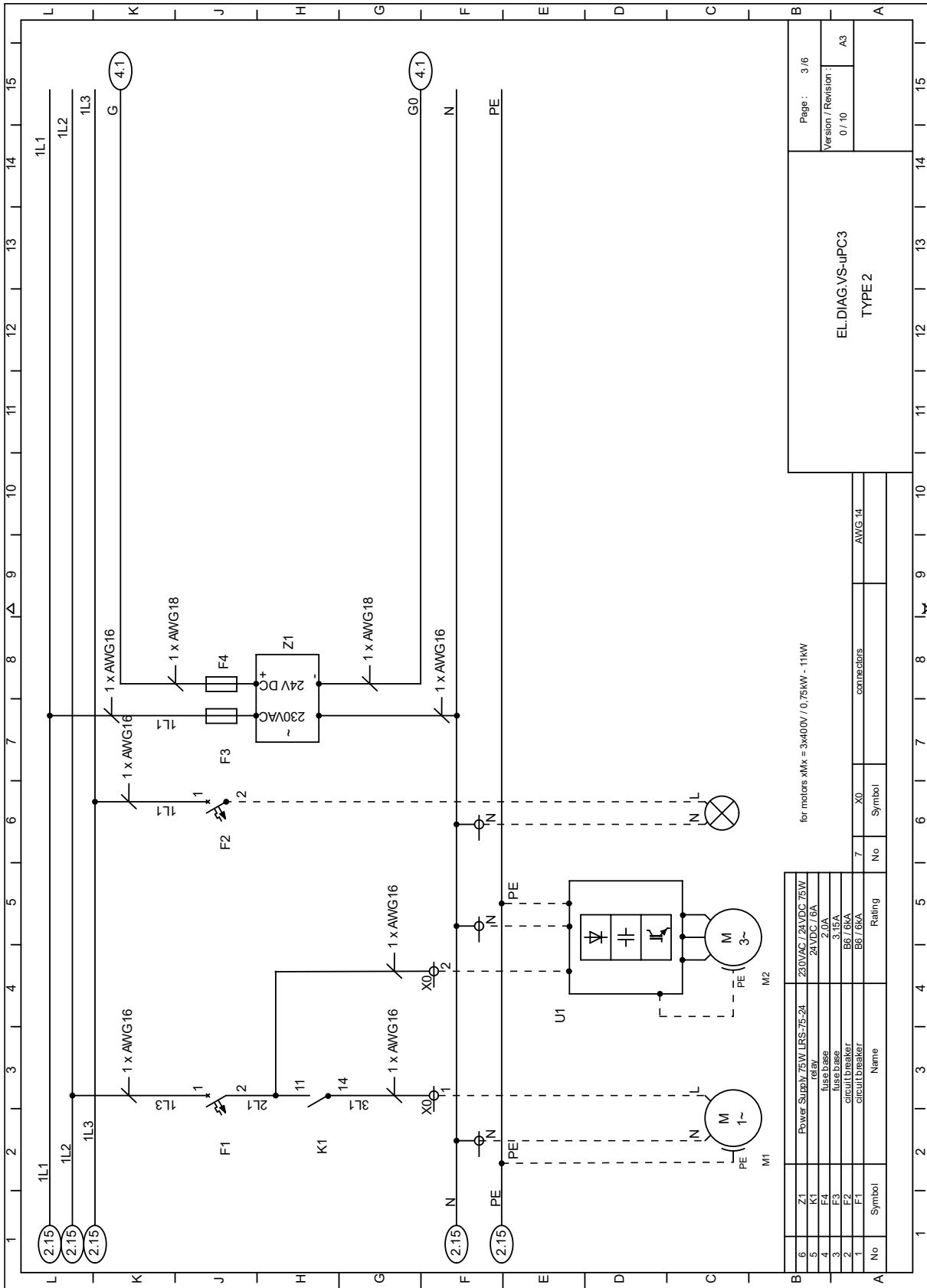
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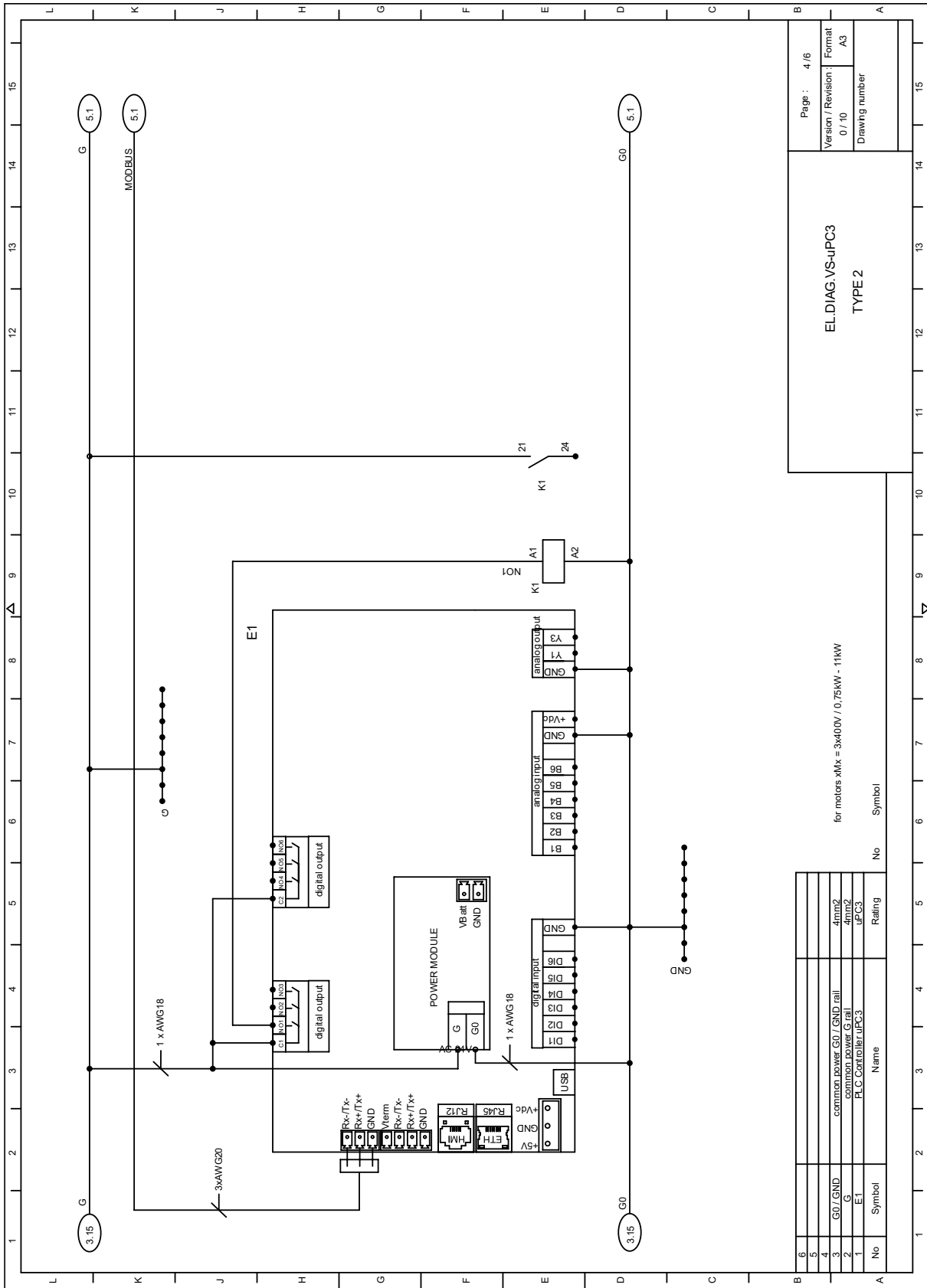
EL_DIAG_EC_VVS055-VVS120-2.4kWx2_2/6



EL_DIAG_EC_VVS055-VVS120-2.4kWx2_3/6



EL_DIAG_EC_VVS055-VVS120-2.4kWx2_4/6



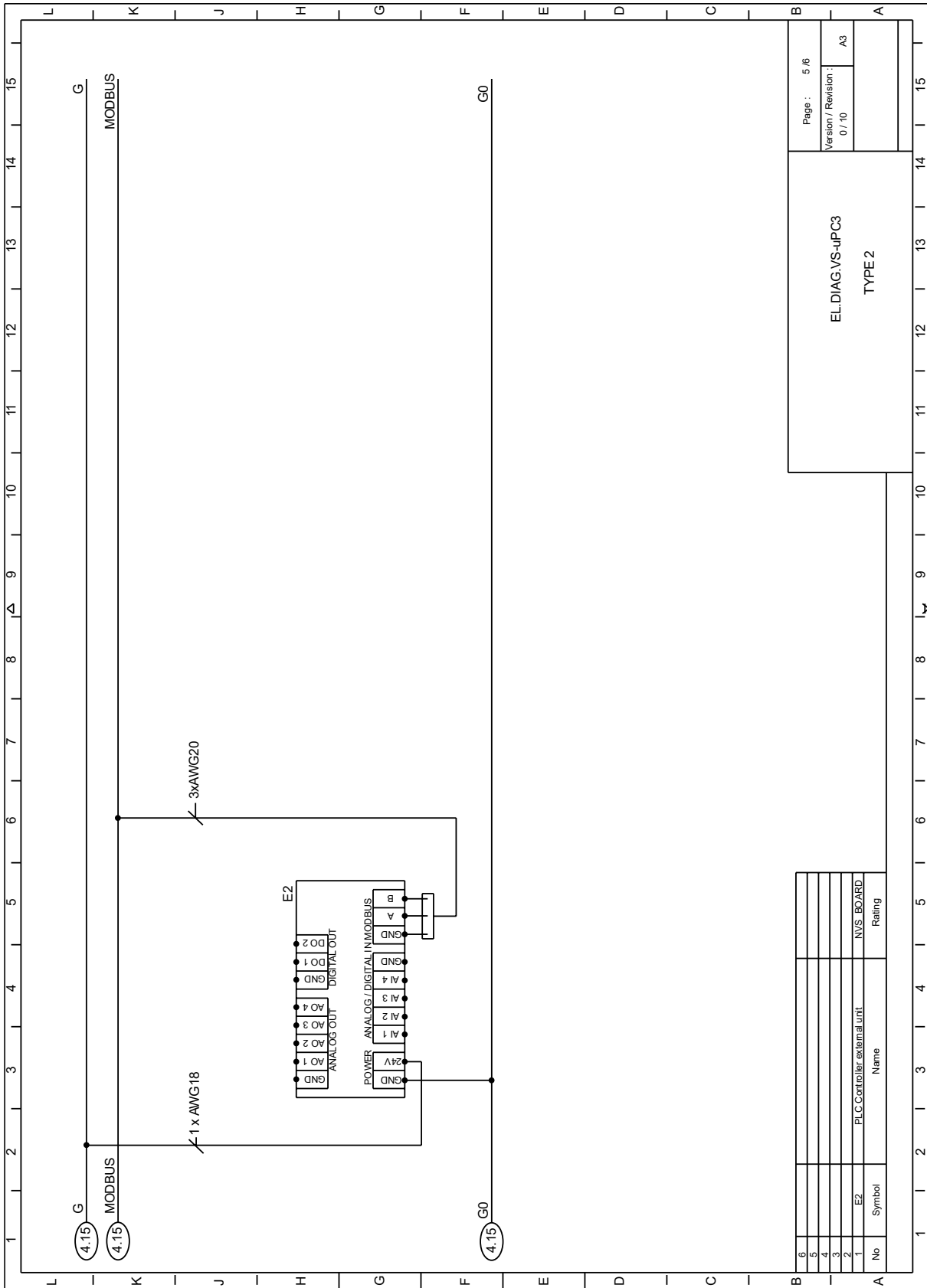
Page : 4/6	
Version / Revision	Format
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Drawing number	

EL DIAG VVS-uPC3
TYPE 2

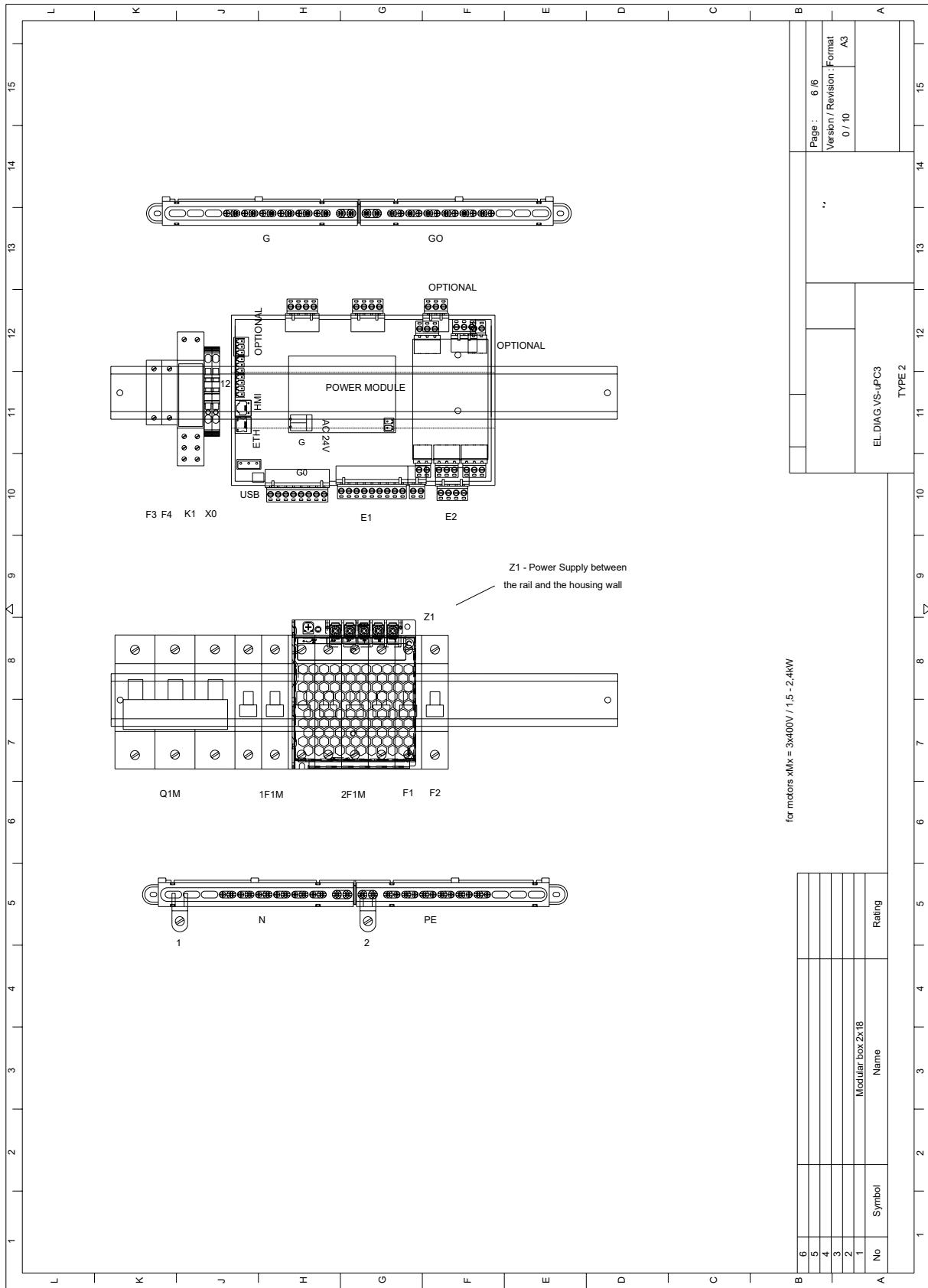
for motors mIx = 3x400V / 0,75kW - 11kW

No	Symbol	Name	Rating	No	Symbol
4		common power G0 / GND rail	4mm ²		
3		common power G rail	4mm ²		
2		common power G rail	4mm ²		
1		PLC Controller uPC3	uPC3		

EL_DIAG_EC_VVS055-VVS120-2.4kWx2_5/6



EL_DIAG_EC_VVS055-VVS120-2.4kWx2_6/6

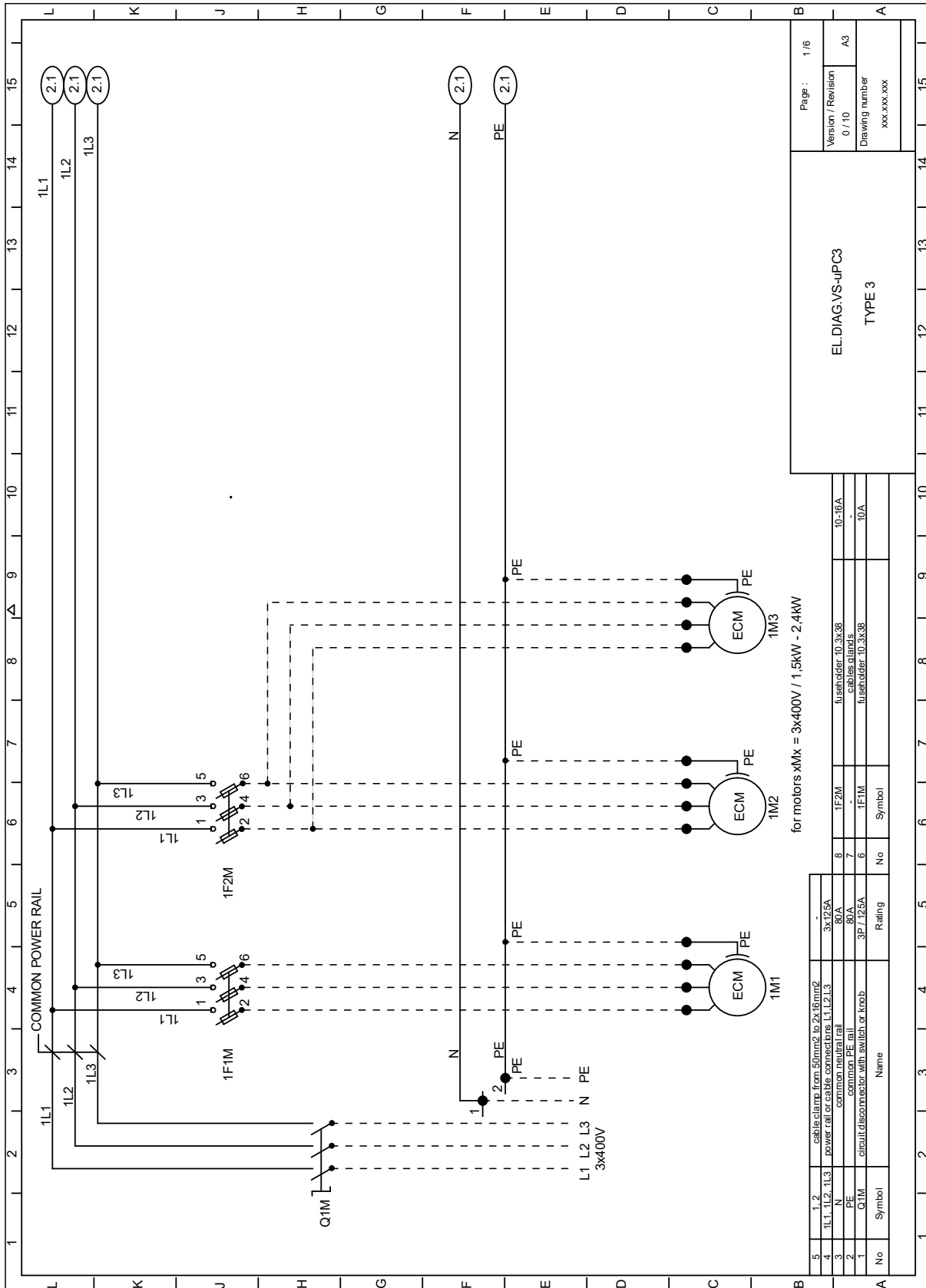


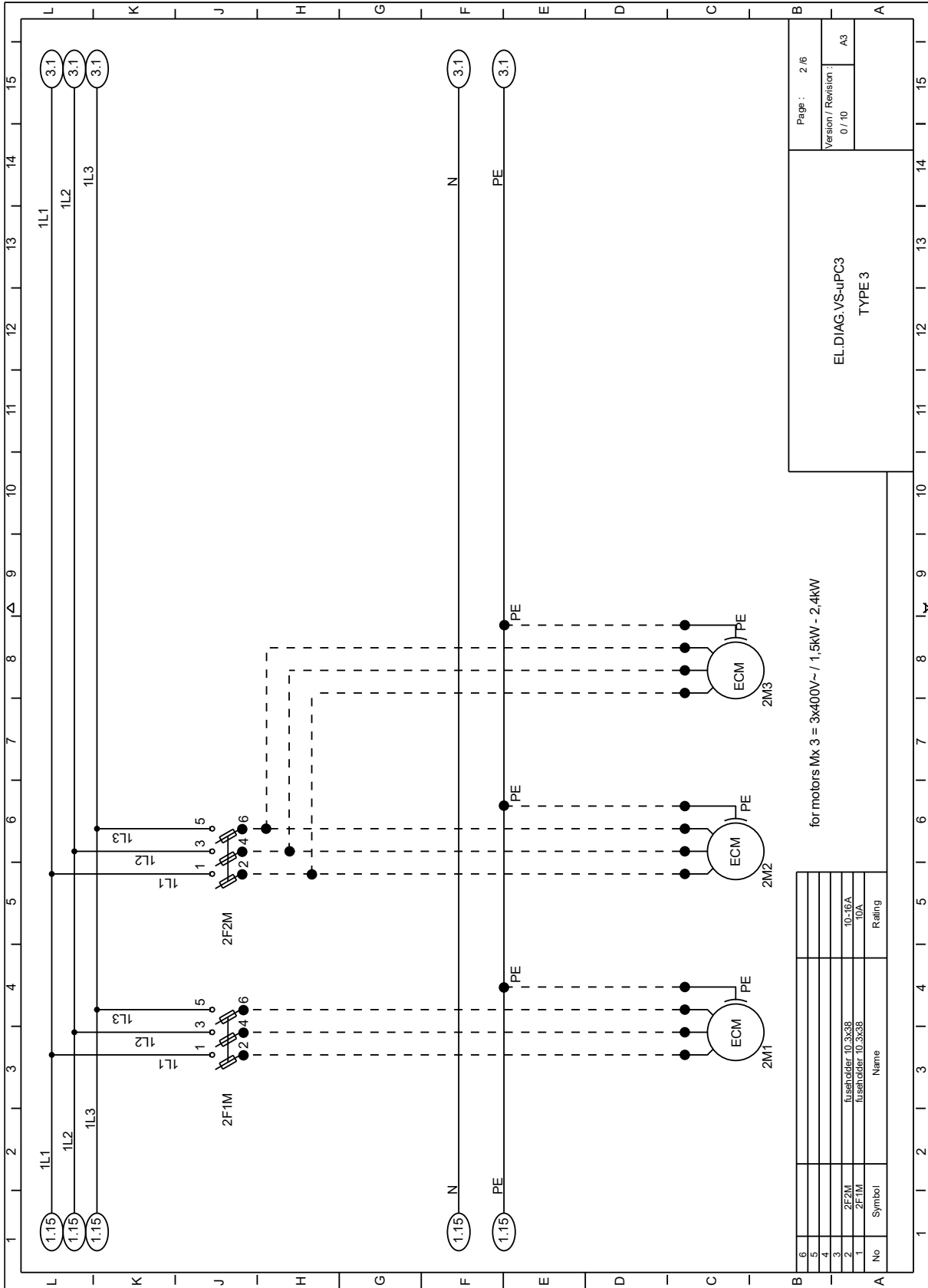
for motors x1/x2 = 3x400V / 1.5 - 2.4kW

6	5	4	3	2	1	No	Symbol	Name	Rating
EL DIAG VS-IPC3									
TYPE 2									
Page : 6 / 6									
Version / Revision : Format A3									
0 / 10									

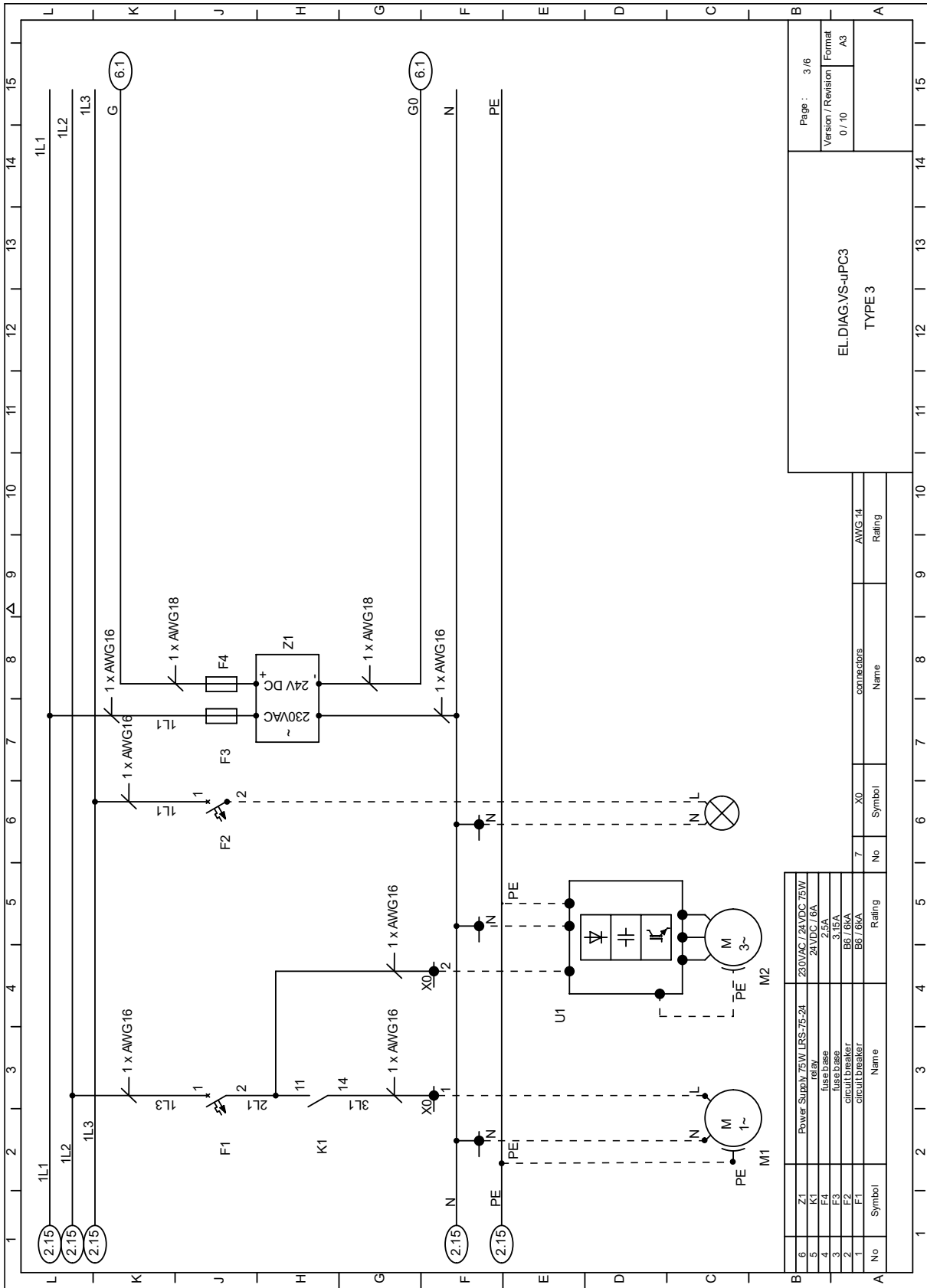
4.1.3 EC VVS075-VVS150- 2.4kW x3

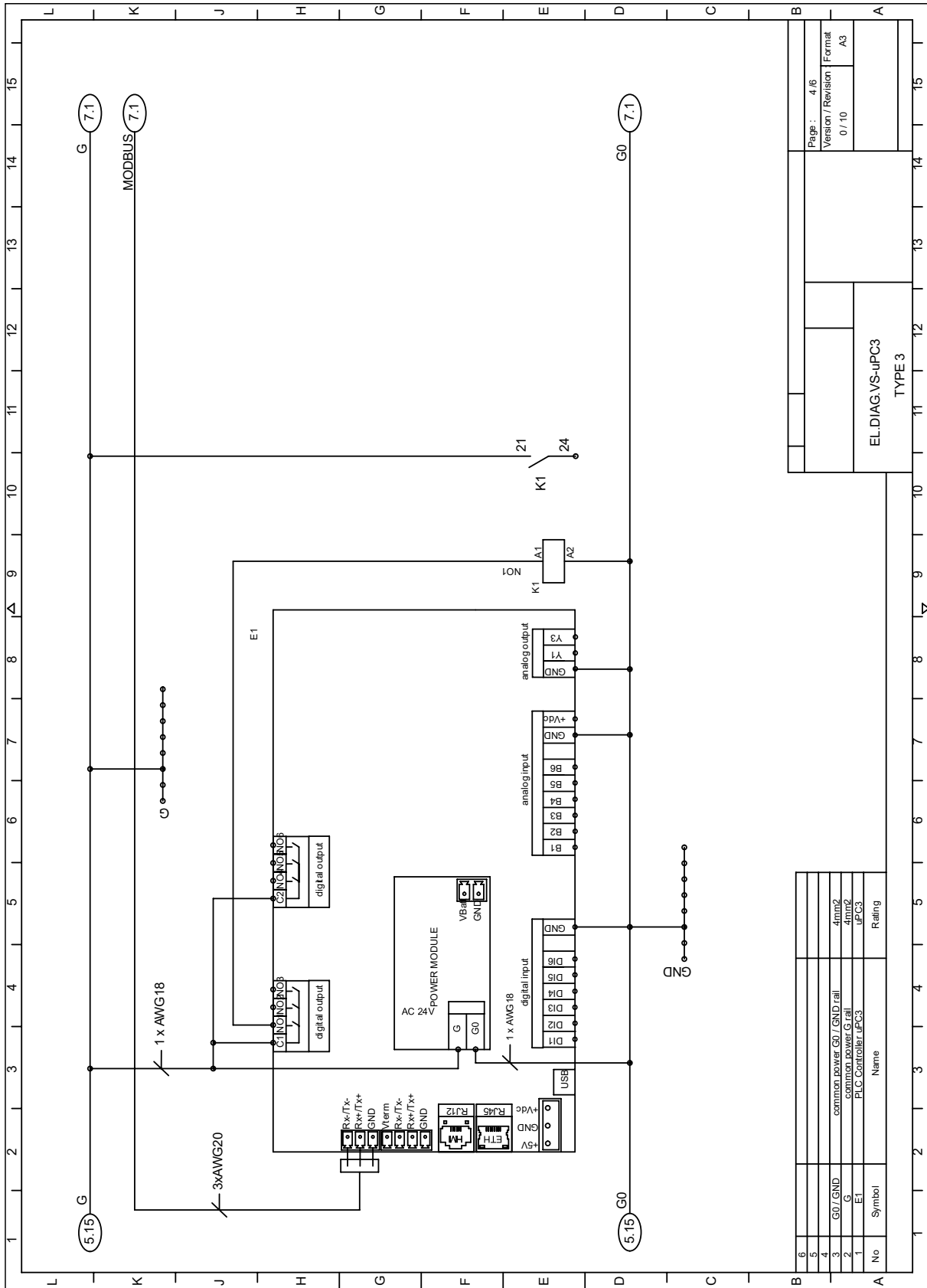
EL_DIAG_EC_VVS075-VVS150-2.4kWx3_1/6



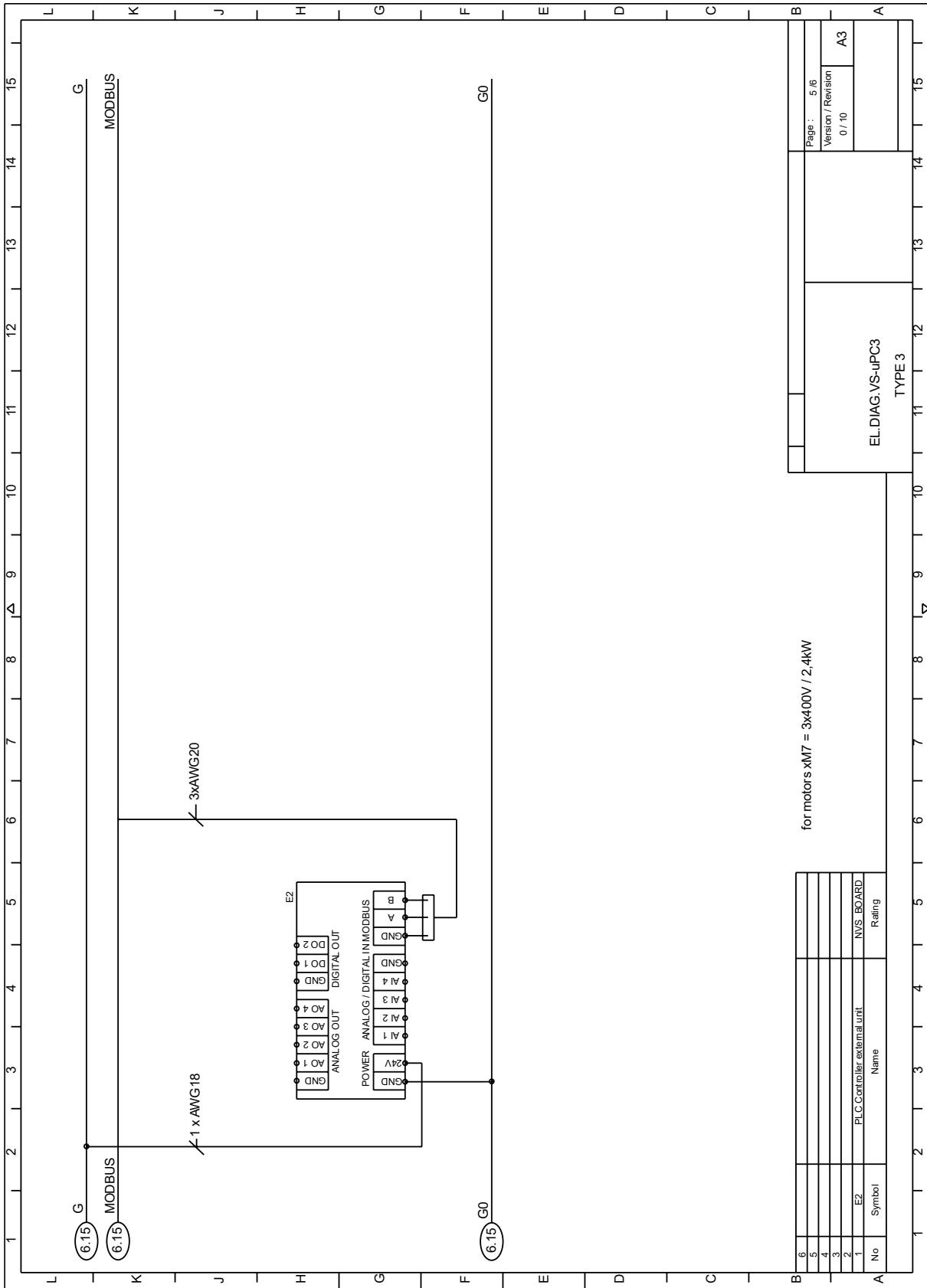


EL_DIAG_EC_VVS075-VVS150-2.4kWx3_3/6

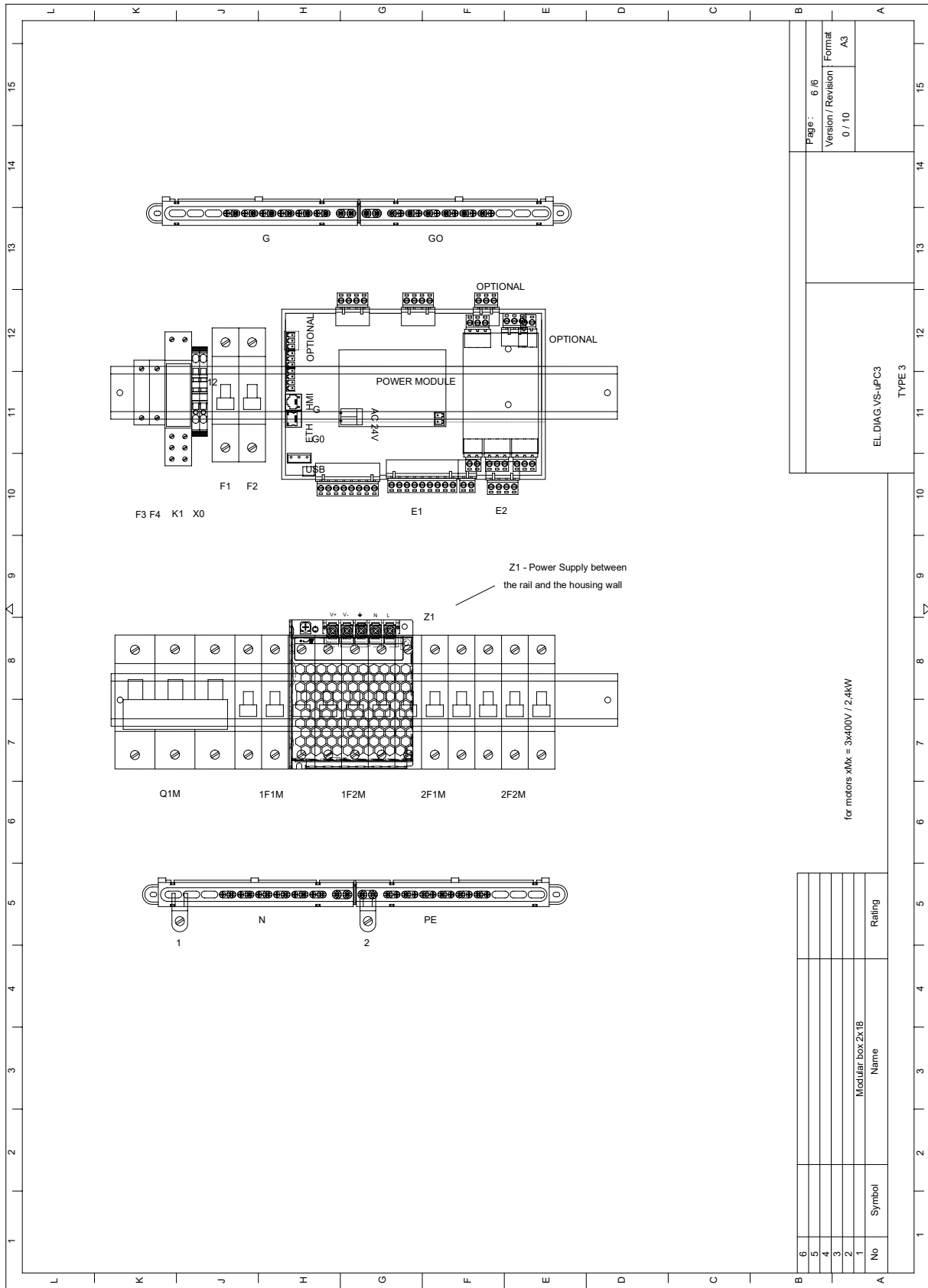




EL_DIAG_EC_VVS075-VVS150-2.4kWx3_5/6



EL_DIAG_EC_VVS075-VVS150-2.4kWx3_6/6



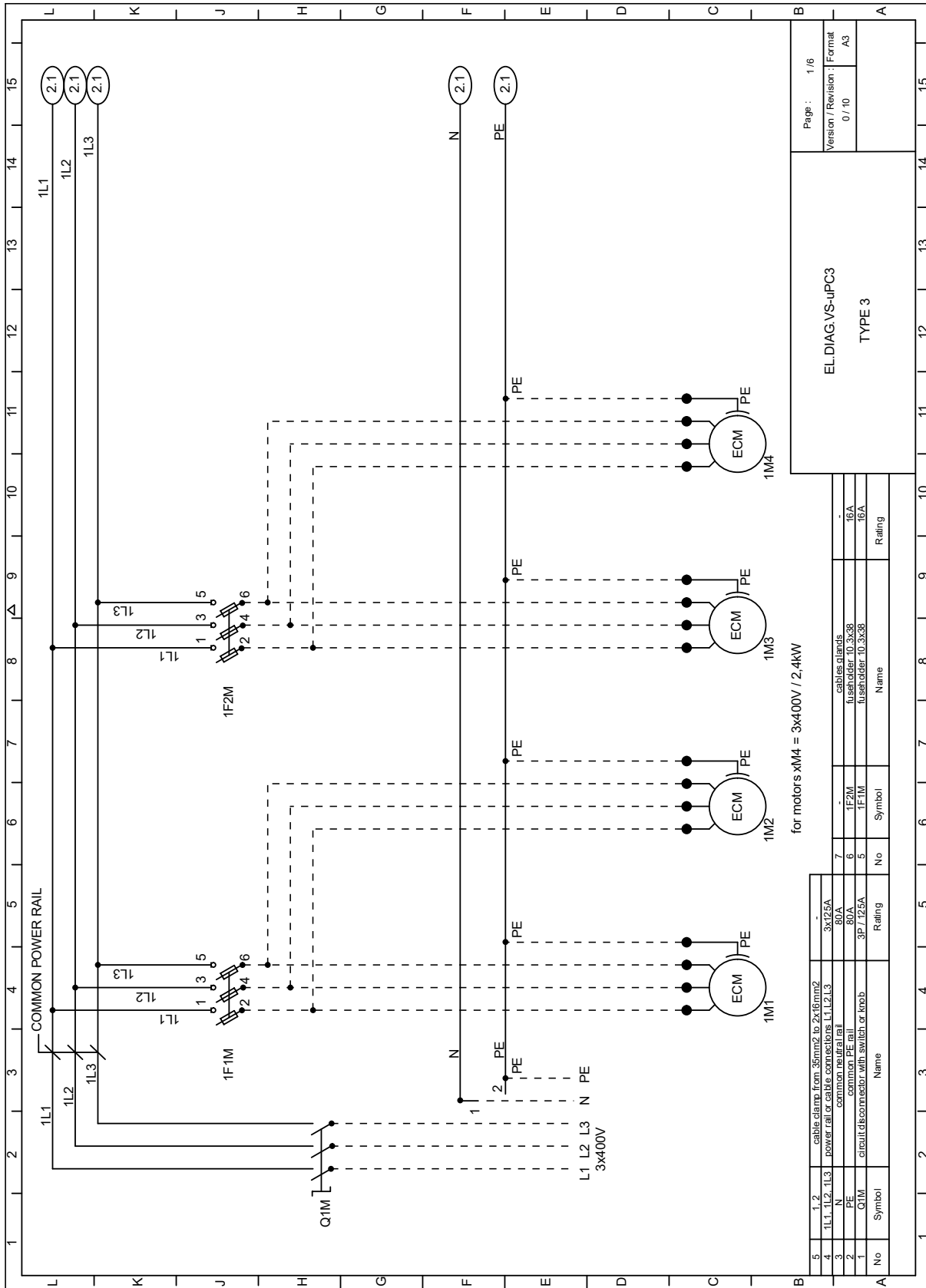
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EL DIAG VS-IPC3 TYPE 3		

for motors xMx = 3x400V / 2,4kW

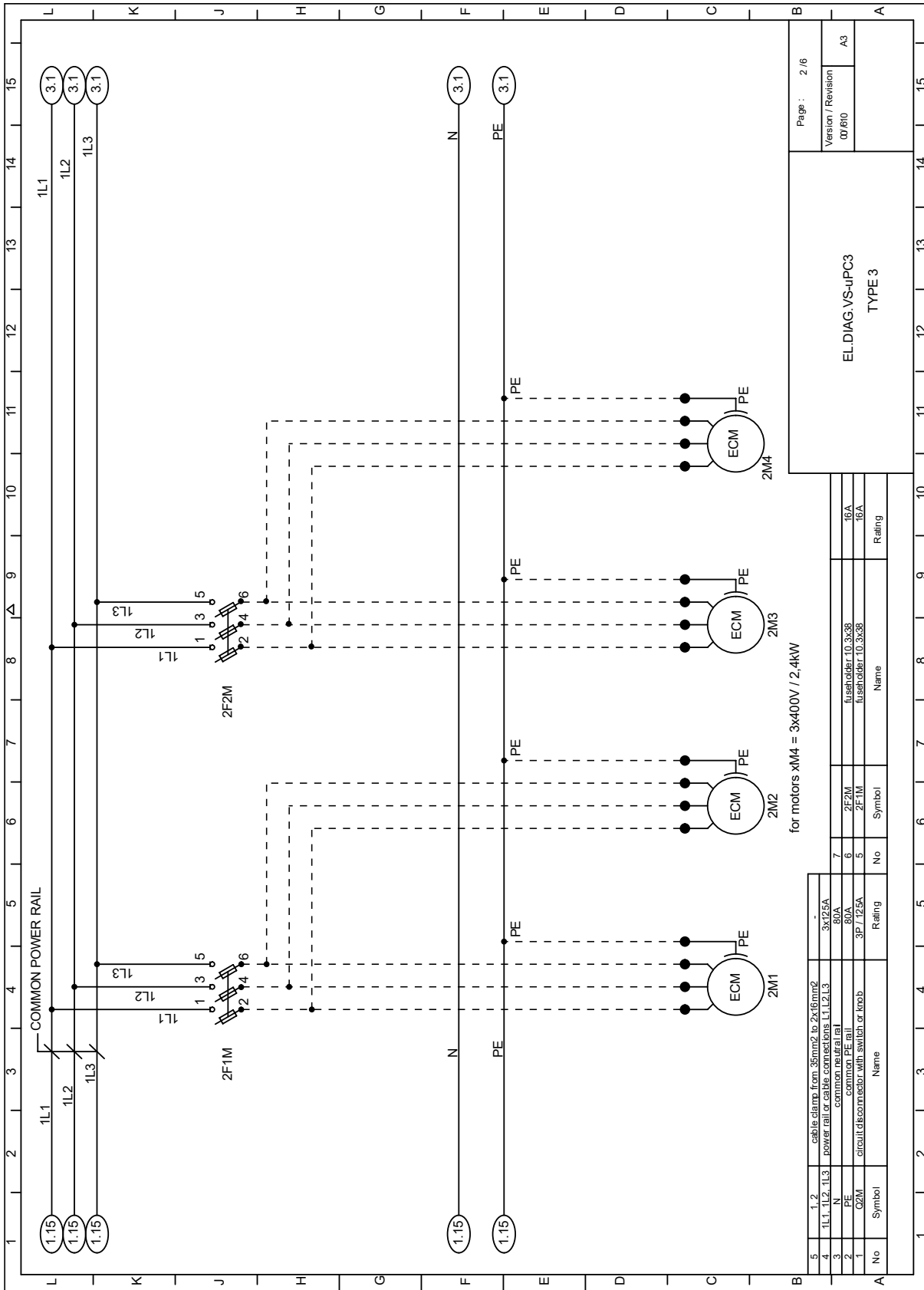
No	Symbol	Name	Rating
6			
5			
4			
3			
2			
1		Modular box 2x18	

4.1.4 EC VVS150-VVS230- 2.4kW x4

EL_DIAG_EC_VVS150-VVS230-2.4kWx4_1/6



EL_DIAG_EC_VVS150-VVS230-2.4kWx4_2/6



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00/800	

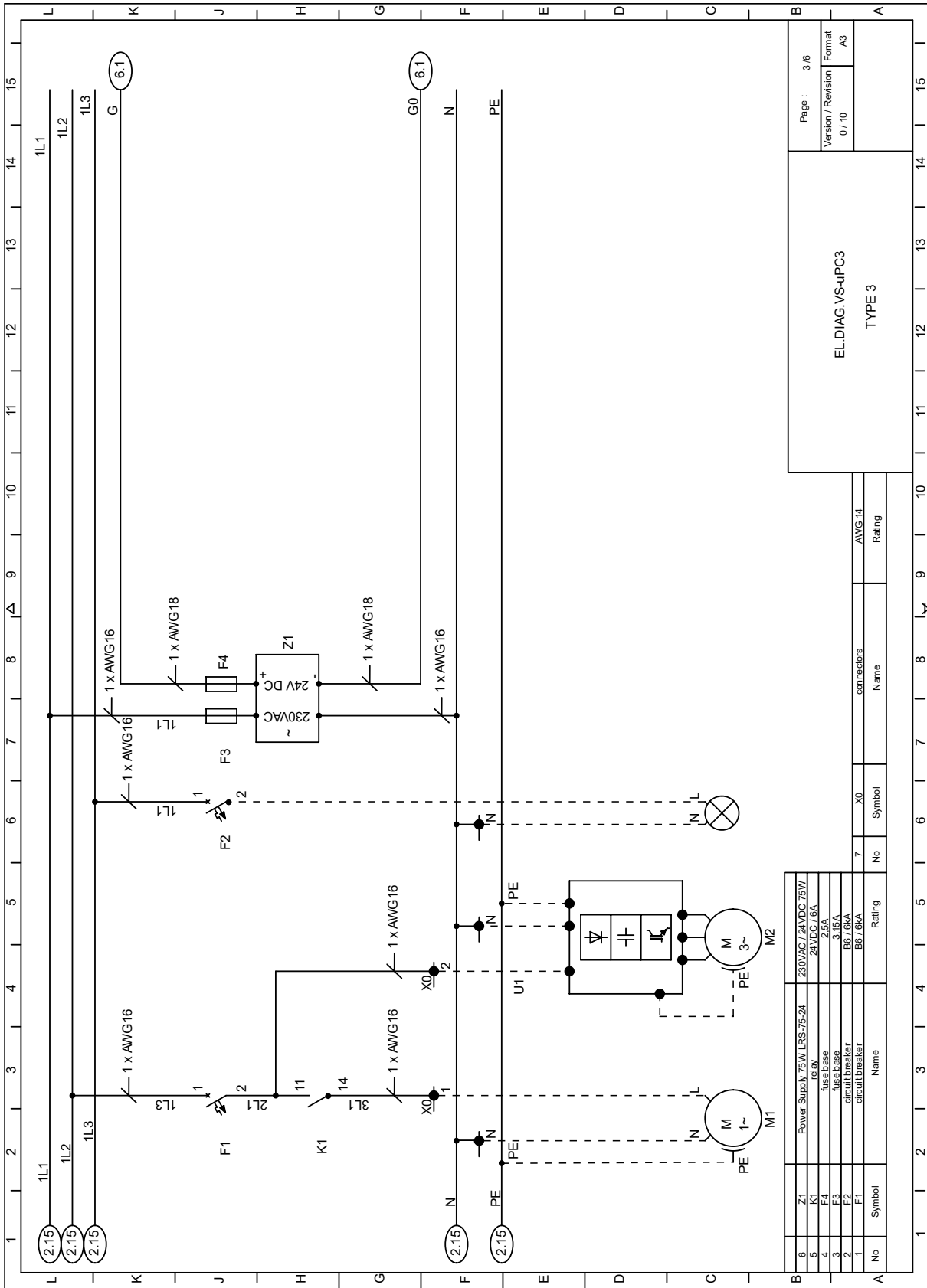
EL.DIAG.VS-uPC3
TYPE 3

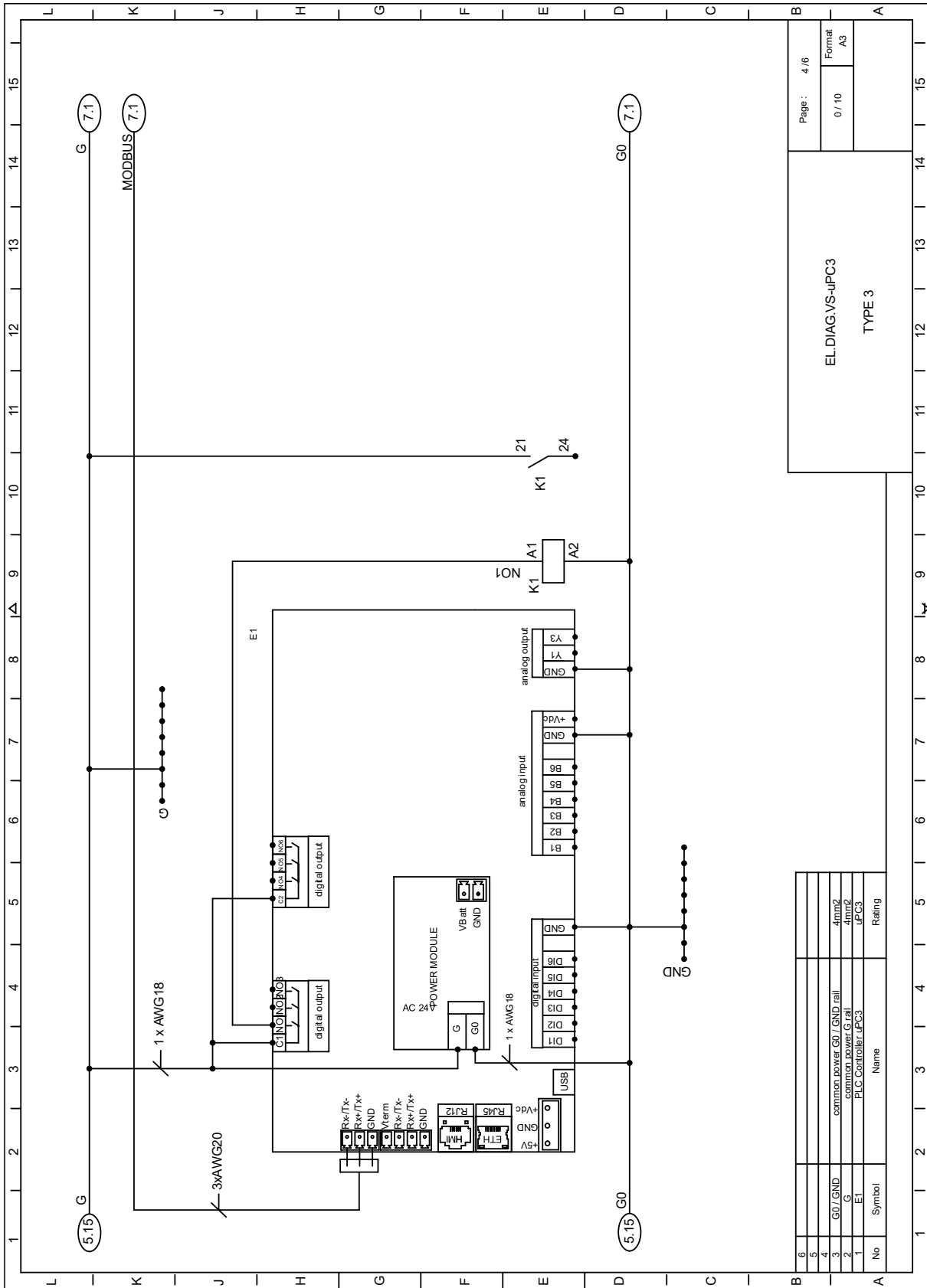
No	Symbol	Name	Rating
7	2F2M	fuseholder 10.3x38	16A
5	2F1M	fuseholder 10.3x38	16A

No	Symbol	Name	Rating
5	1.2	cable clamp from 35mm ² to 2x16mm ²	-
4	1L1, 1L2, 1L3	power rail or cable connections L1, L2, L3	3x12.5A
3	N	common neutral rail	80A
2	PE	common PE rail	80A
1	Q2M	circuit disconnect with switch or knob	3P / 12.5A

for motors xM4 = 3x400V / 2.4kW

EL_DIAG_EC_VVS150-VVS230-2.4kWx4_3/6



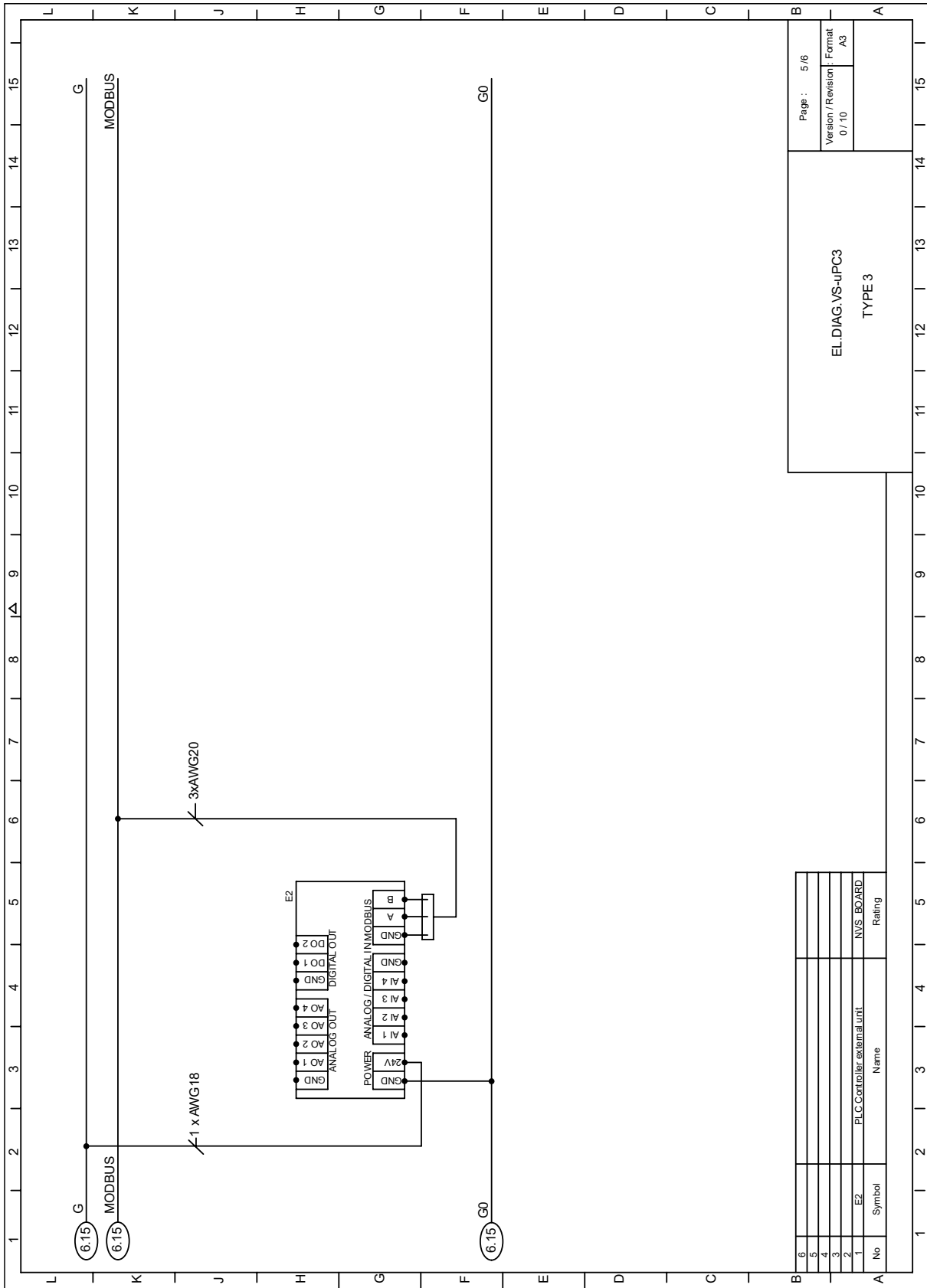


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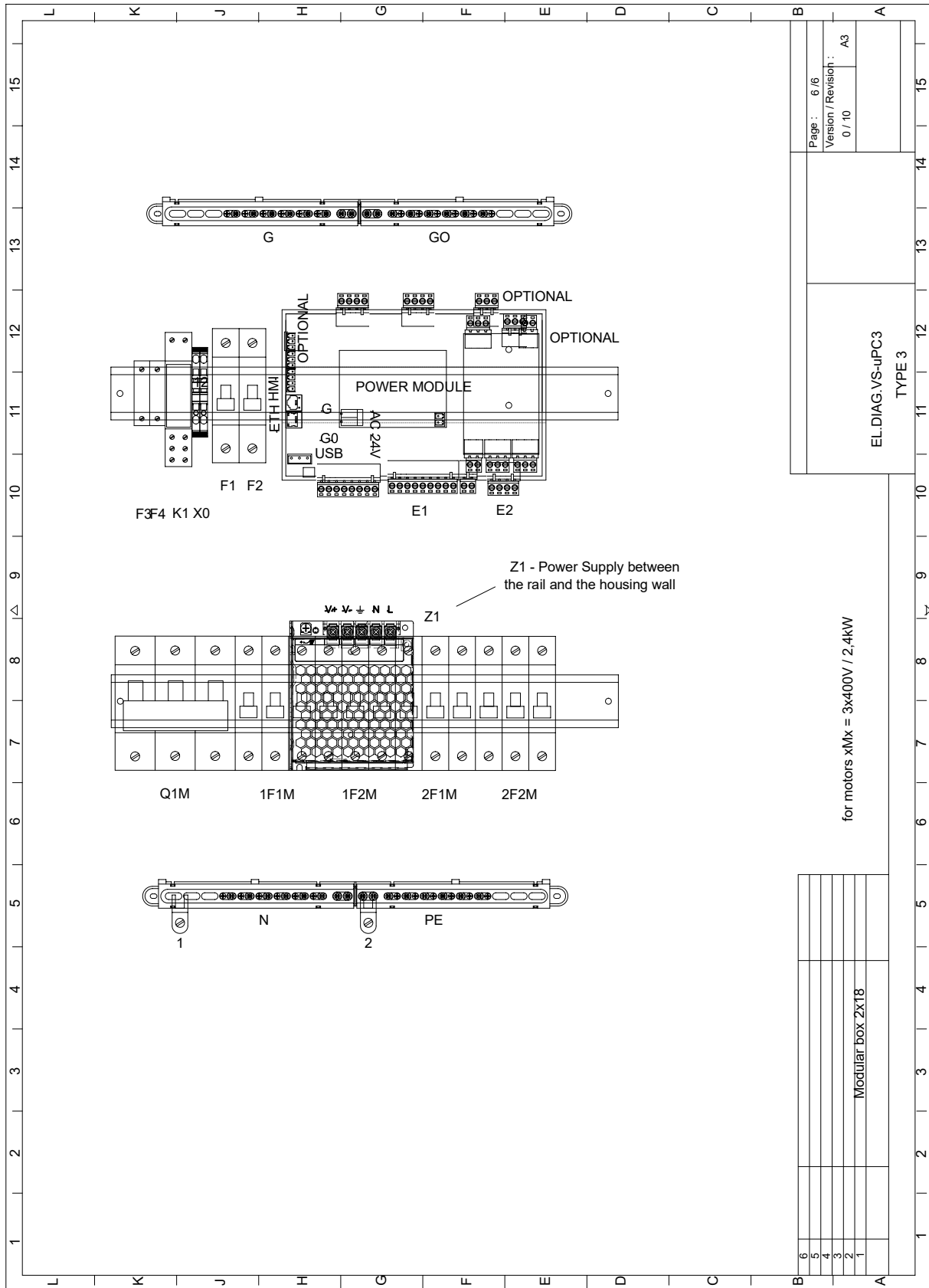
EL DIAG.VS-uPC3	
TYPE 3	

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	

EL_DIAG_EC_VVS150-VVS230-2.4kWx4_5/6

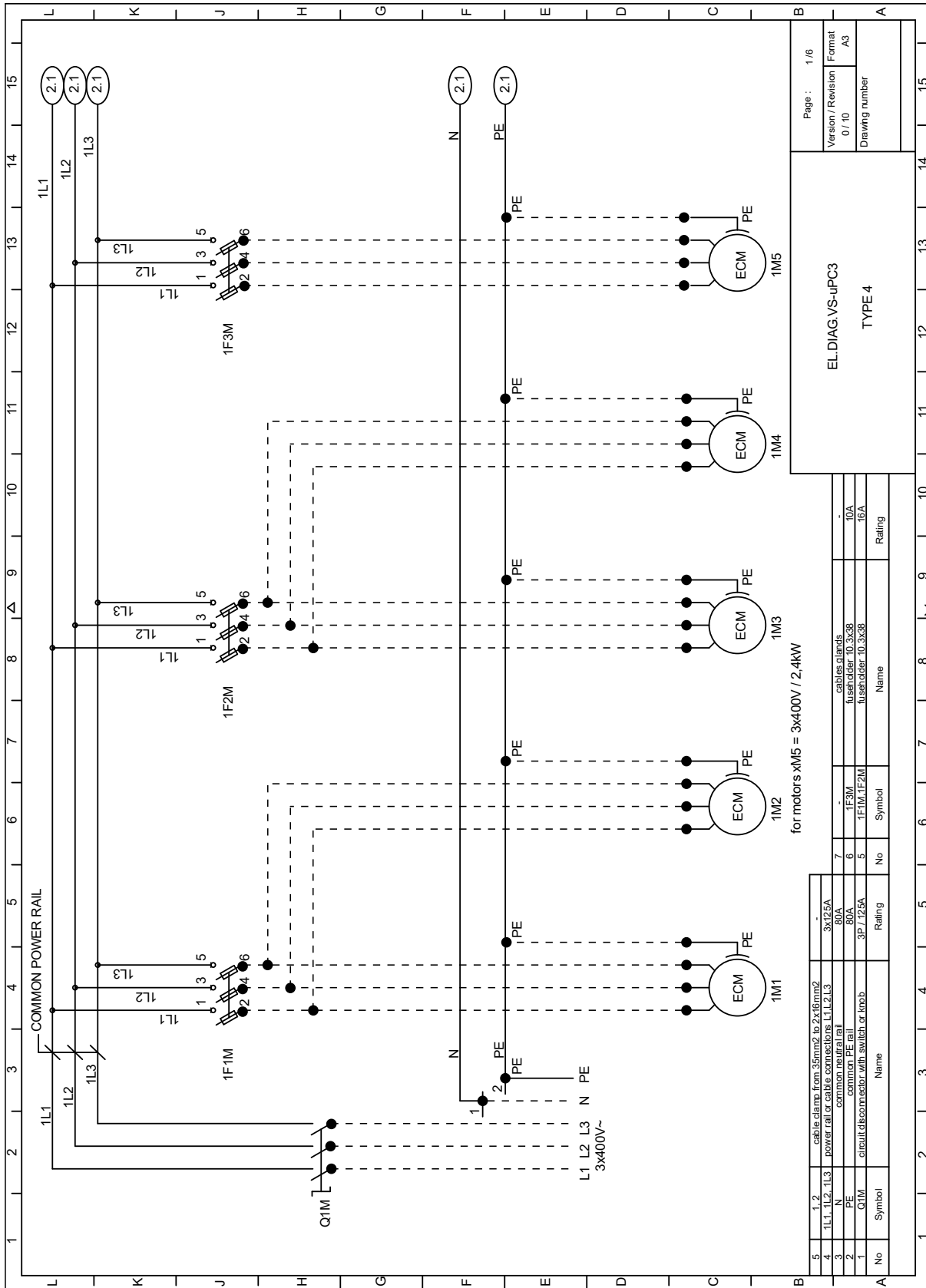


EL_DIAG_EC_VVS150-VVS230-2.4kWx4_6/6

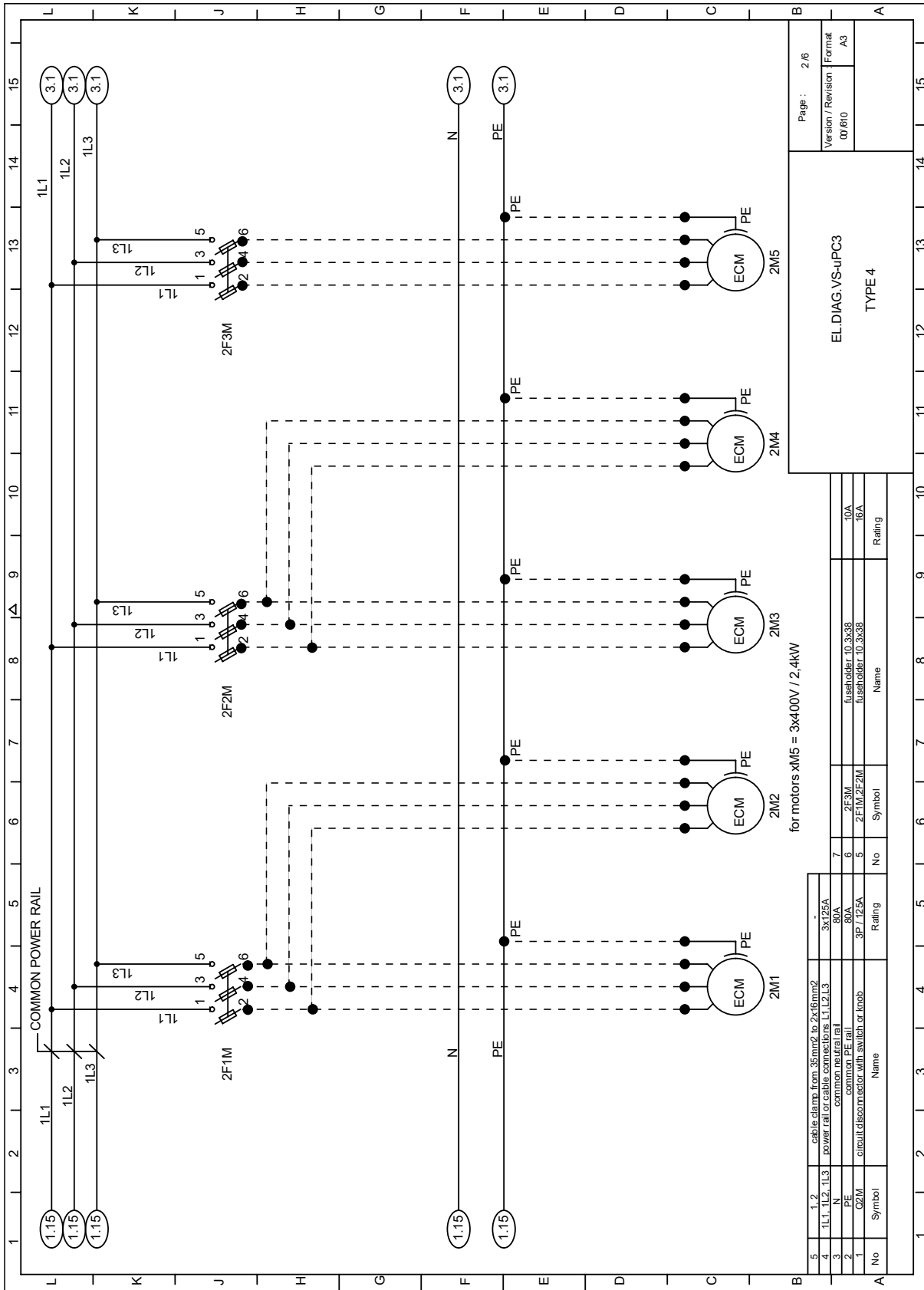


4.1.5 EC VVS180-VVS230- 2.4kW x5

EL_DIAG_EC_VVS180-VVS230-2.4kWx5_1/6



EL_DIAG_EC_VVS180-VVS230-2.4kWx5_2/6



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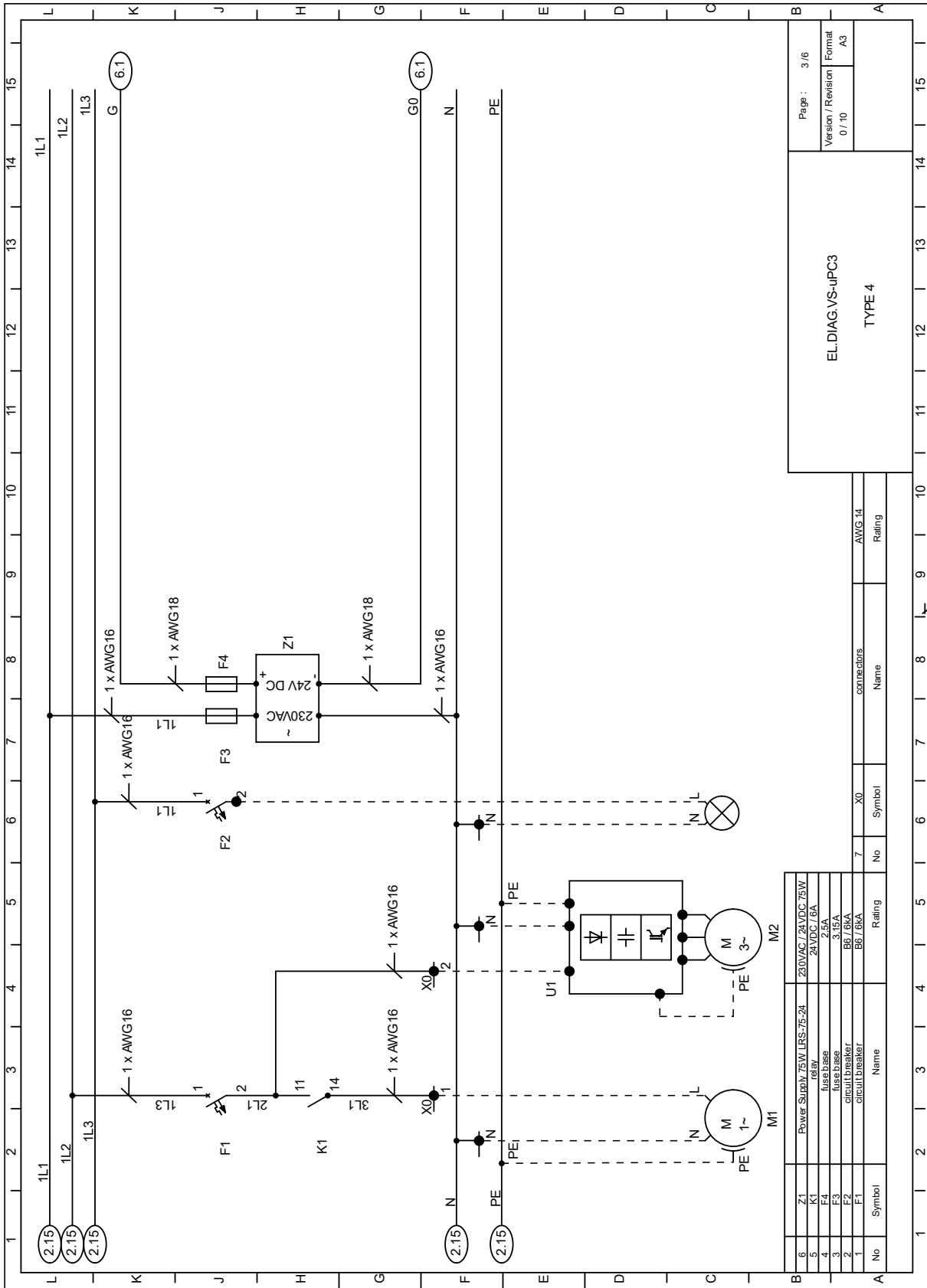
EL DIAG VS-UPC3
TYPE 4

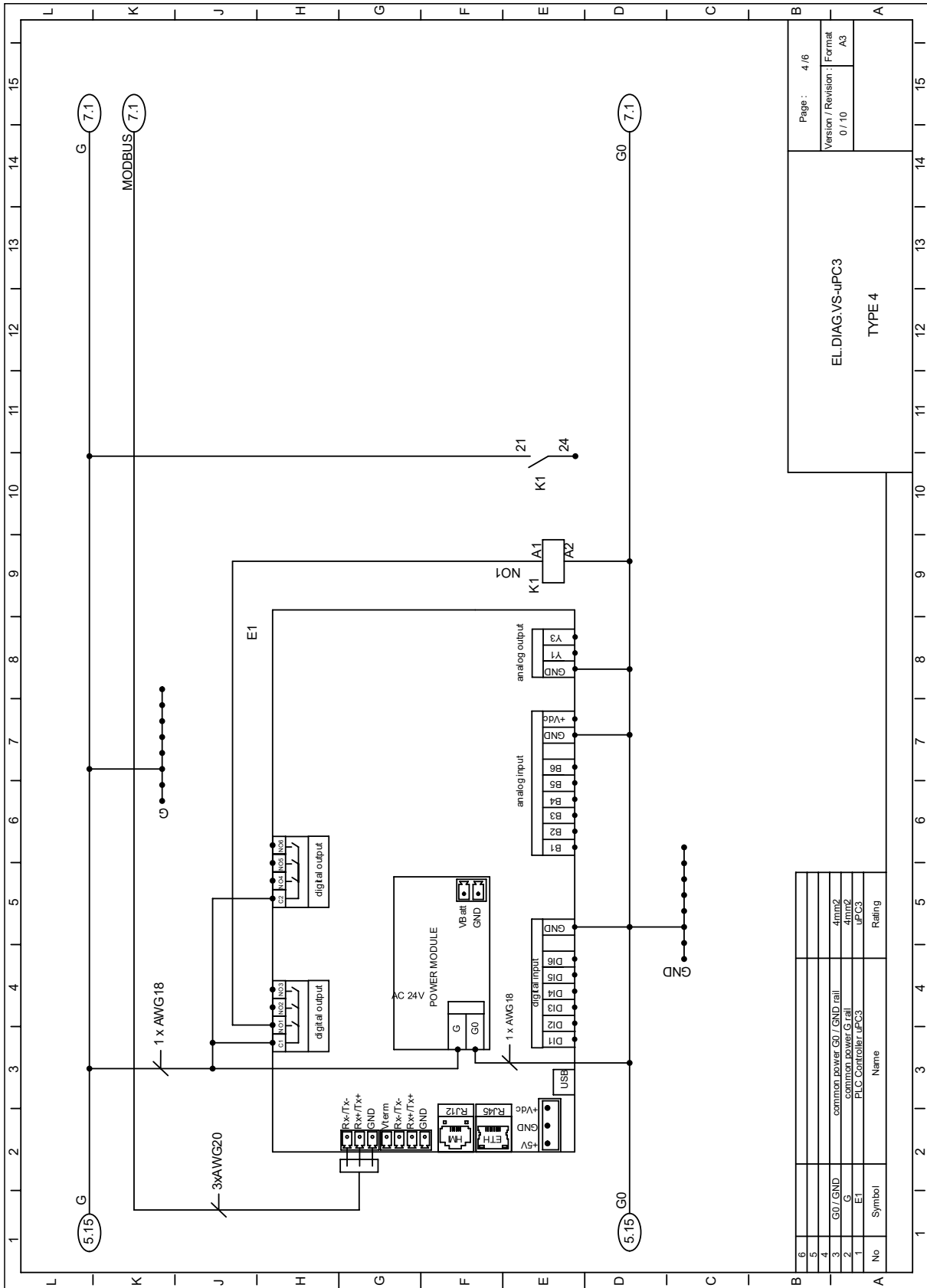
No	Symbol	Name	Rating
7	2F-3M	fuseholder 10.3x38	10A
5	2F-1M,2F-2M	fuseholder 10.3x38	16A

No	Symbol	Name	Rating
5	1, 2	cable clamp from 35mm ² to 2x16mm ²	-
4	1L1, 1L2, 1L3	power rail or cable connectors L1, L2, L3	3x125A
3	N	common neutral rail	80A
2	PE	common PE rail	80A
1	QM	circuit disconnector with switch or knob	3P / 125A

for motors xM5 = 3x400V / 2,4kW

EL_DIAG_EC_VVS180-VVS230-2.4kWx5_3/6

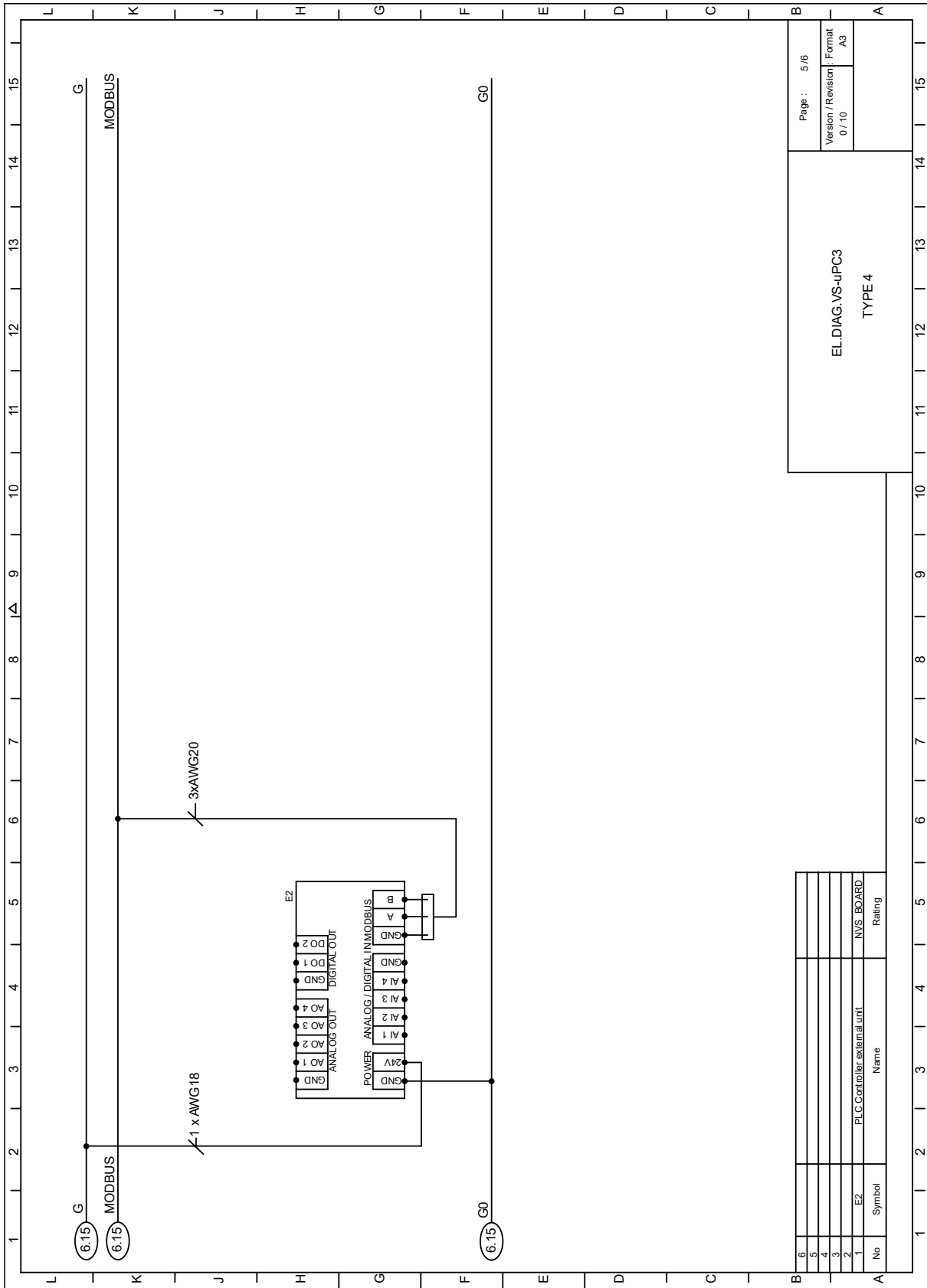




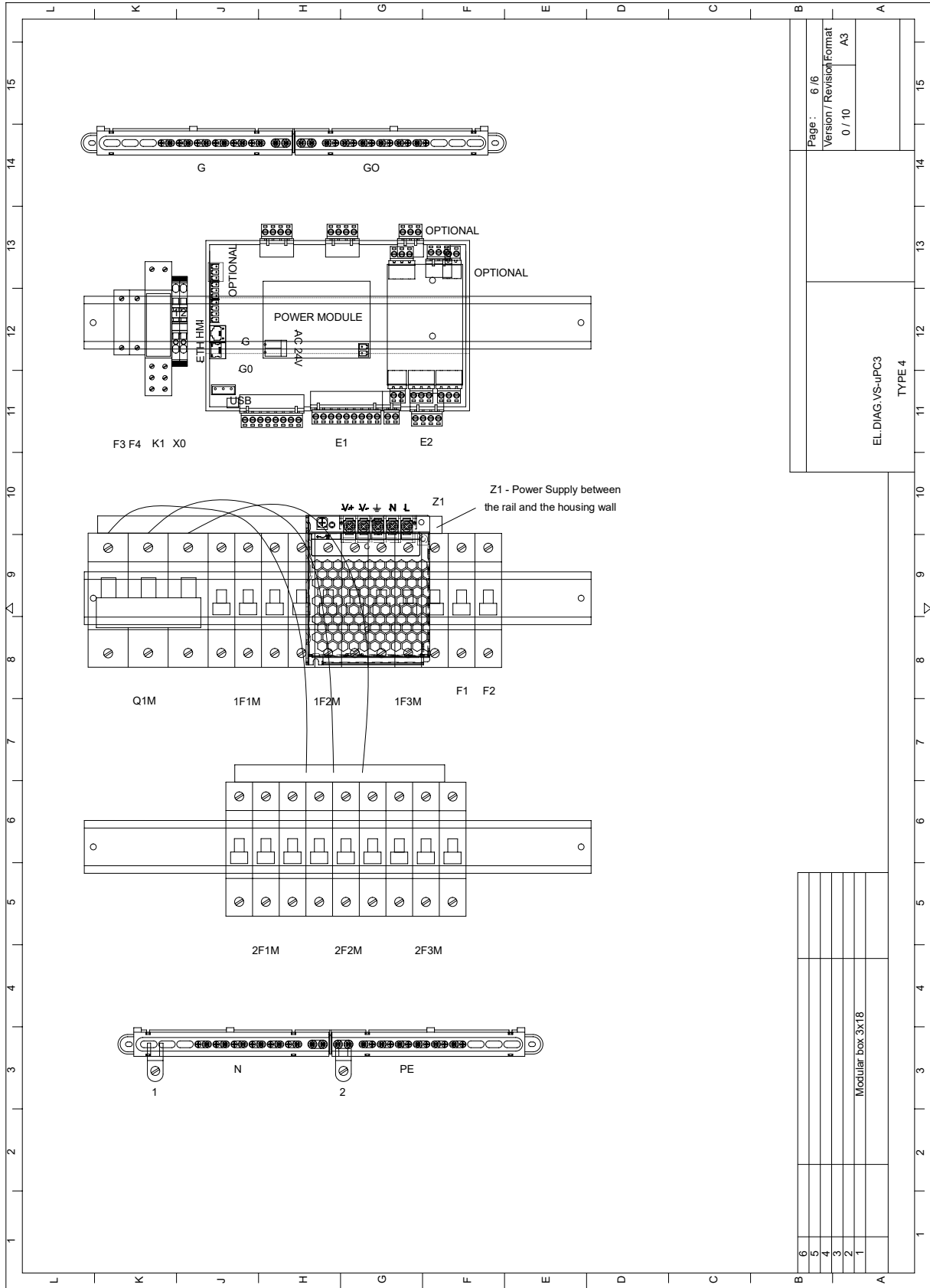
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Format :	A3

EL DIAG VS-UPC3
TYPE 4

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	
1			

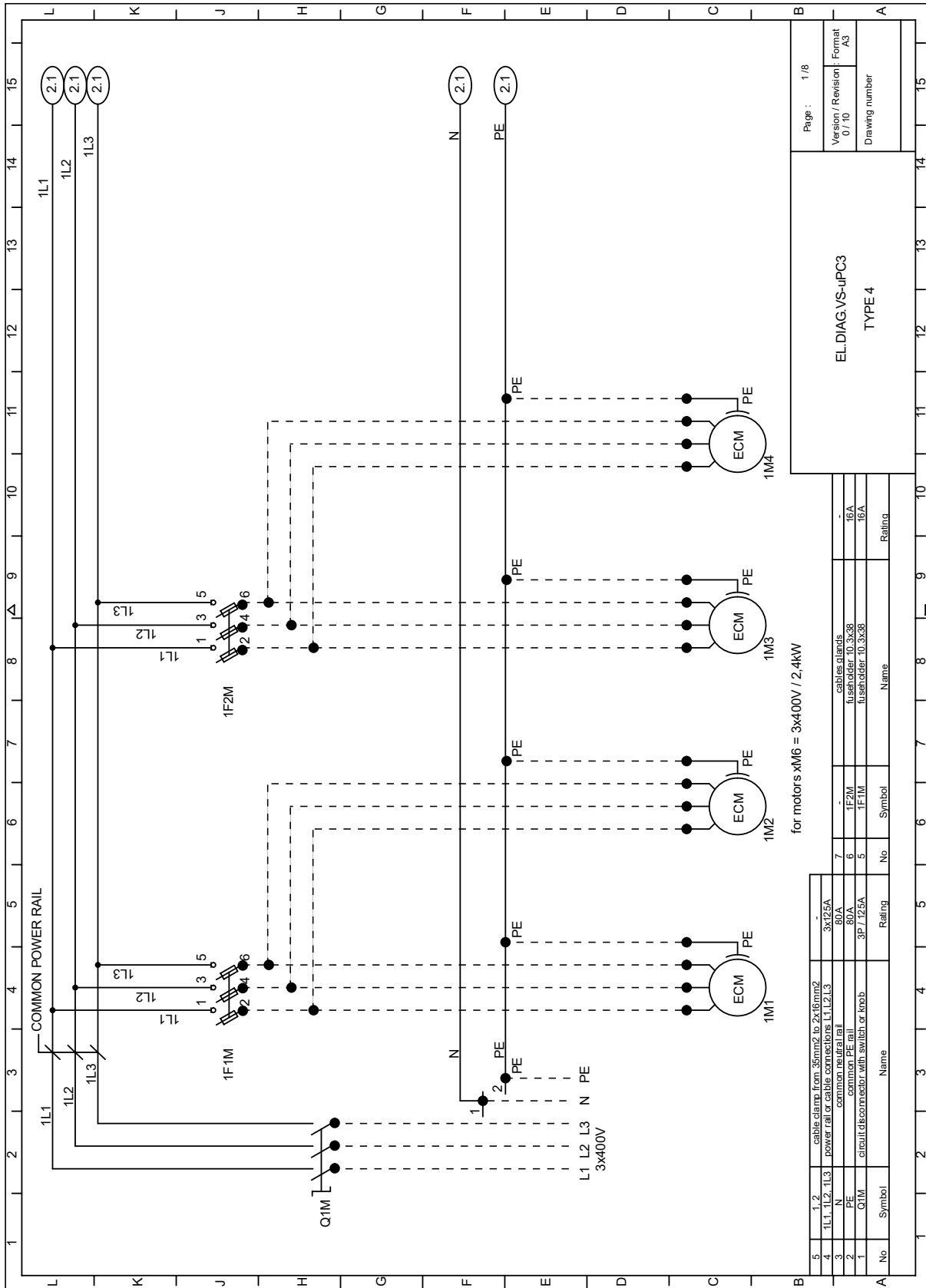


EL_DIAG_EC_VVS180-VVS230-2.4kWx5_6/6

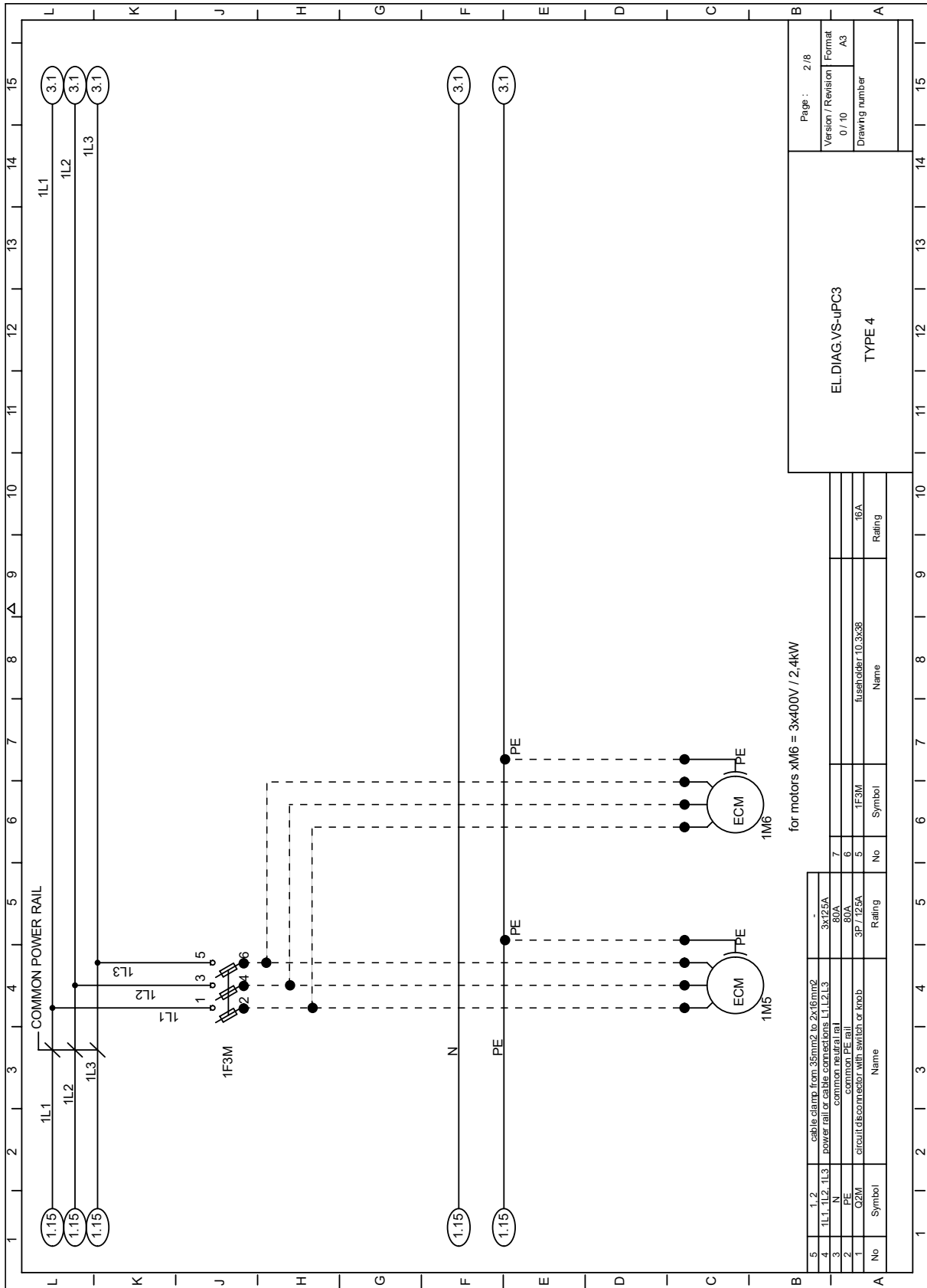


4.1.6 EC VVS180-VVS230- 2.4kW x6

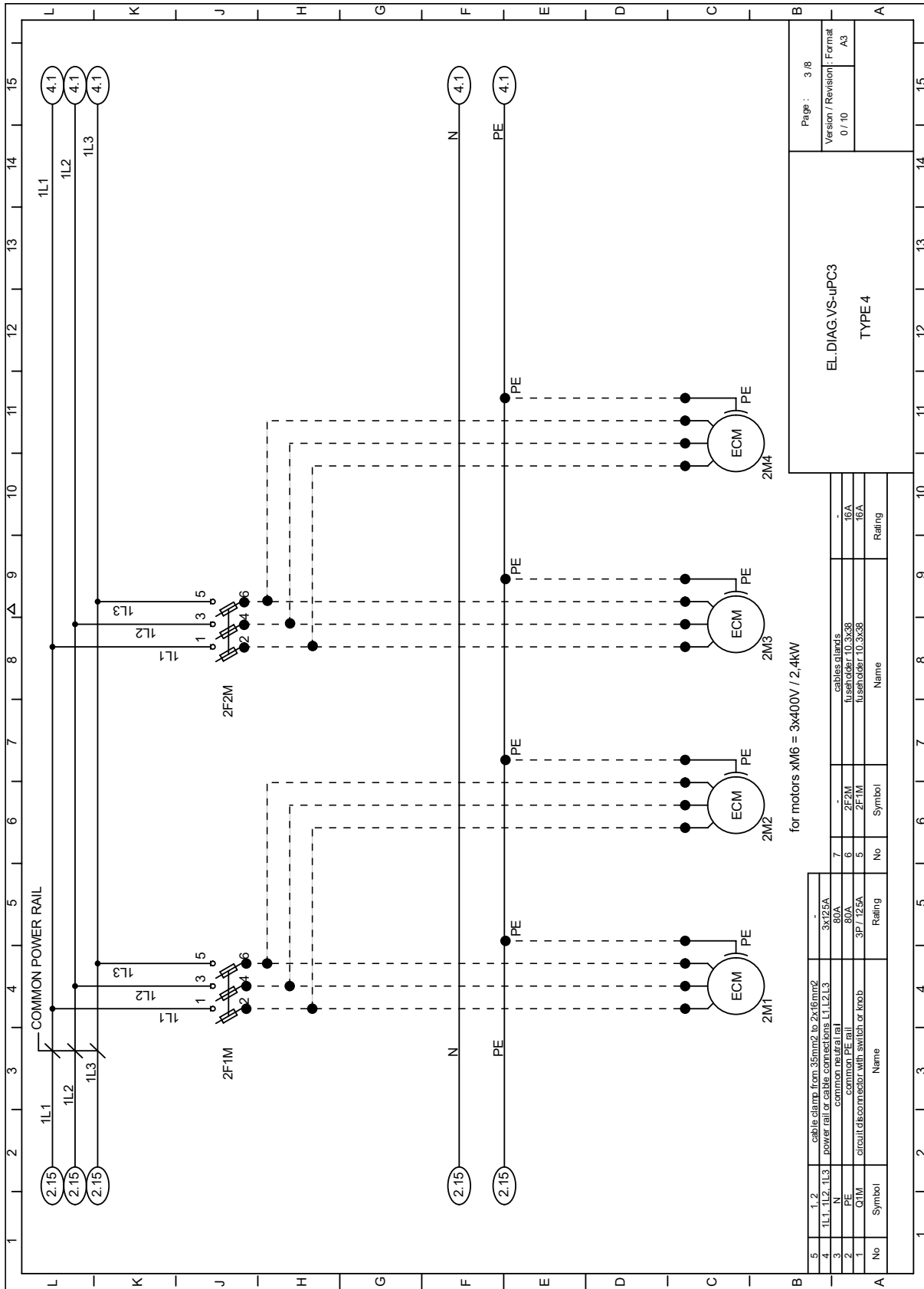
EL_DIAG_EC_VVS180-VVS230-2.4kWx6_1/8



EL_DIAG_EC_VVS180-VVS230-2.4kWx6_2/8



EL_DIAG_EC_VVS180-VVS230-2.4kWx6_3/8



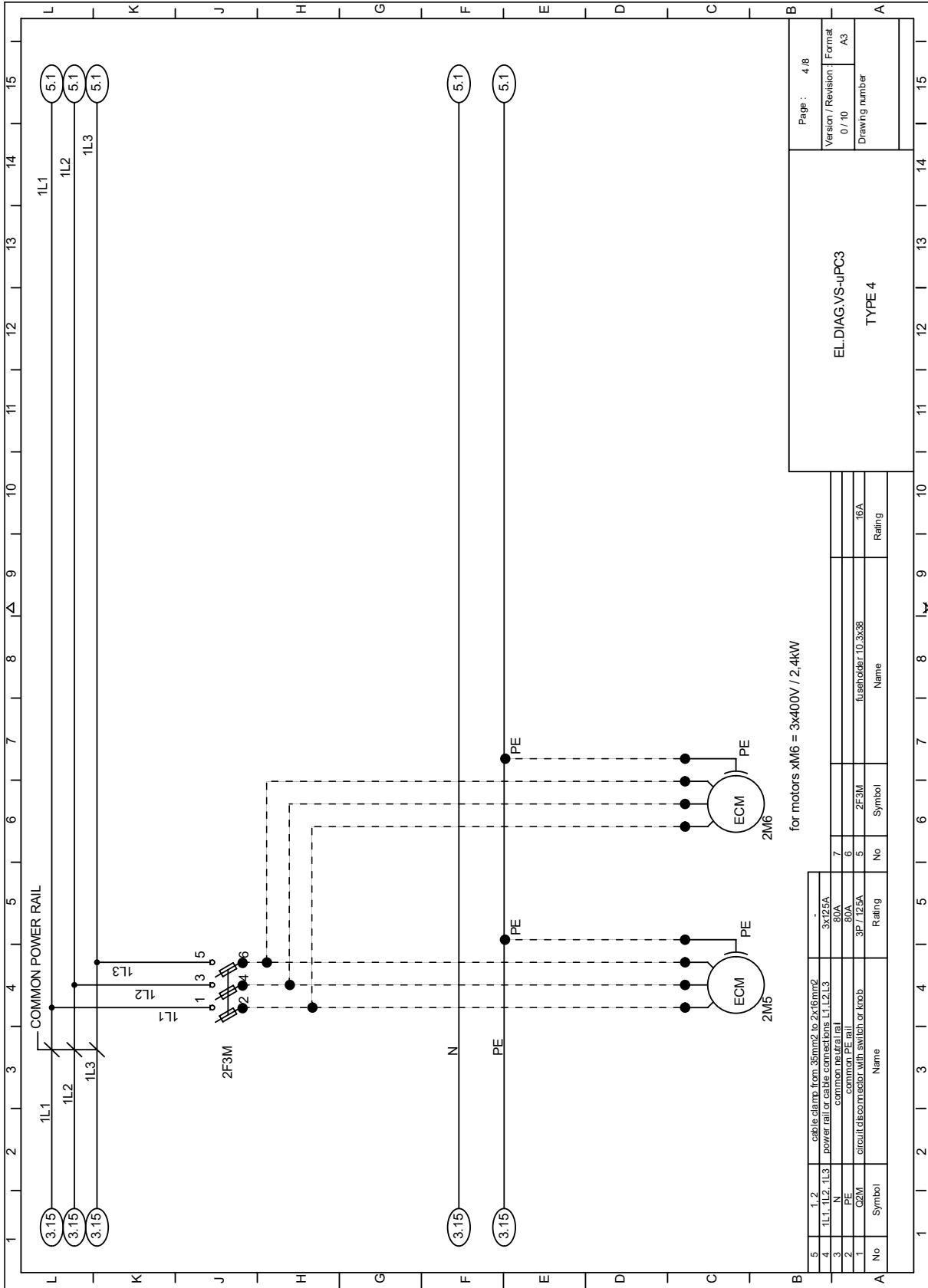
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EL DIAG.VS-uPC3
TYPE 4

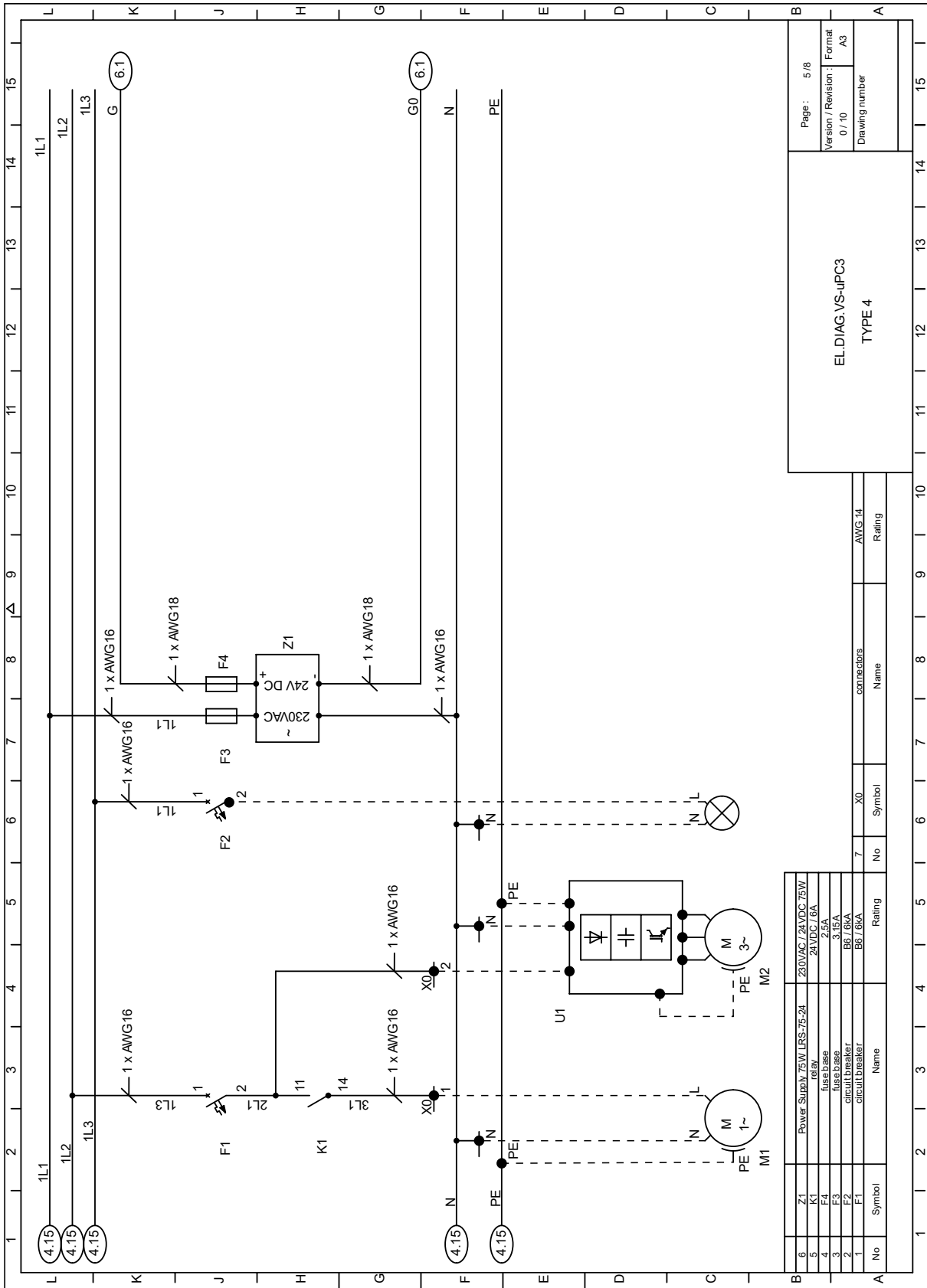
No	Symbol	Name	Rating
7	-	cables glands	-
6	2F2M	fuseholder 10.3x38	16A
5	2F1M	fuseholder 10.3x38	16A

No	Symbol	Name	Rating
5	1, 2	cable clamp from 35mm ² to 2x16mm ²	-
4	1L1, 1L2, 1L3	power rail or cable connections L1, L2, L3	3x12.5A
3	N	common neutral rail	80A
2	PE	common PE rail	80A
1	QTM	circuit disconnect with switch or knob	3P / 12.5A

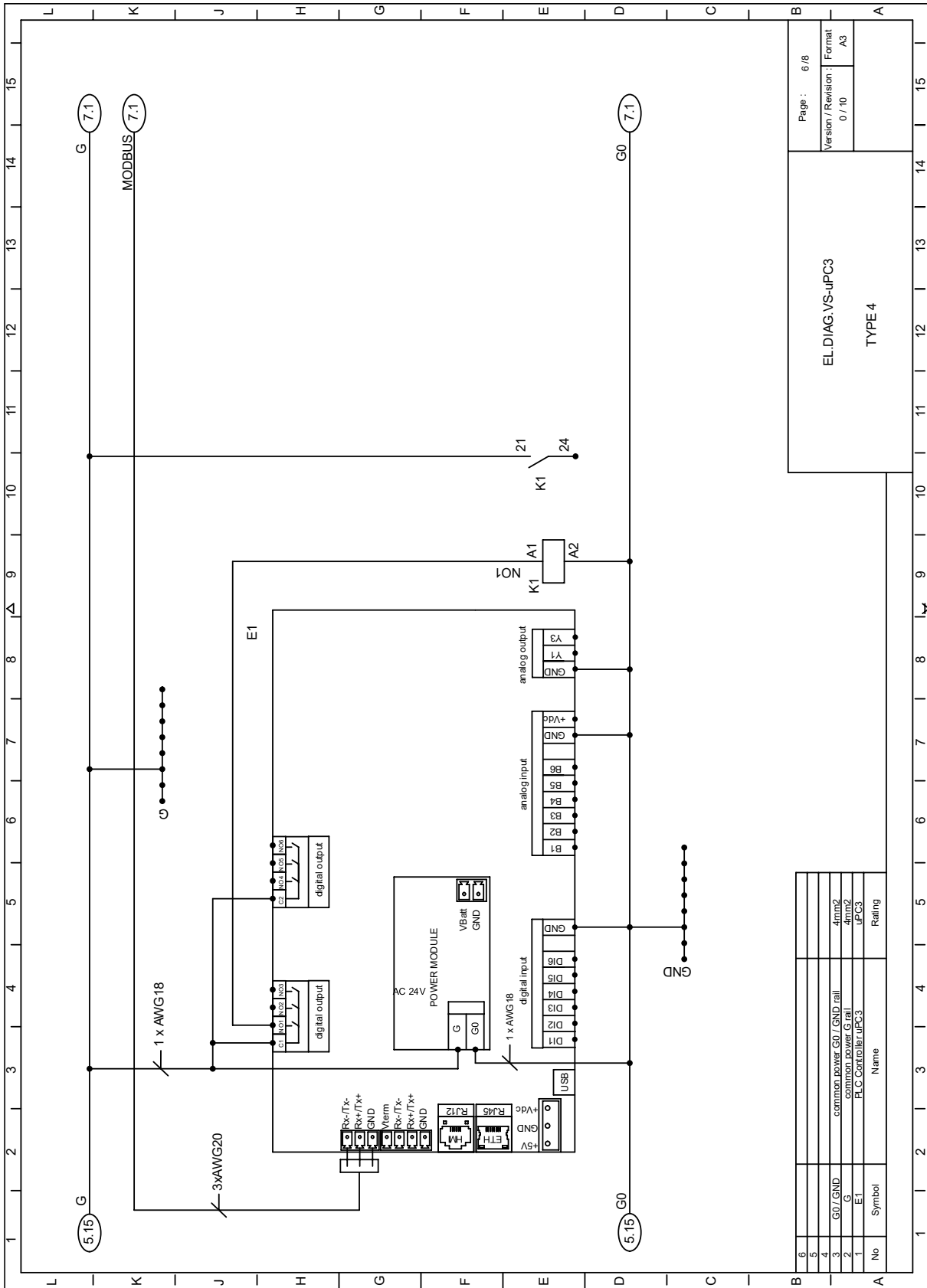
for motors xM6 = 3x400V / 2.4kW



EL_DIAG_EC_VVS180-VVS230-2.4kWx6_5/8



EL_DIAG_EC_VVS180-VVS230-2.4kWx6_6/8

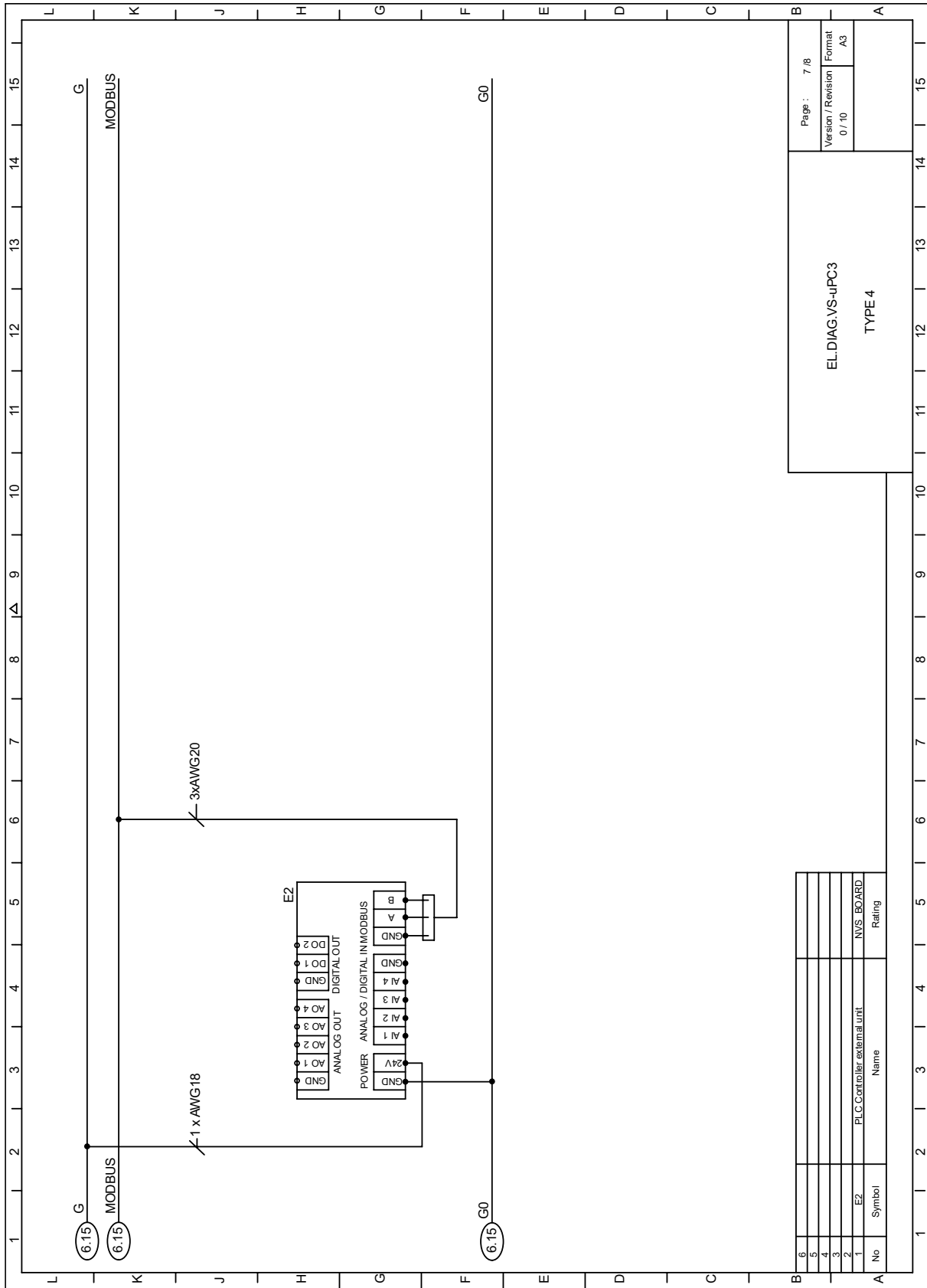


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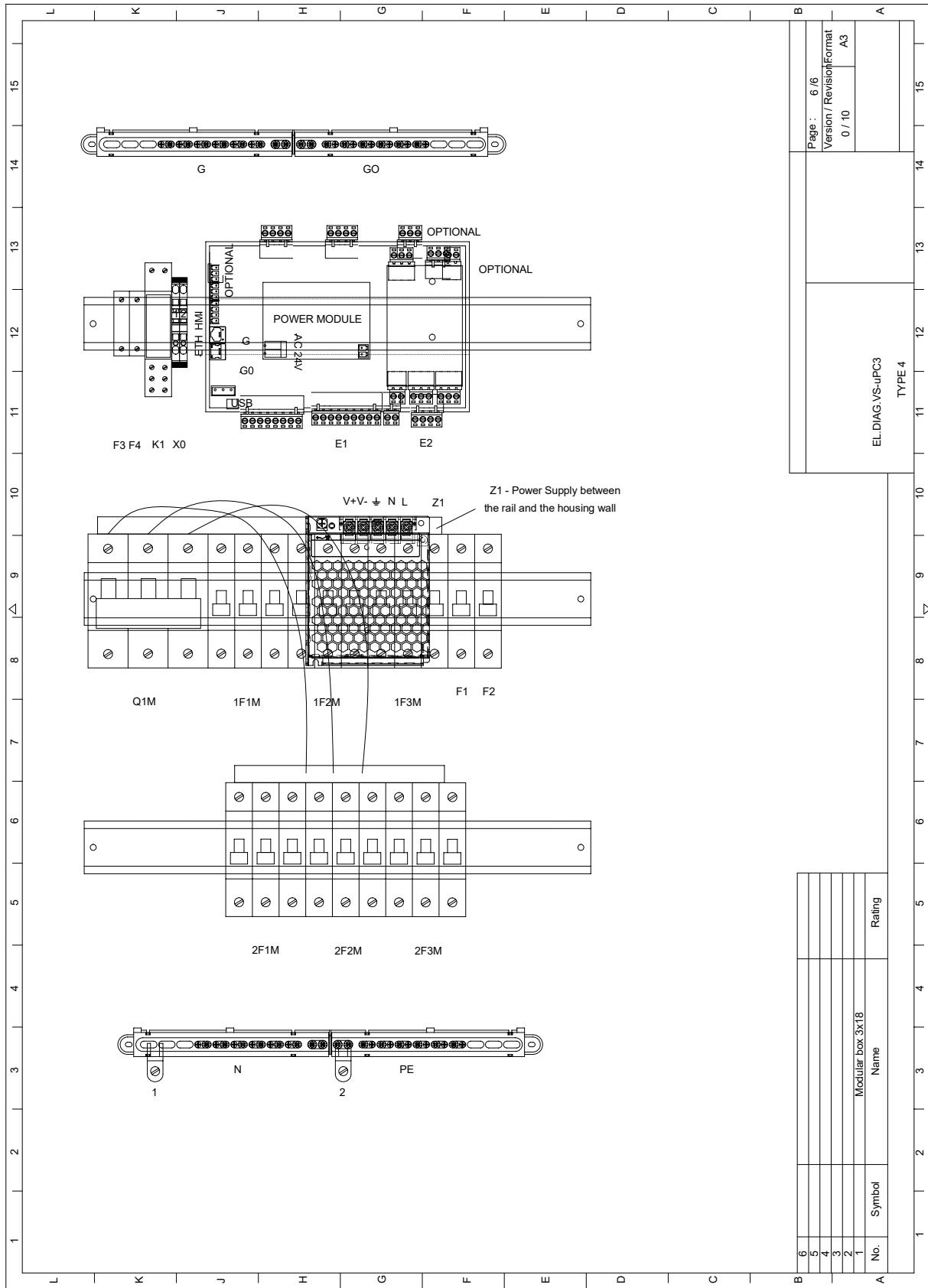
EL DIAG VS-uPC3
TYPE 4

No	Symbol	Name	Rating
1	E1	PLC Controller uPC3	
2	G	common power G rail	4mm ²
3	G0 / GND	common power G0 / GND rail	4mm ²
4			
5			
6			

EL_DIAG_EC_VVS180-VVS230-2.4kWx6_7/8

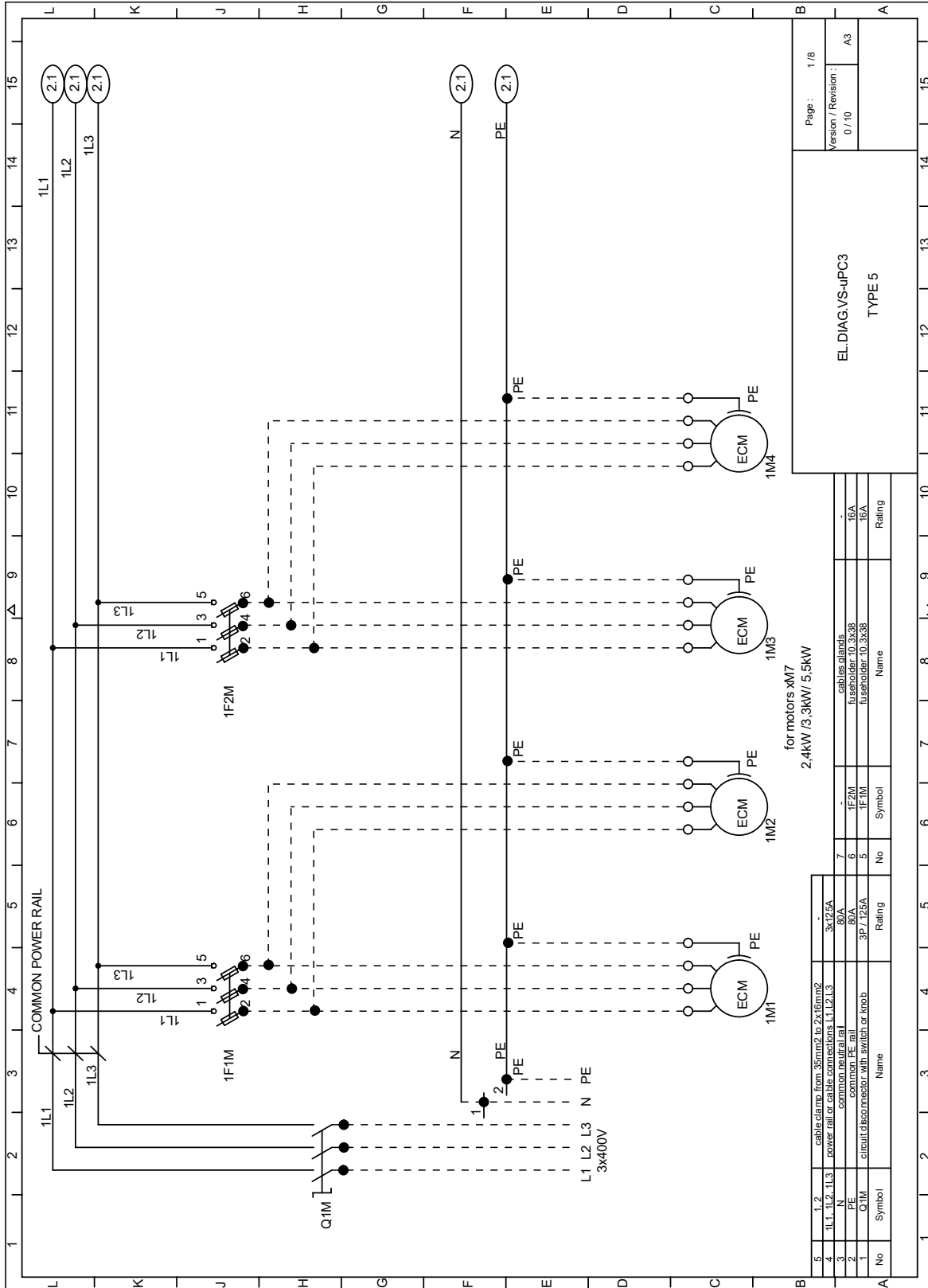


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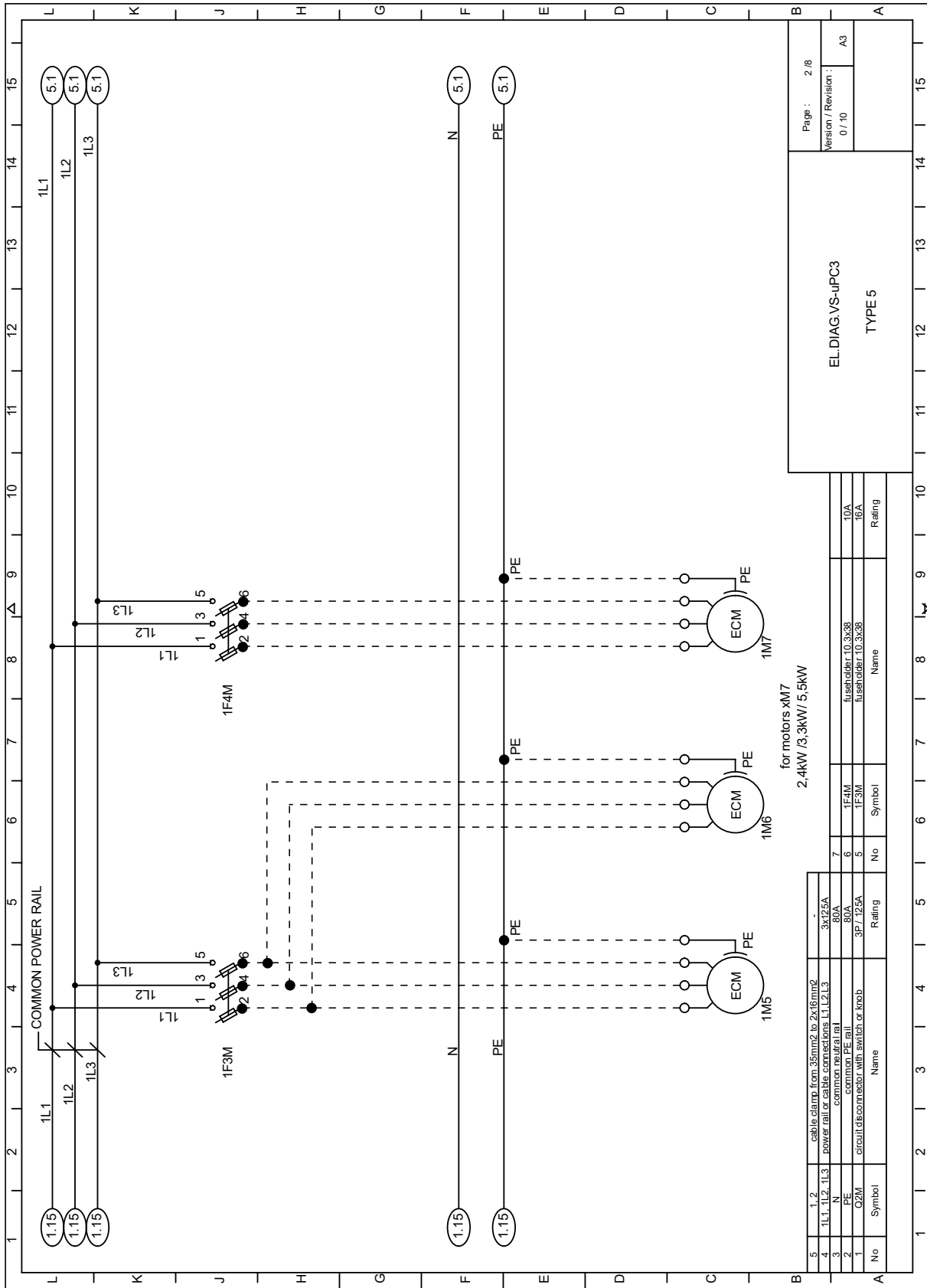


4.1.7 EC VVS180-VVS230- 2.4kW x7

EL_DIAG_EC_VVS230-2.4kWx7_1/8



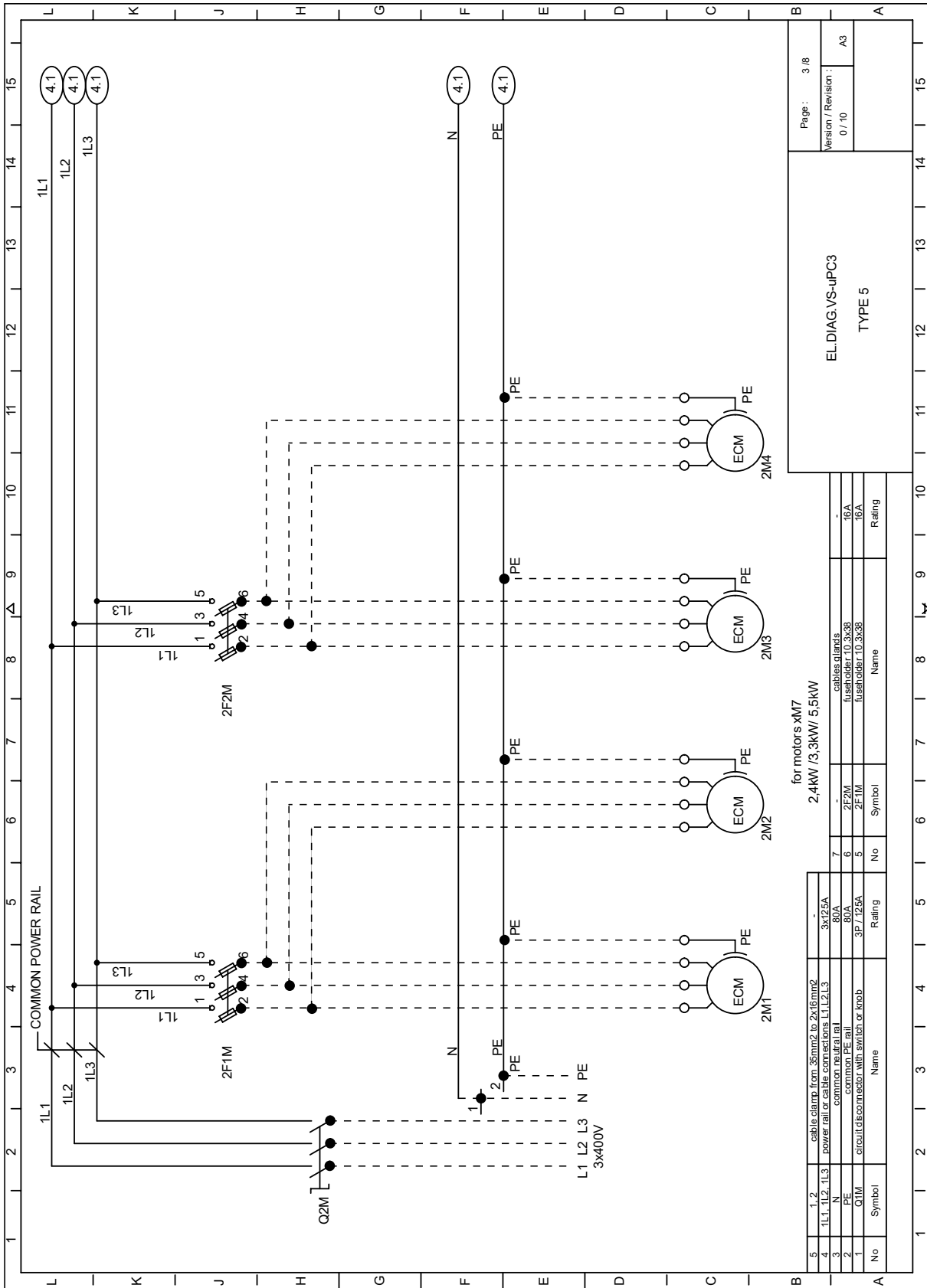
EL_DIAG_EC_VVS230-2.4kWx7_2/8



EL DIAG VS-uPC3
TYPE 5

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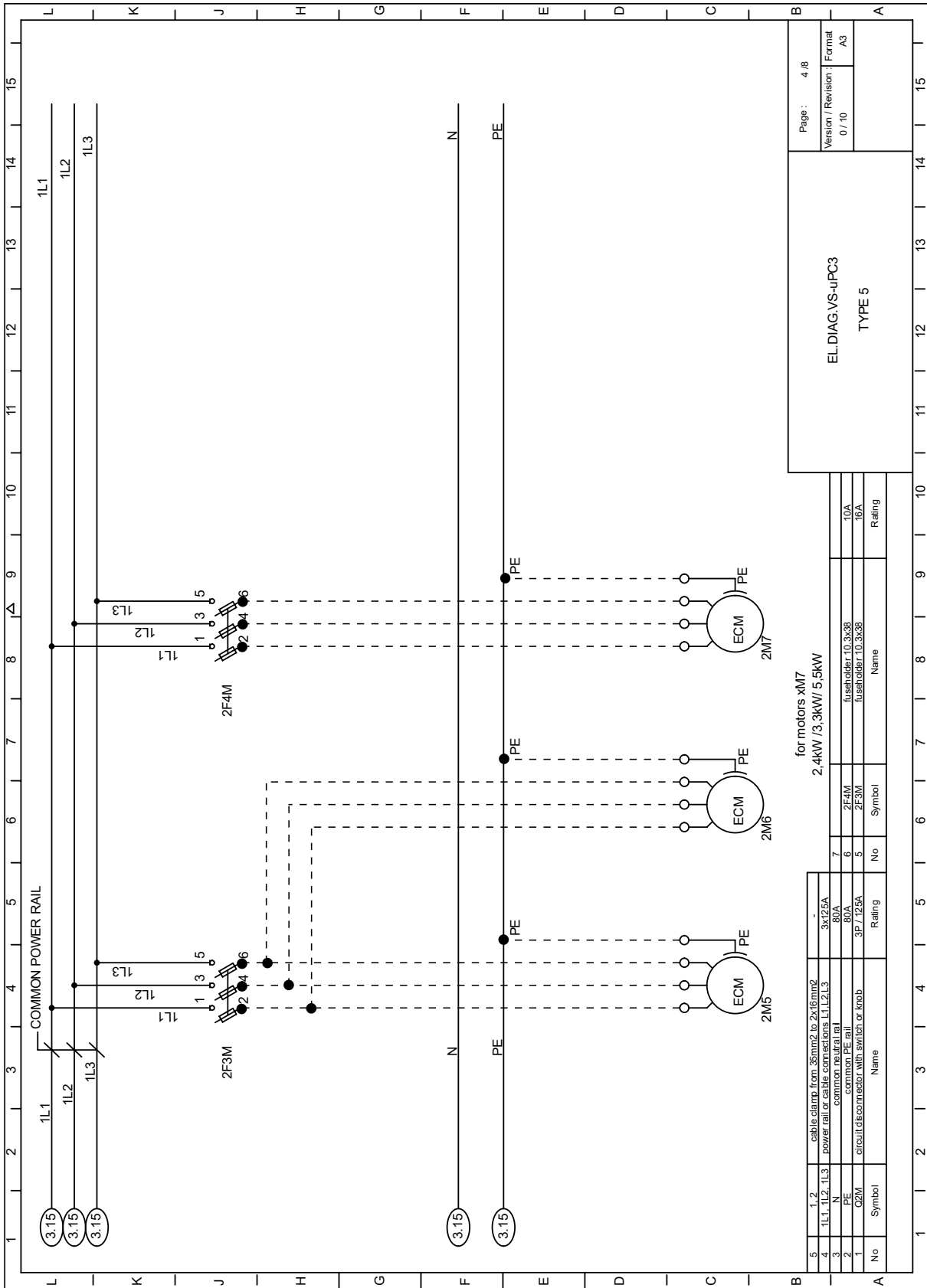
EL_DIAG_EC_VVS230-2.4kWx7_3/8



EL DIAG.VS-uPC3
TYPE 5

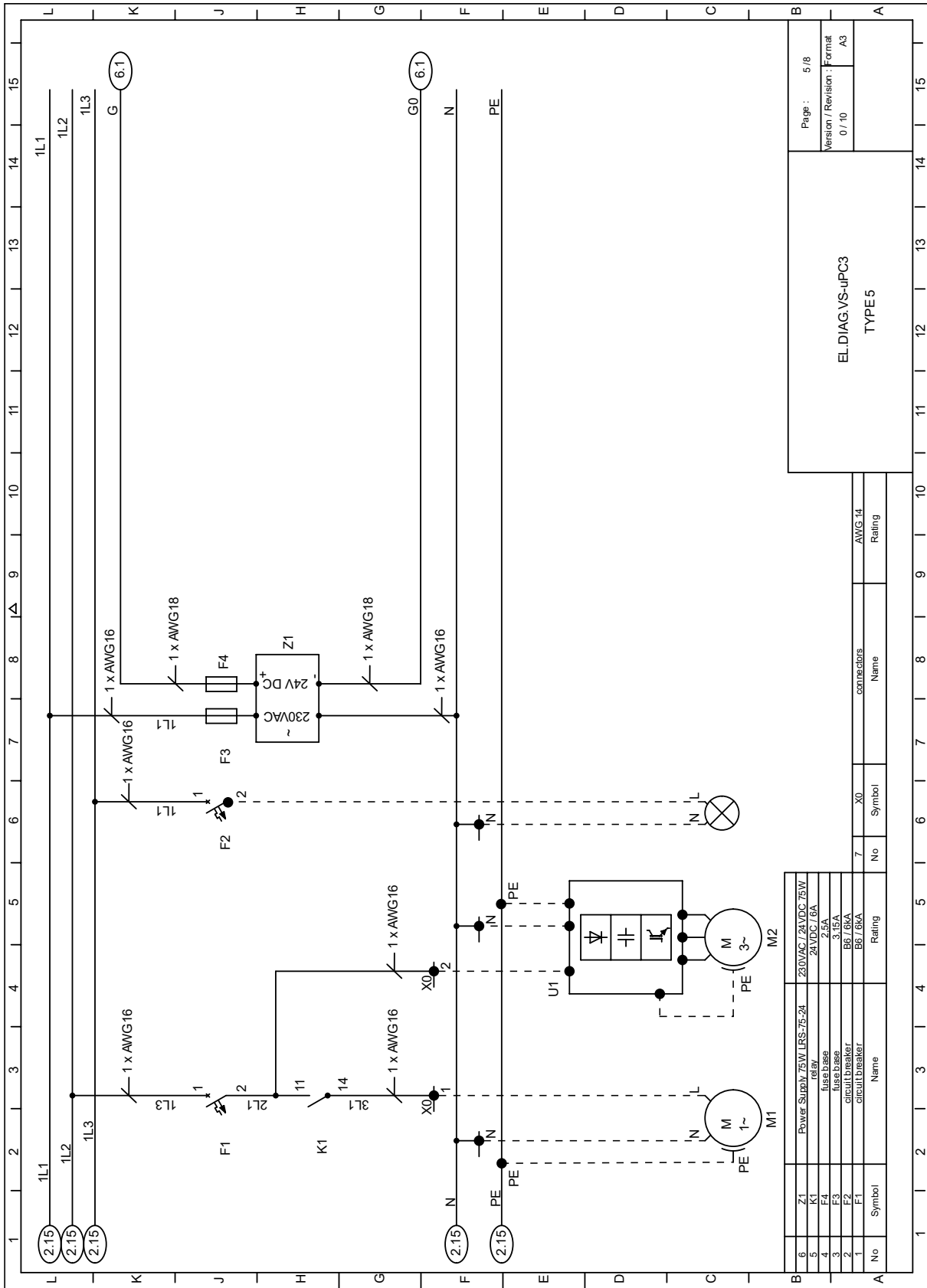
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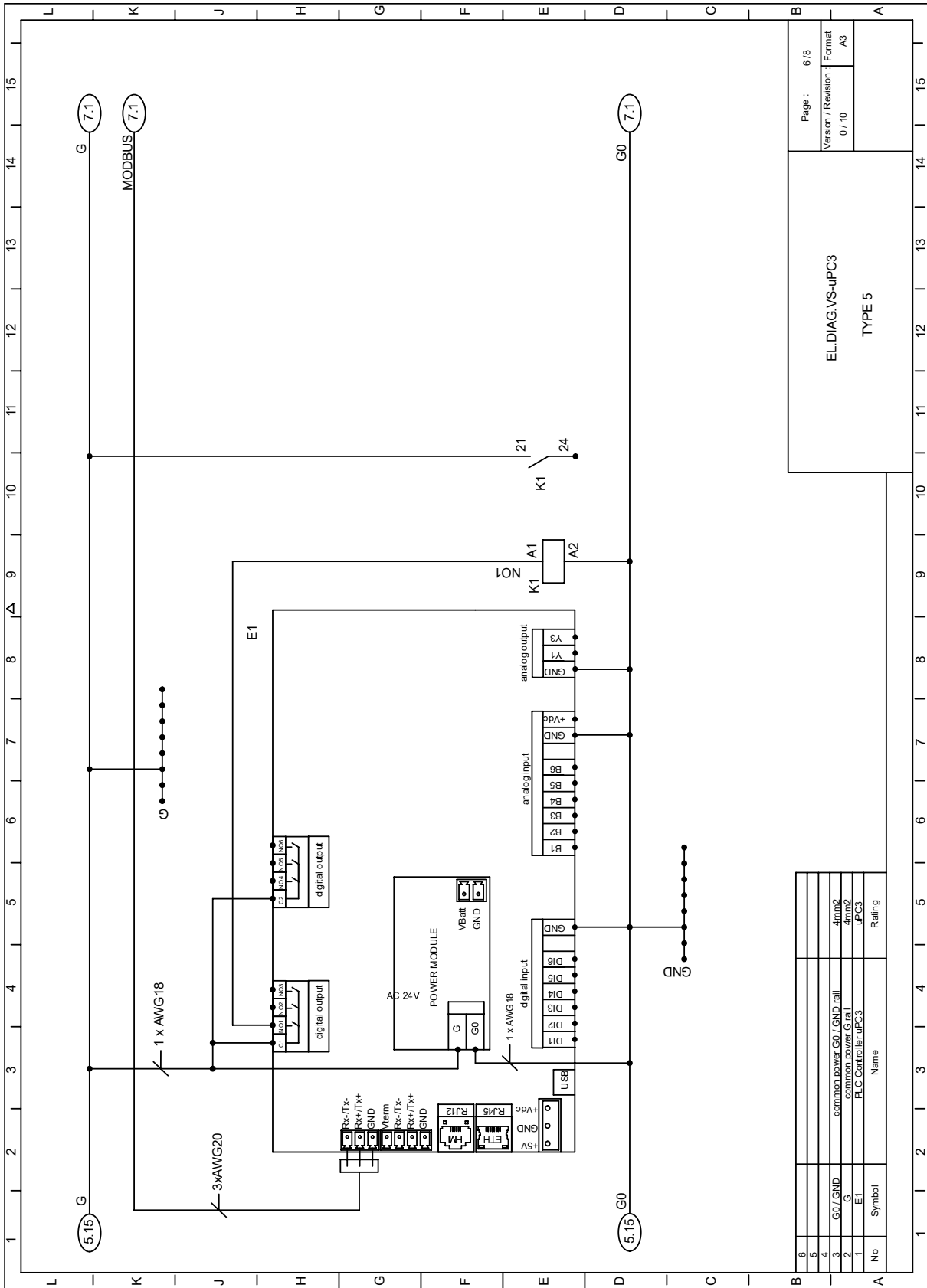
EL_DIAG_EC_VVS230-2.4kWx7_4/8



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EL-DIAG-VS-uPC3 TYPE 5			
No	Symbol	Name	Rating
5	1, 2	cable clamp from 35mm ² to 2x16mm ²	-
4	1L1, 1L2, 1L3	power rail or cable connections L1, L2, L3	3x12.5A
3	N	common neutral rail	80A
2	PE	common PE rail	80A
1	Q2M	circuit disconnect with switch or knob	3P / 12.5A
for motors XM7			
7	2F4M	fuseholder 10.3x38	10A
6	2F3M	fuseholder 10.3x38	16A
5	2M5	ECM	Rating
4	2M6	ECM	Rating
3	2M7	ECM	Rating

EL_DIAG_EC_VVS230-2.4kWx7_5/8

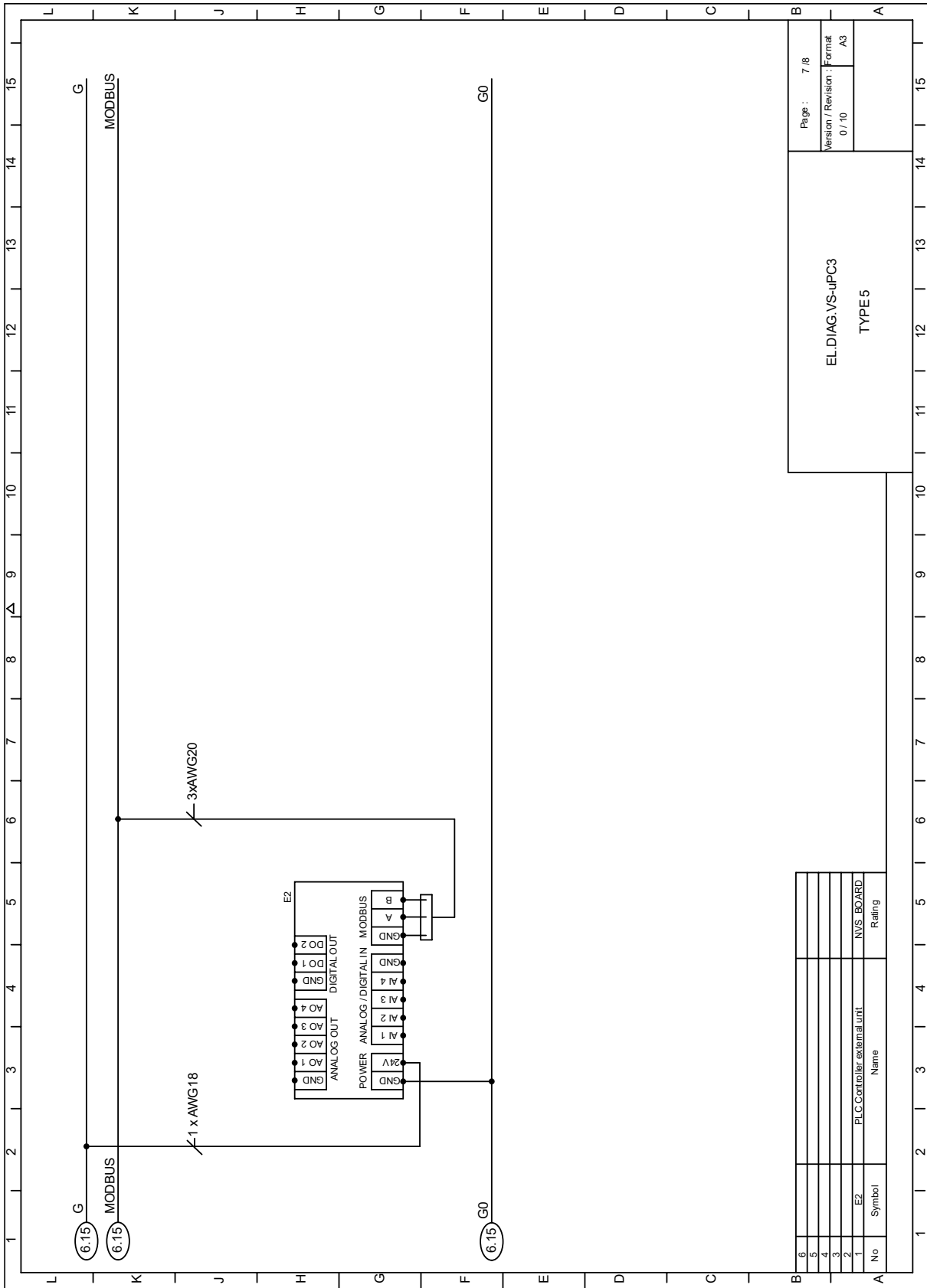




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EL DIAG VS-uPC3
TYPE 5

EL_DIAG_EC_VVS230-2.4kWx7_7/8

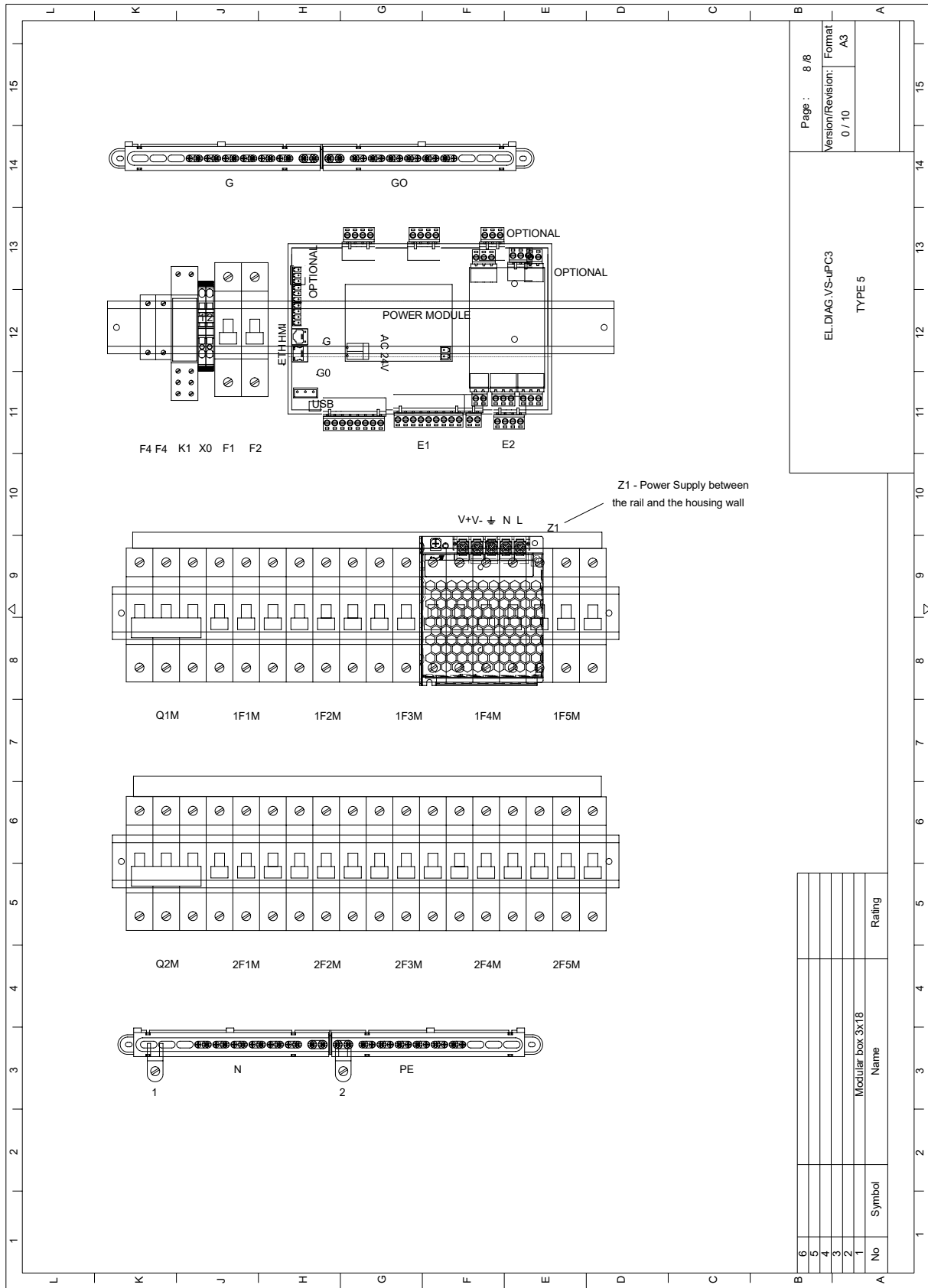


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EL DIAG.VS-UPC3
TYPE 5

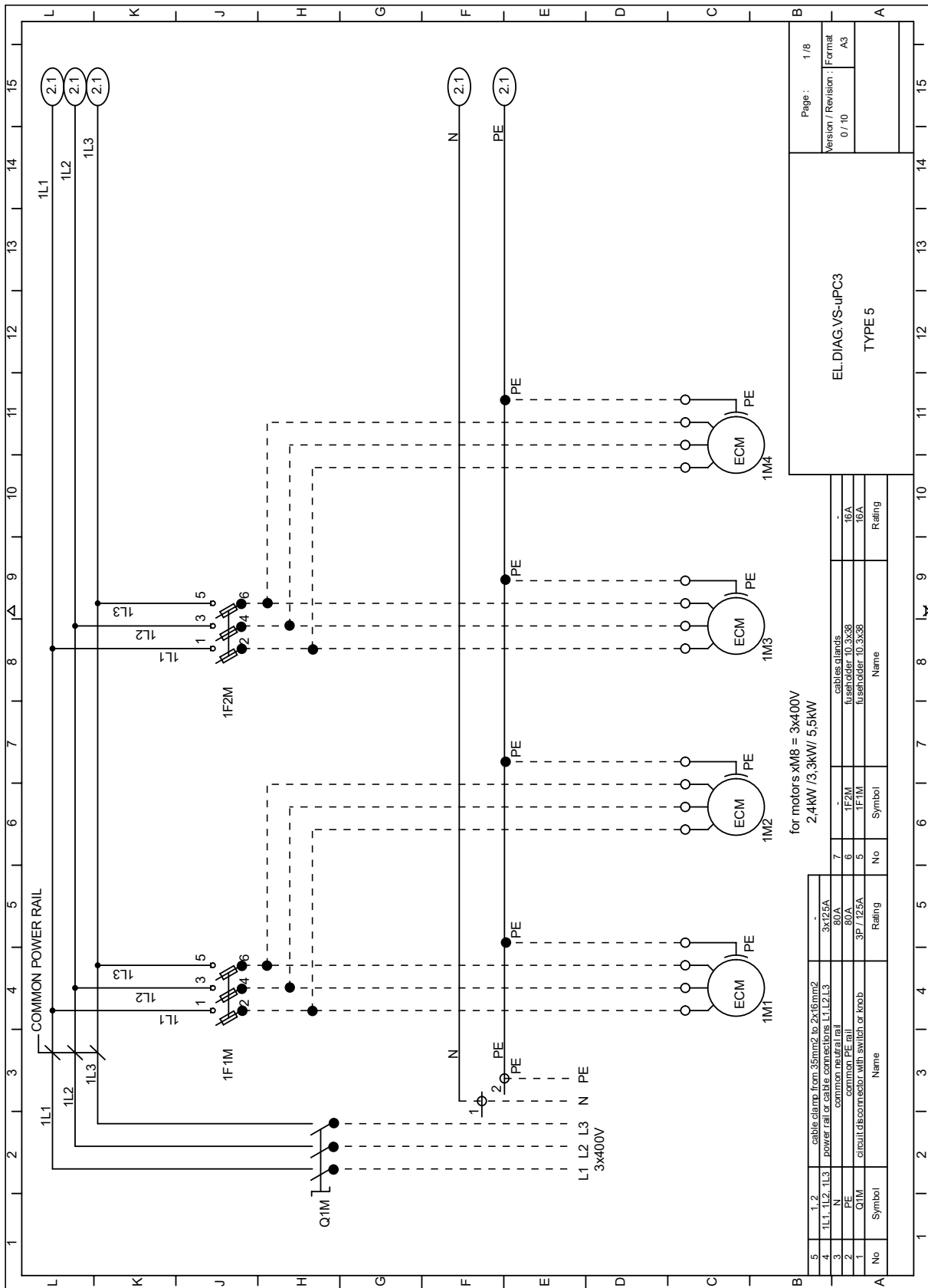
No	Symbol	Name	Rating
1	E2	PLC Controller external unit	NVS_BOARD
2			
3			
4			
5			
6			

EL_DIAG_EC_VVS230-2.4kWx7_8/8

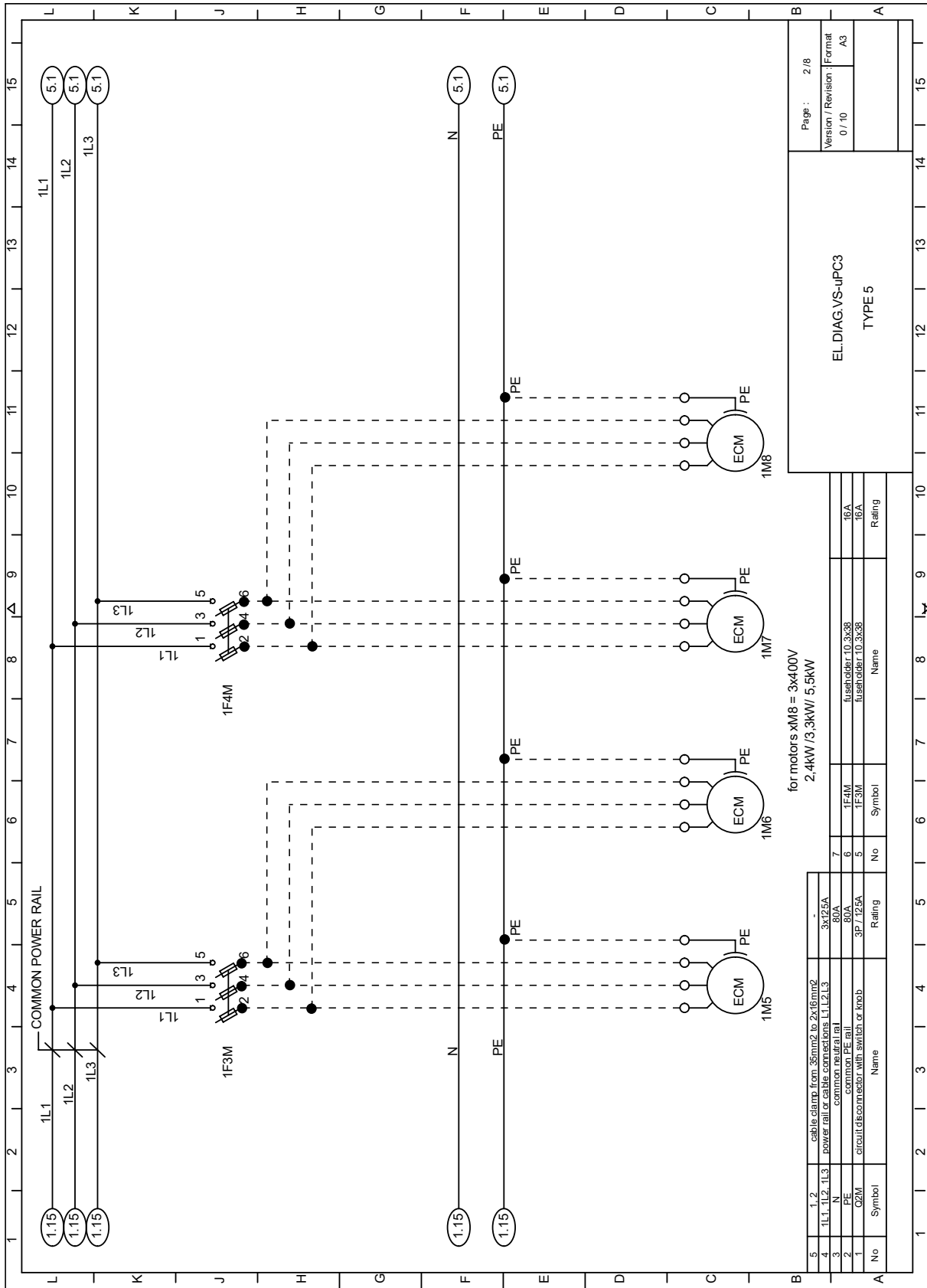


4.1.8 EC VVS300- 2.4kW x8

EL_DIAG_EC_VVS300-2.4kWx8_1/8



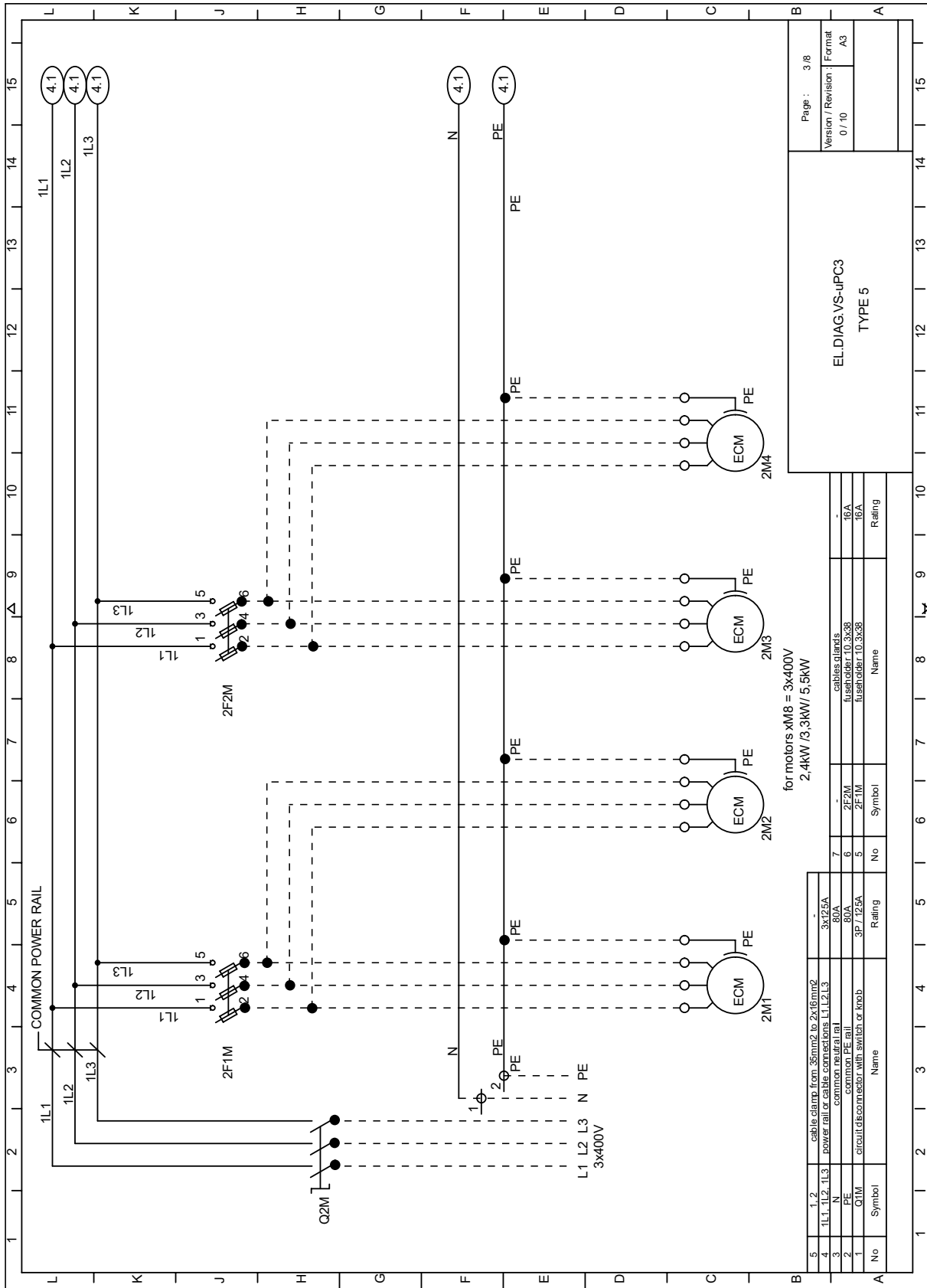
EL_DIAG_EC_VVS300-2.4kWx8_2/8



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EL DIAG.VS-uPC3
TYPE 5

EL_DIAG_EC_VVS300-2.4kWx8 3/8

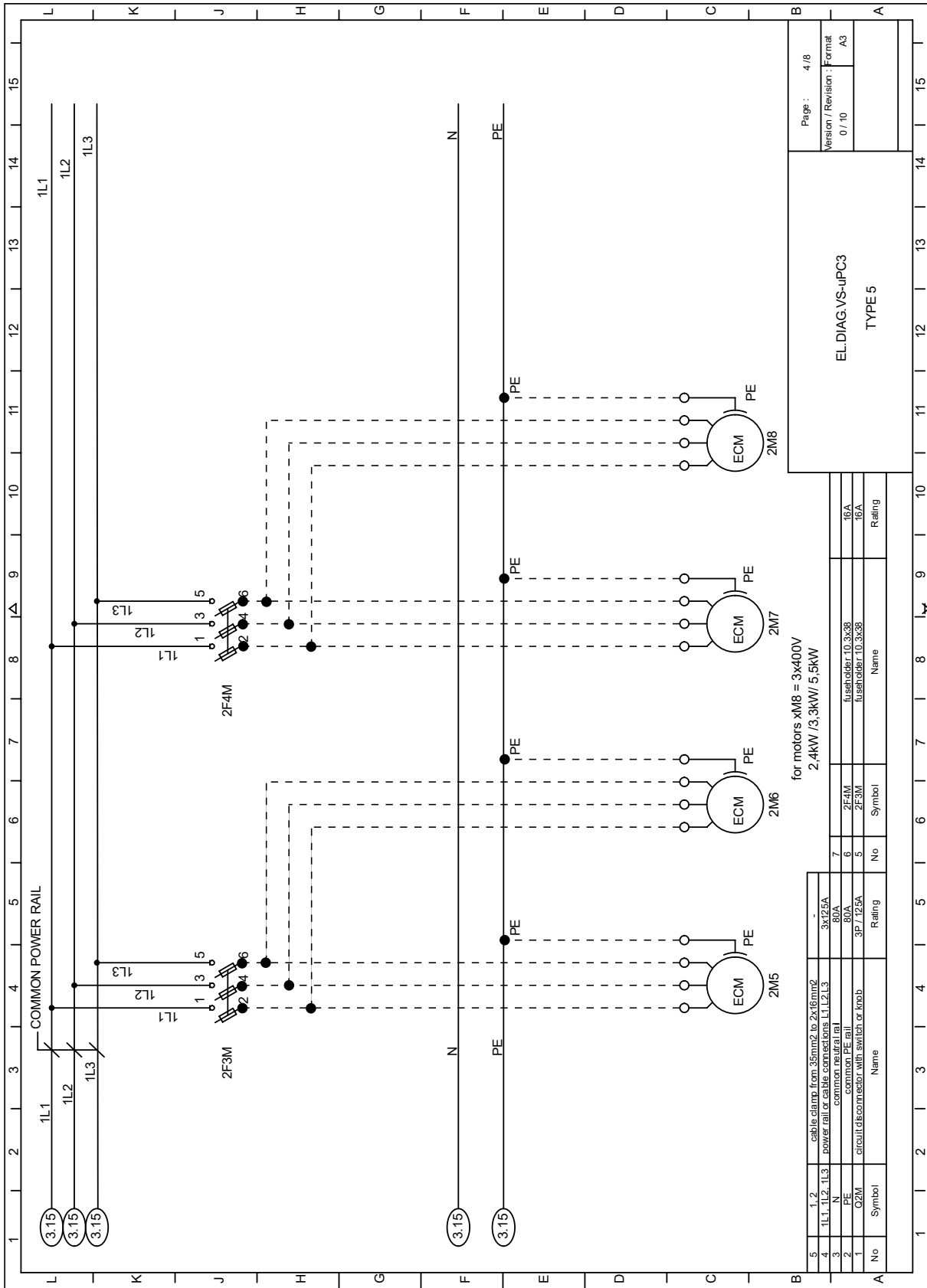


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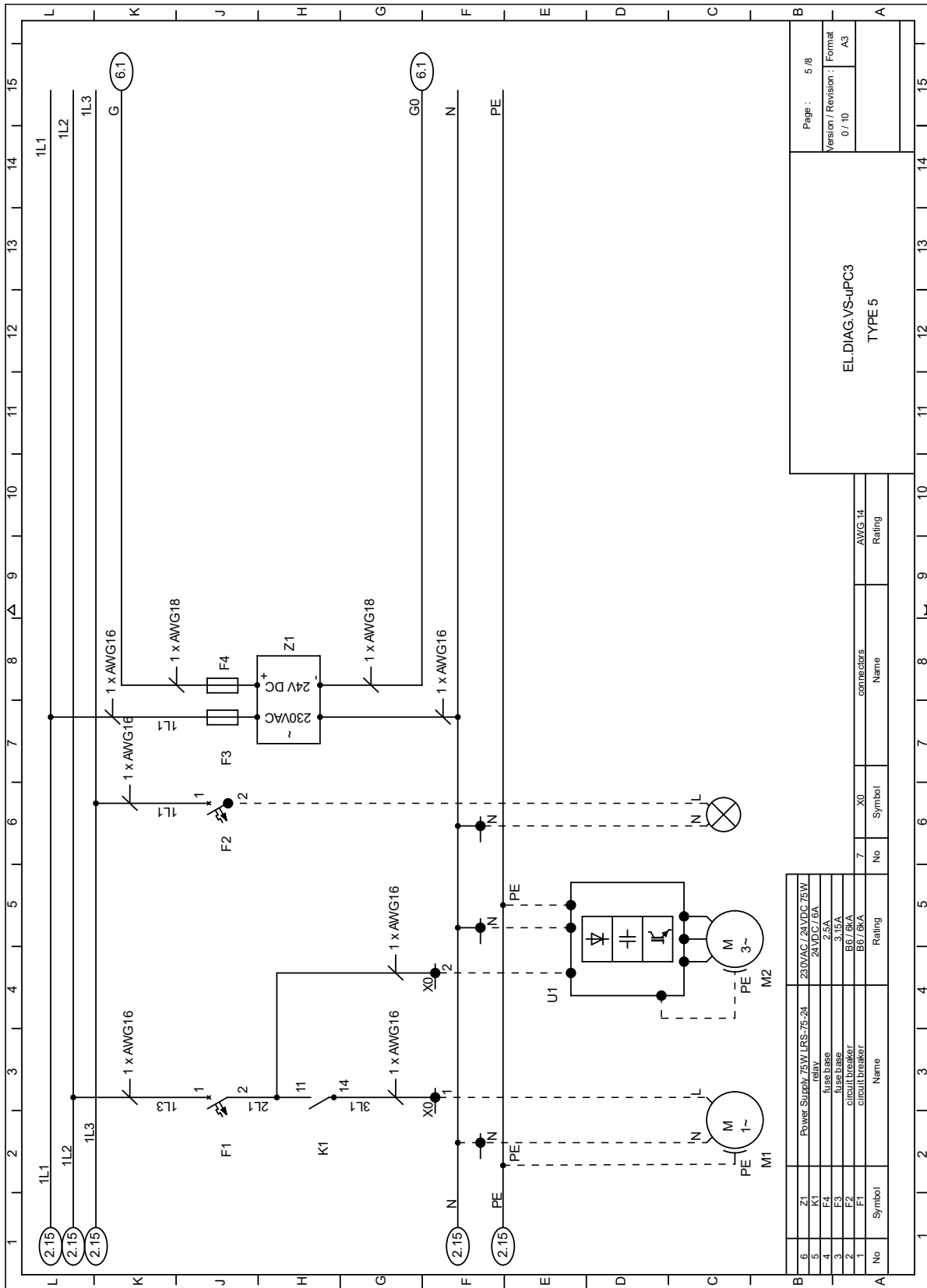
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0 / 10	A3

EL DIAG.VS-UPC3
TYPE 5

EL_DIAG_EC_VVS300-2.4kWx8_4/8



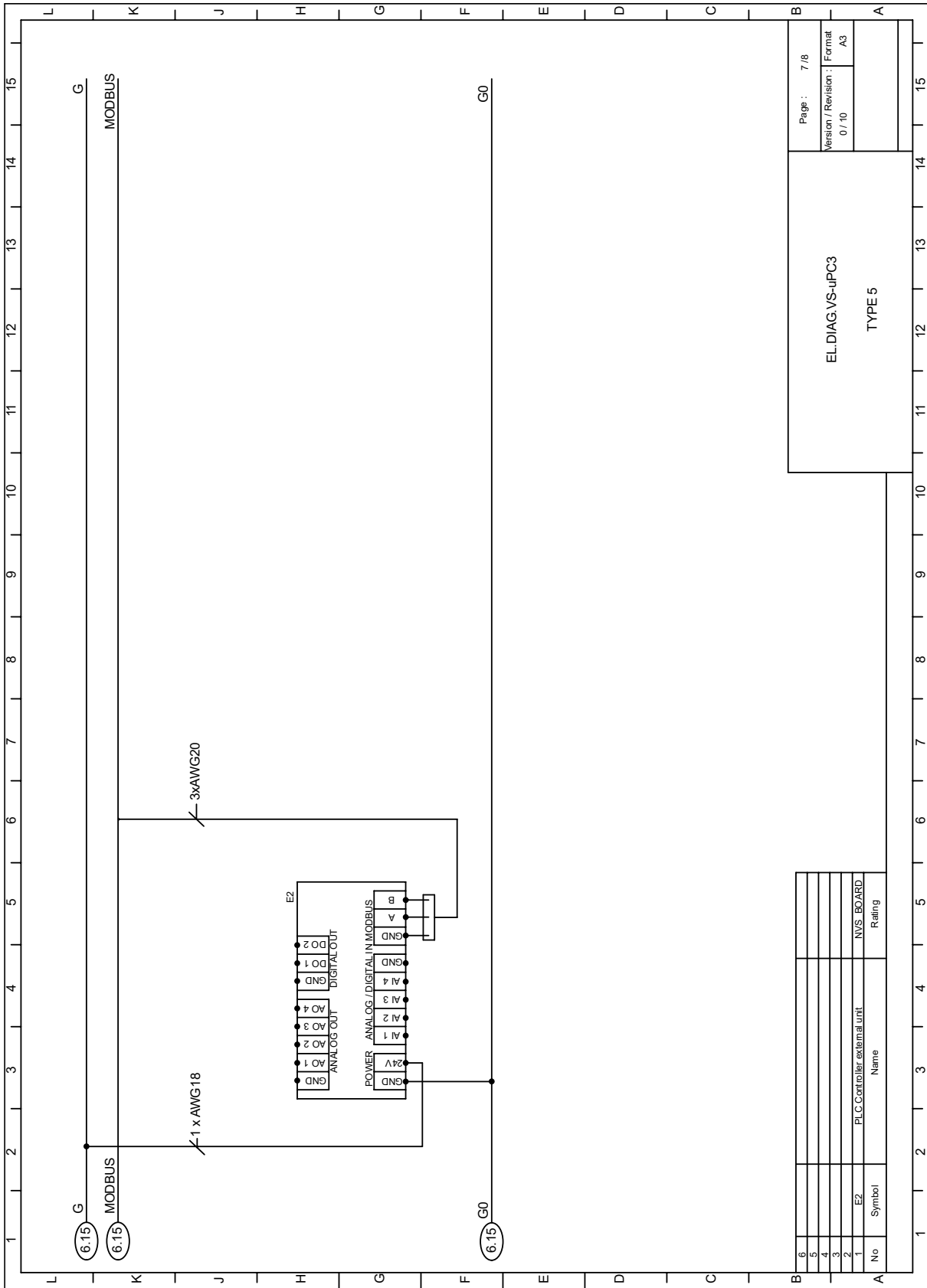
EL_DIAG_EC_VVS300-2.4kWx8_5/8



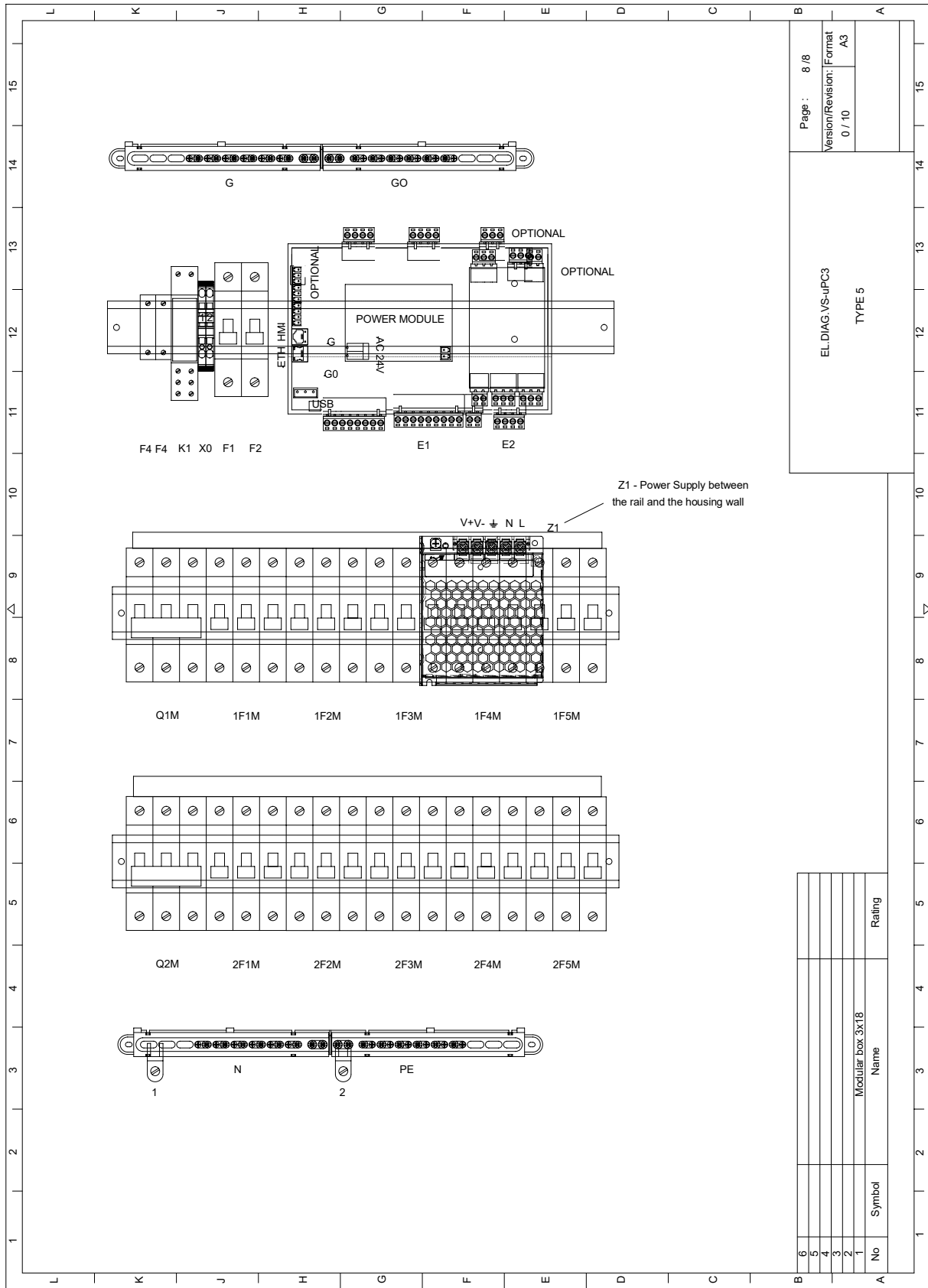
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Version / Revision :	0 / 10
Format :	A3

EL.DIAG.VS-UPC3
TYPE 5

EL_DIAG_EC_VVS300-2.4kWx8_7/8



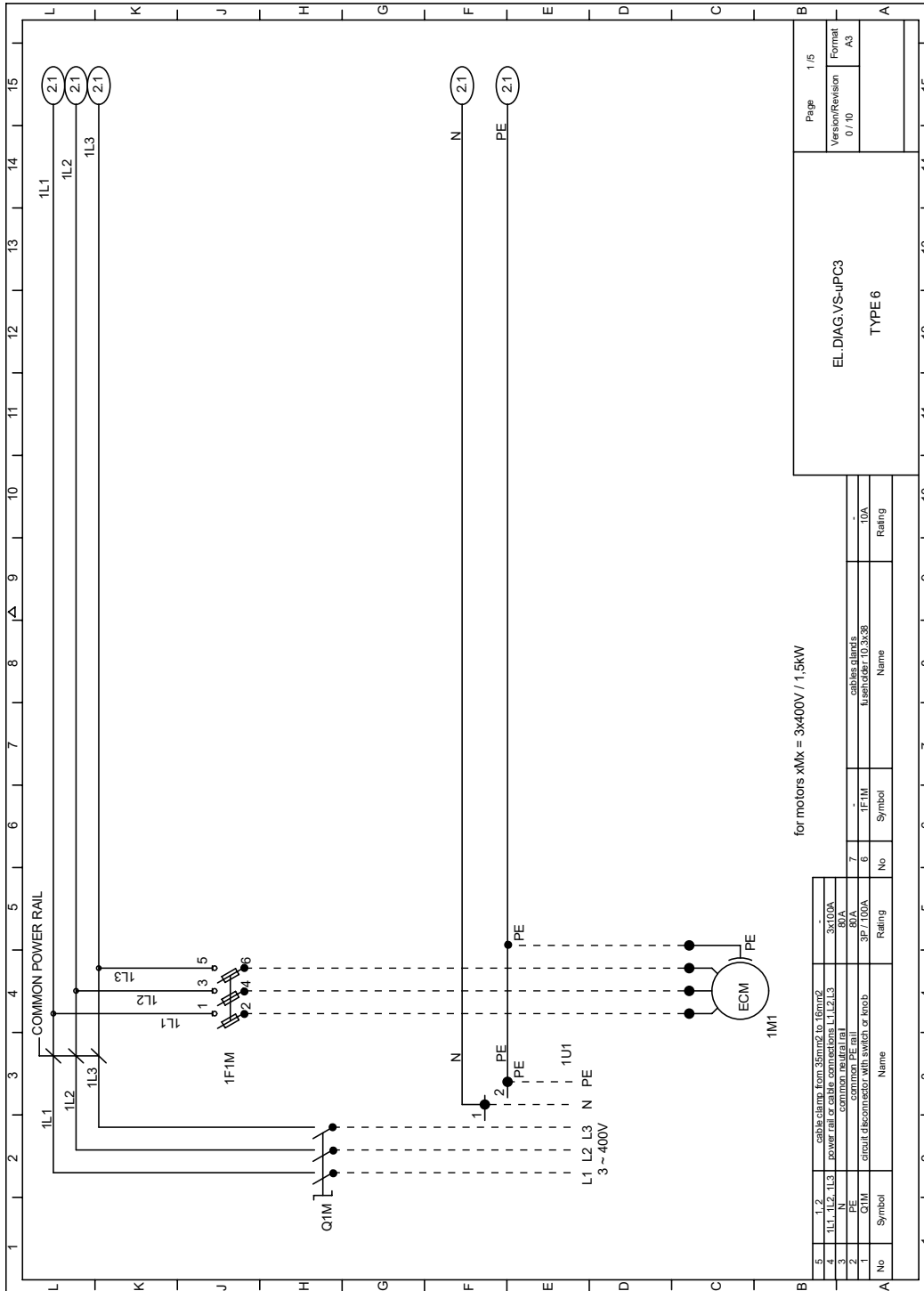
EL_DIAG_EC_VVS300-2.4kWx8_8/8



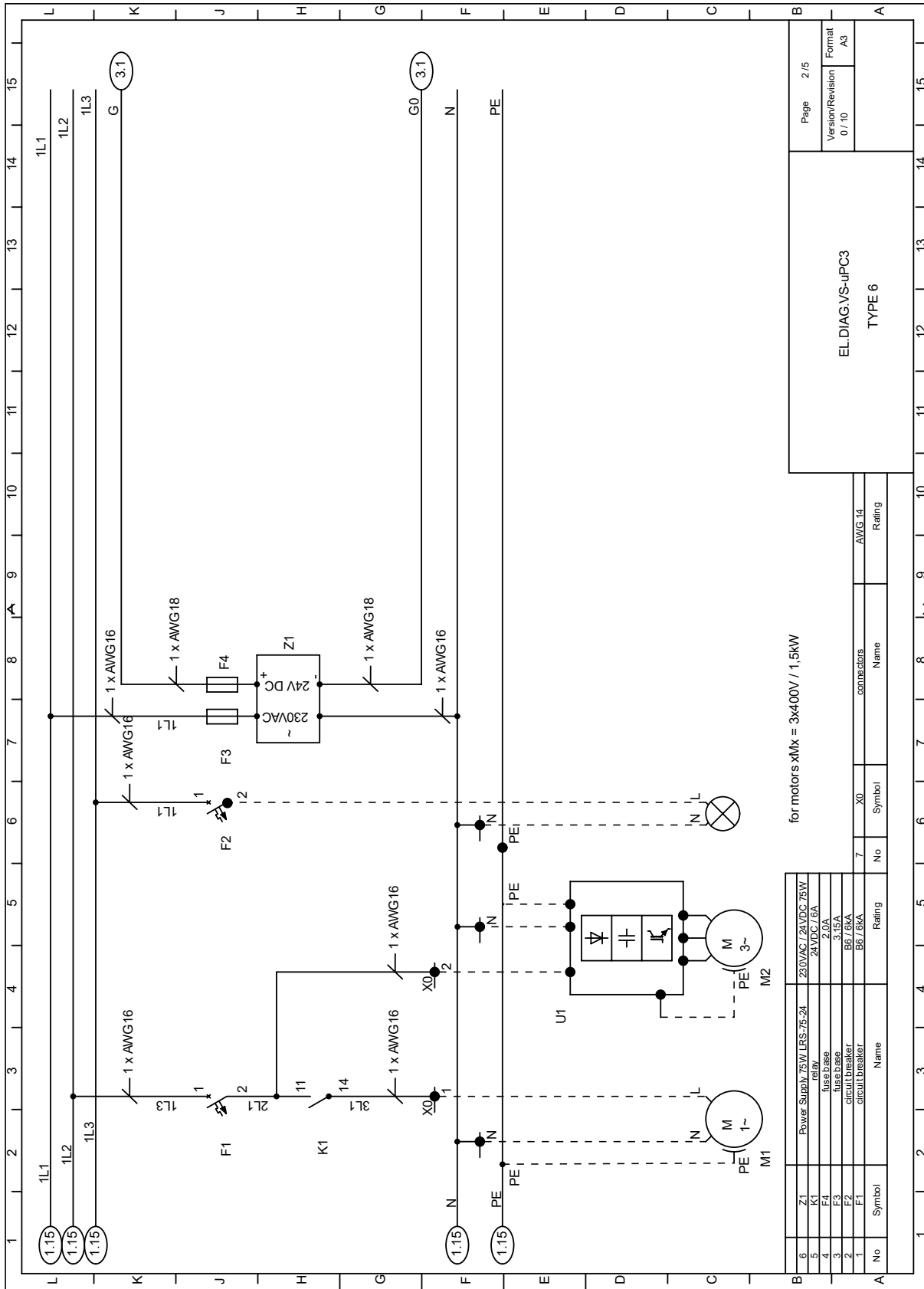
4.2 CG DIAGRAMS FOR SUPPLY UNITS

4.2.1 EC VVS030-VVS040- 2.4kW x 1, 1.5kW x 1

EL_DIAG_EC_SUPP_VVS030_040_x1_1/5



EL_DIAG_EC_SUPP_VVS030_040_x1_2/5



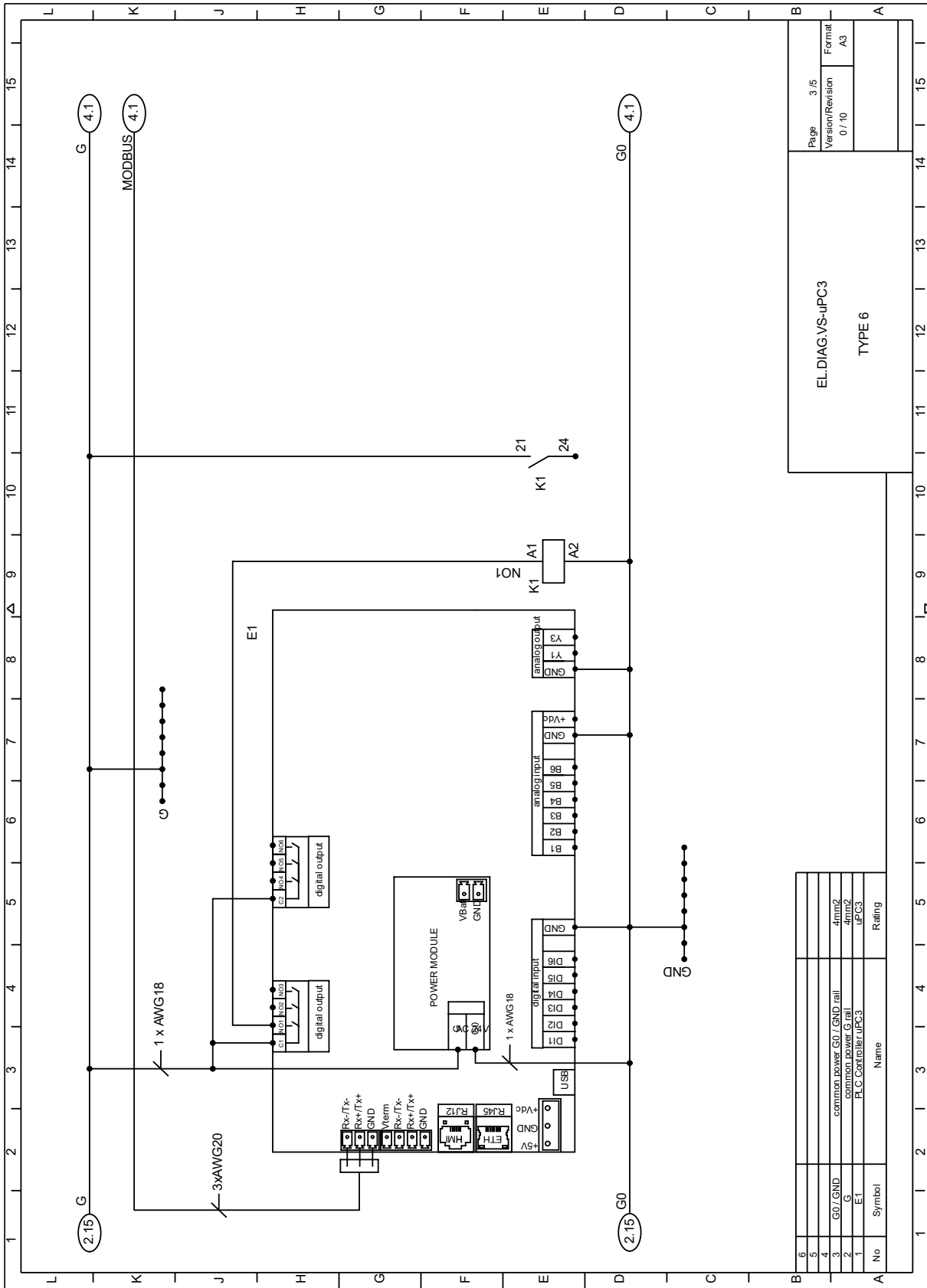
for motors xMx = 3x400V / 1,5kW

6	Z1	Power Supply 75W LRS-75-24 relay	230VAC / 24VDC 75W
5	K1	relay	24VDC / 6A
4	F4	fuse base	2.0A
3	F3	fuse base	3.15A
2	F2	circuit breaker	B67/6KA
1	F1	circuit breaker	B67/6KA

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No	Symbol	Name	Rating
7	X0	connectors	AWG-14

EL DIAG.VS-uPC3
TYPE 6

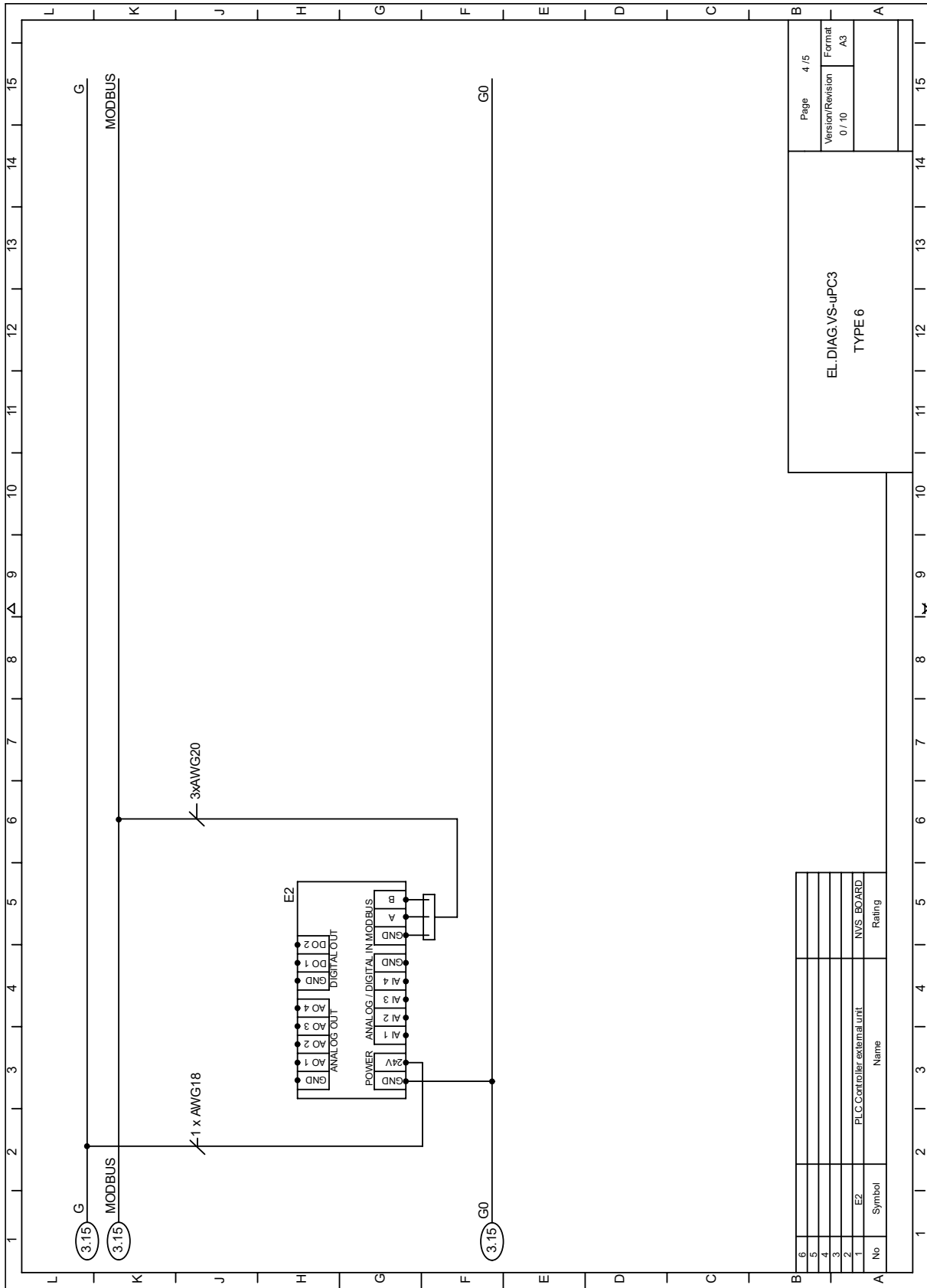


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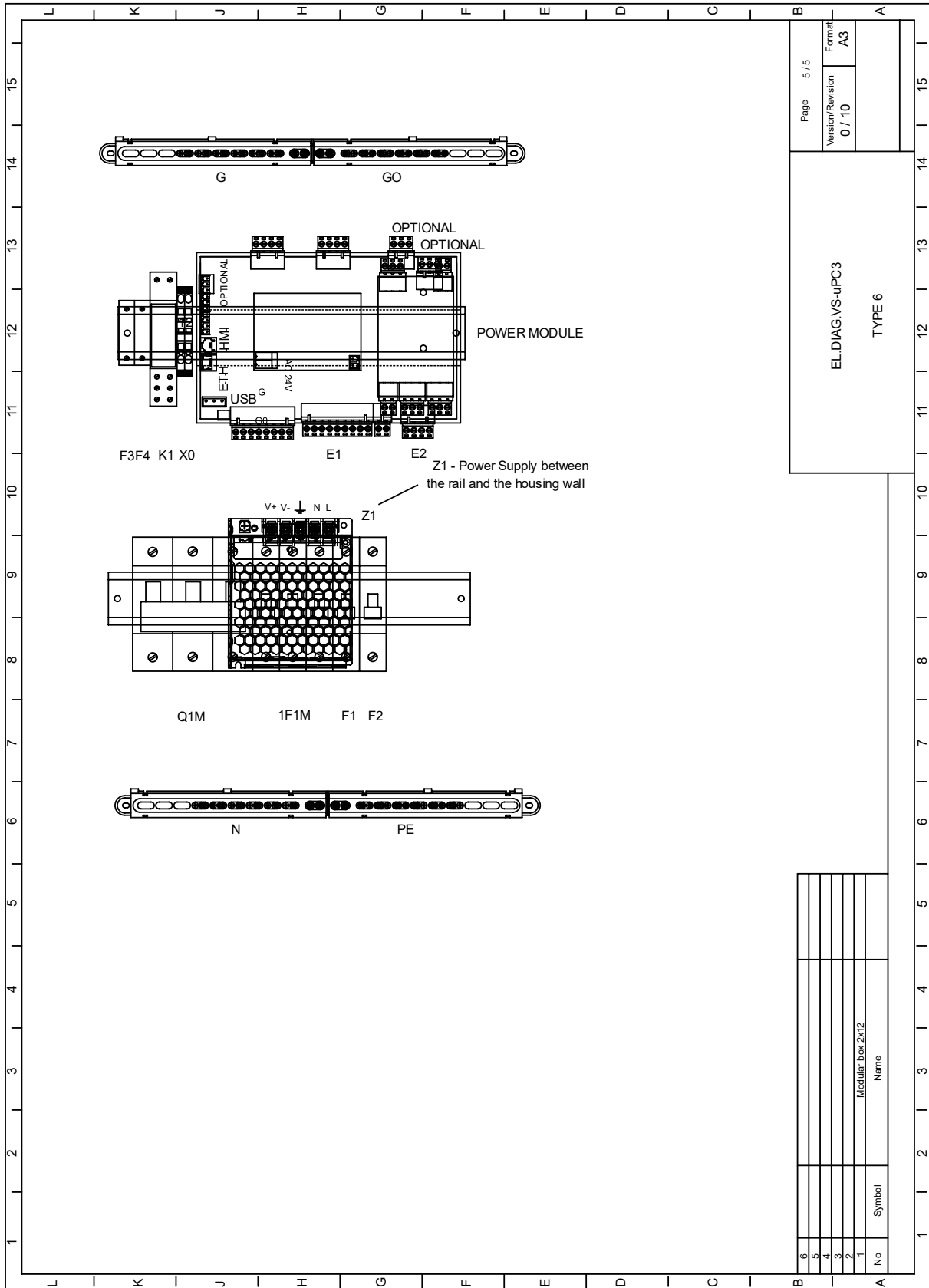
EL-DIAG-VS-uPC3
TYPE 6

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	uPC3
1			

EL_DIAG_EC_SUPP_VVS030_VVS040_x1_4/5

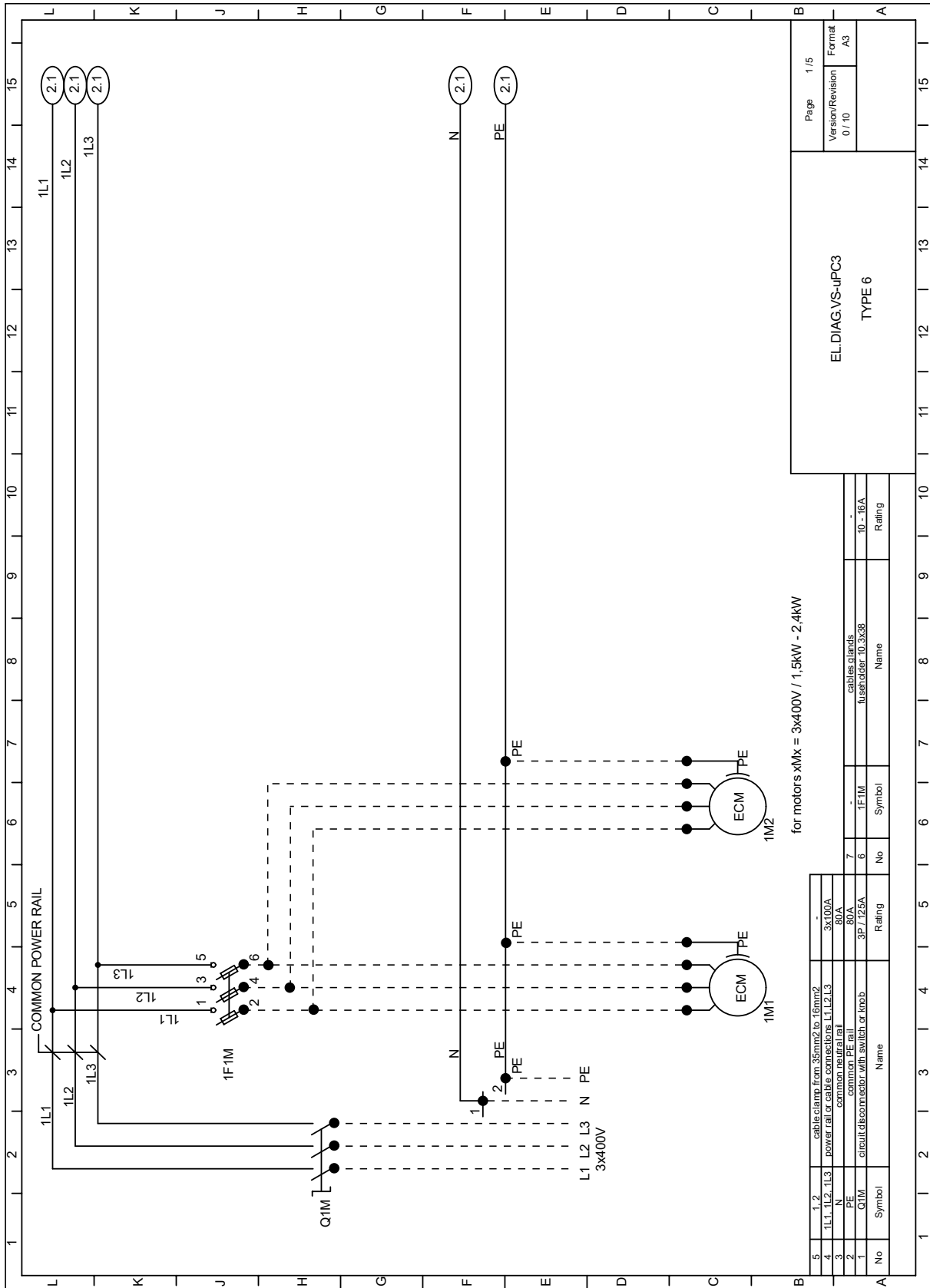


EL_DIAG_EC_SUPP_VVS030_VVS040_x1_5/5

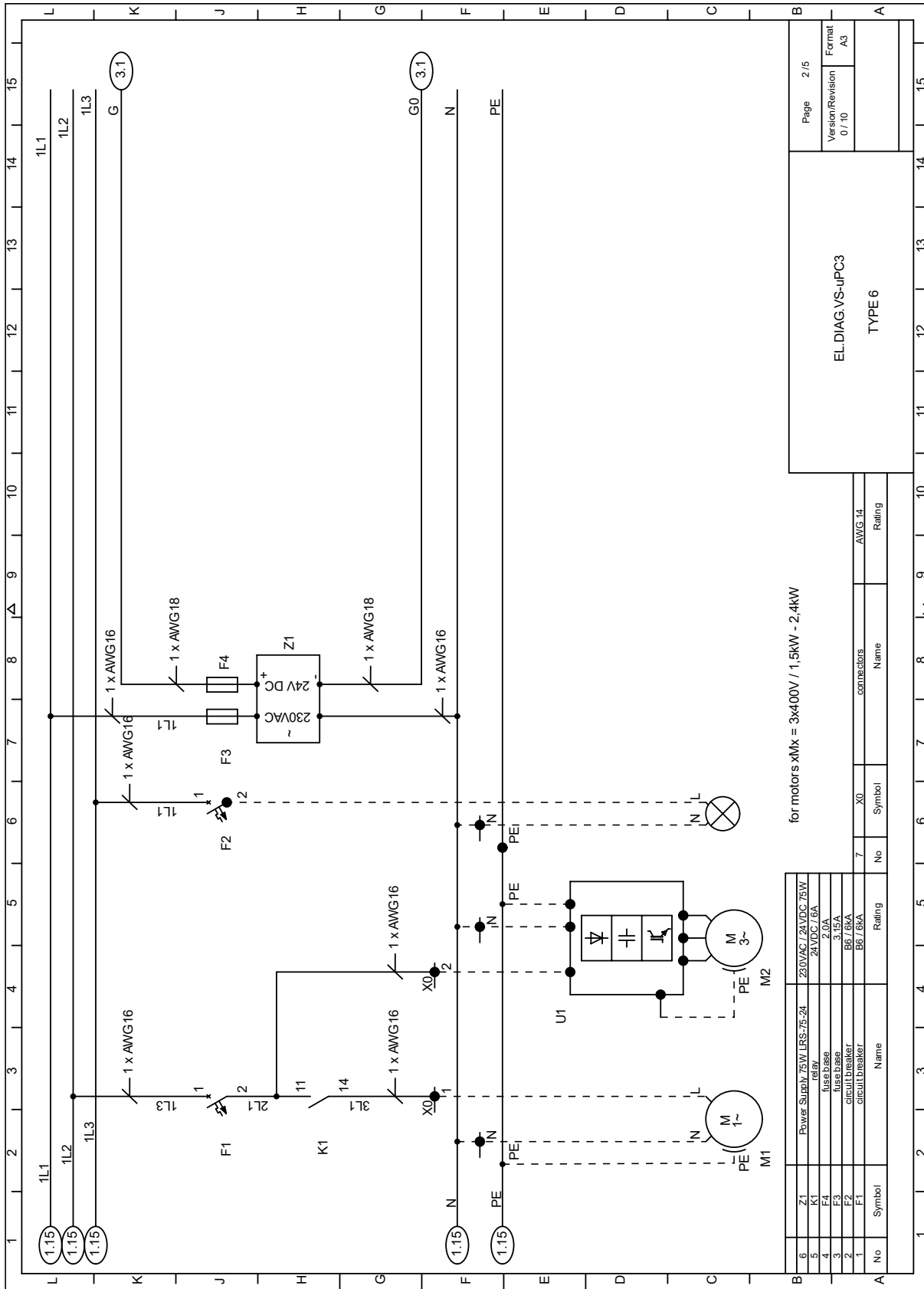


4.2.2 EC VVS055-VVS120- 2.4kW x2

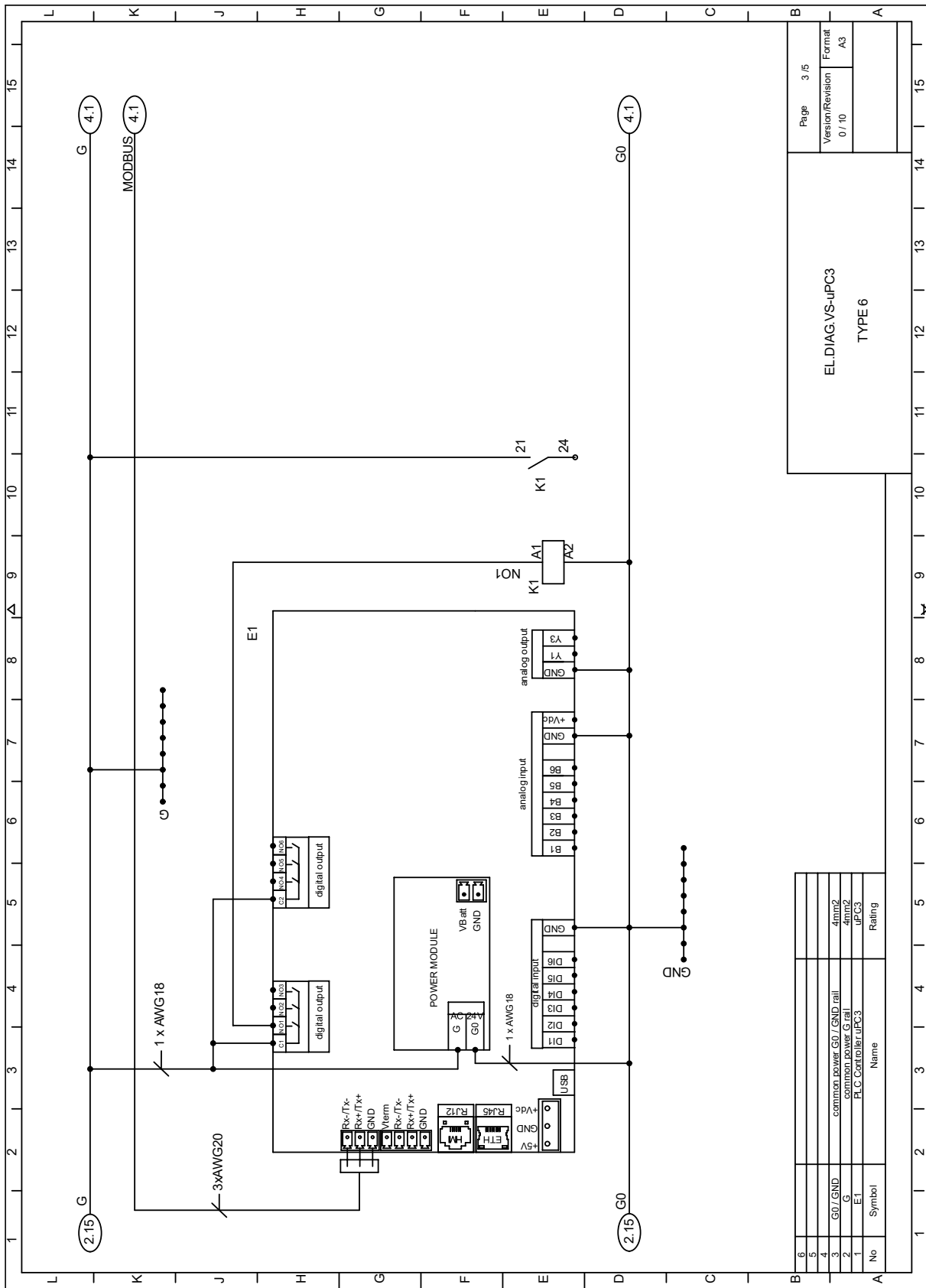
EL_DIAG_EC_SUPP_VVS055_VVS120_x2_1/5



EL_DIAG_EC_SUPP_VVS055_VVS120_x2_2/5



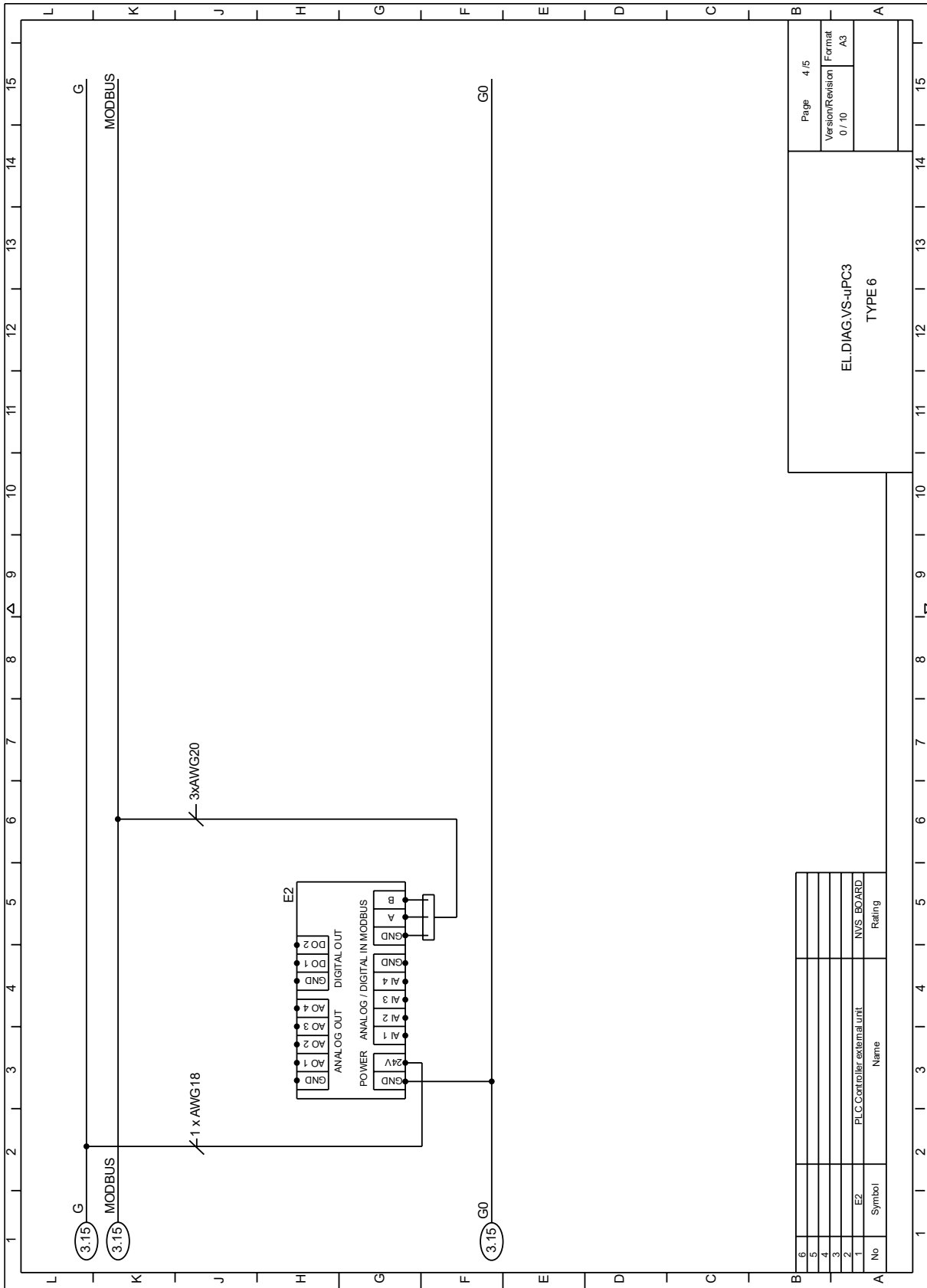
EL_DIAG_EC_SUPP_VVS055_VVS120_x2_3/5



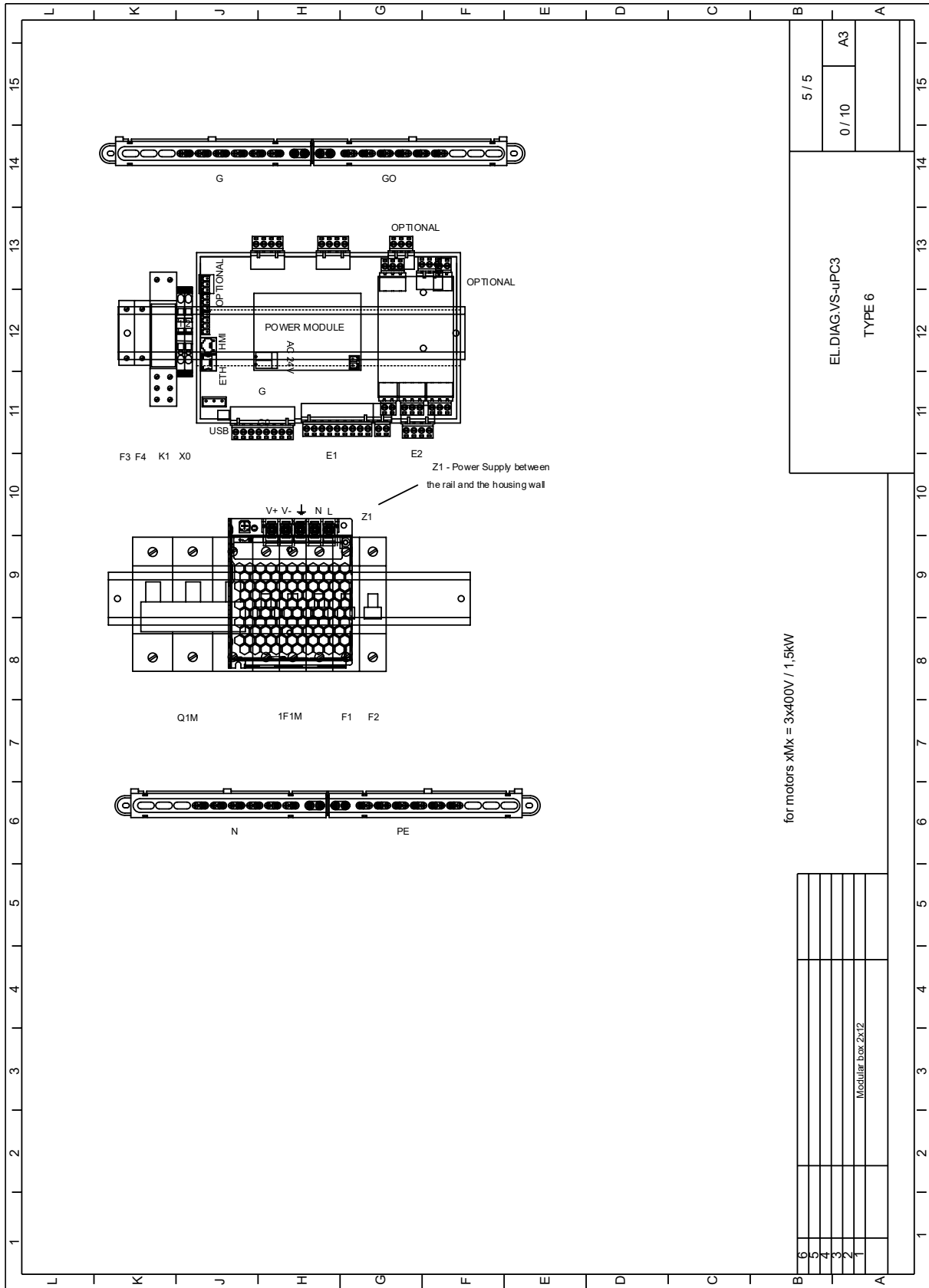
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EL DIAG.VS-uPC3
TYPE 6

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	uPC3
1			

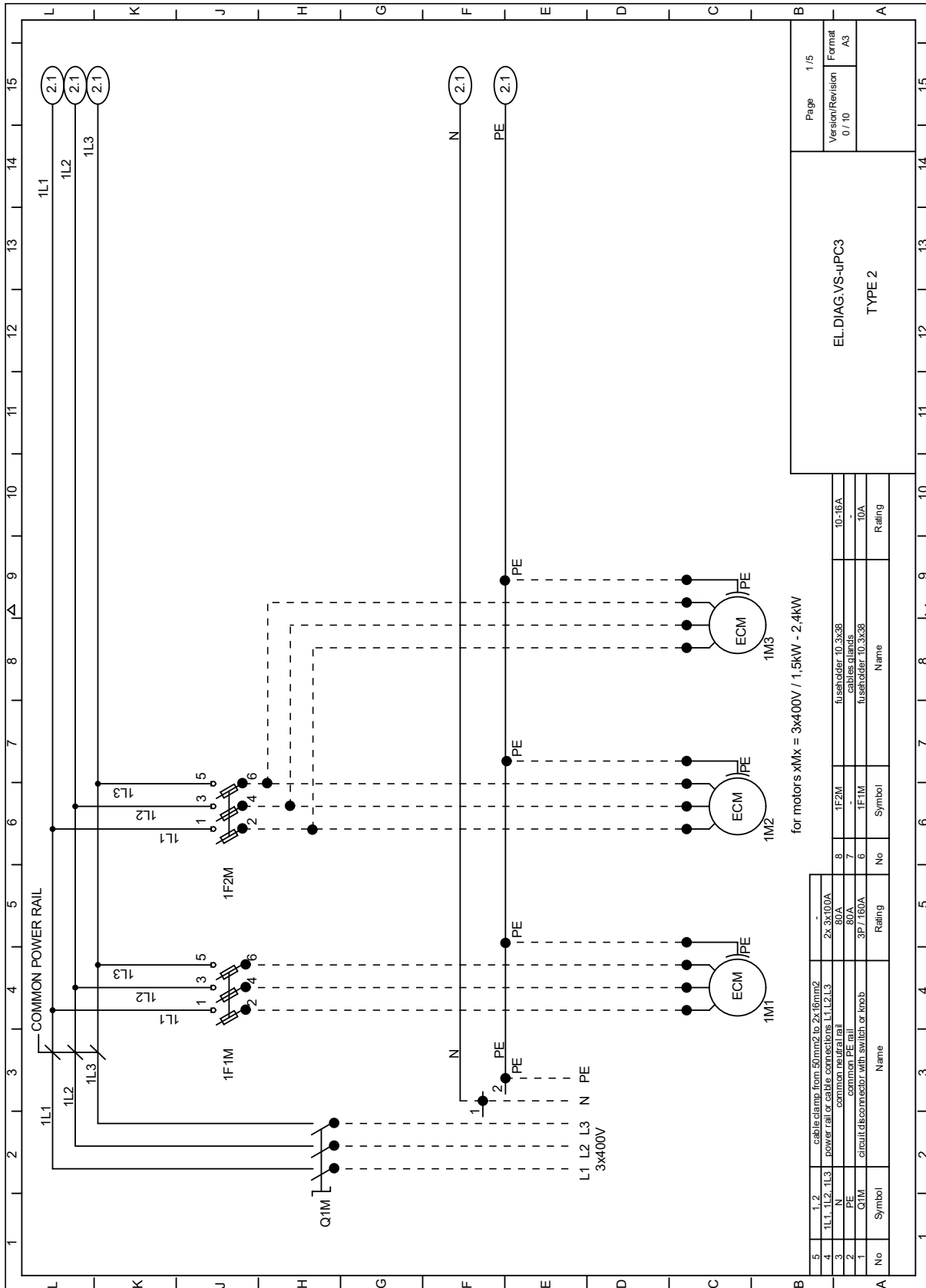


EL_DIAG_EC_SUPP_VVS055_VVS120_x2_5/5

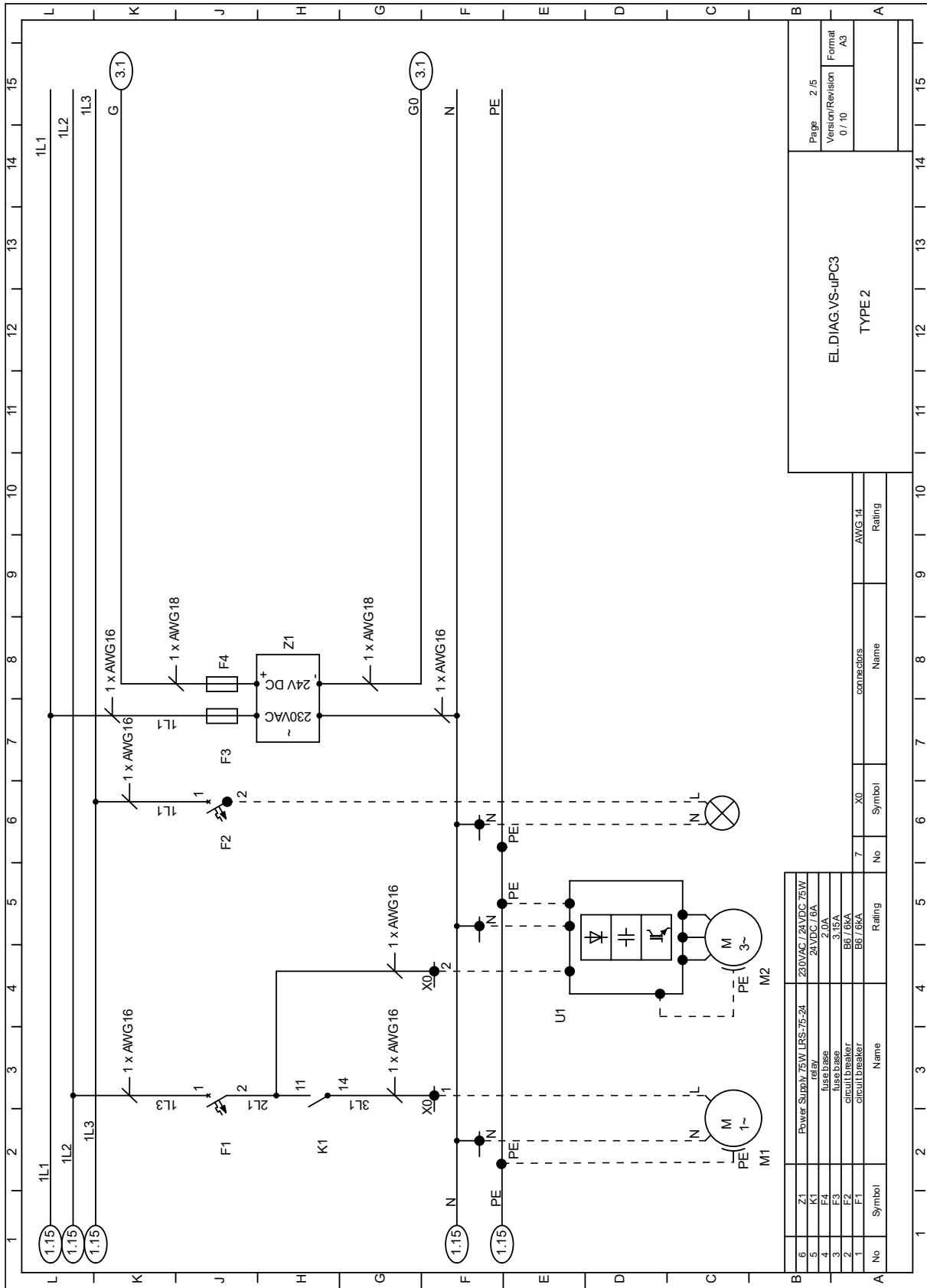


4.2.3 EC VVS075-VVS150- 2.4kW x3

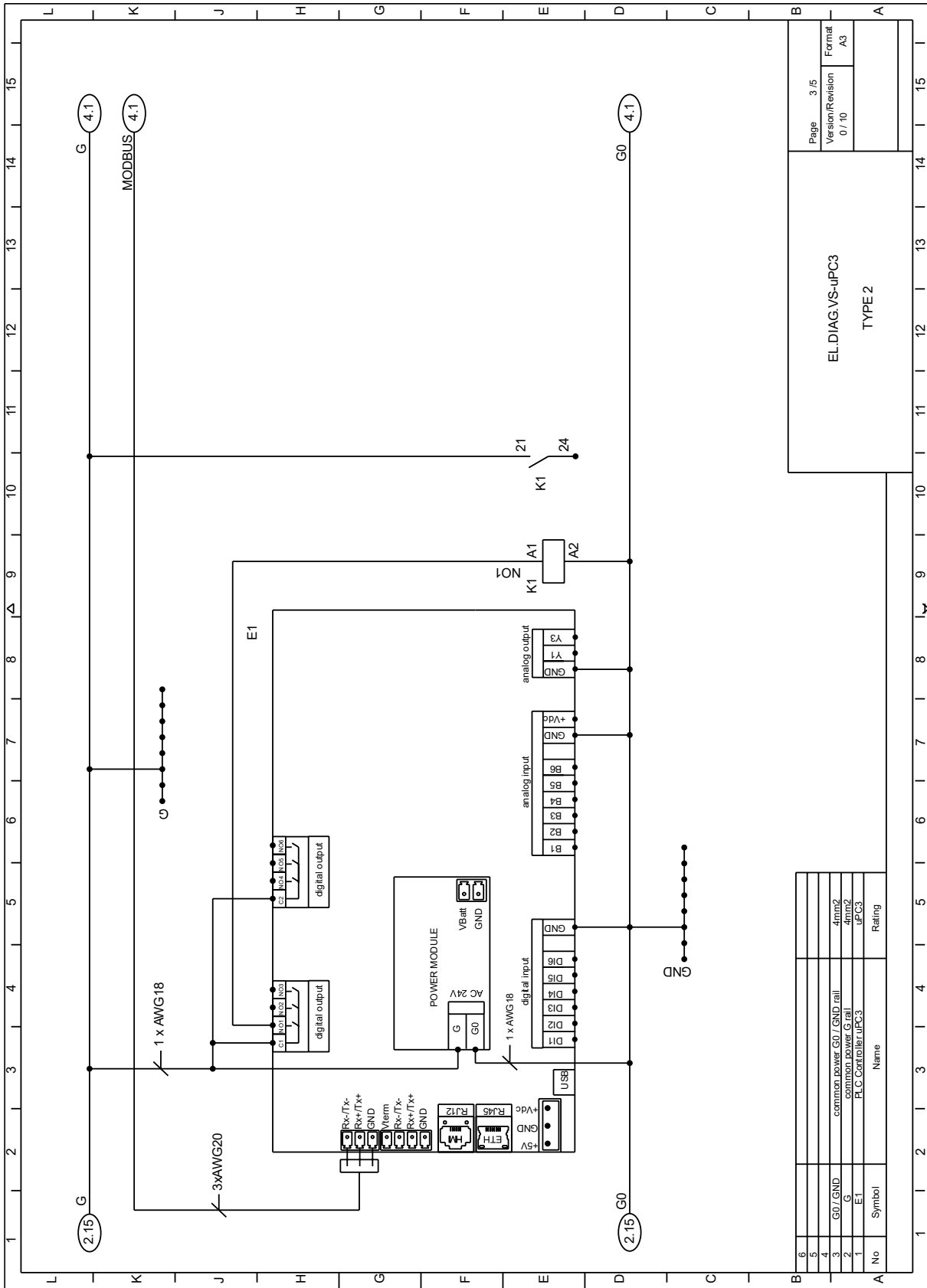
EL_DIAG_EC_SUPP_VVS075_VVS150_x3_1/5



EL_DIAG_EC_SUPP_VVS075_VVS150_x3_2/5



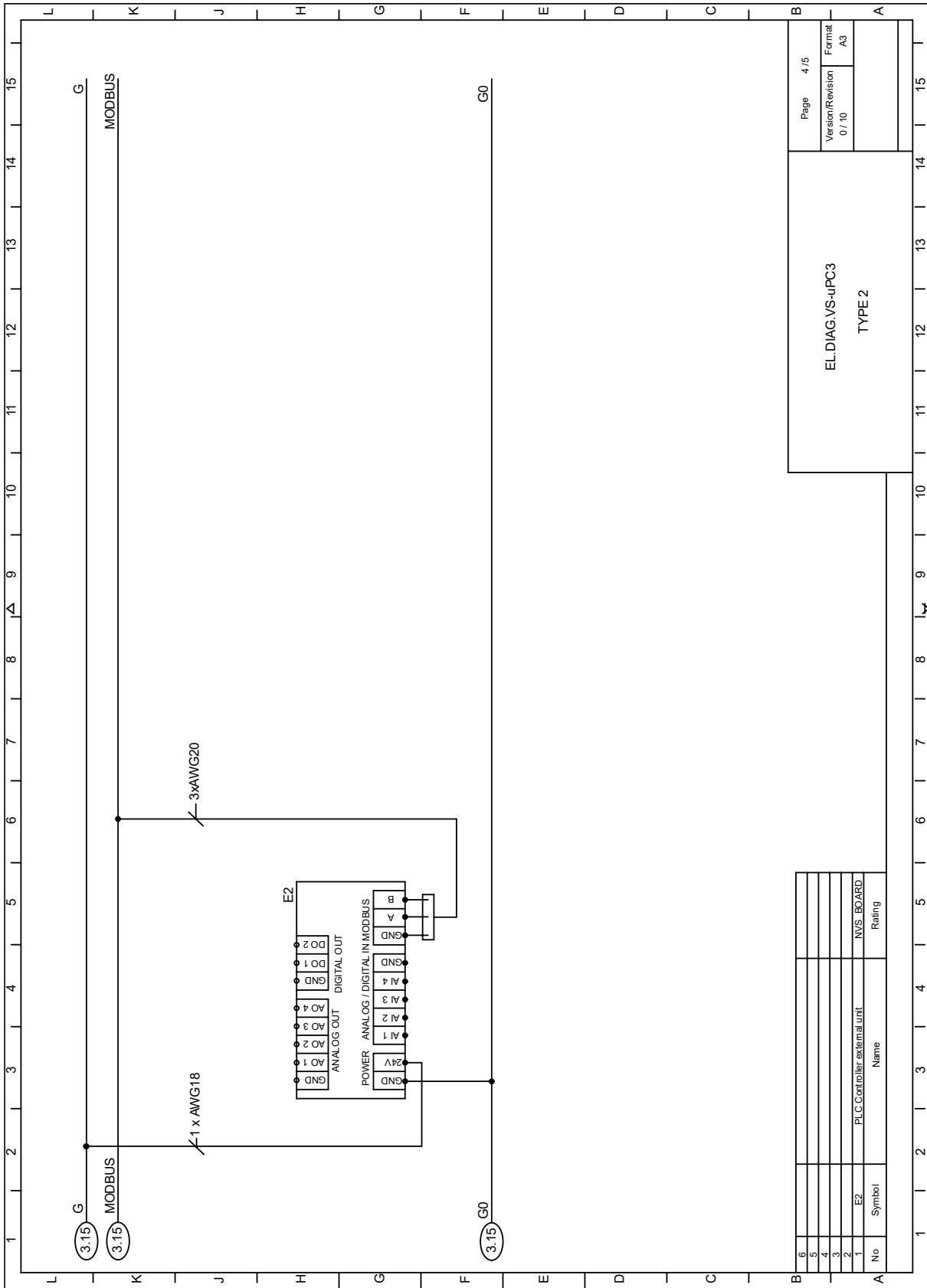
EL_DIAG_EC_SUPP_VVS075_VVS150_x3_3/5



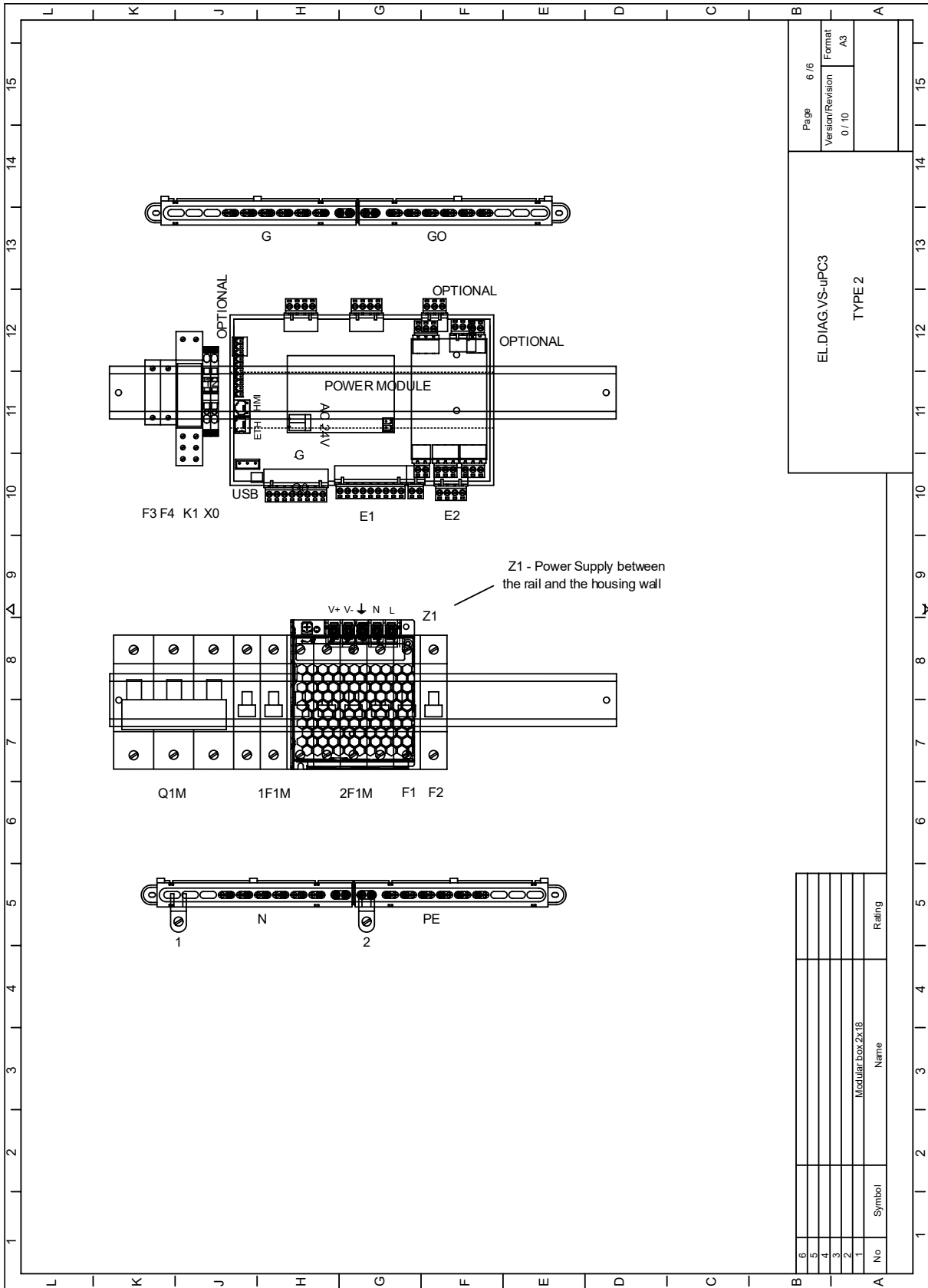
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EL DIAG VS-uPC3 TYPE 2	

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	uPC3
1			

EL_DIAG_EC_SUPP_VVS075_VVS150_x3_4/5

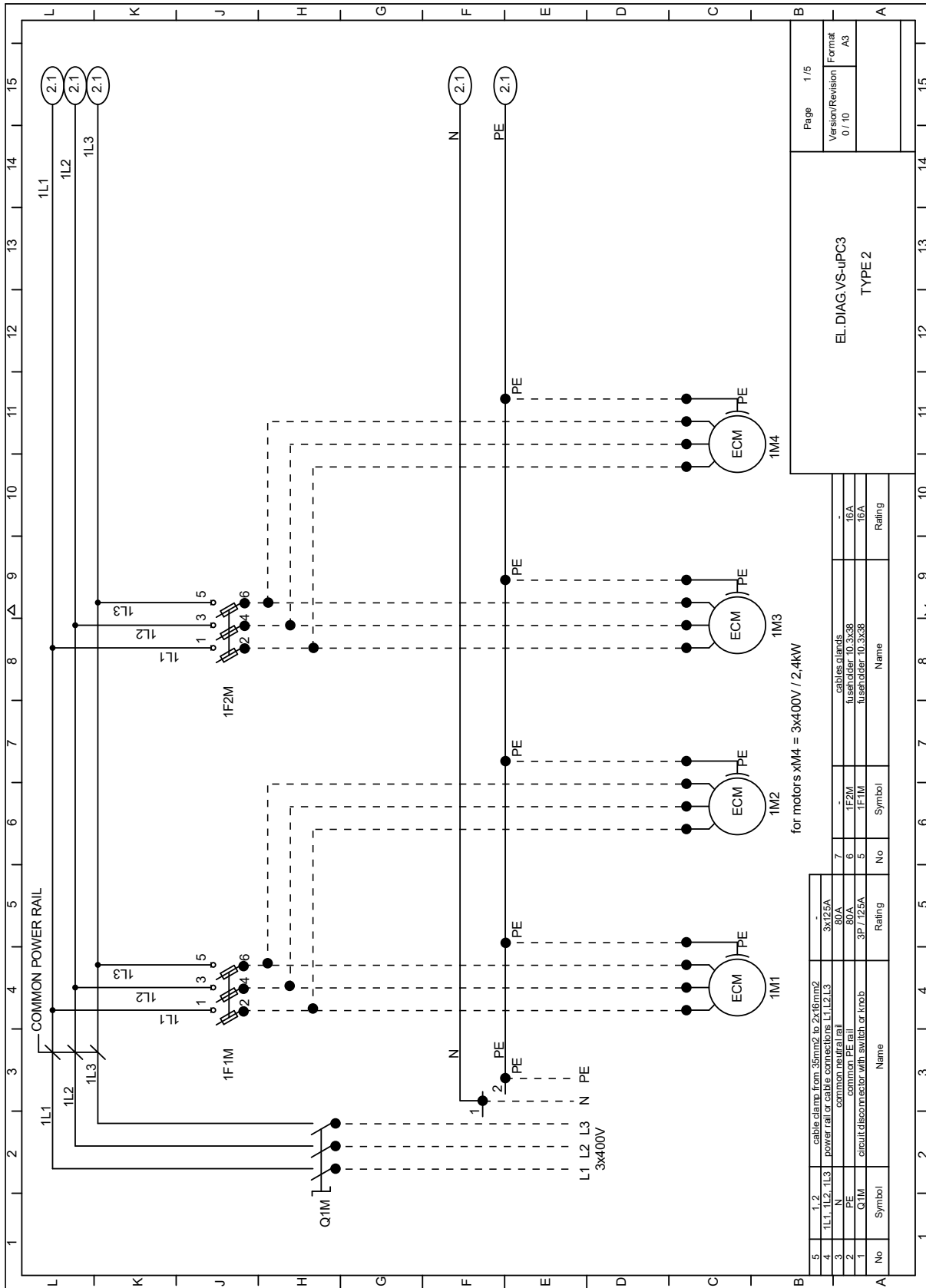


EL_DIAG_EC_SUPP_VVS075_VVS150_x3_5/5



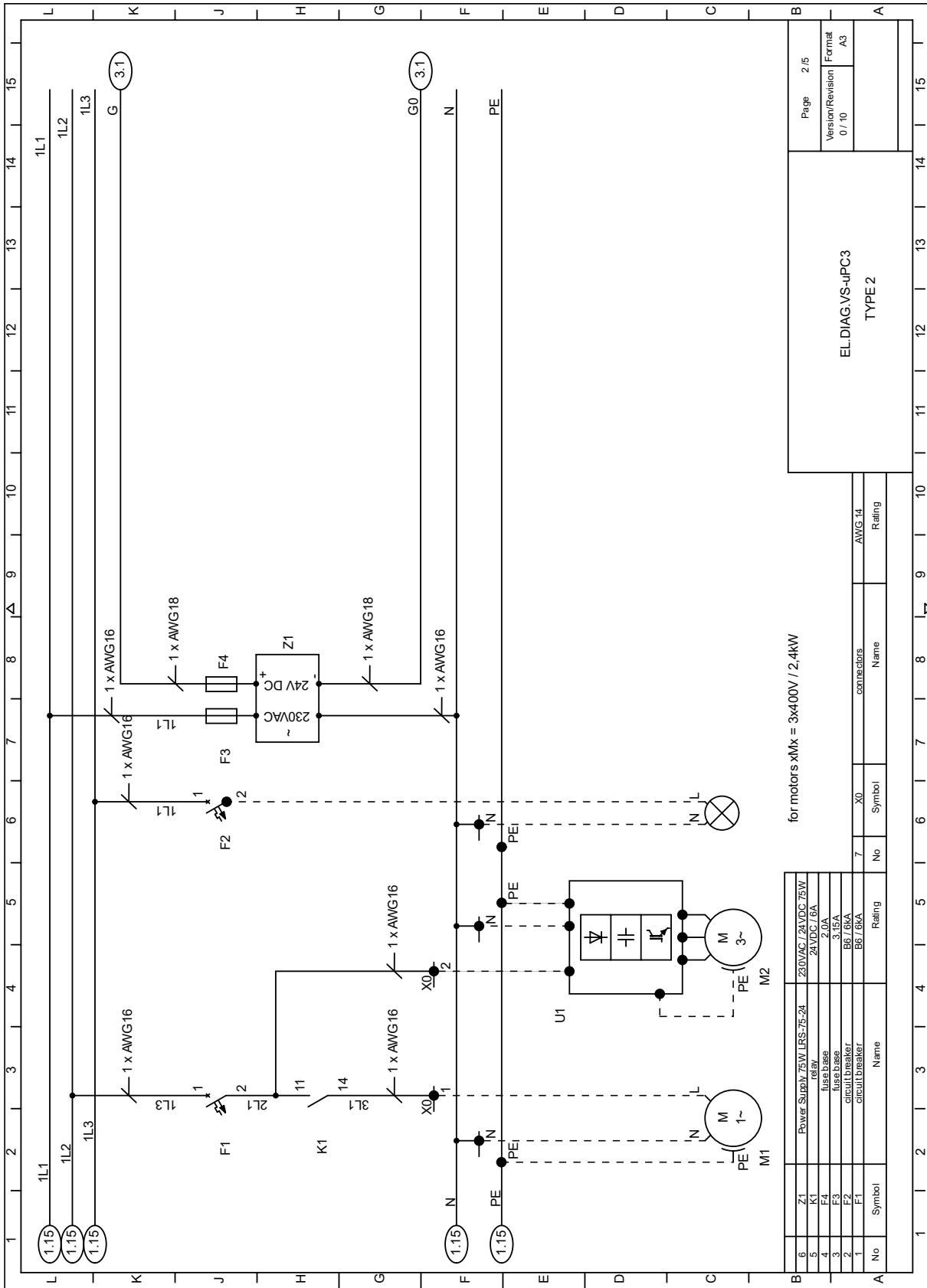
4.2.4 EC VVS150-VVS230- 2.4kW x4

EL_DIAG_EC_SUPP_VVS150_VVS230_x4_1/5

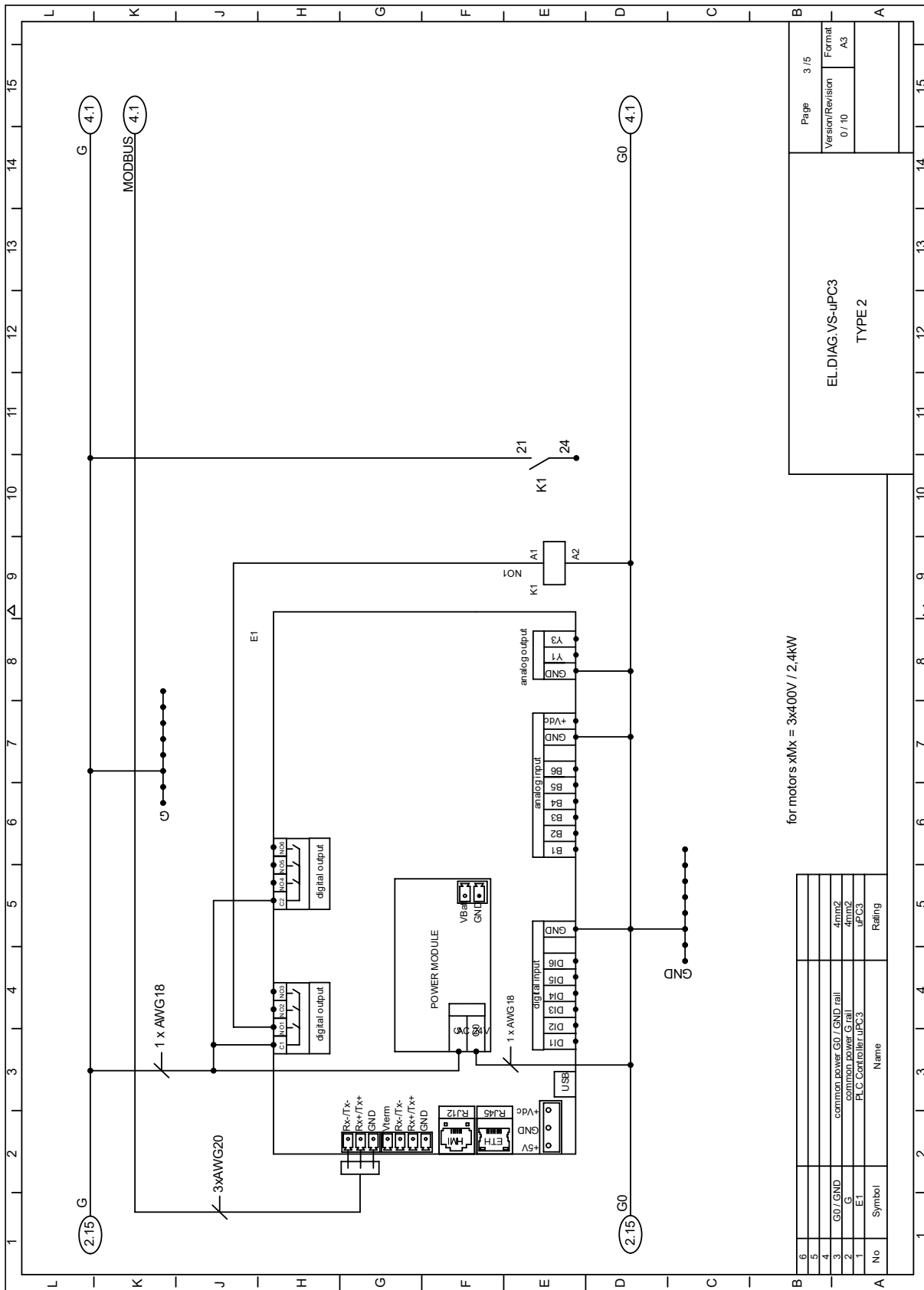


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Format		A3	
EL DIAG.VS-UPC3 TYPE 2			
No	Symbol	Name	Rating
5	1, 2	cable clamp from 35mm ² to 2x(6mm ²)	-
4	1L1, 1L2, 1L3	power rail or cable connections L1, L2, L3	3x125A
3	N	common neutral rail	80A
2	PE	common PE rail	80A
1	Q1M	circuit disconnector with switch or knob	3P / 725A
7	-	cables clamps	-
6	1F2M	fuseholder 10.3x38	16A
5	1F1M	fuseholder 10.3x38	16A

EL_DIAG_EC_SUPP_VVS150_VVS230_x4_2/5



EL_DIAG_EC_SUPP_VVS150_VVS230_x4_3/5

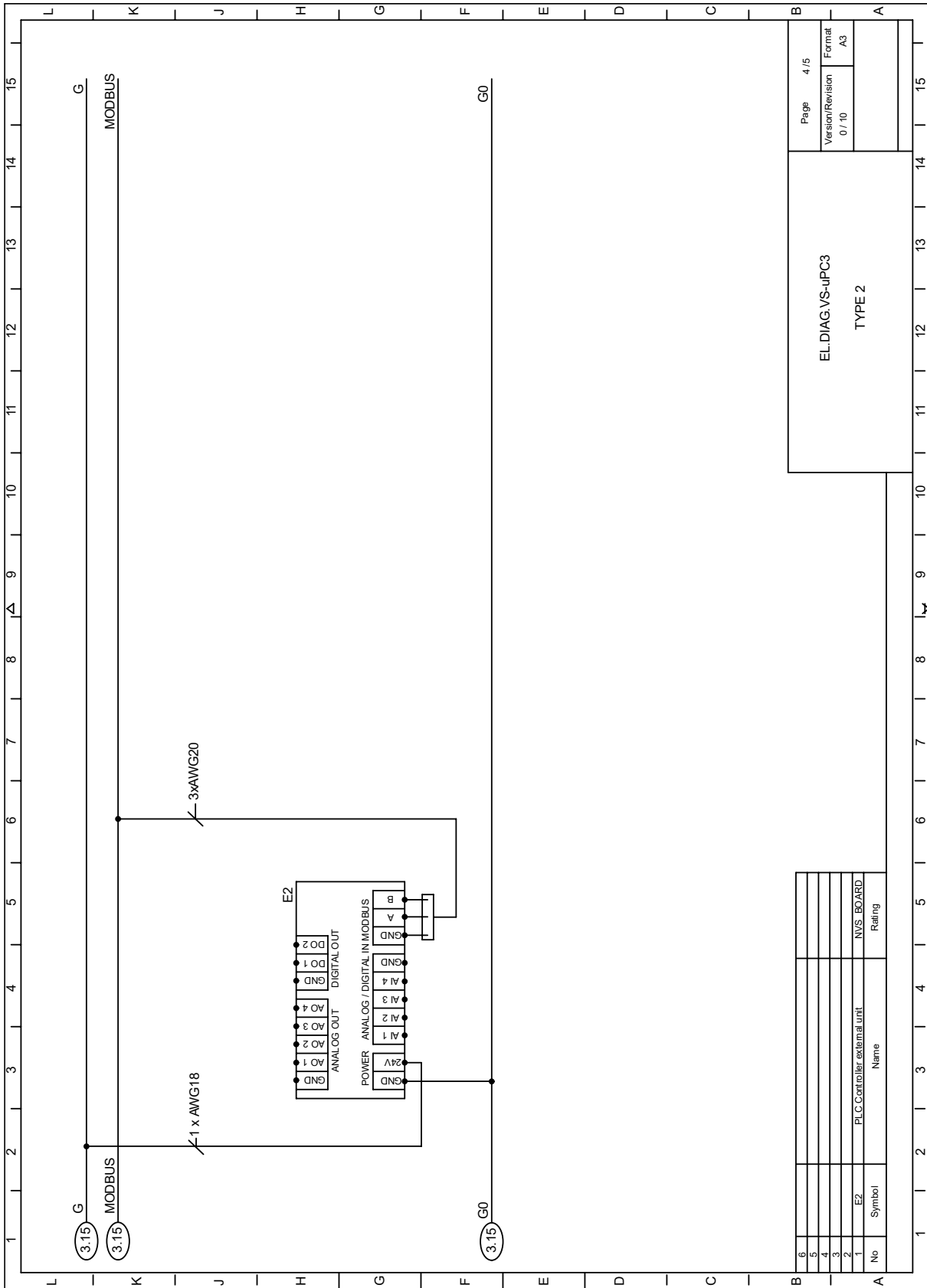


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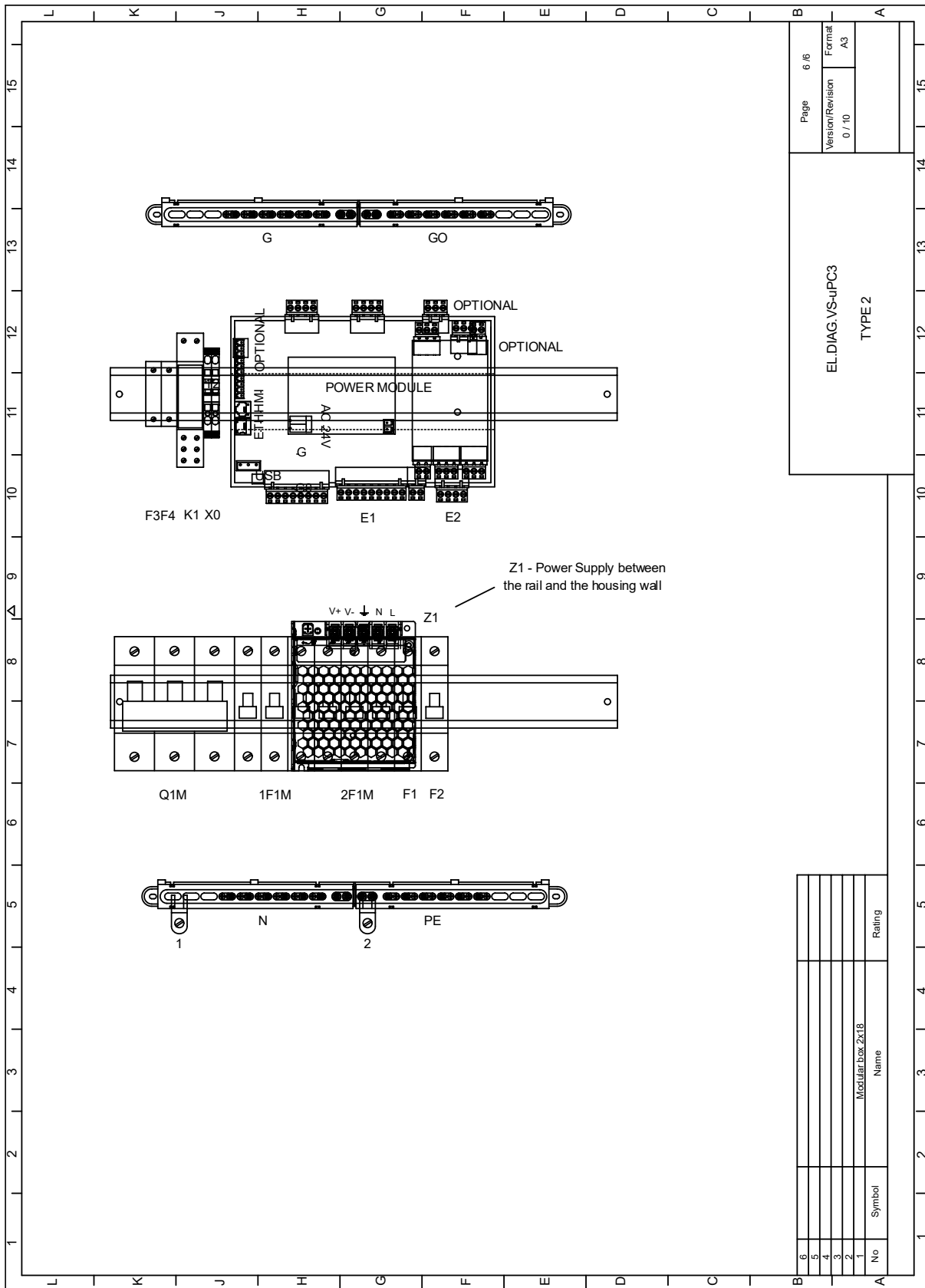
EL DIAG. VS-uPC3
TYPE 2

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	uPC3

EL_DIAG_EC_SUPP_VVS150_VVS230_x4_4/5



EL_DIAG_EC_SUPP_VVS150_VVS230_x4_5/5



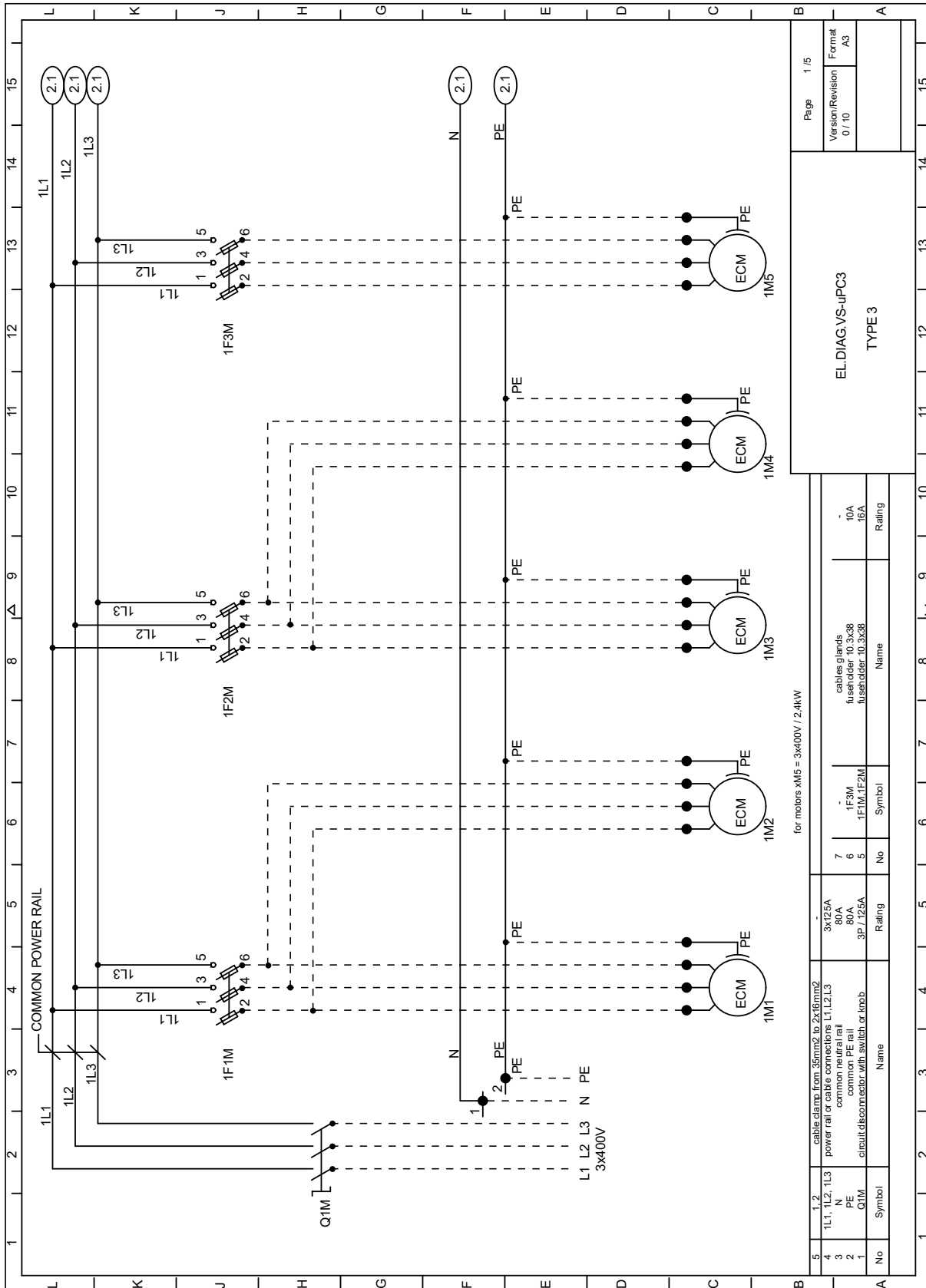
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EL DIAG. VS-uPC3
TYPE 2

No	Symbol	Name	Rating
1		Modular box 2x18	
2			
3			
4			
5			

4.2.5 EC VVS180-VVS300- 2.4kW x5

EL_DIAG_EC_SUPP_VVS180_VVS300_x5_1/5



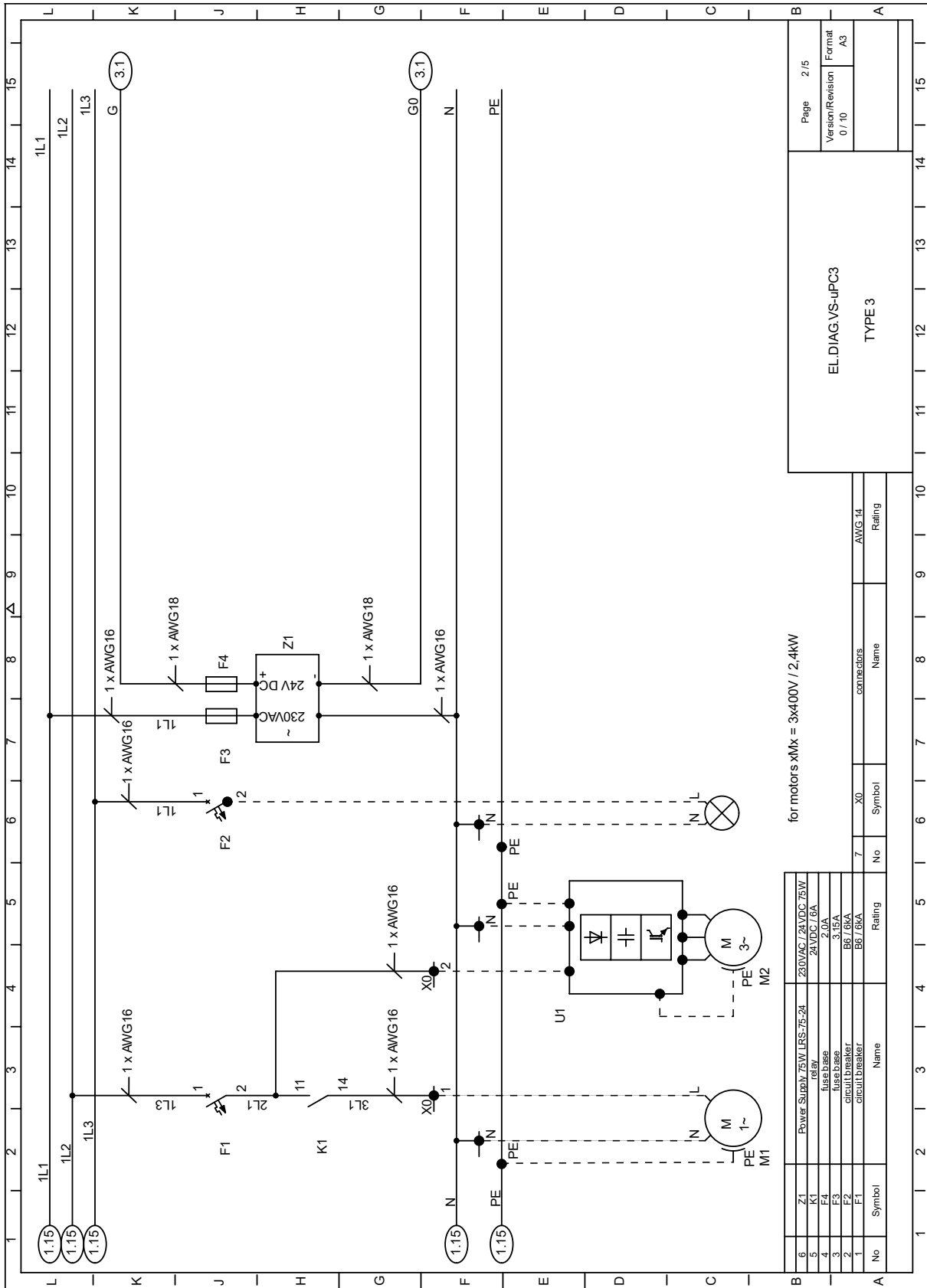
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ELDIAG-VS-uPC3 TYPE 3	

for motors xM5 = 3x400V / 2.4kW

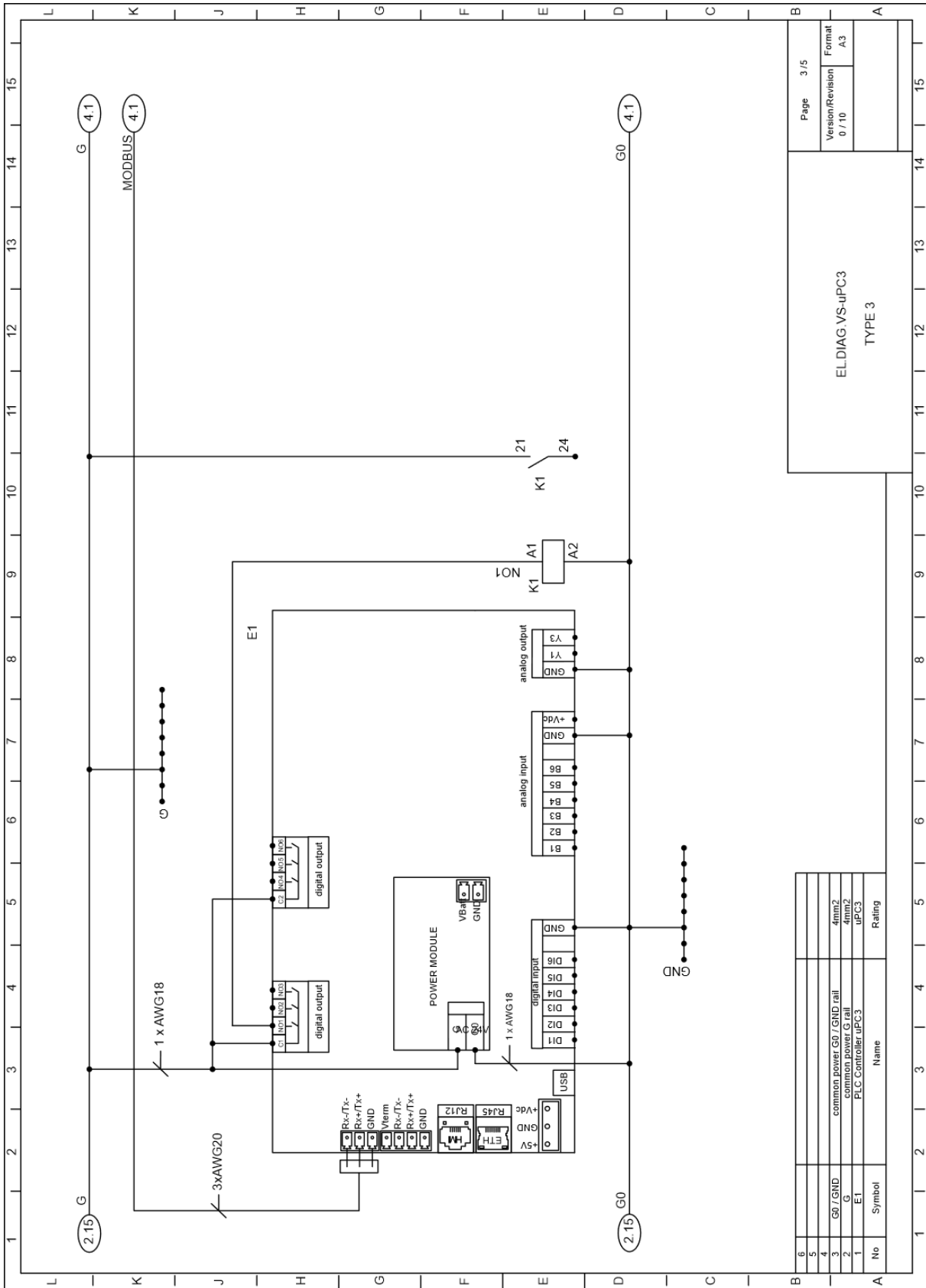
7	1F3M	cables glands	10A
6	1F1M, 1F2M	fuseholder 10.3x38	16A
5		fuseholder 10.3x38	Rating

5	1.1, 2	cable clamp from 35mm ² to 2x16mm ²	3x125A
4	1L1, 1L2, 1L3	power rail or cable connections L1,L2,L3	80A
3	N	common neutral rail	80A
2	PE	common PE rail	3P / 125A
1	Q1M	circuit disconnector with switch or knob	Rating

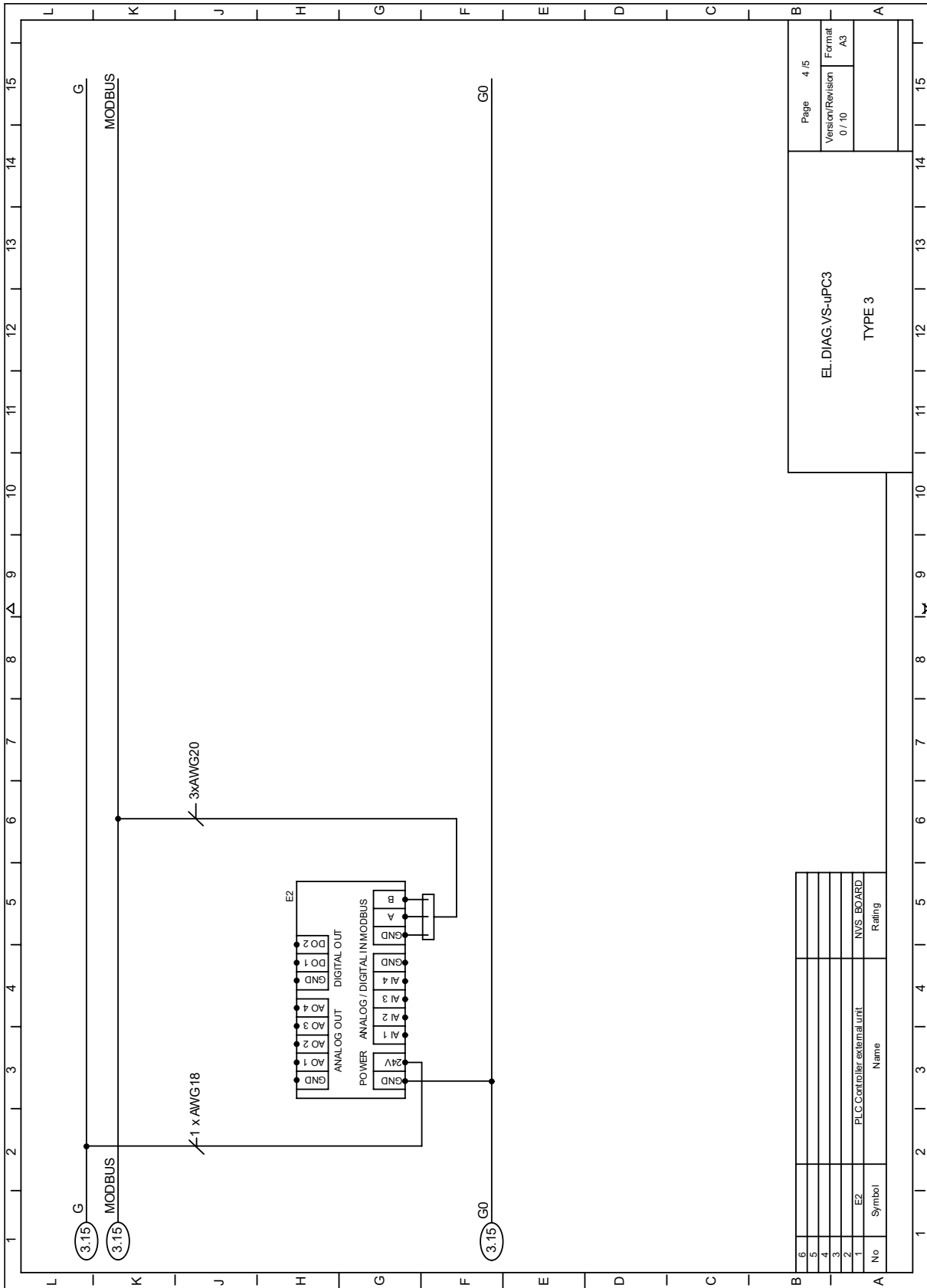
EL_DIAG_EC_SUPP_VVS180_VVS300_x5_2/5



EL_DIAG_EC_SUPP_VVS180_VVS300_x5_3/5

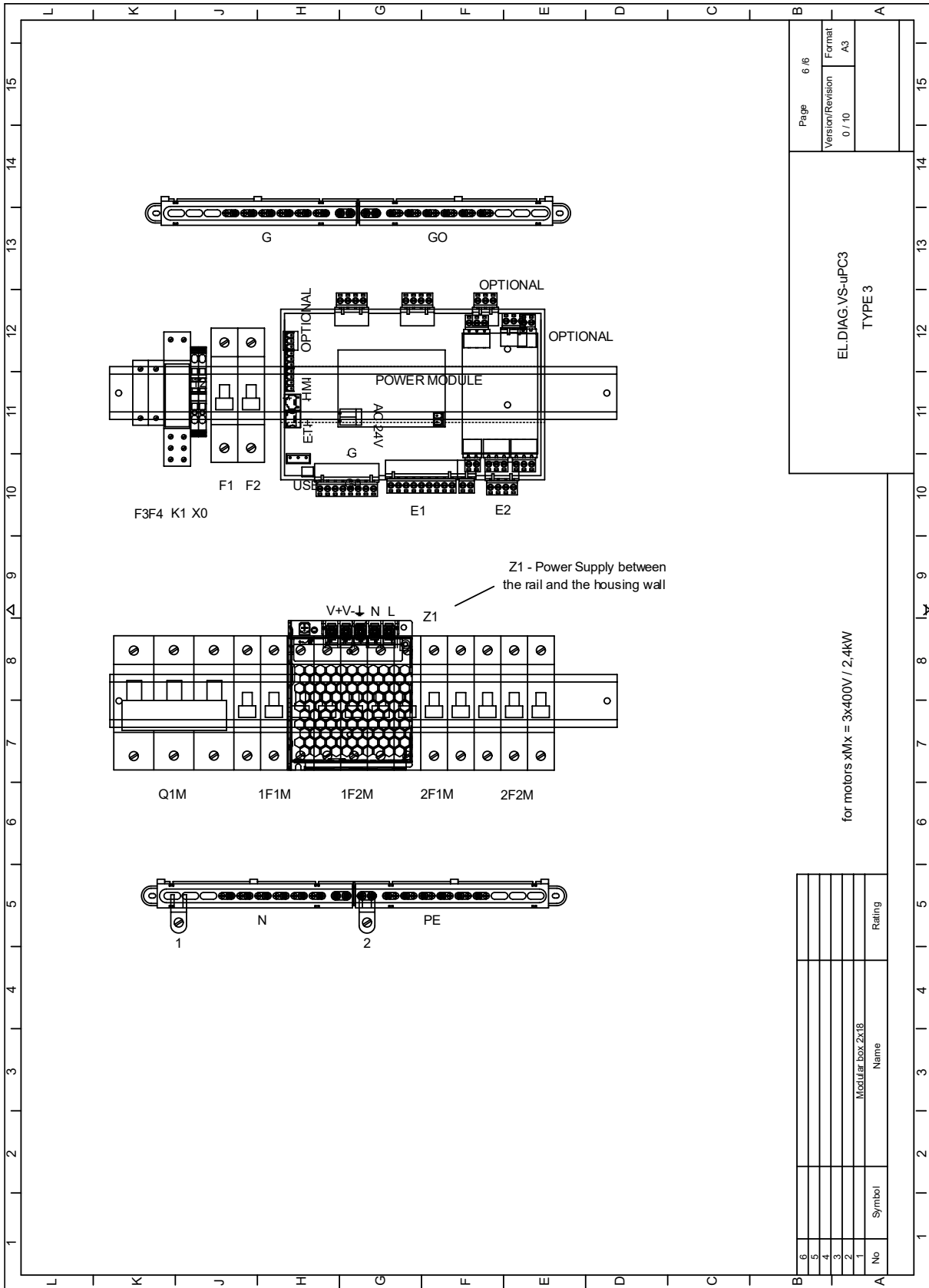


EL_DIAG_EC_SUPP_VVS180_VVS300_x5_4/5



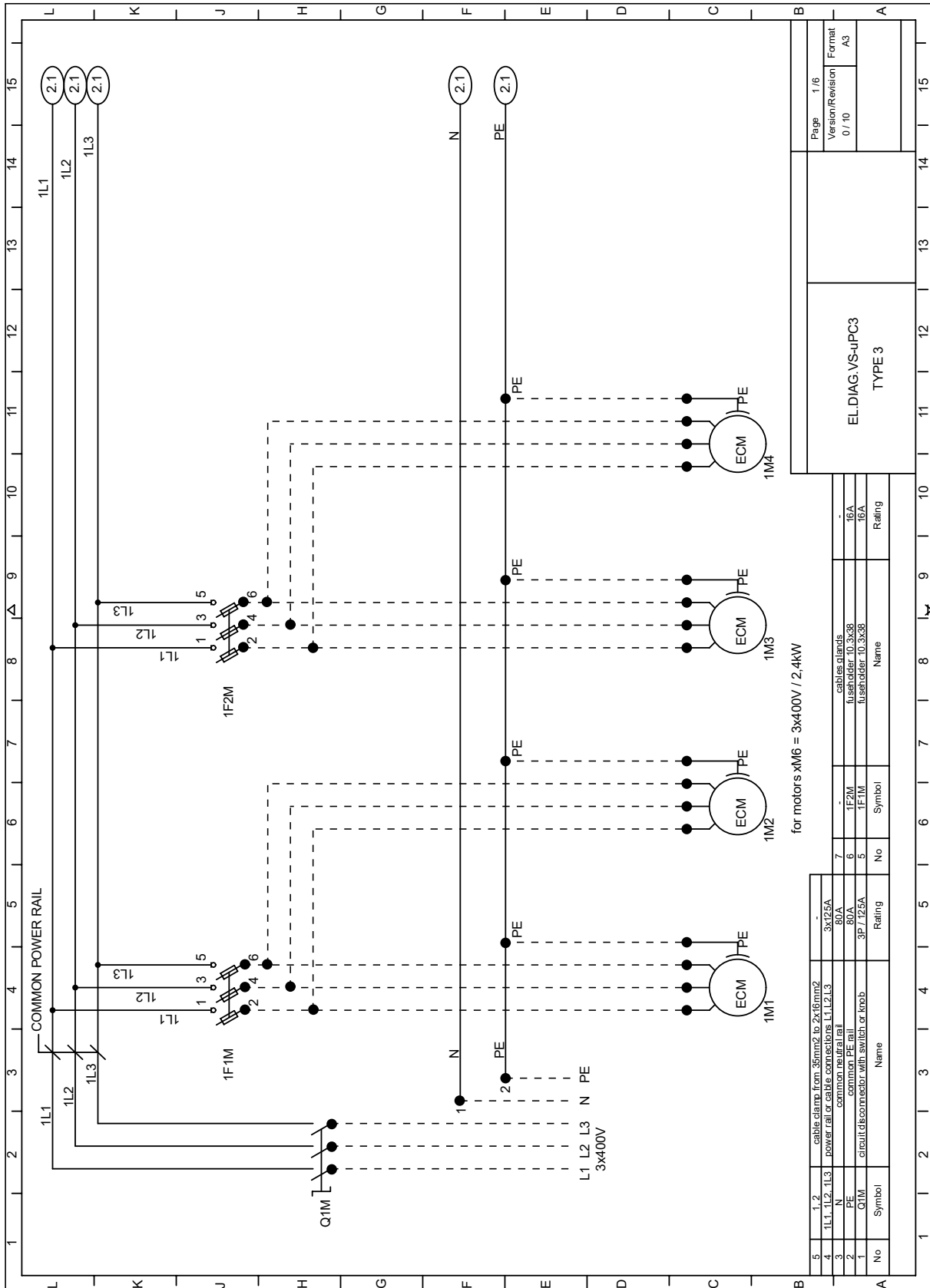
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EL DIAG VS-uPC3 TYPE 3	

No	Symbol	Name	Rating
1	E2	PLC Controller external unit	NVS_BOARD
2			
3			
4			
5			
6			



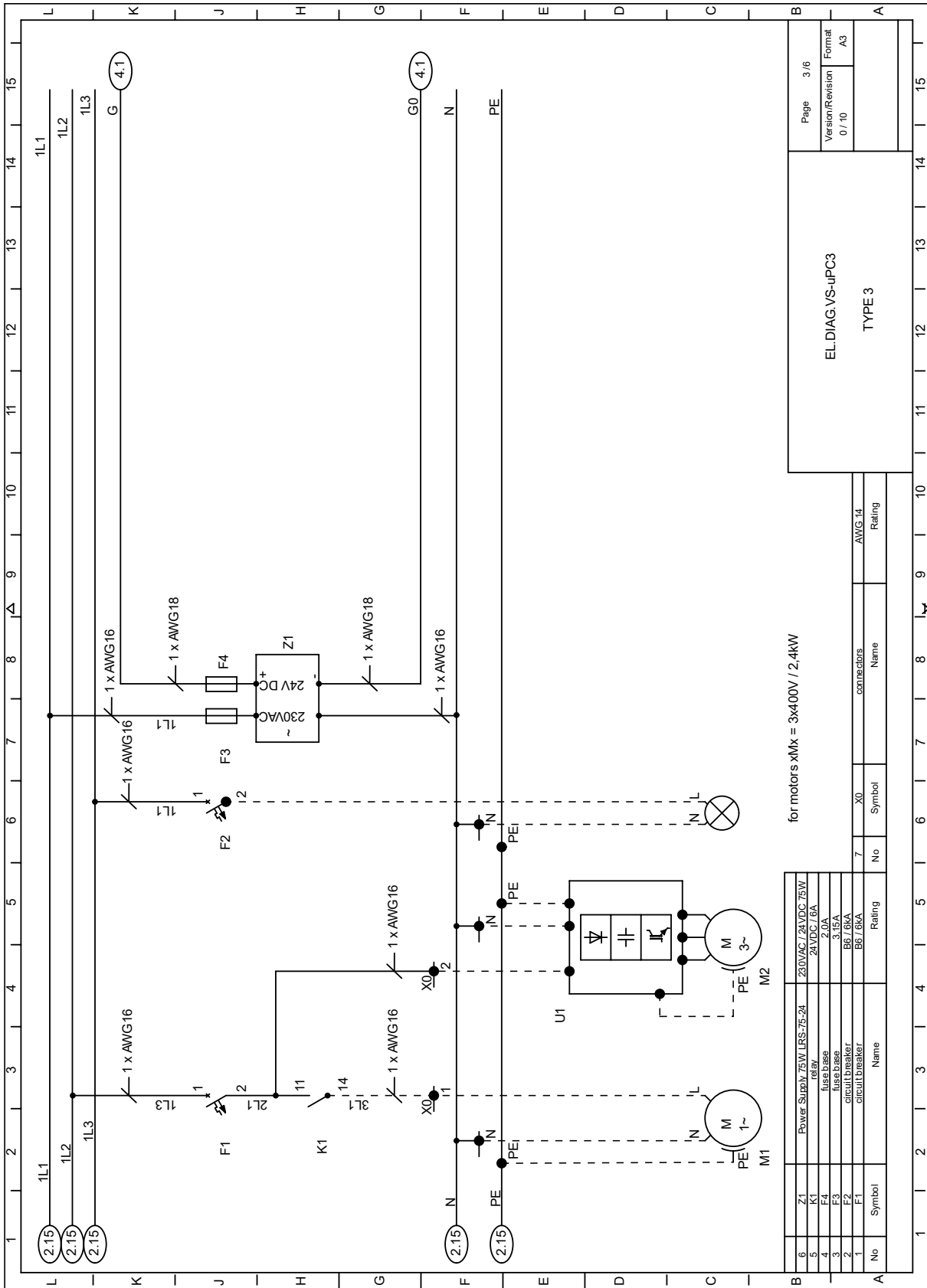
4.2.6 EC VVS180-VVS300- 2.4kW x6

EL_DIAG_EC_SUPP_VVS180_VVS300_x6_1/6

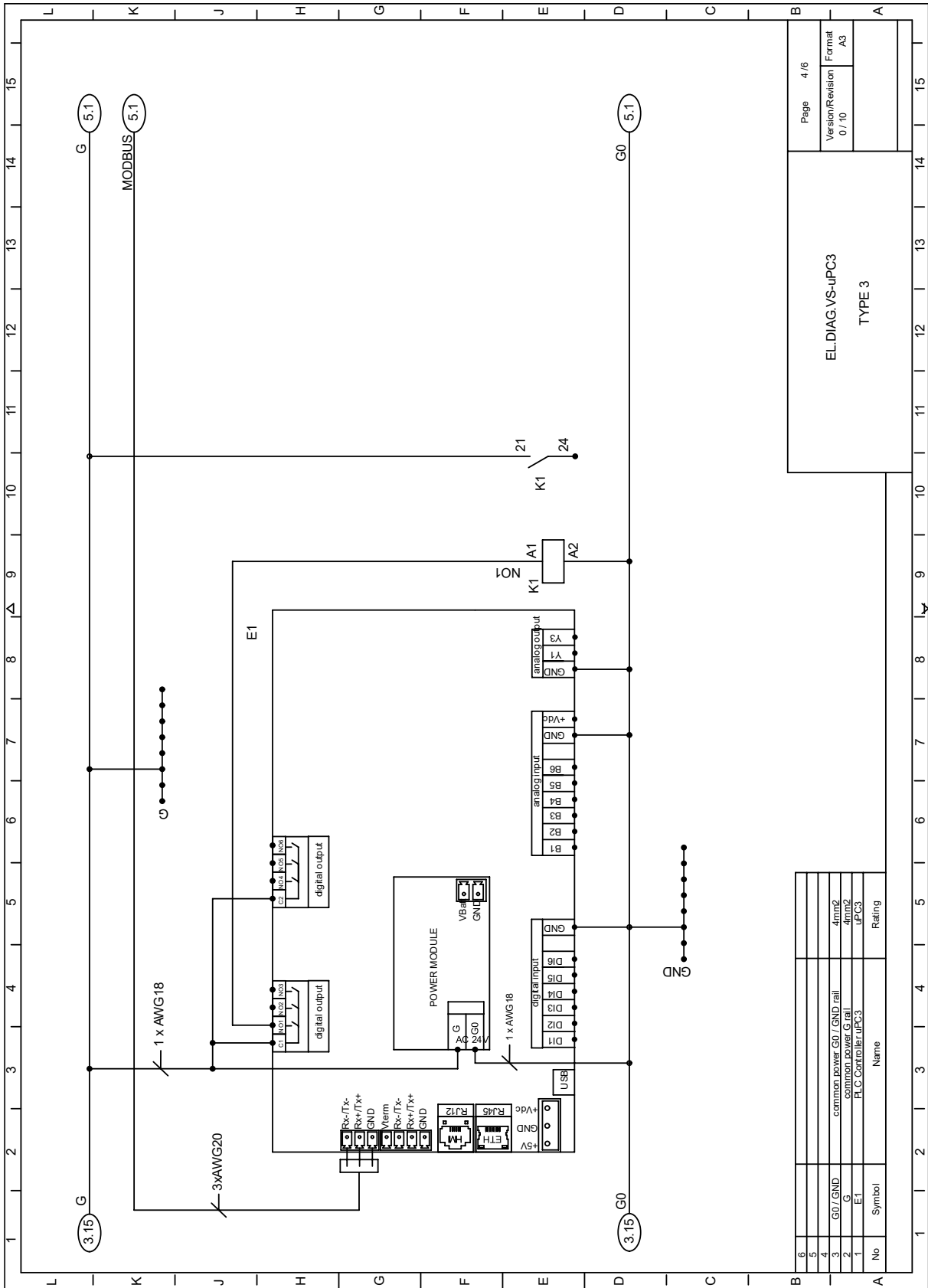




EL_DIAG_EC_SUPP_VVS180_VVS300_x6_3/6

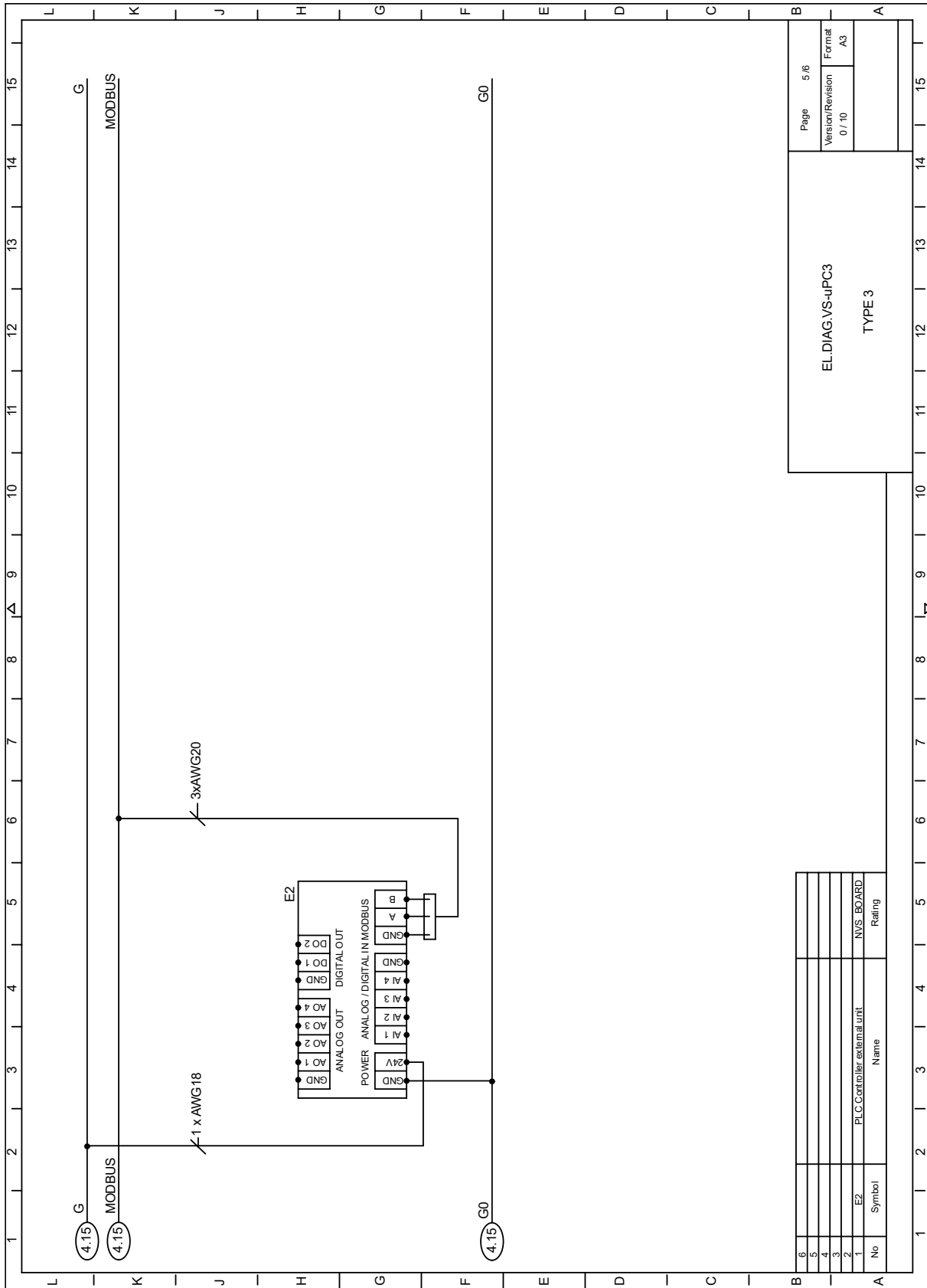


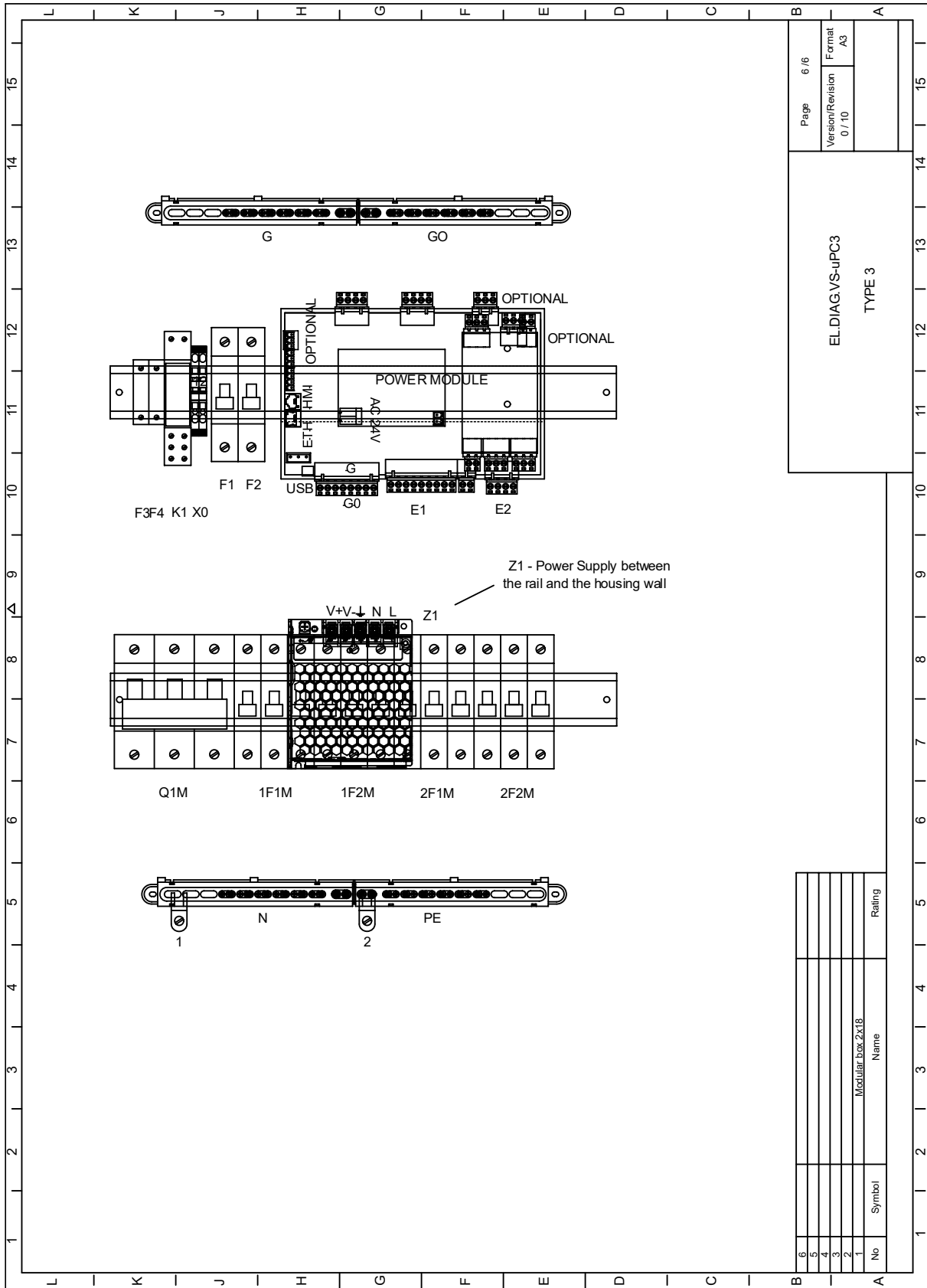
EL_DIAG_EC_SUPP_VVS180_VVS300_x6_4/6



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EL DIAG.VS-uPC3 TYPE 3	

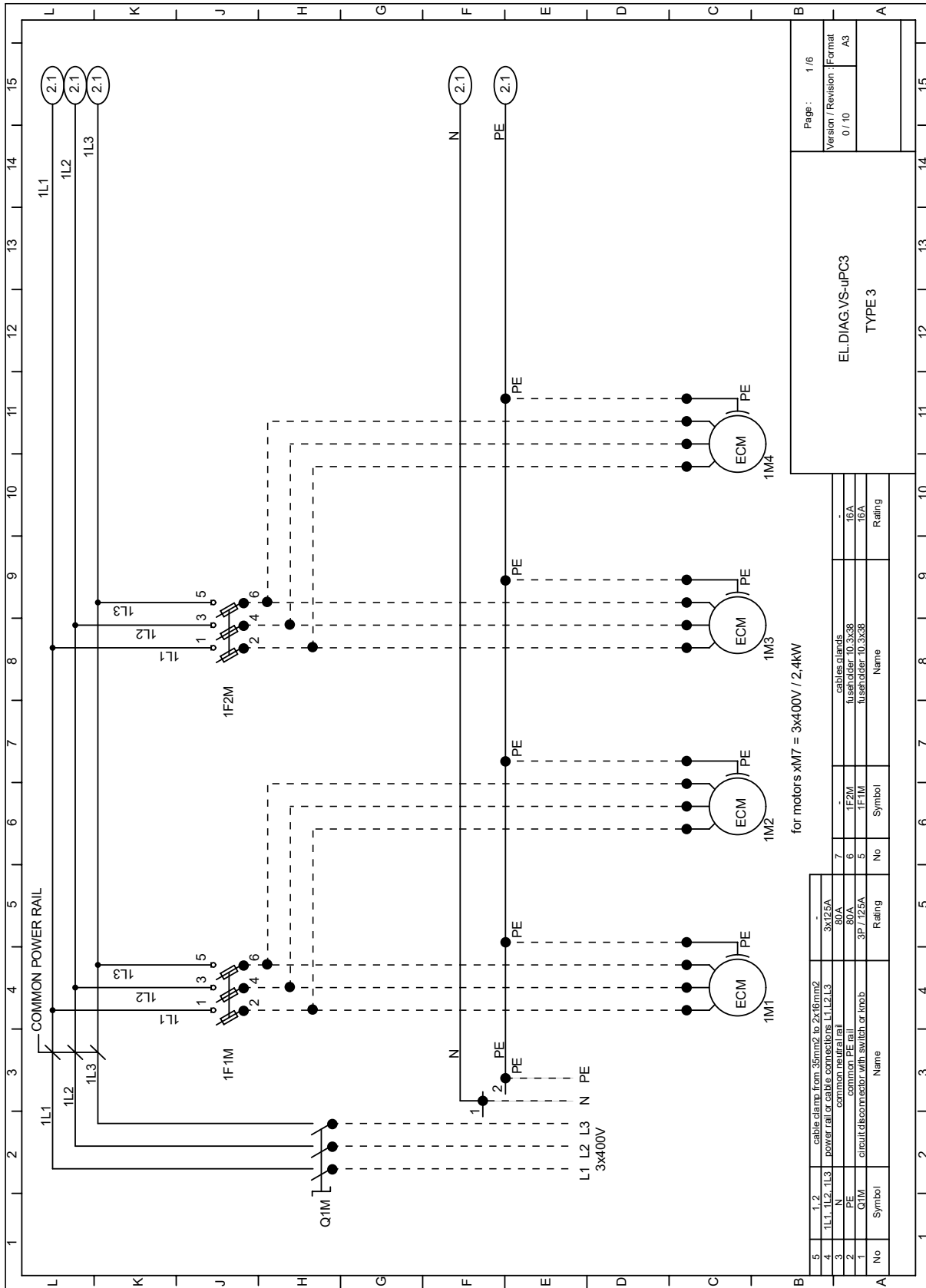
No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	uPC3
1			



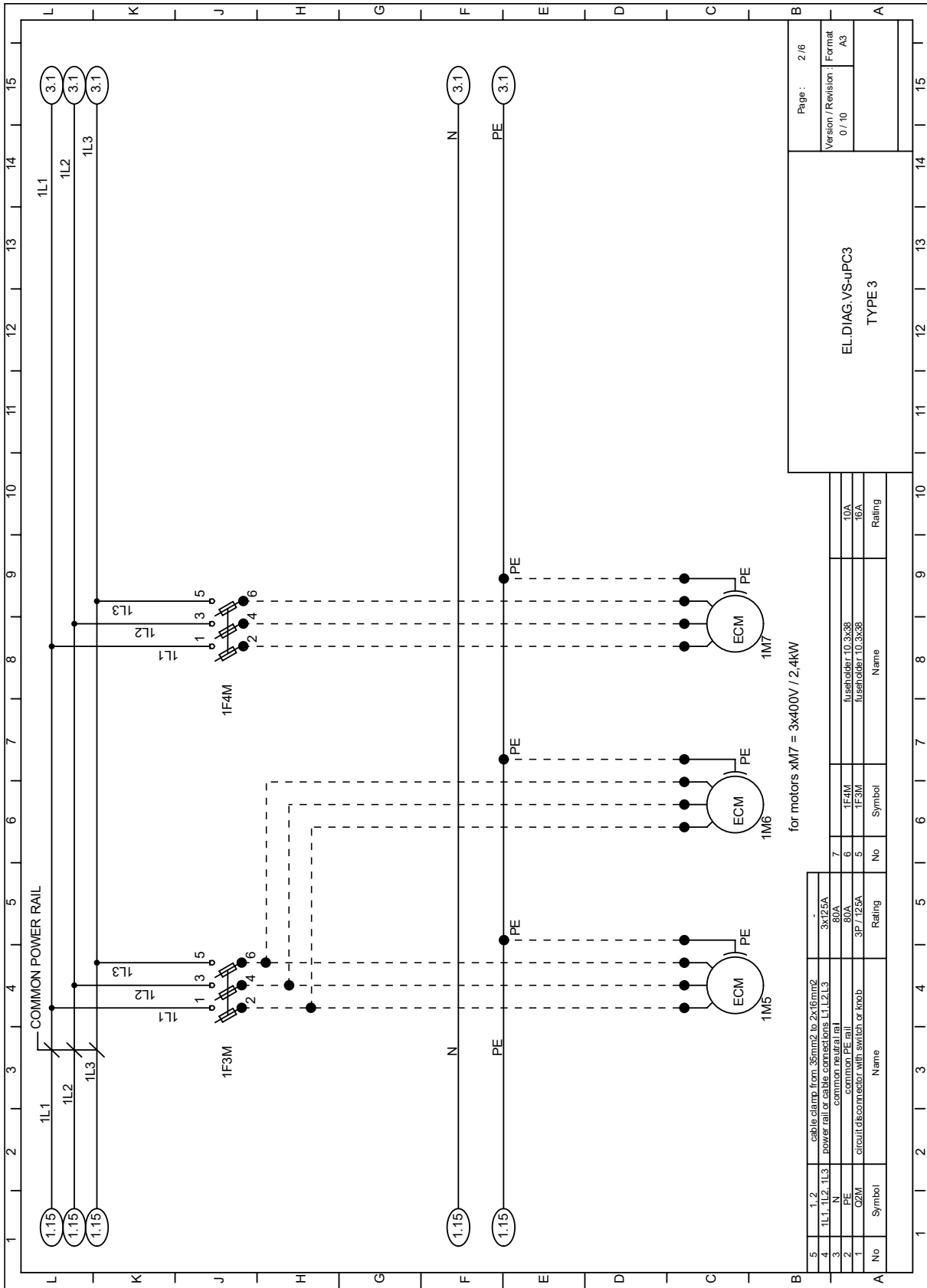


4.2.7 EC VVS180-VVS300- 2.4kW x7

EL_DIAG_EC_SUPP_VVS180_VVS300_x7_1/6



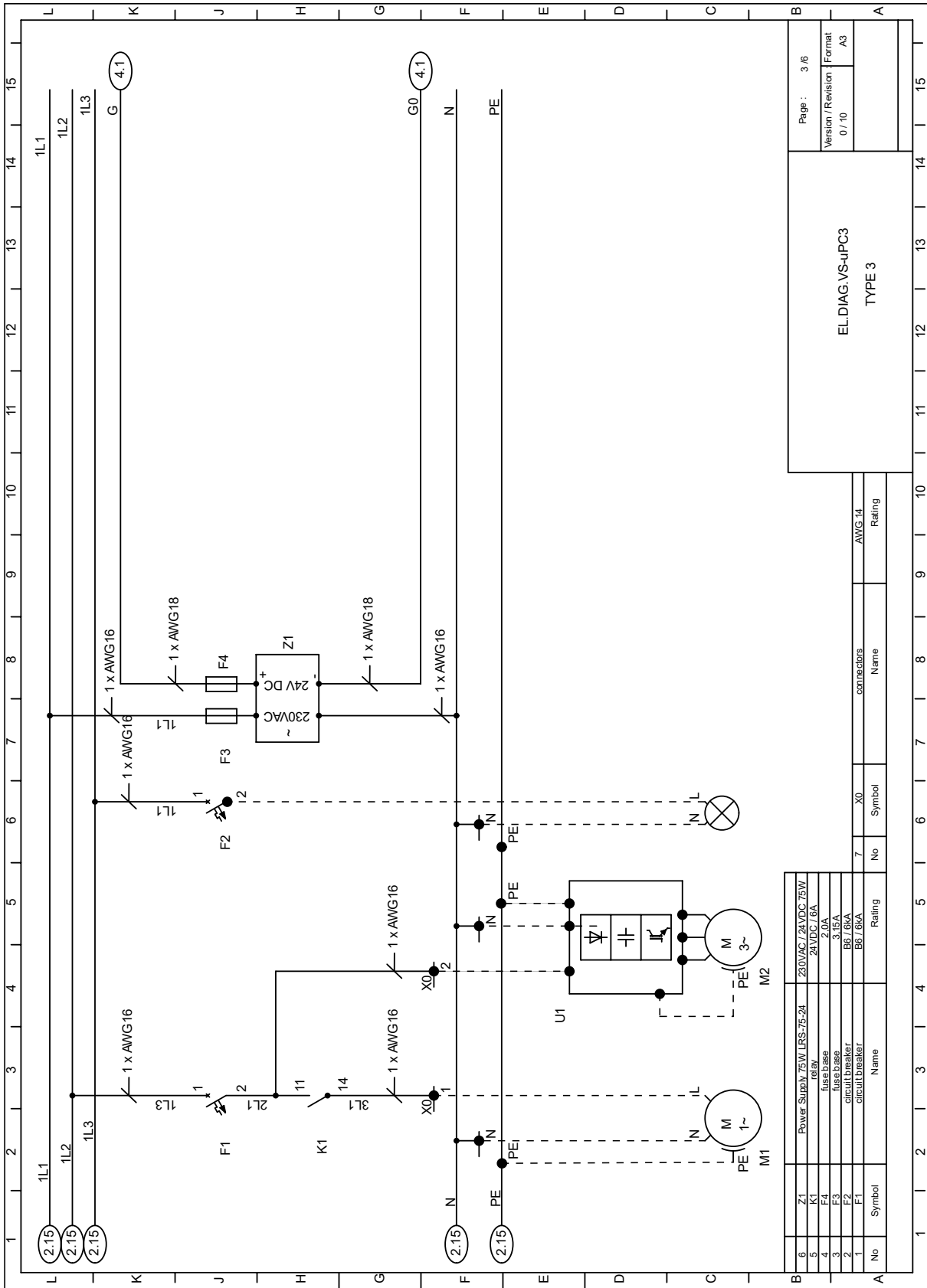
EL_DIAG_EC_SUPP_VVS180_VVS300_x7_2/6

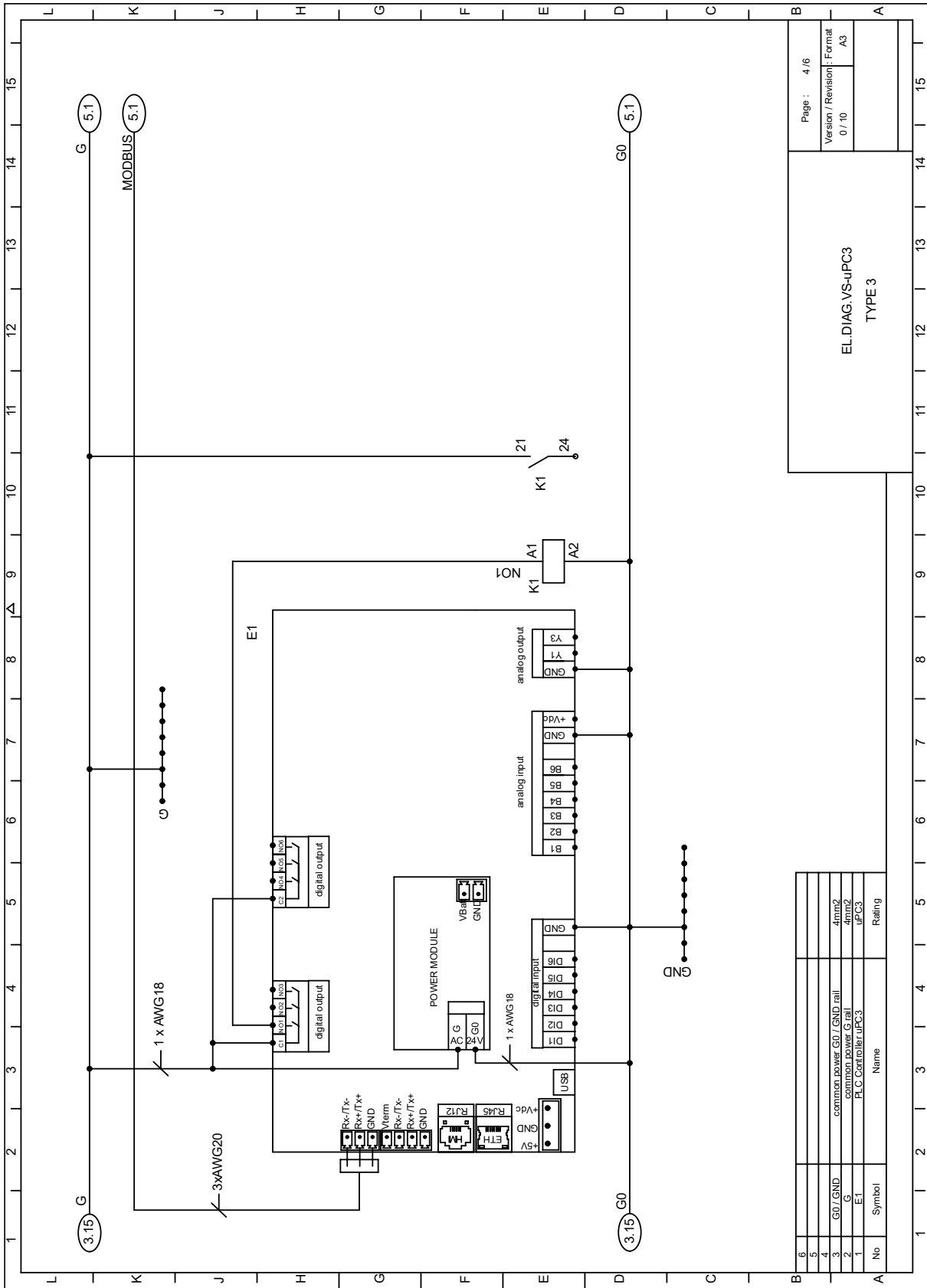


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EL DIAG-VS-uPC3
TYPE 3

EL_DIAG_EC_SUPP_VVS180_VVS300_x7_3/6

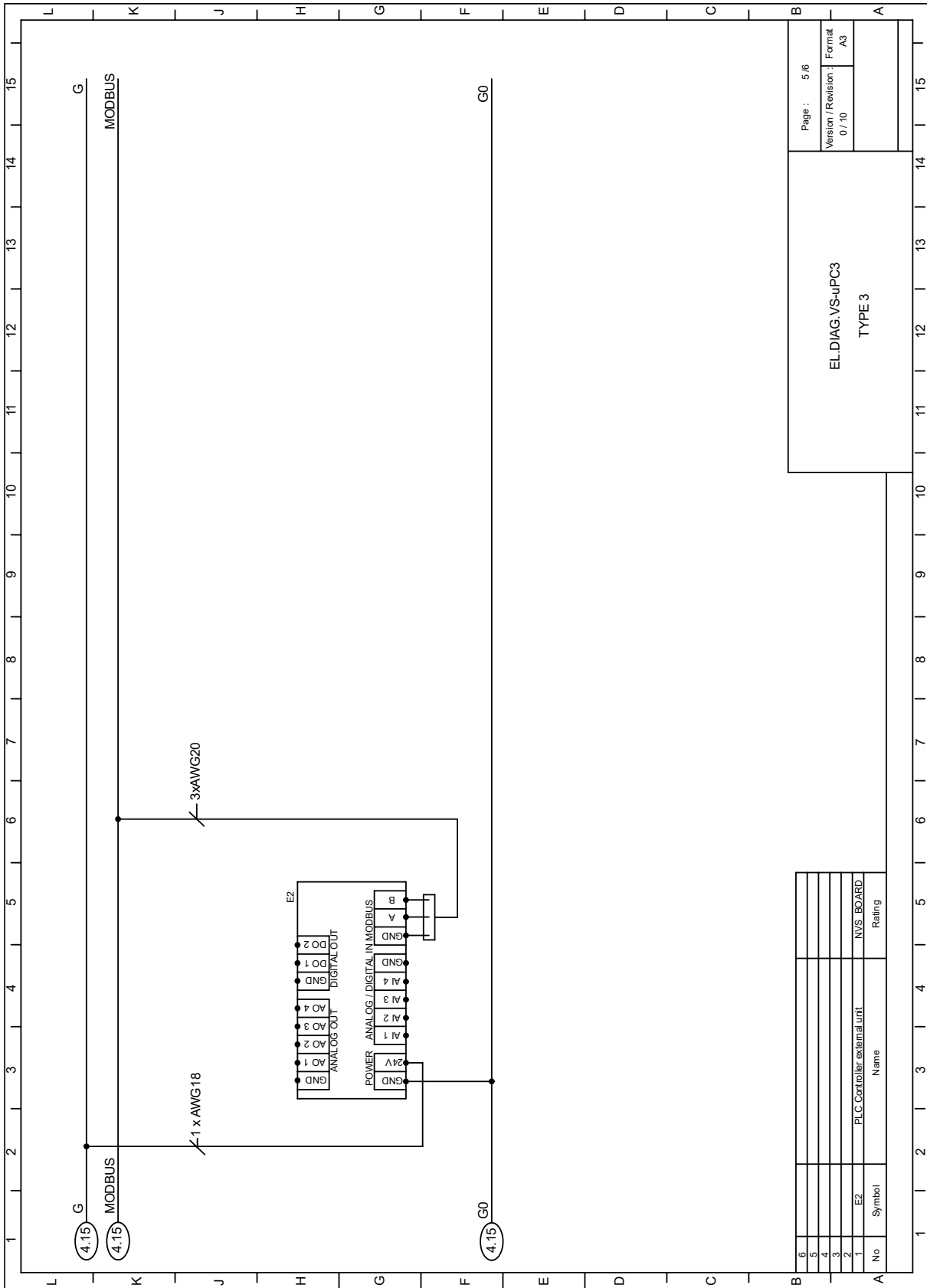




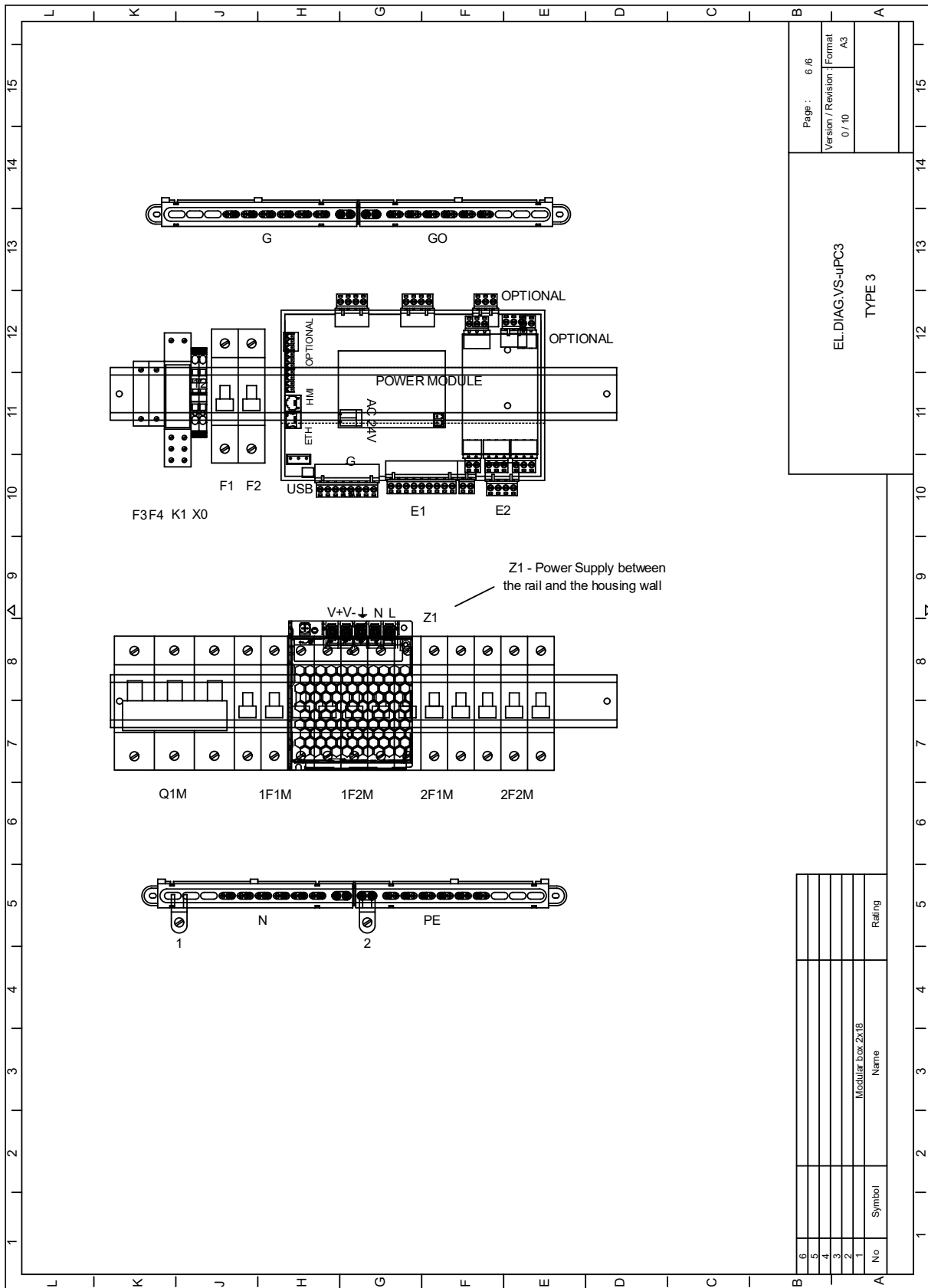
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EL DIAG VS-uPC3
TYPE 3

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	uPC3

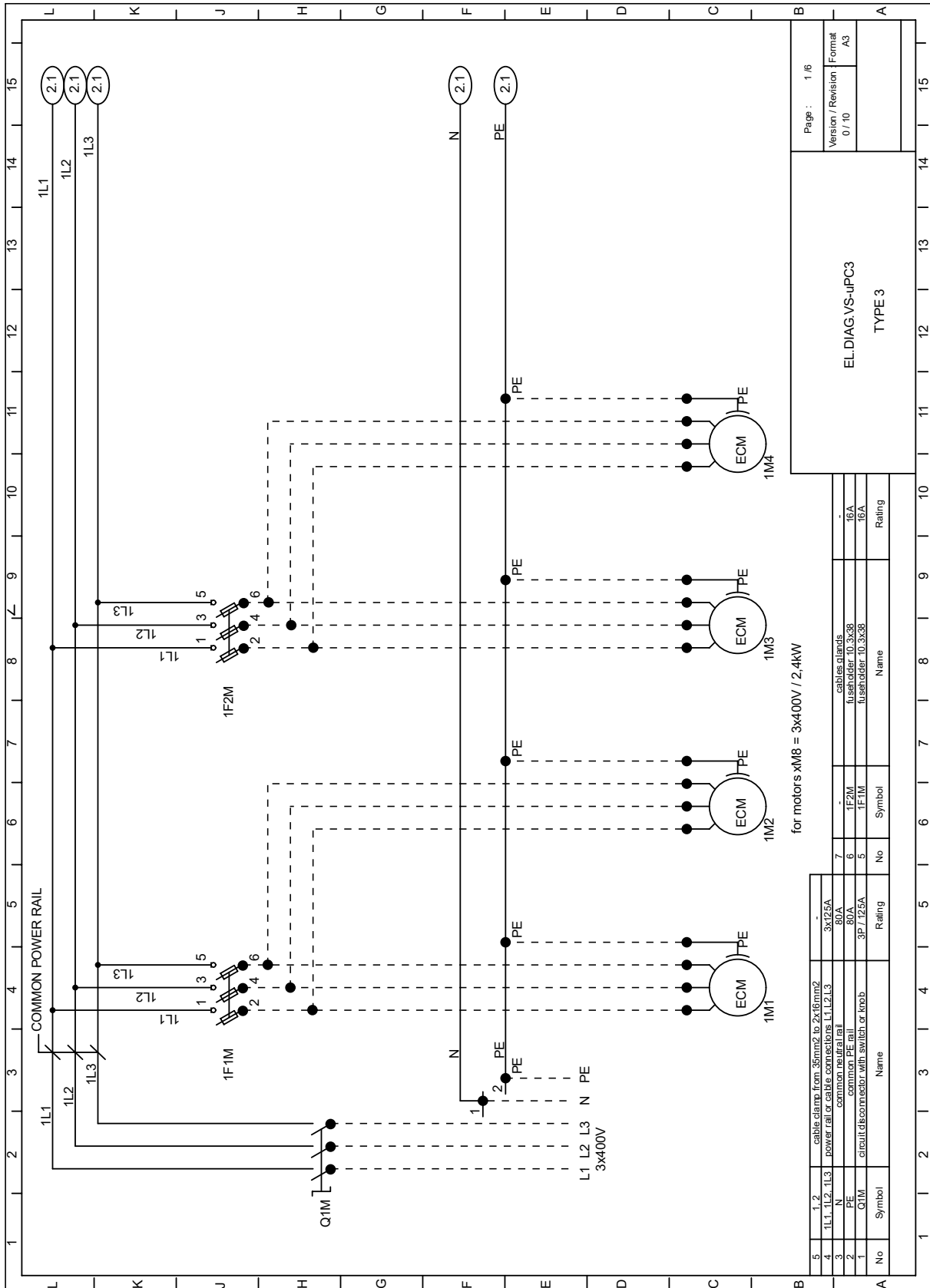


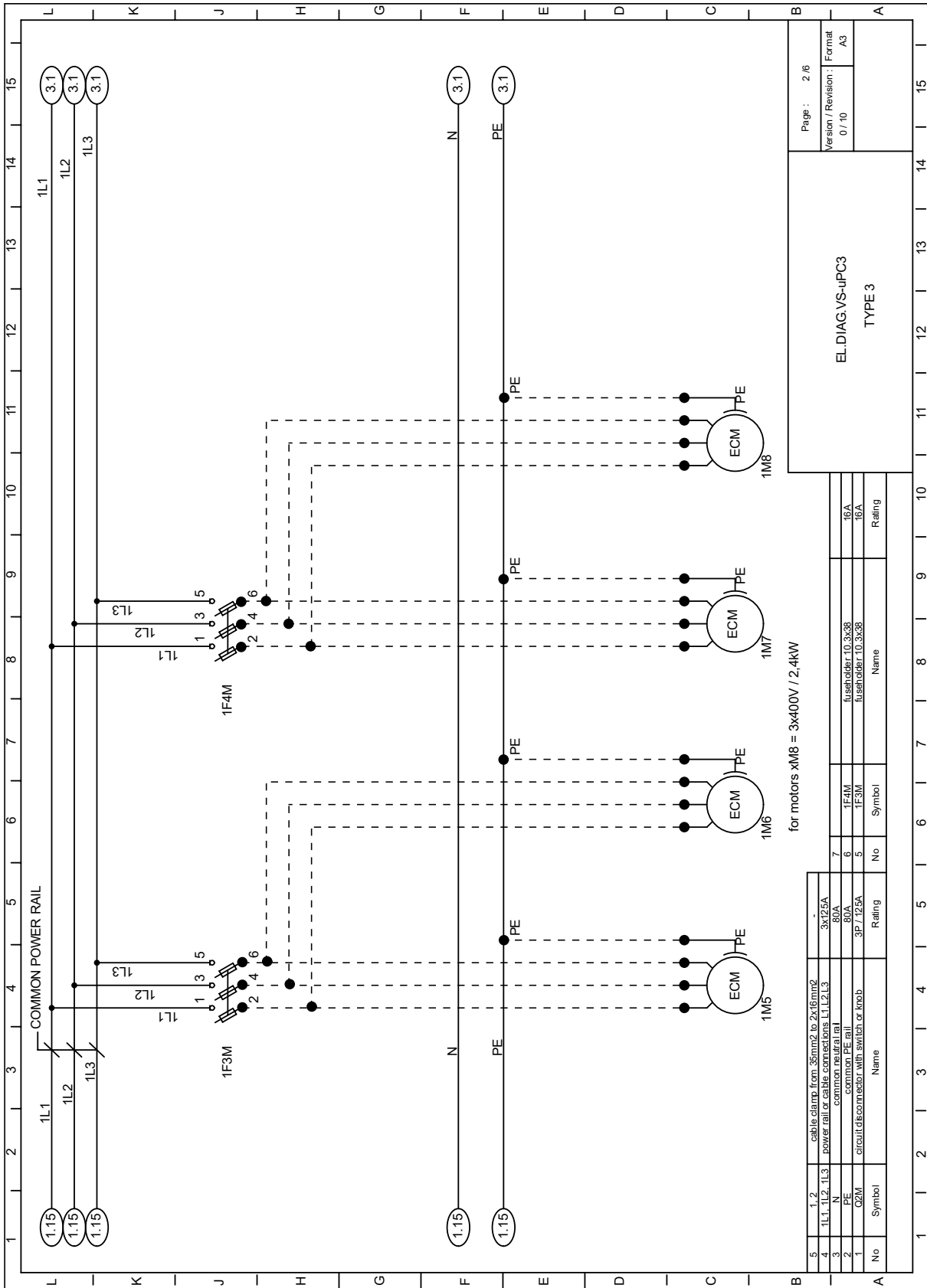
EL_DIAG_EC_SUPP_VVS180_VVS300_x7_6/6



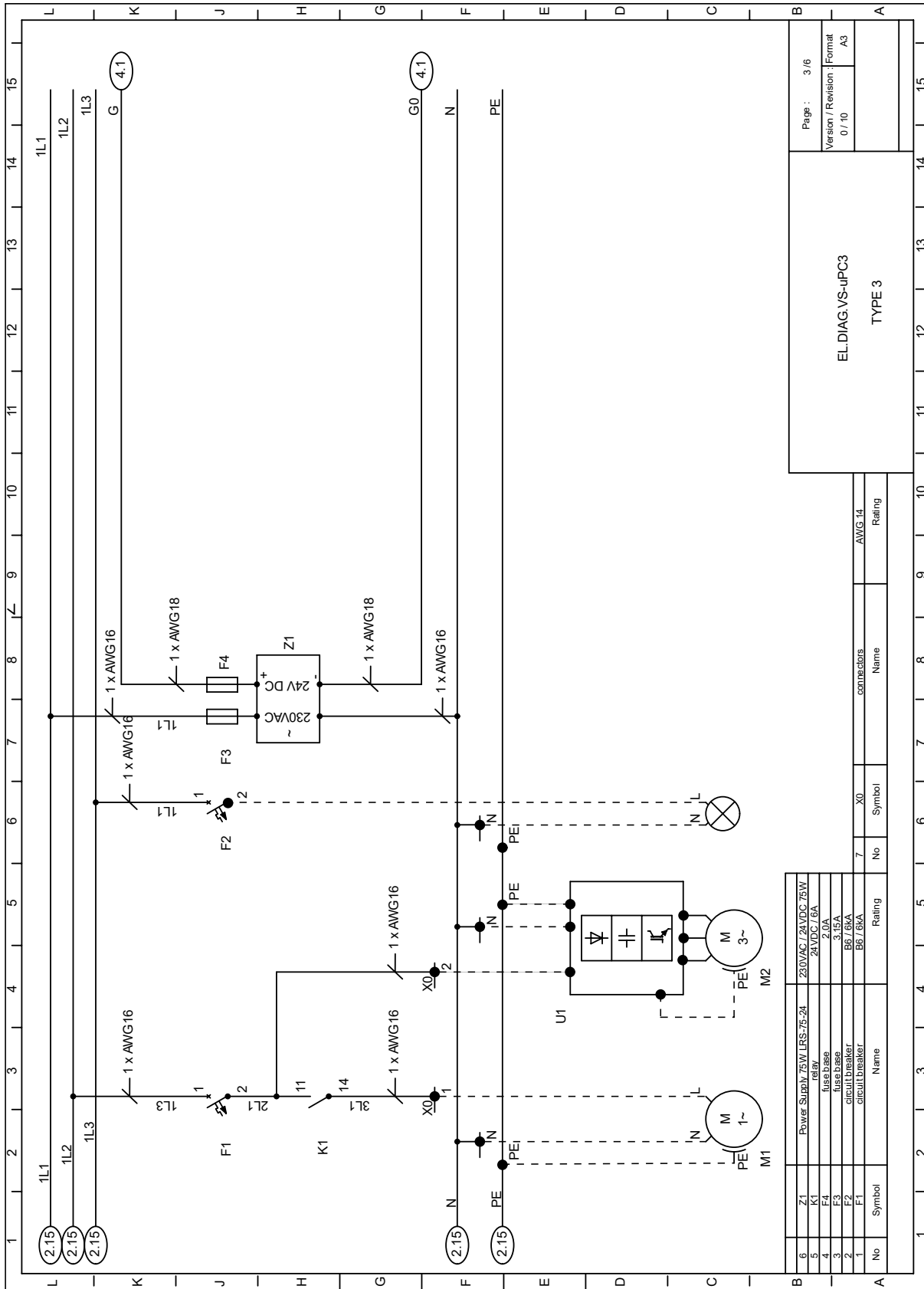
4.2.8 EC VVS180-VVS300- 2.4kW x8

EL_DIAG_EC_SUPP_VVS180_VVS300_x8_1/6

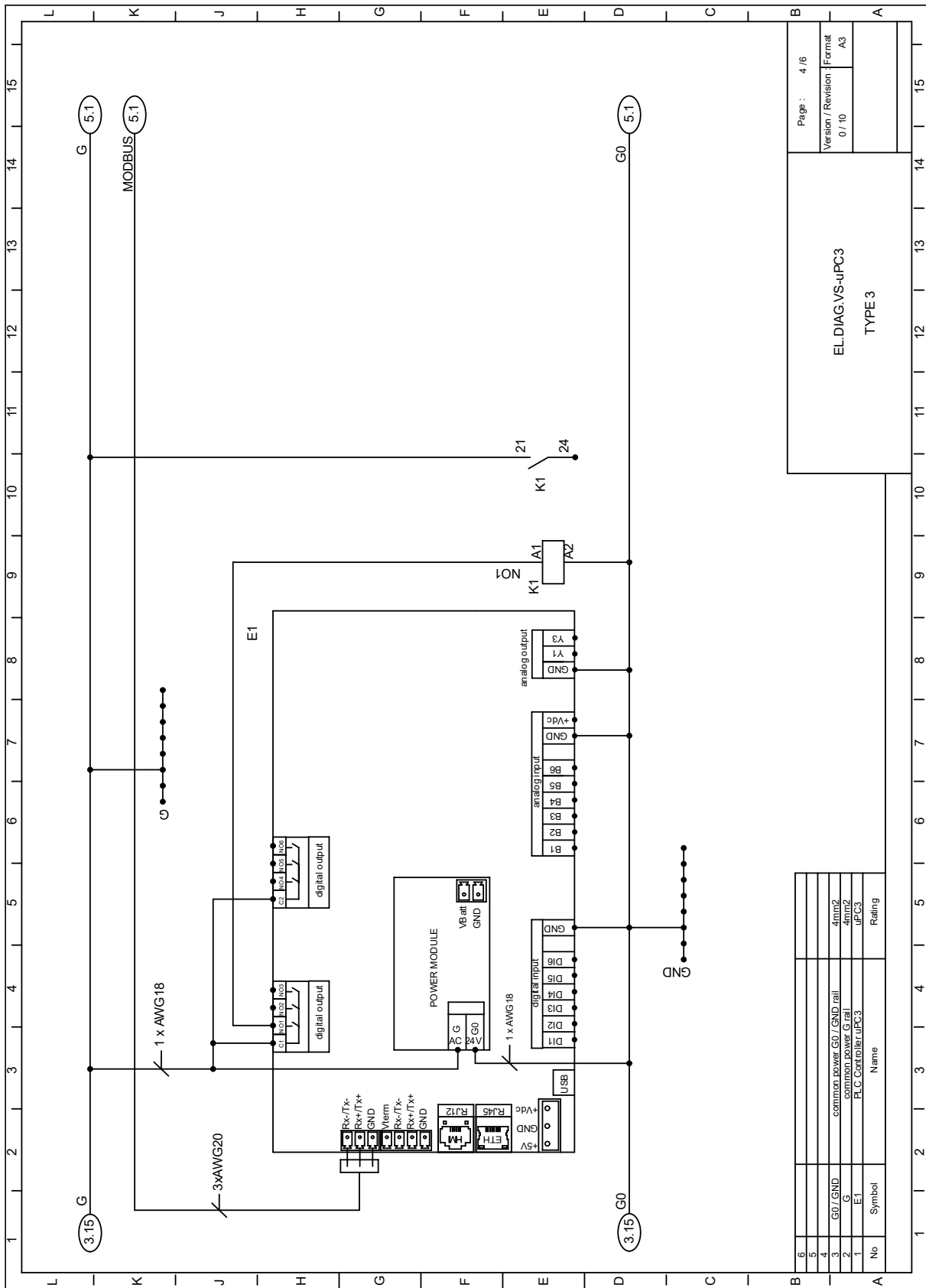




EL_DIAG_EC_SUPP_VVS180_VVS300_x8_3/6



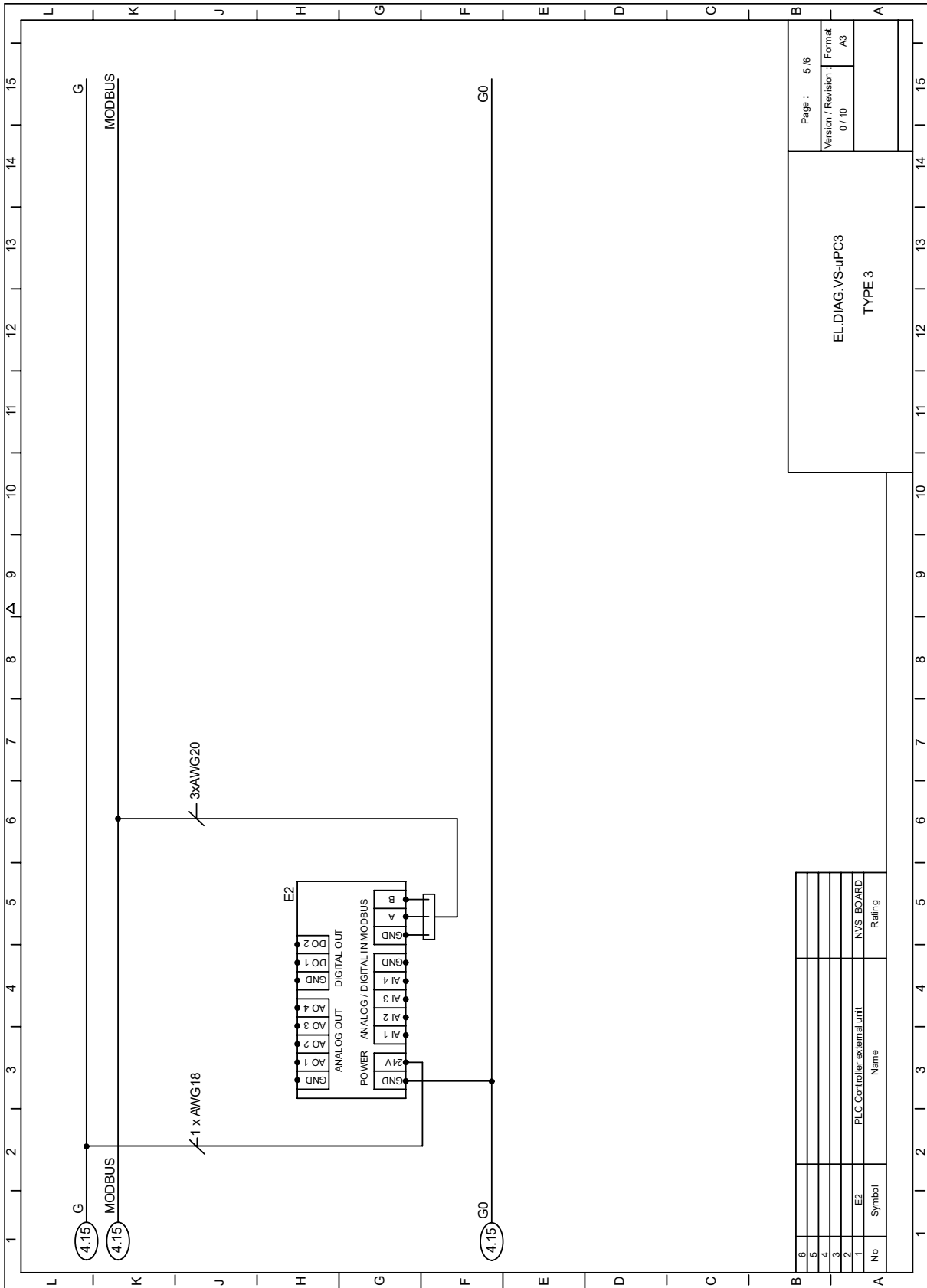
EL_DIAG_EC_SUPP_VVS180_VVS300_x8_4/6



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EL DIAG_VS-uPC3
TYPE 3

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND_rail	4mm ²
3	G	common power G_rail	4mm ²
2	G	common power G_rail	4mm ²
1	E1	PLC Controller uPC3	uPC3

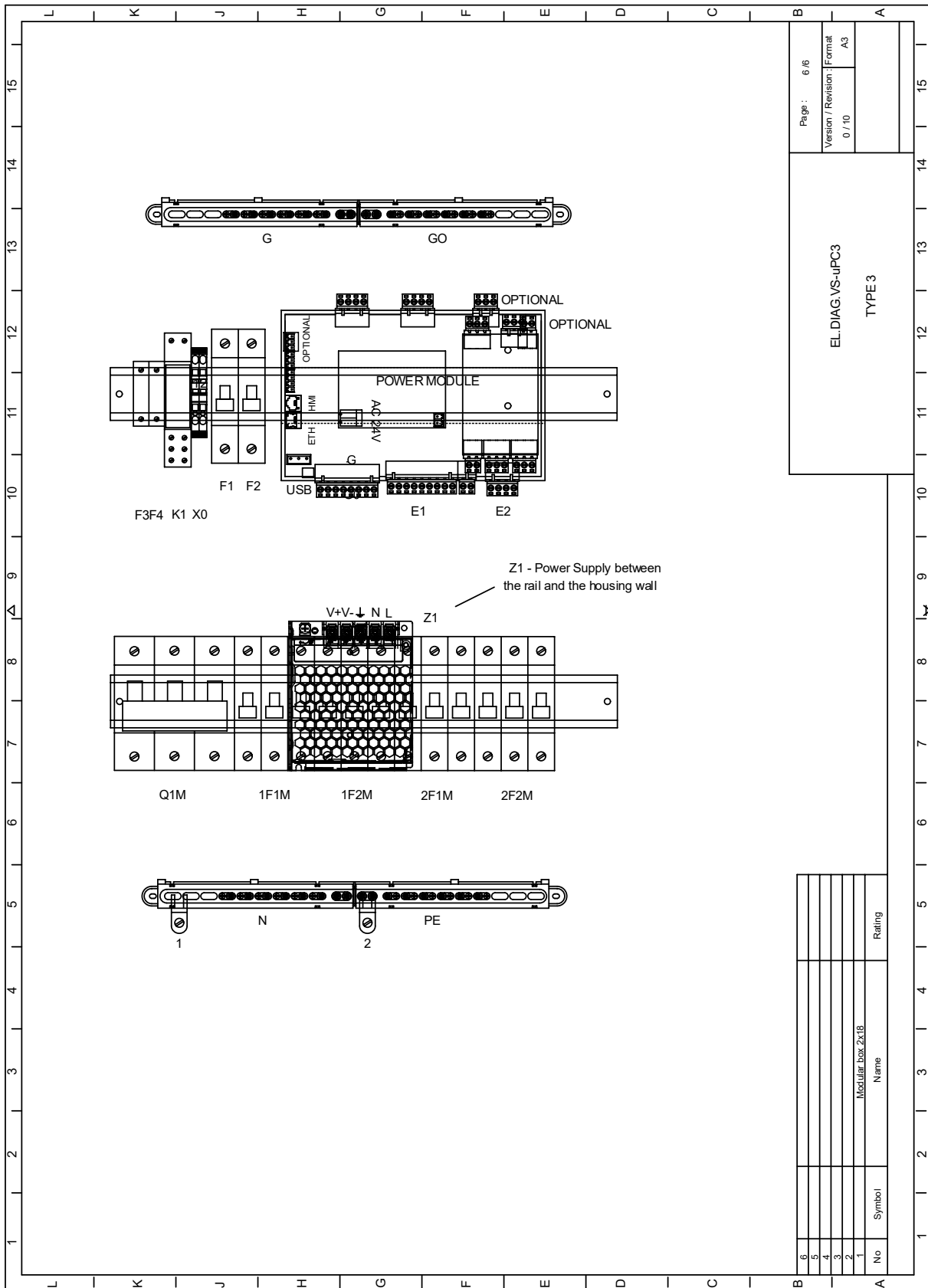


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EL DIAG VS-uPC3
TYPE 3

No	Symbol	Name	Rating
6			
5			
4			
3			
2			
1	E2	PLC Controller external unit	NVS BOARD

EL_DIAG_EC_SUPP_VVS180_VVS300_x8_6/6

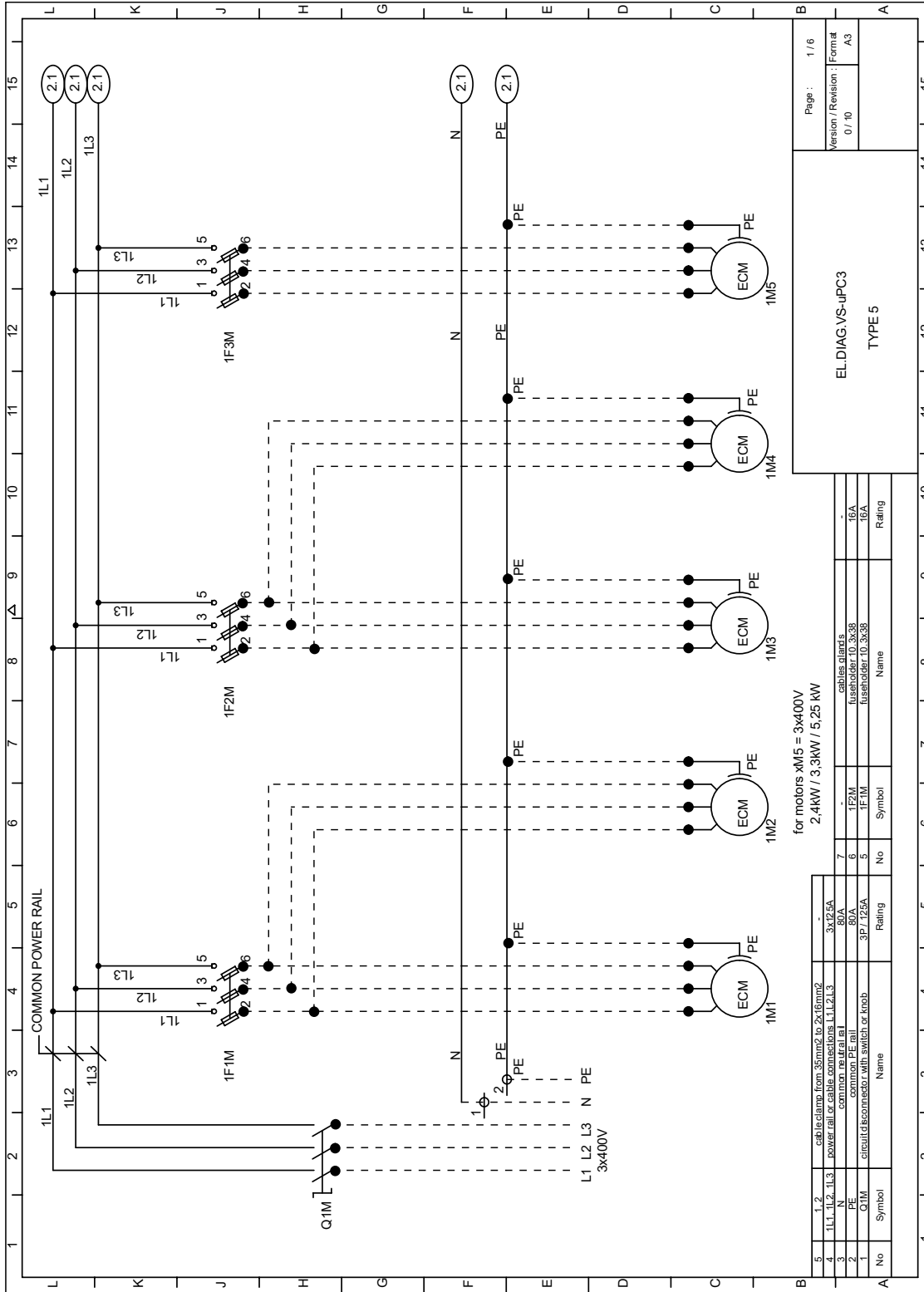


5 DIAGRAMS FOR CG WITH: 3.3kW oraz 5.25kW

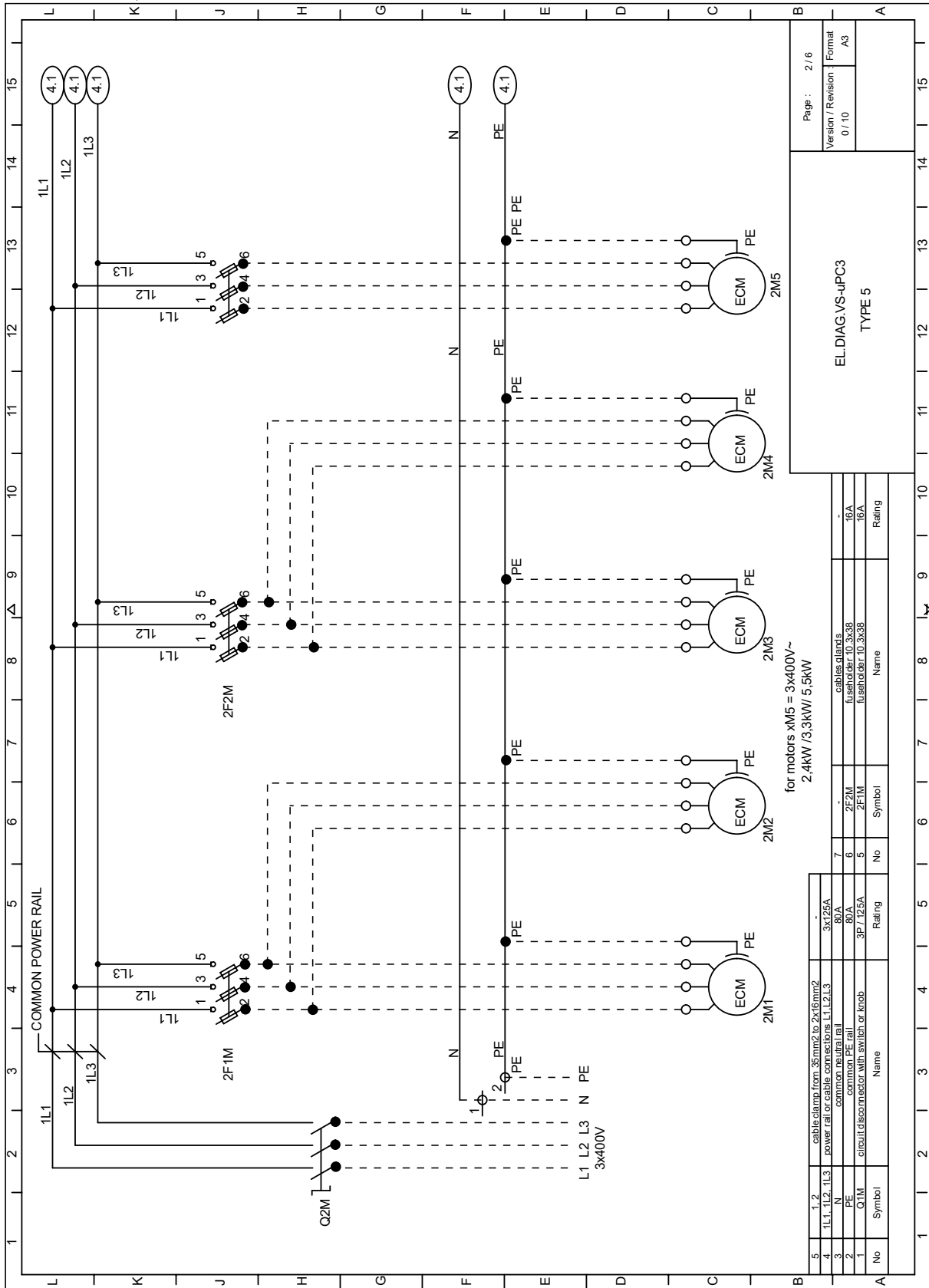
5.1 CONNECTION DIAGRAMS DOR SUPPLY-EXHAUST UNITS.

5.1.1 EC VVS400- 3.3kW x5, 5.25kW x5

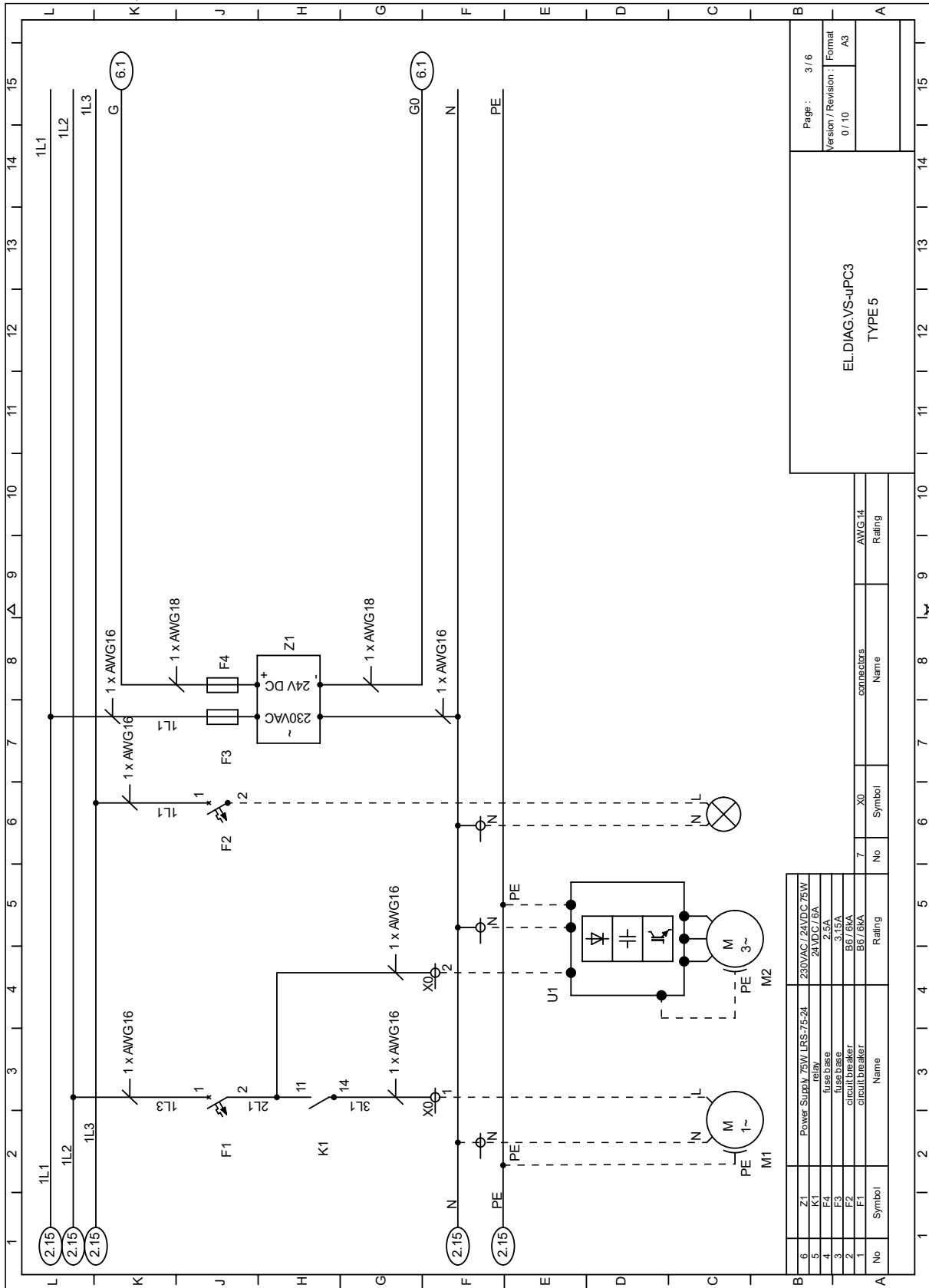
ECM 3.3kWx5; ECM 5.25kWx5 1/6



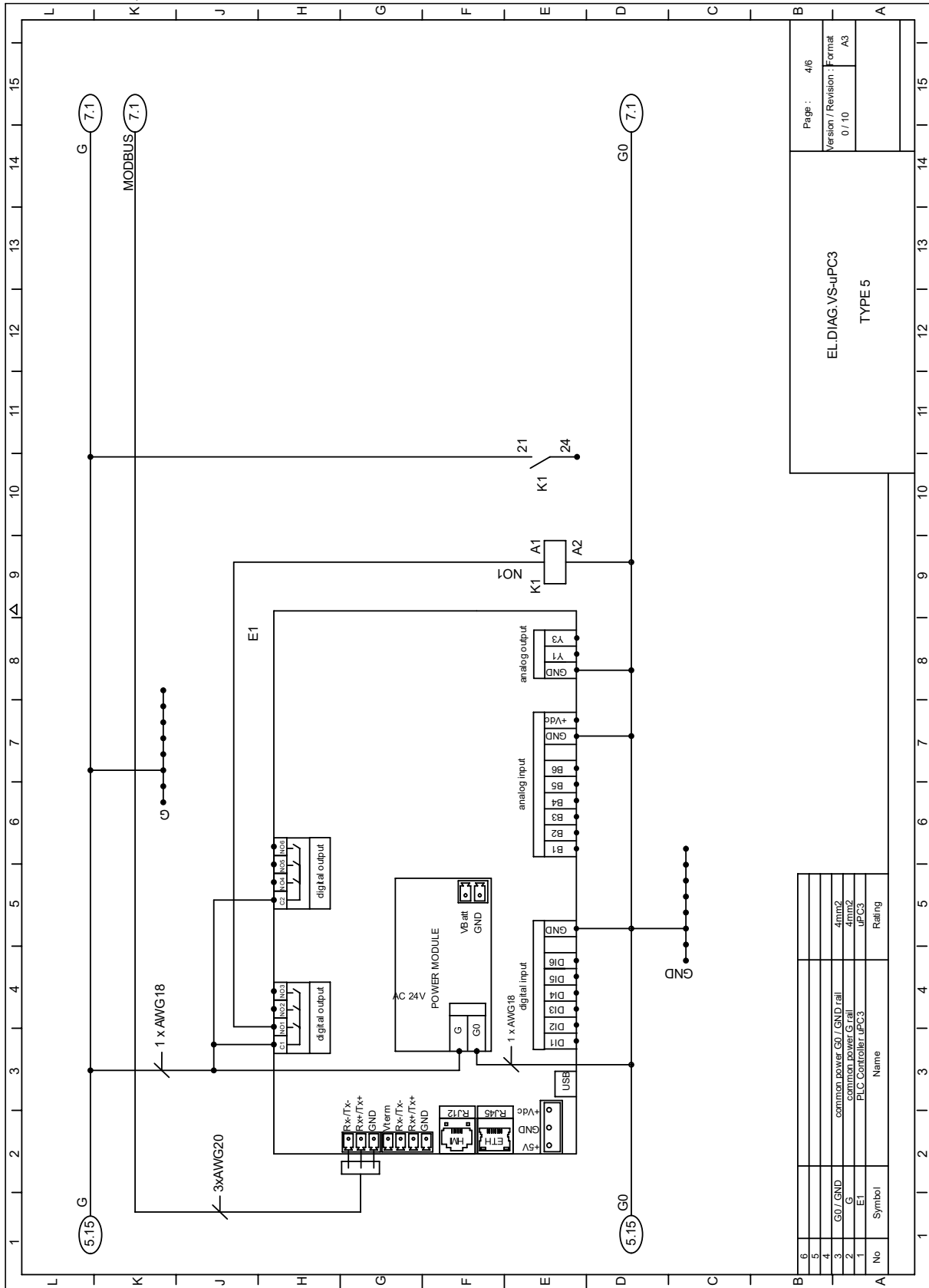
ECM 3.3kWx5; ECM 5.25kWx5 2/8



ECM 3.3kWx5; ECM 5.25kWx5 3/6

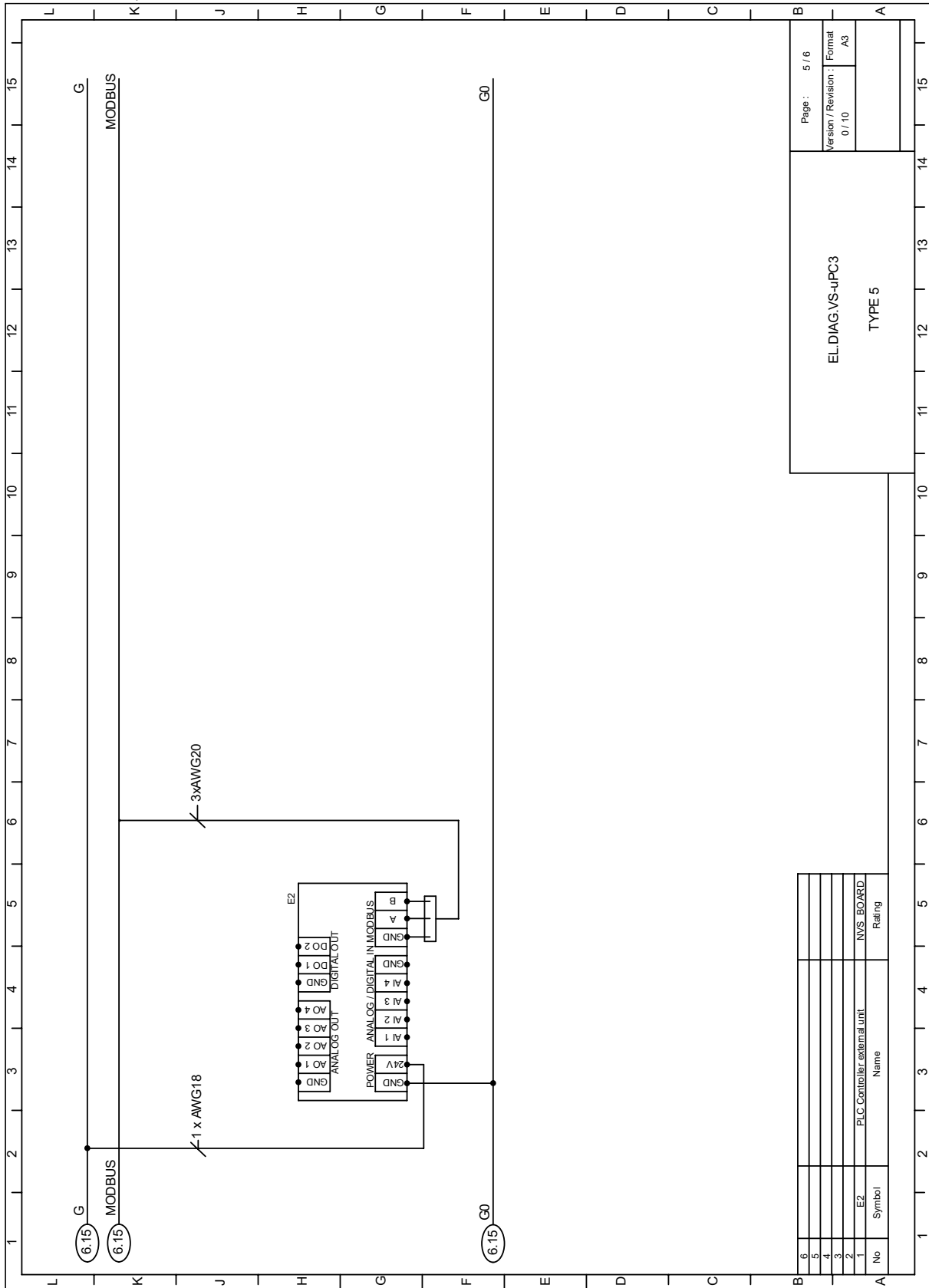


ECM 3.3kWx5; ECM 5.25kWx5 4/6

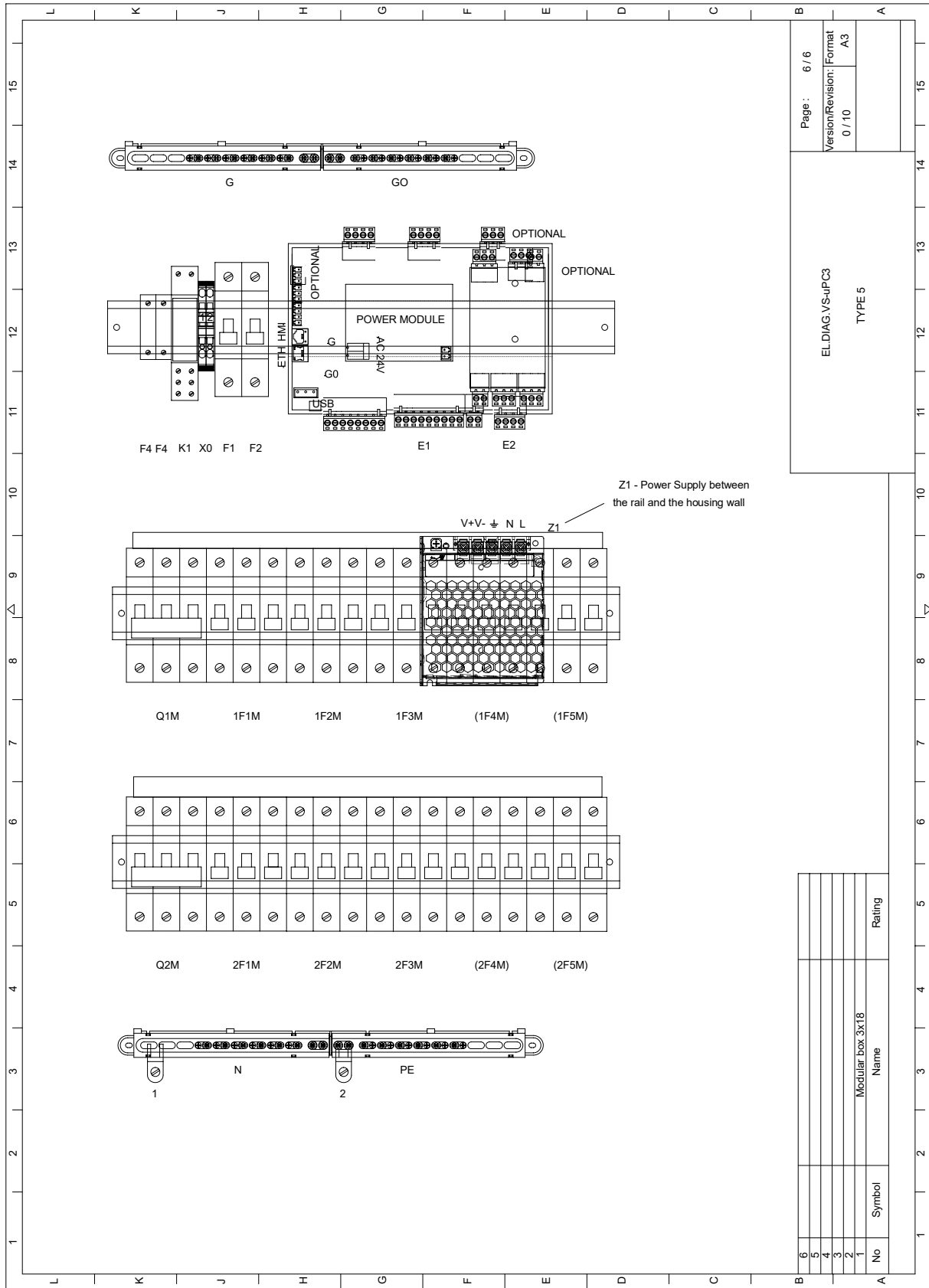


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EL.DIAG.VS-uPC3 TYPE 5	

ECM 3.3kWx5; ECM 5.25kWx5 5/6

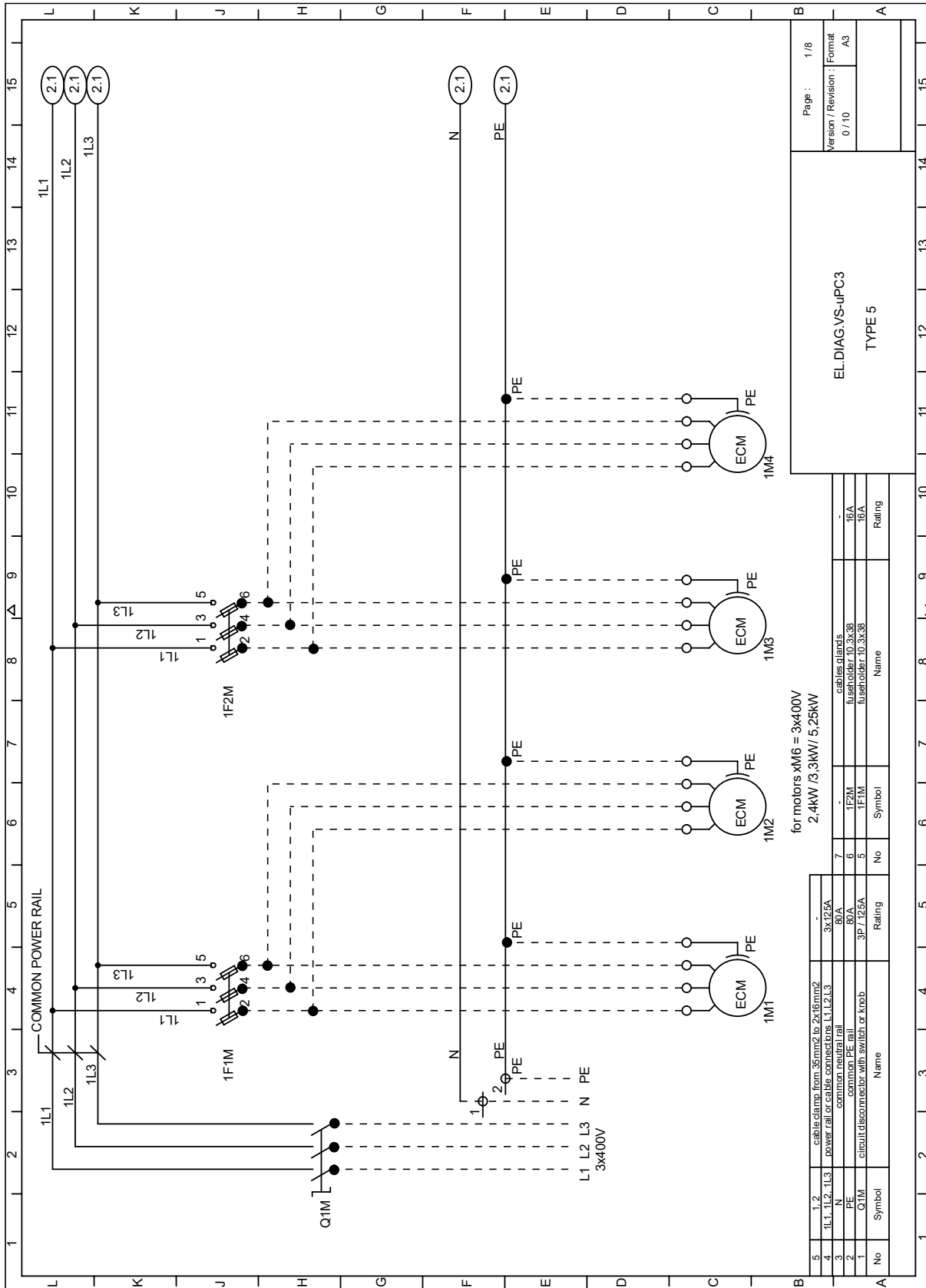


ECM 3.3kWx5; ECM 5.25kWx5 6/6

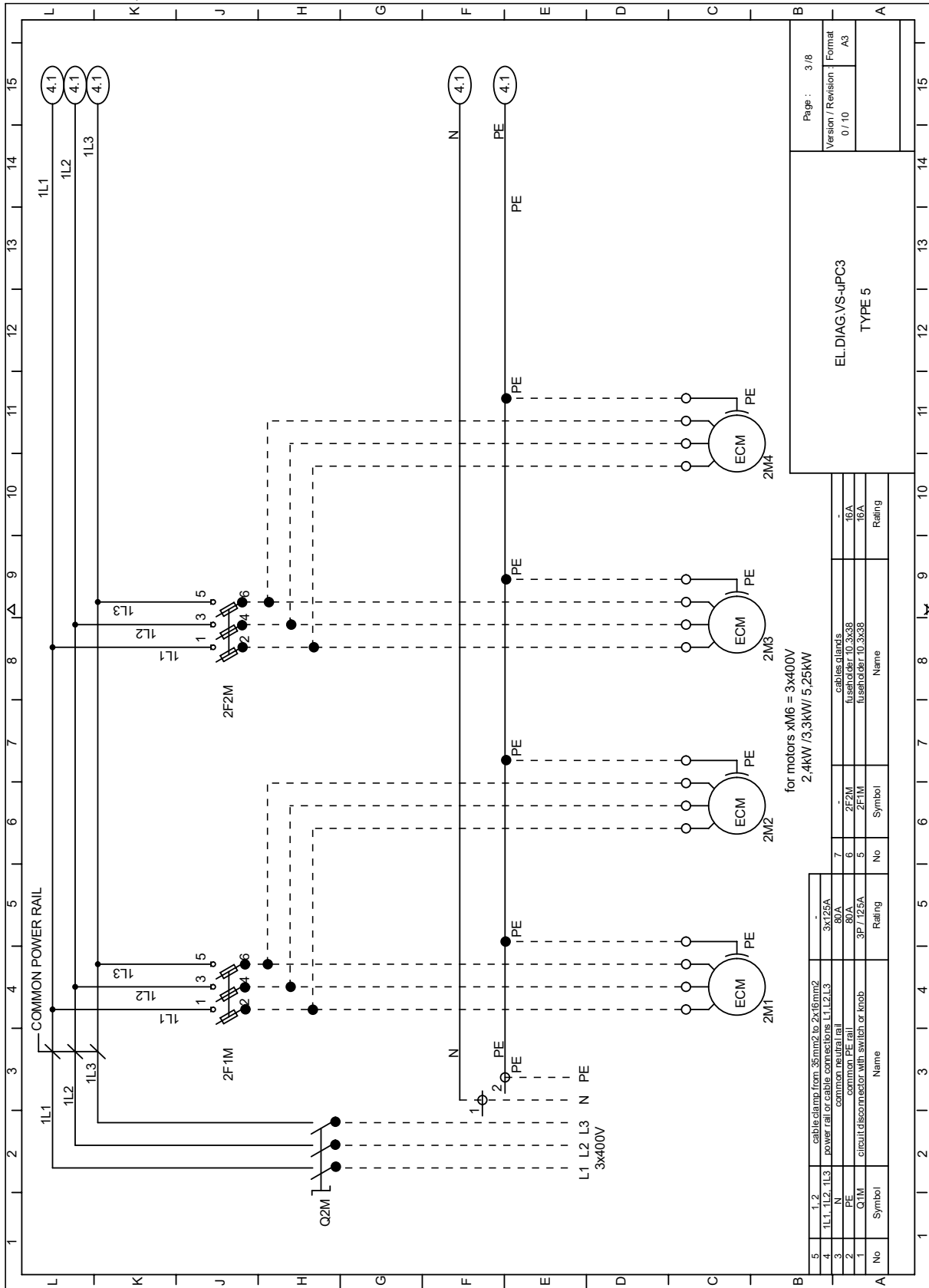


5.1.2 EC VVS500- 3.3kW x6, 5.25kW x6

EC VVS500- 3.3kWx6, 5.25kWx6 1/8



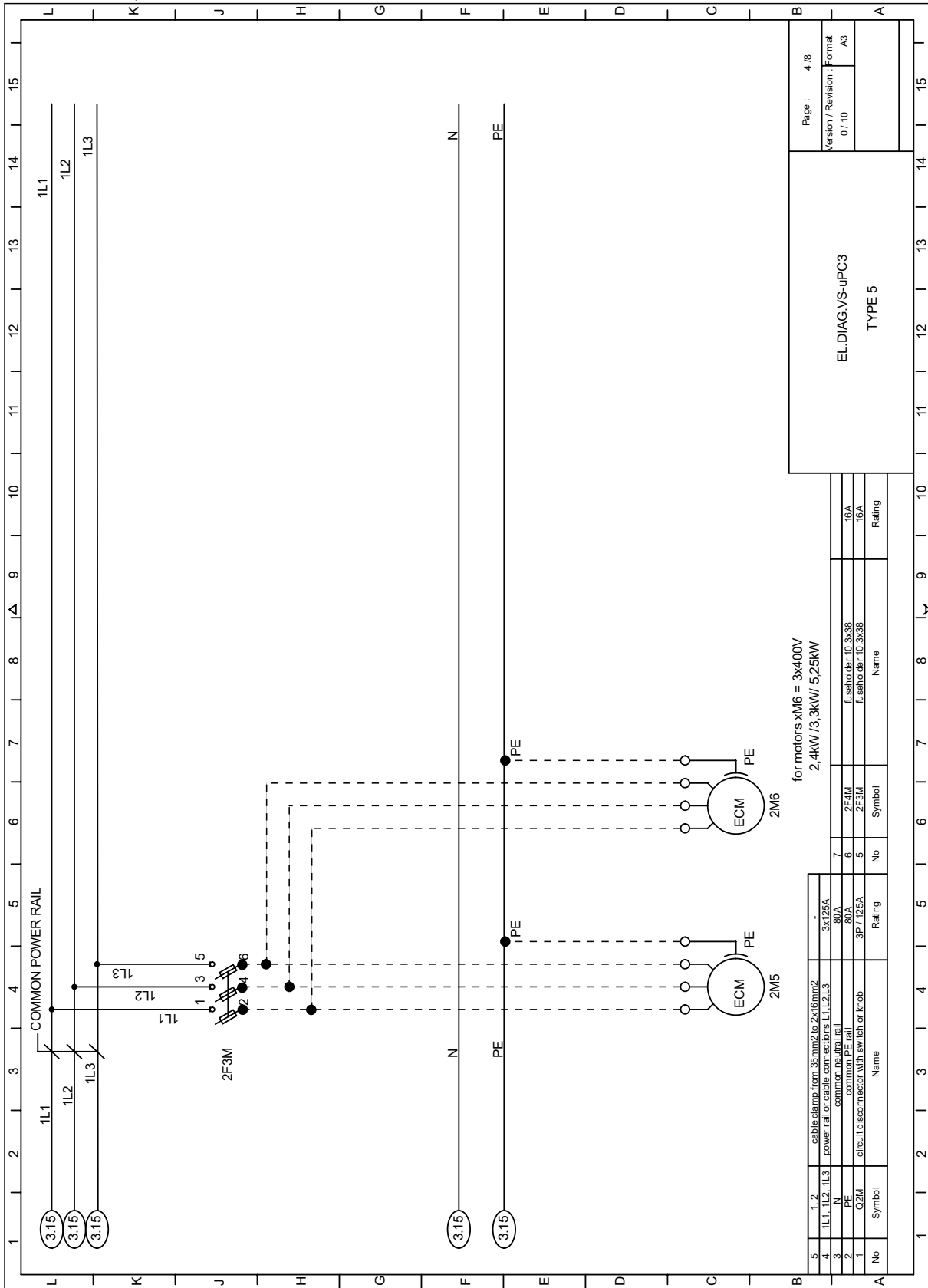
ECM 3.3kWx6; ECM 5.25kWx6 3/8



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EL DIAG.VS-uPC3
TYPE 5

ECM 3.3kWx6, ECM 5.25kWx6 4/8



for motors xM6 = 3x400V
2,4kW / 3,3kW / 5,25kW

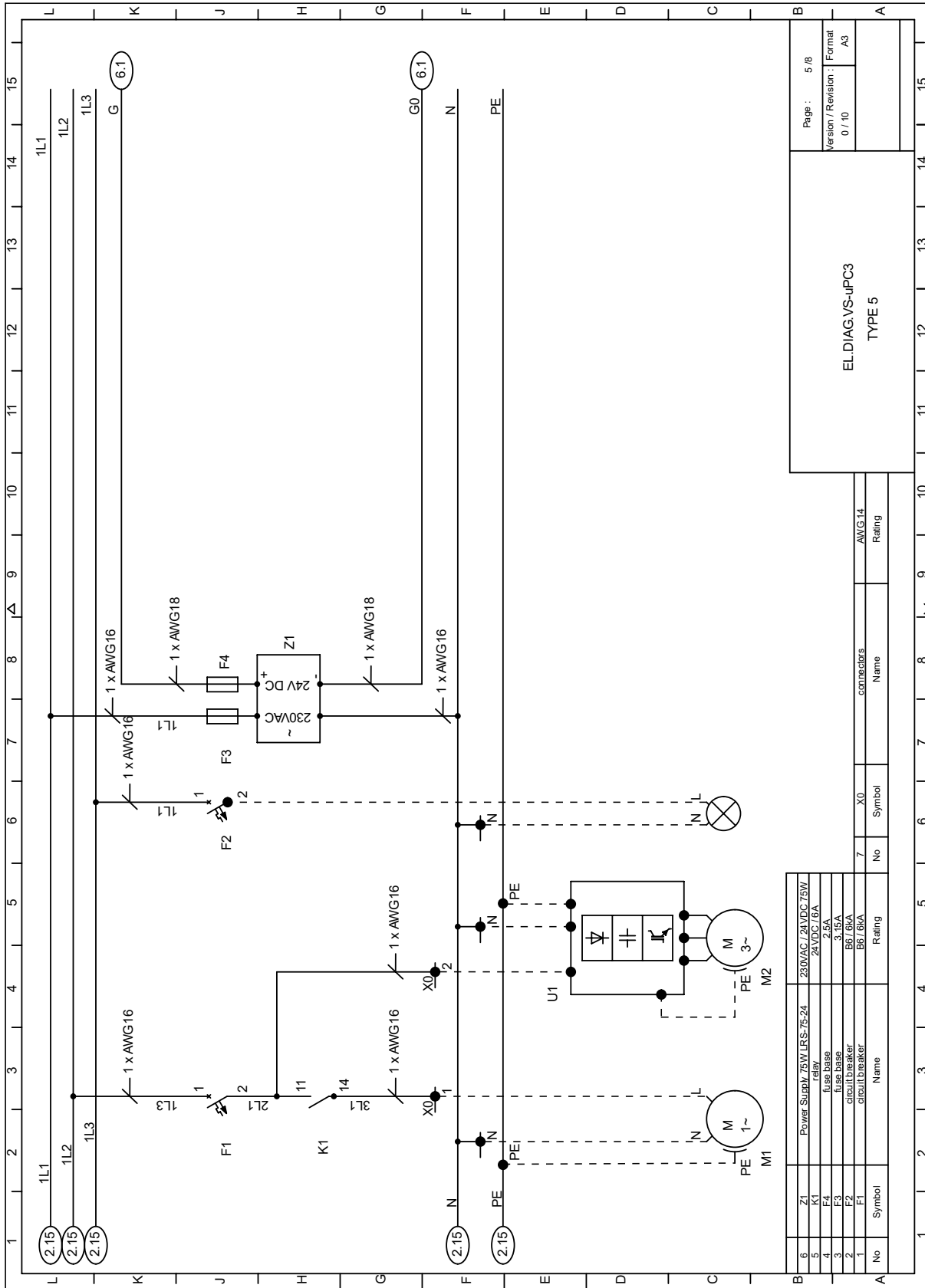
5	1, 2	cable clamp from 35mm ² to 2x16mm ²				
4	1L1, 1L2, 1L3	power rail or cable connections L1, L2, L3	3x125A			
3	N	common neutral rail	80A			
2	PE	common PE rail	80A			
1	G2M	circuit disconnector with switch or knob	3P / 125A			
No	Symbol	Name	Rating	No	Symbol	Rating

7	2F4M	fuseholder 10.3x38	16A
6	2F3M	fuseholder 10.3x38	16A
5			
No	Symbol	Name	Rating

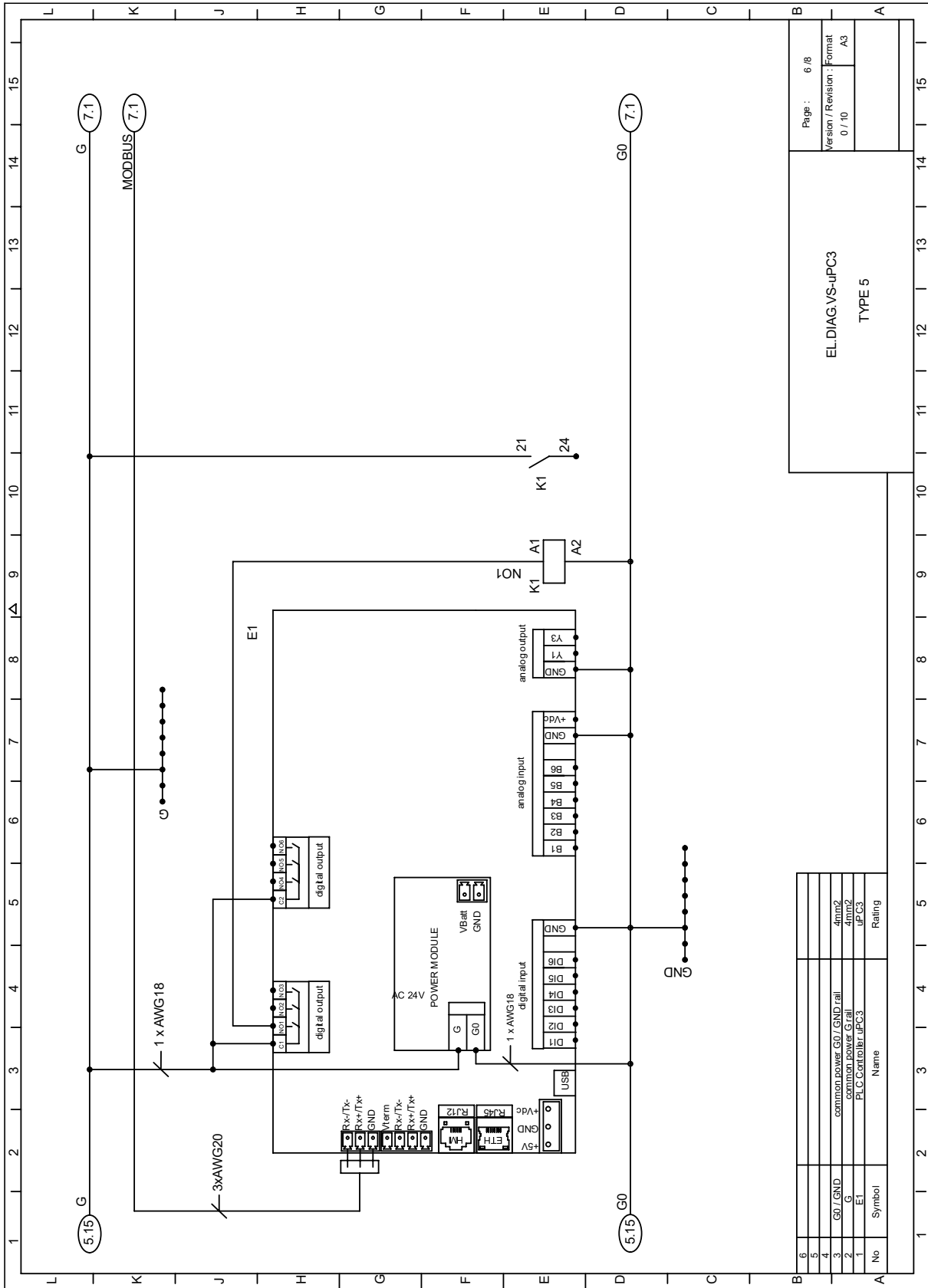
EL DIAG VS-UPC3
TYPE 5

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ECM 3.3kWx6, ECM 5.25kWx6 5/8

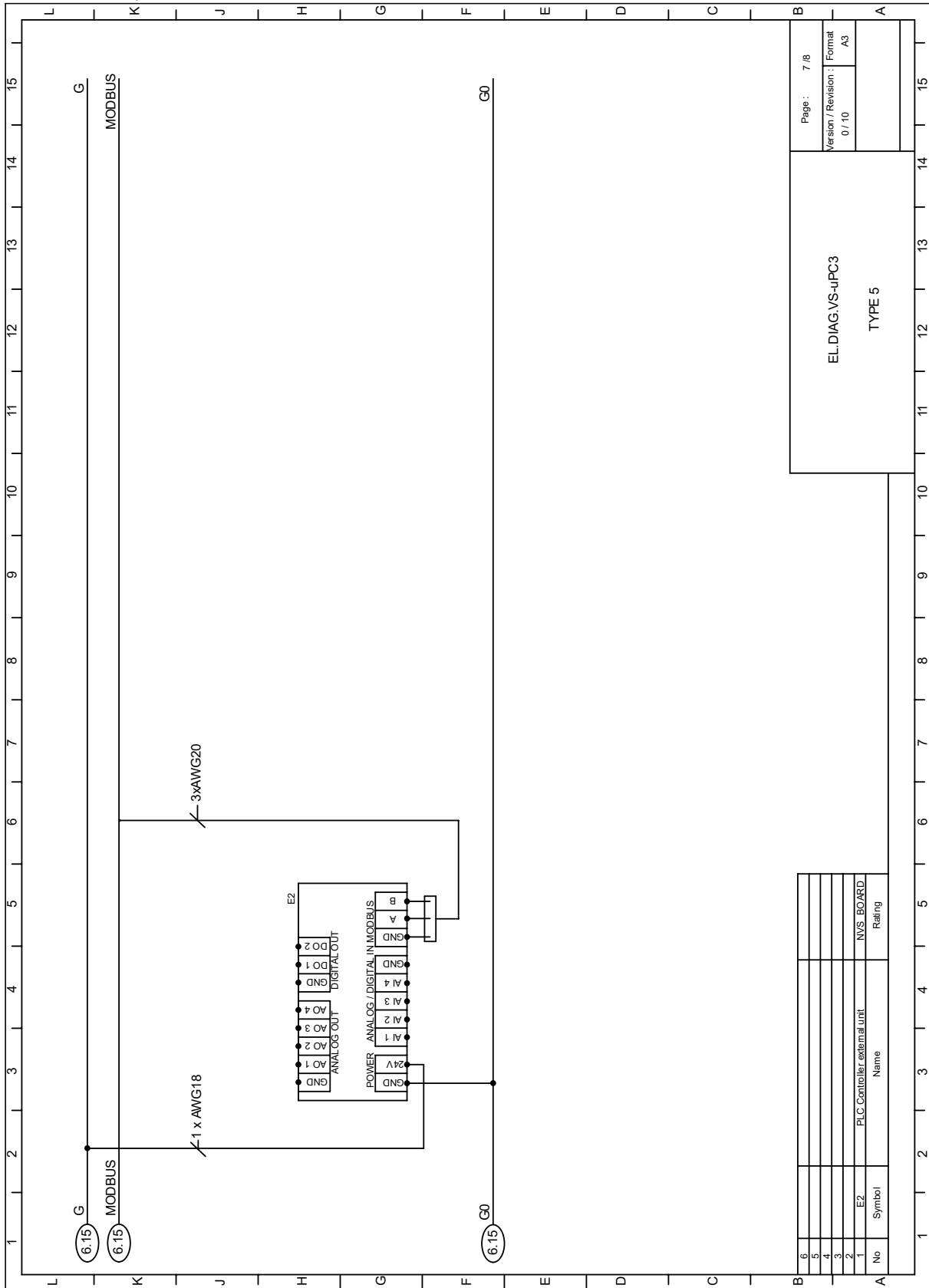


ECM 3.3kWx6, ECM 5.25kWx6 6/8

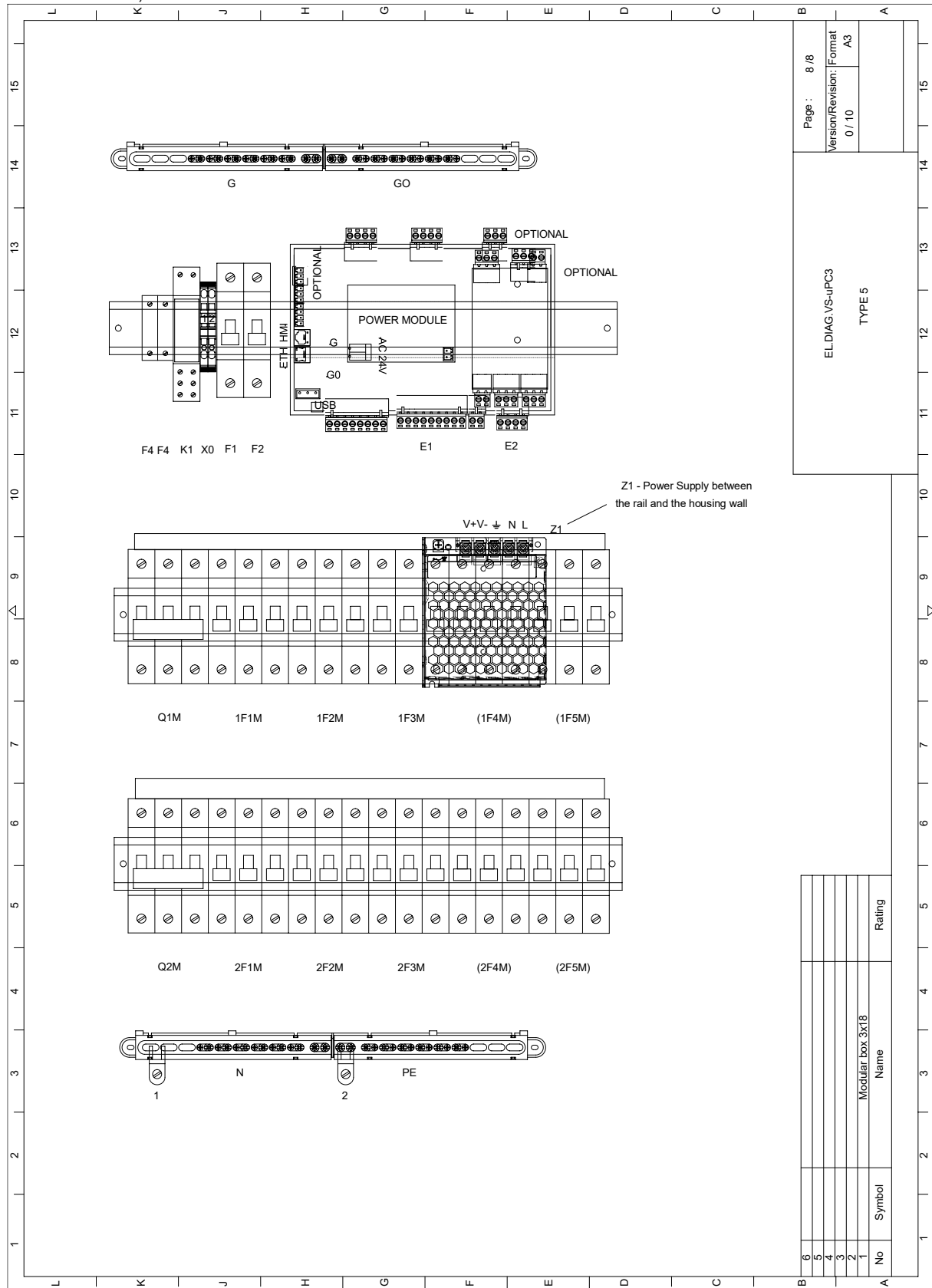


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EL.DIAG.VS-uPC3 TYPE 5	

ECM 3.3kWx6, ECM 5.25kWx6 7/8

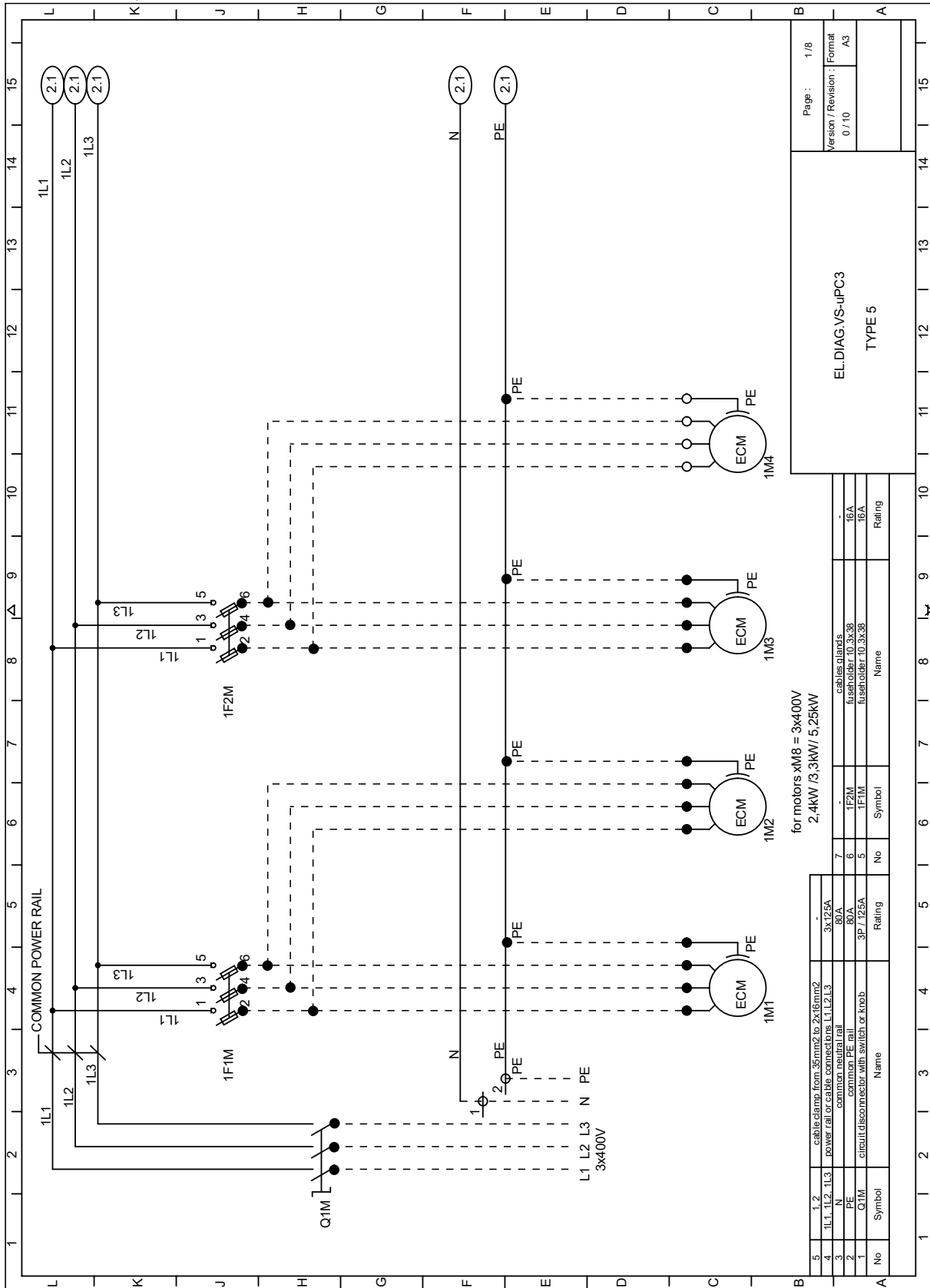


ECM 3.3kWx6, ECM 5.25kWx6 8/8

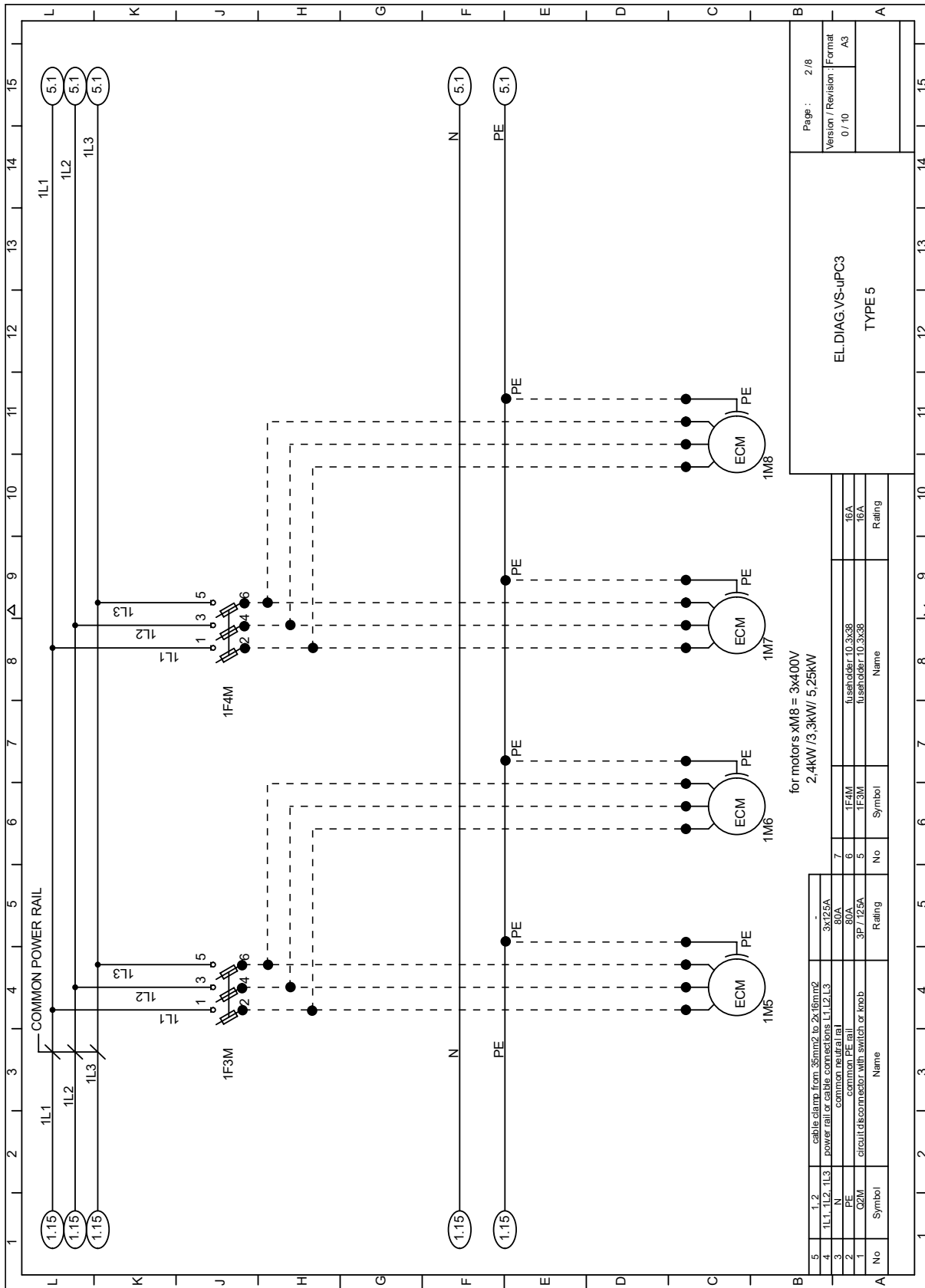


5.1.3 EC VVS650- 3.3kW x8, 5.25kW x8

ECM 3.3kWx8, ECM 5.25kWx8 1/8



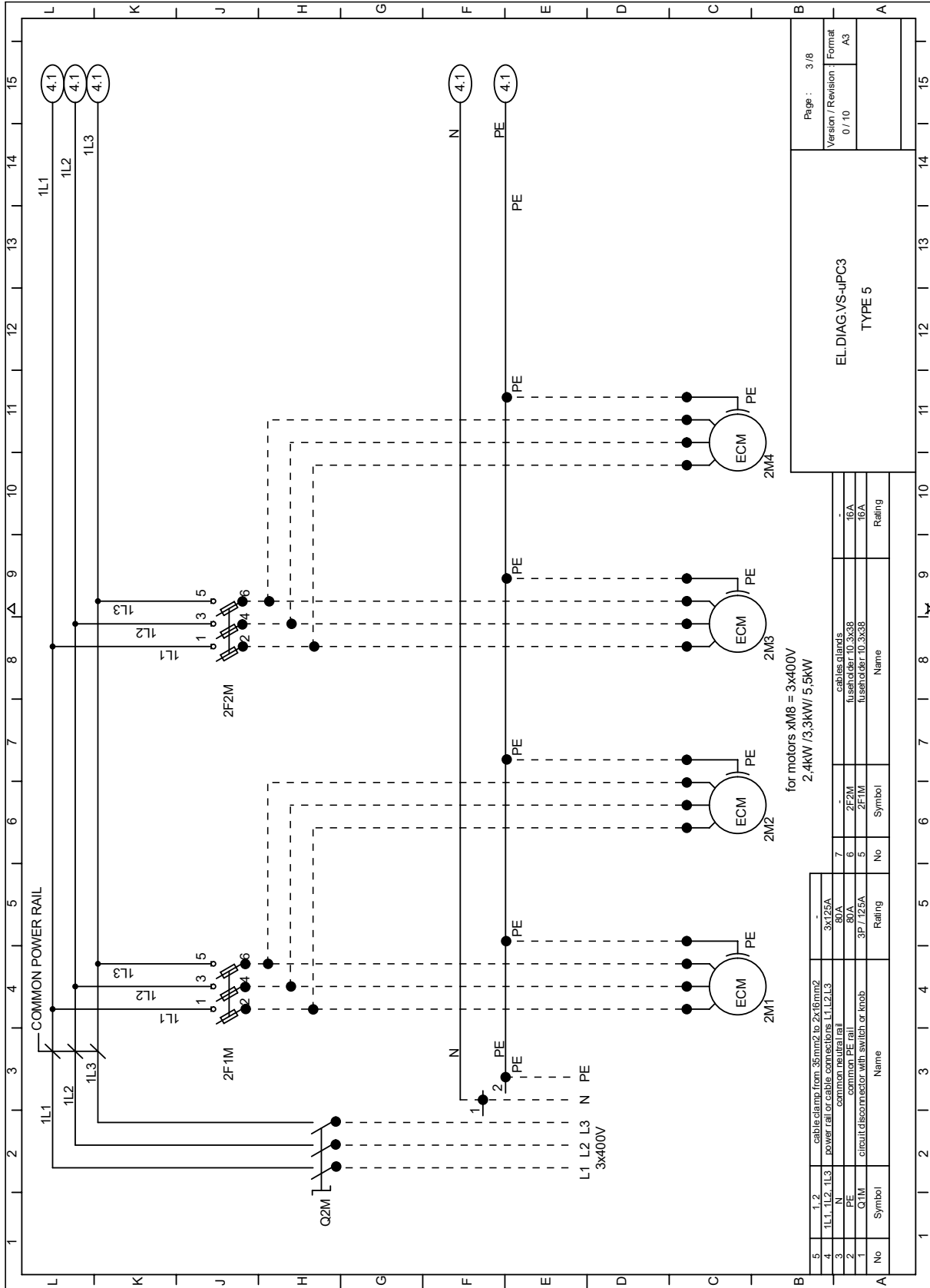
ECM 3.3kWx8, ECM 5.25kWx8 2/8



for motors xM8 = 3x400V
2,4kW / 3,3kW / 5,25kW

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Version / Revision	Format			
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EL DIAG.VS-uPC3 TYPE 5				
No	Name	Symbol	No	Rating
7	fuseholder 10.3x38	1F4M	16A	
6	fuseholder 10.3x38	1F3M	16A	
5	fuseholder 10.3x38			

ECM 3.3kWx8, ECM 5.25kWx8 3/8



for motors xM8 = 3x400V
2,4kW /3,3kW / 5,5kW

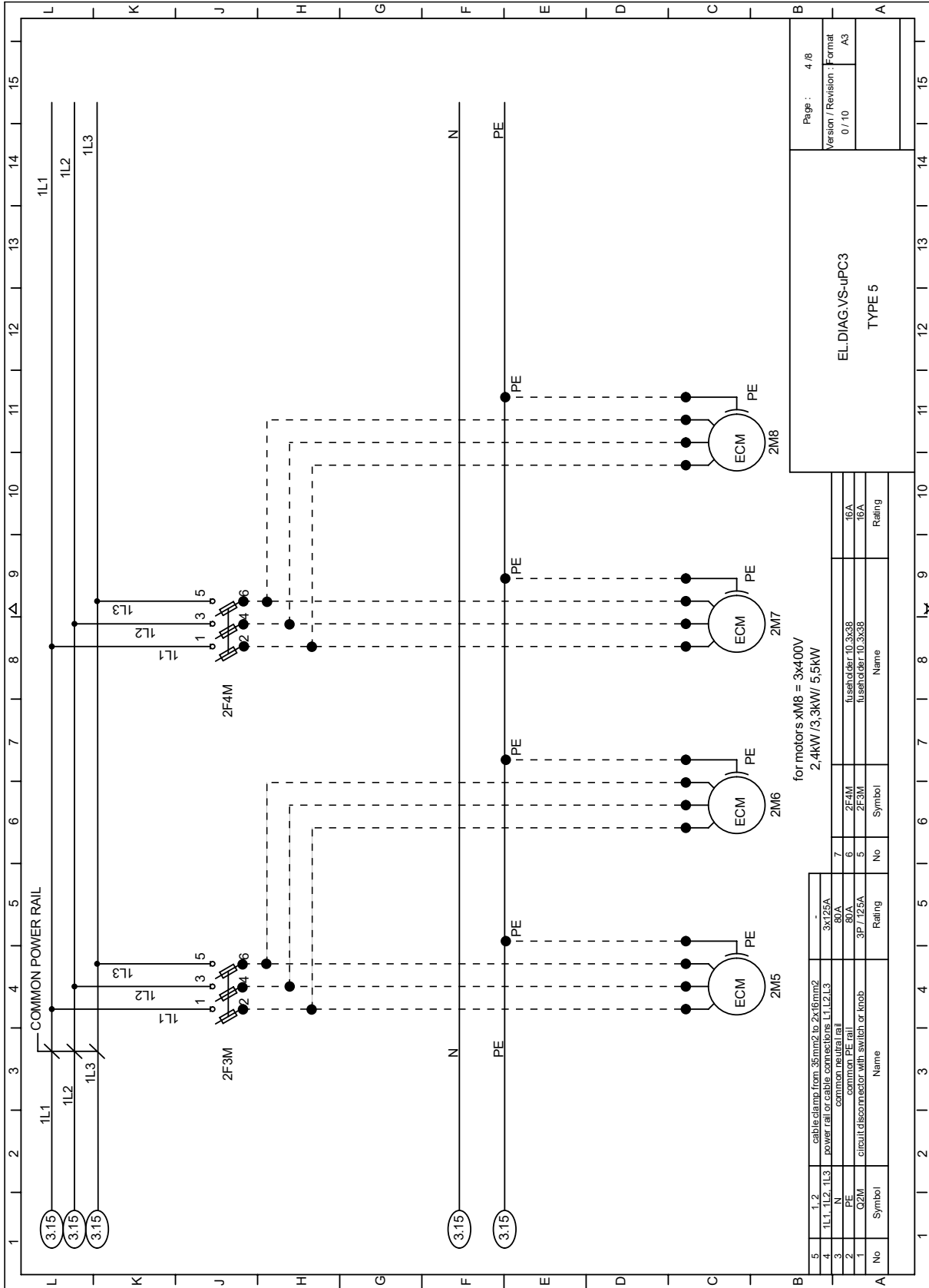
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Format :	A3

EL DIAG.VS-uPC3	
TYPE 5	

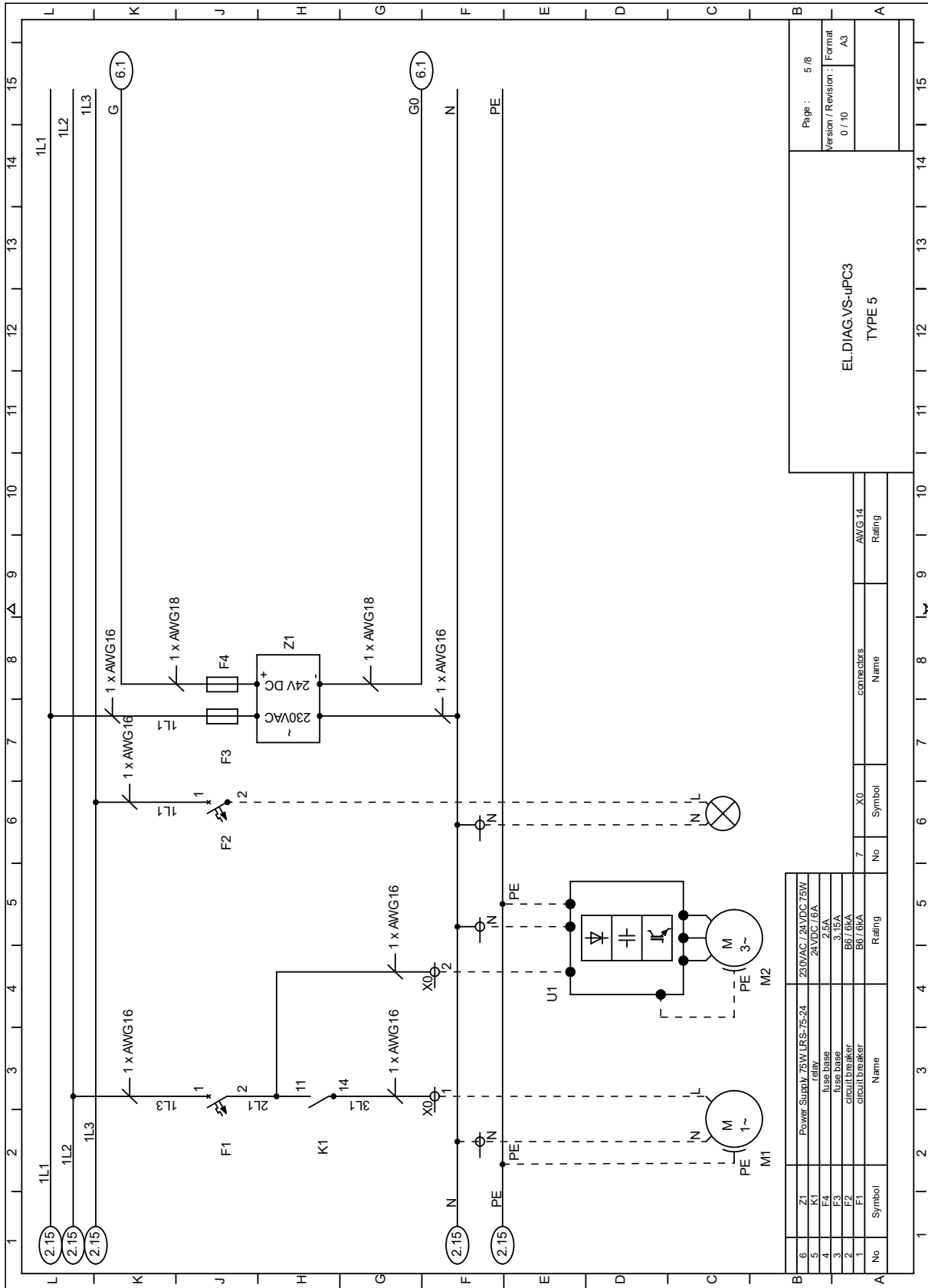
No	Symbol	Name	Rating
7	2F2M	2F2M	16A
6	2F1M	2F1M	16A
5		fuseholder-10.3x38	16A
4		fuseholder-10.3x38	16A

No	Symbol	Name	Rating
5	1, 2	cable clamp from 35mm ² to 2x16mm ²	
4	1L1, 1L2, 1L3	power rail or cable connections L1,L2,L3	3x125A
3	N	common neutral rail	80A
2	PE	common PE rail	80A
1	Q1M	circuit disconnector with switch or knob	3P, 7, 125A

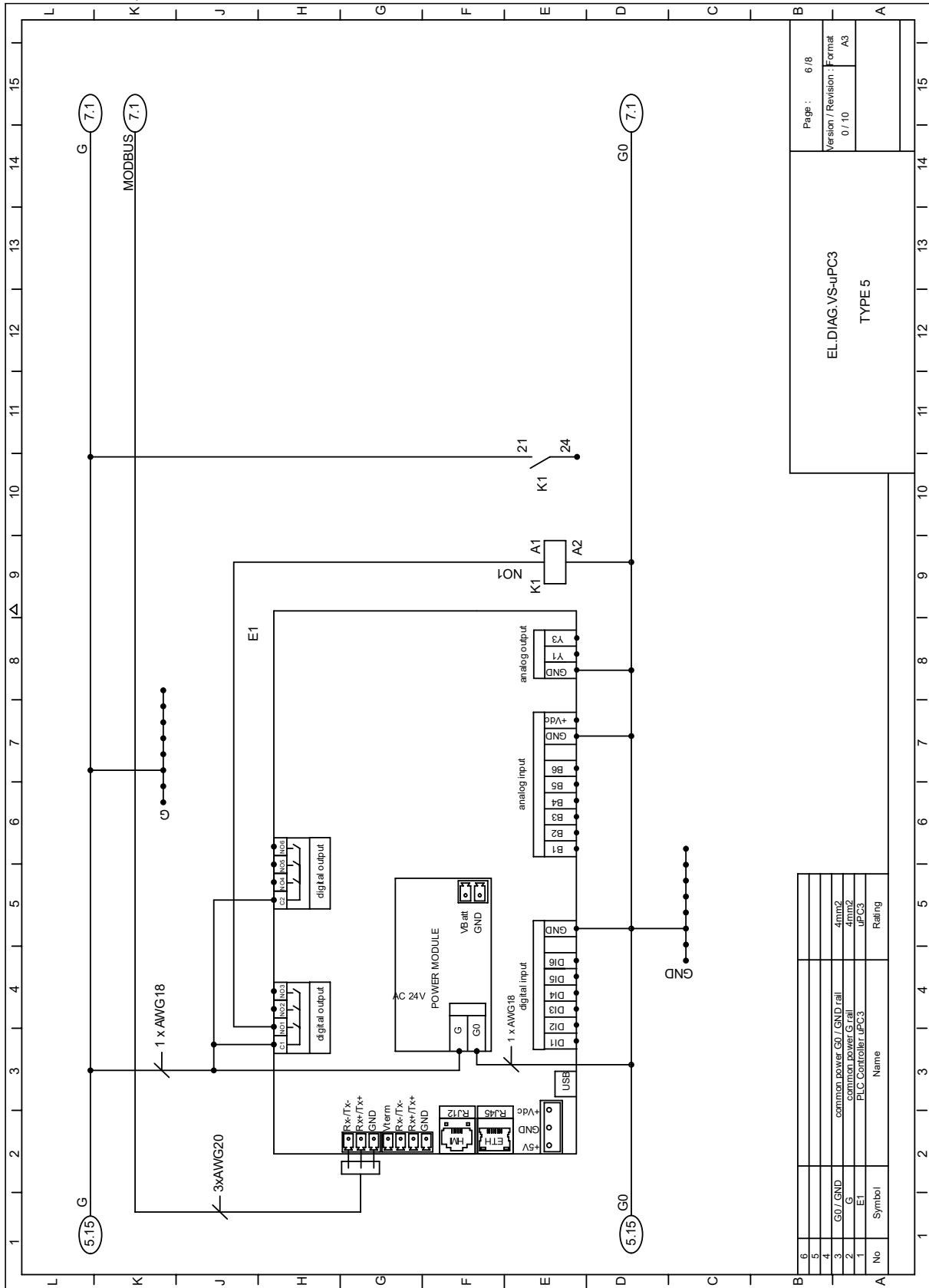
ECM 3.3kWx8, ECM 5.25kWx8 4/8



ECM 3.3kWx8, ECM 5.25kWx8 5/8



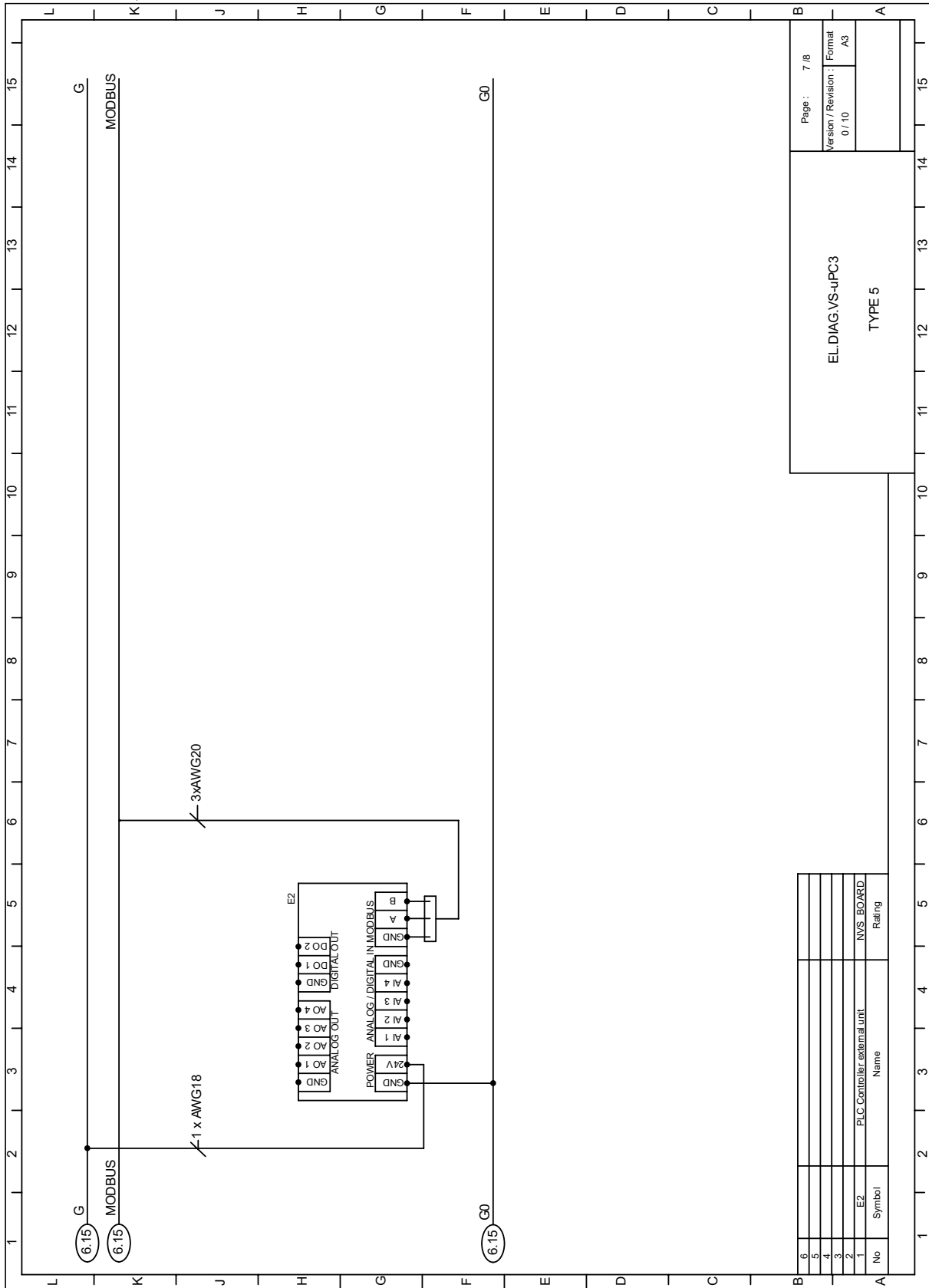
ECM 3.3kWx8, ECM 5.25kWx8 6/8



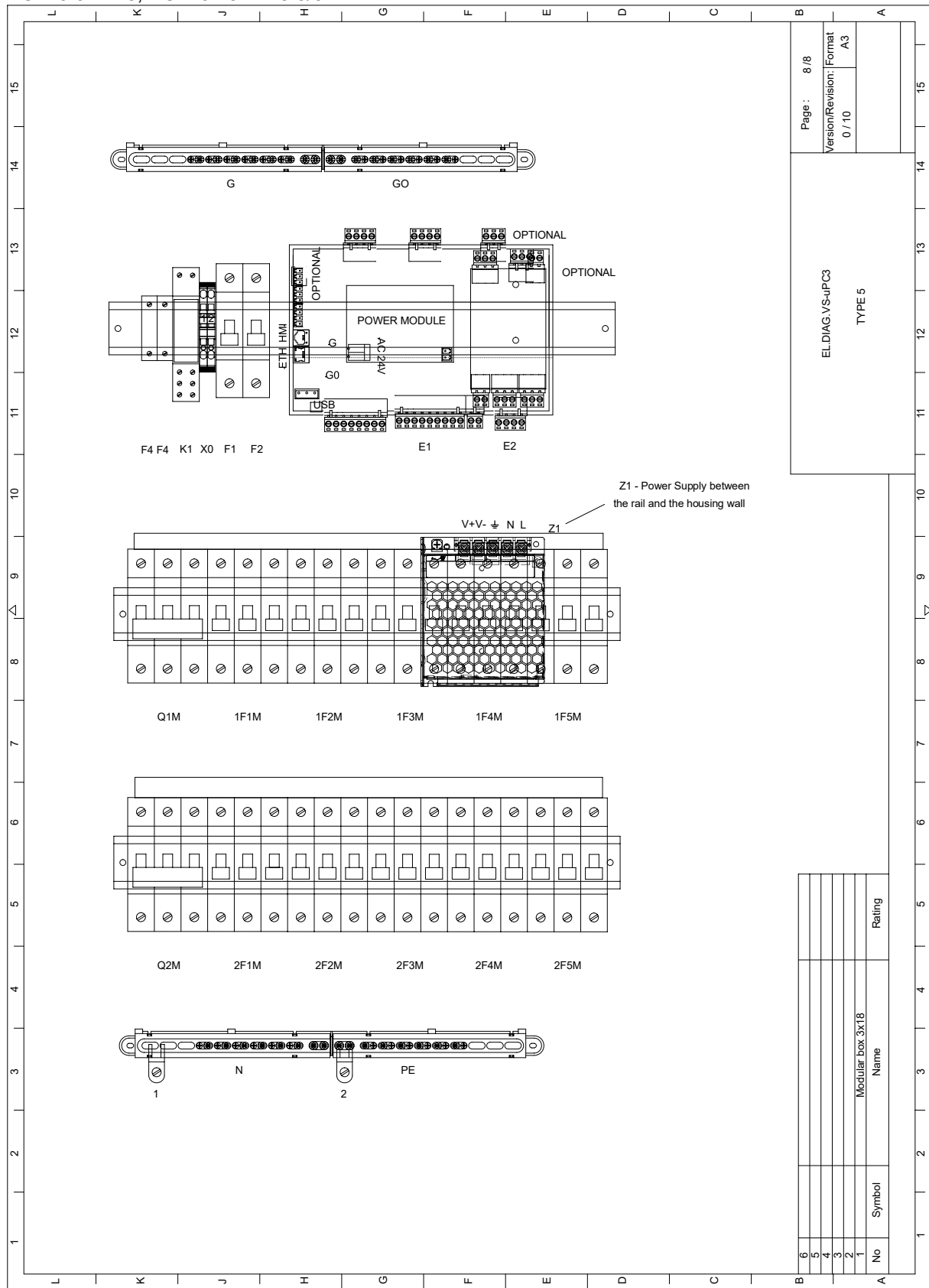
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EL.DIAG.VS-uPC3
TYPE 5

ECM 3.3kWx8, ECM 5.25kWx8 7/8



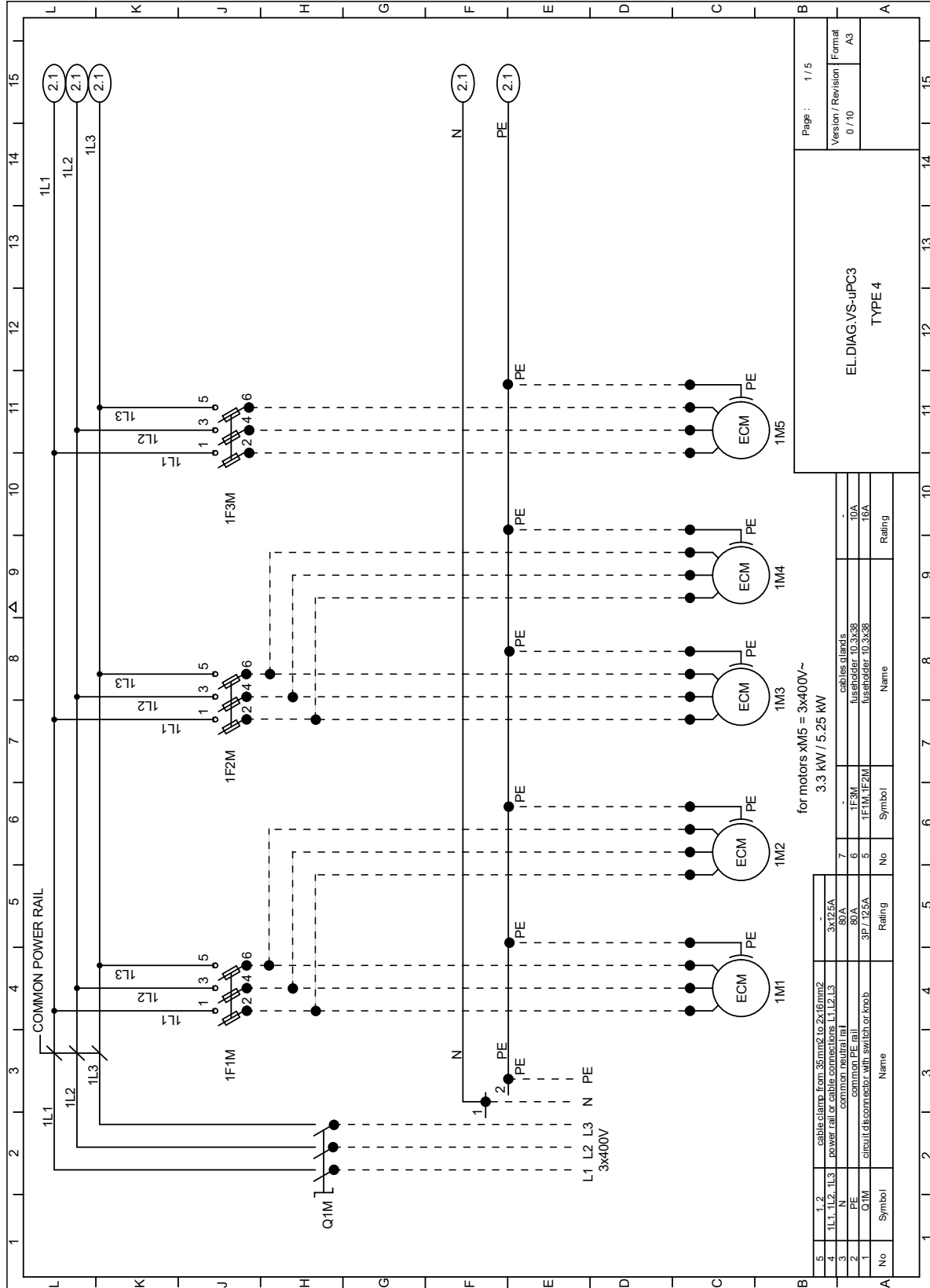
ECM 3.3kWx8, ECM 5.25kWx8 8/8



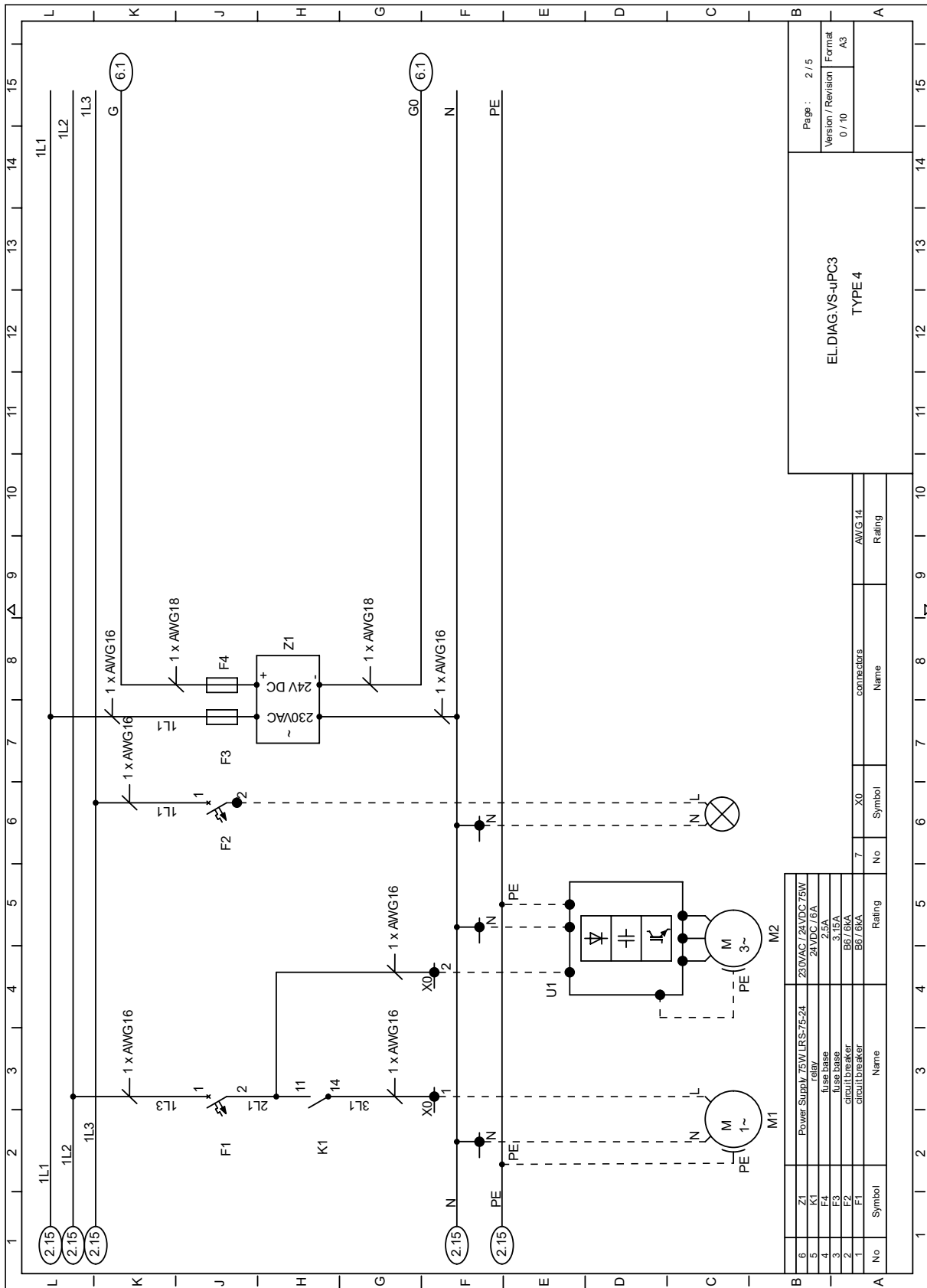
5.2 CONNECTION DIAGRAMS DOR SUPPLY UNITS

5.2.1 EC VVS400- 3.3kW x5, 5.25kW x5

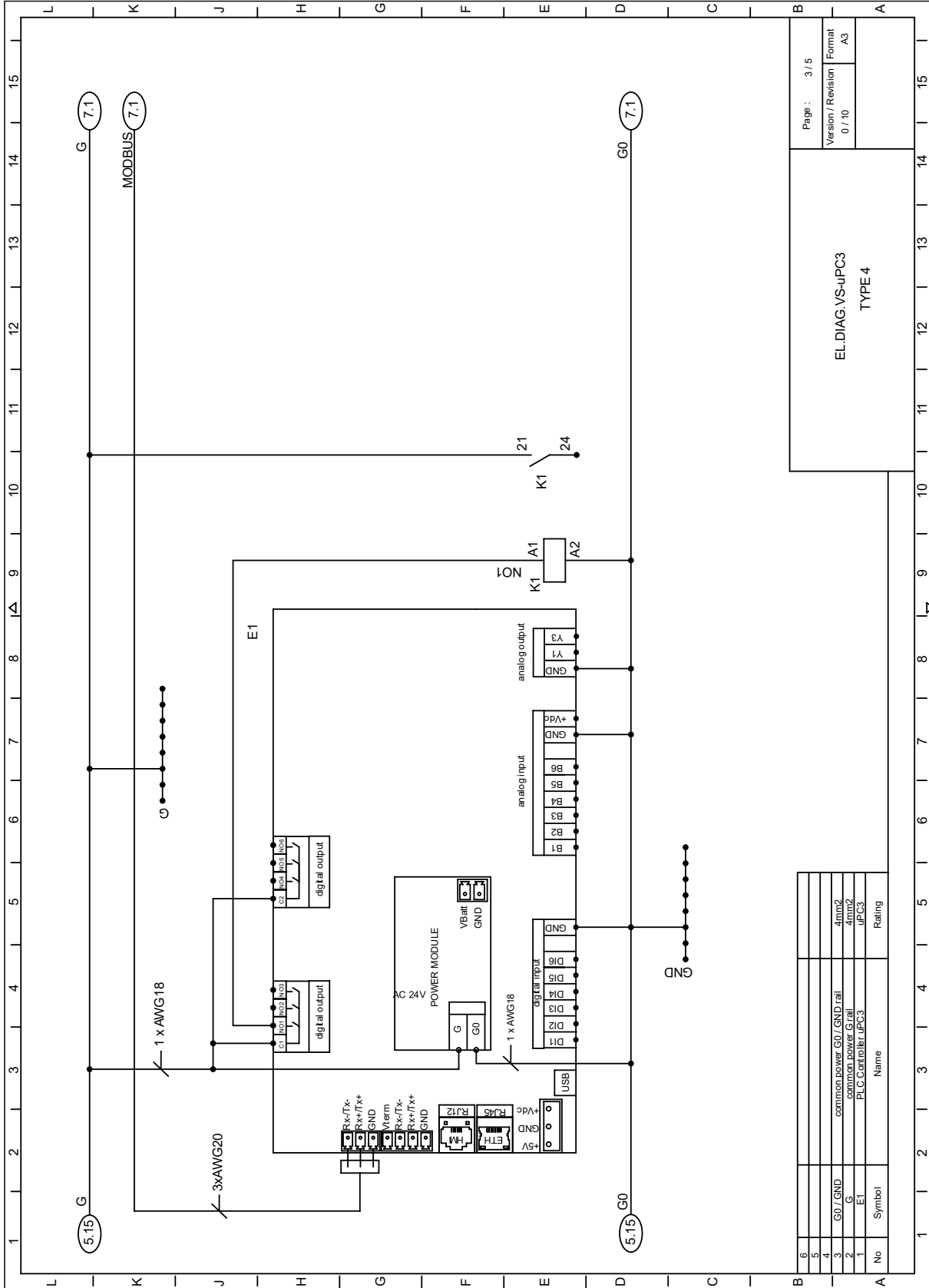
ECM 3.3kWx5, ECM 5.25kWx5 1/5



ECM 3.3kWx5, ECM 5.25kWx5 2/5



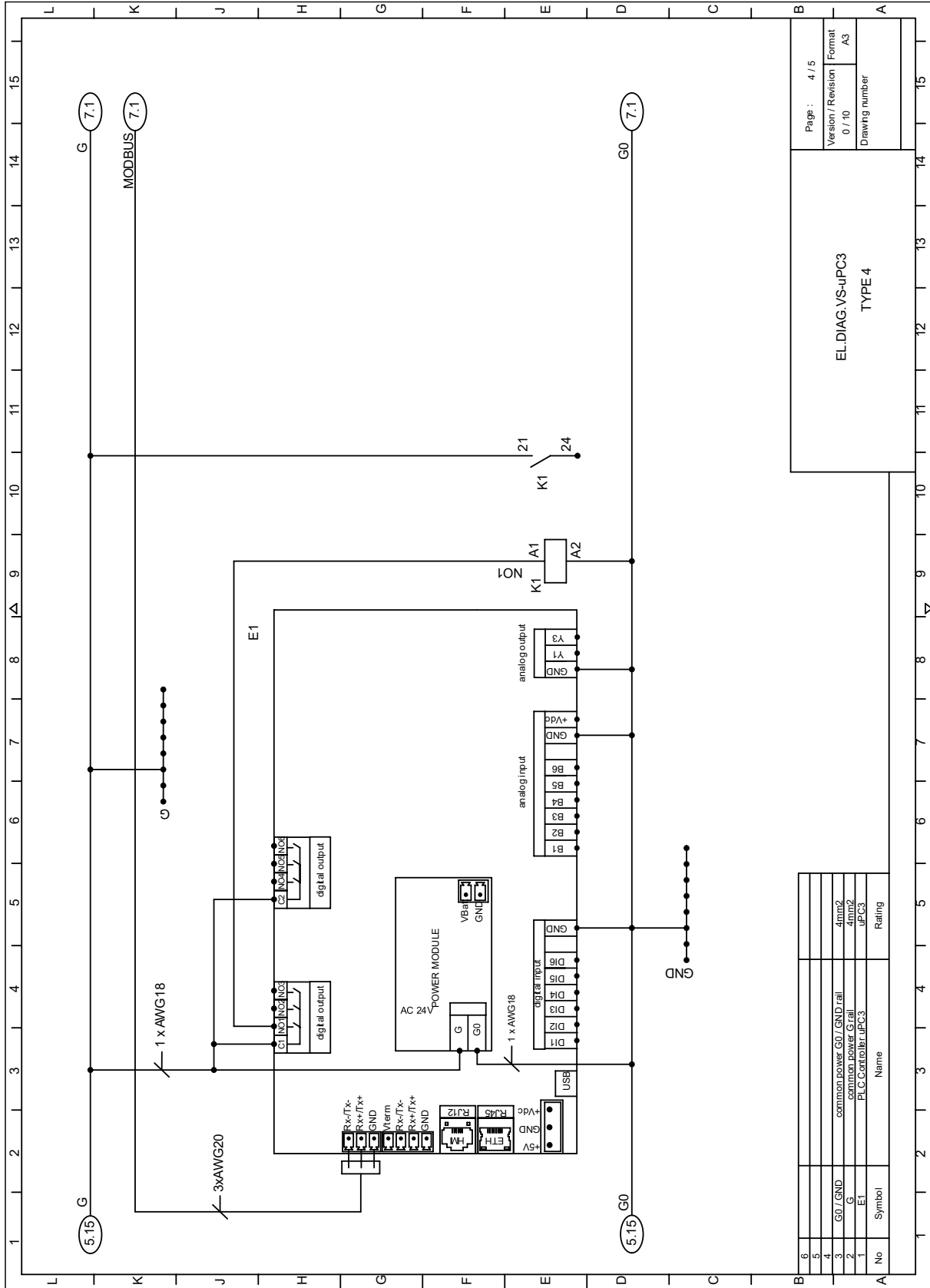
ECM 3.3kWx5, ECM 5.25kWx5 3/5



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EL-DIAG-VS-uPC3 TYPE 4	

No	Symbol	Name	Rating
6			
5			
4			
3	G0 / GND	common power G0 / GND rail	4mm ²
2	G	common power G rail	4mm ²
1	E1	PLC Controller uPC3	uPC3

ECM 3.3kWx5, ECM 5.25kWx5 4/5

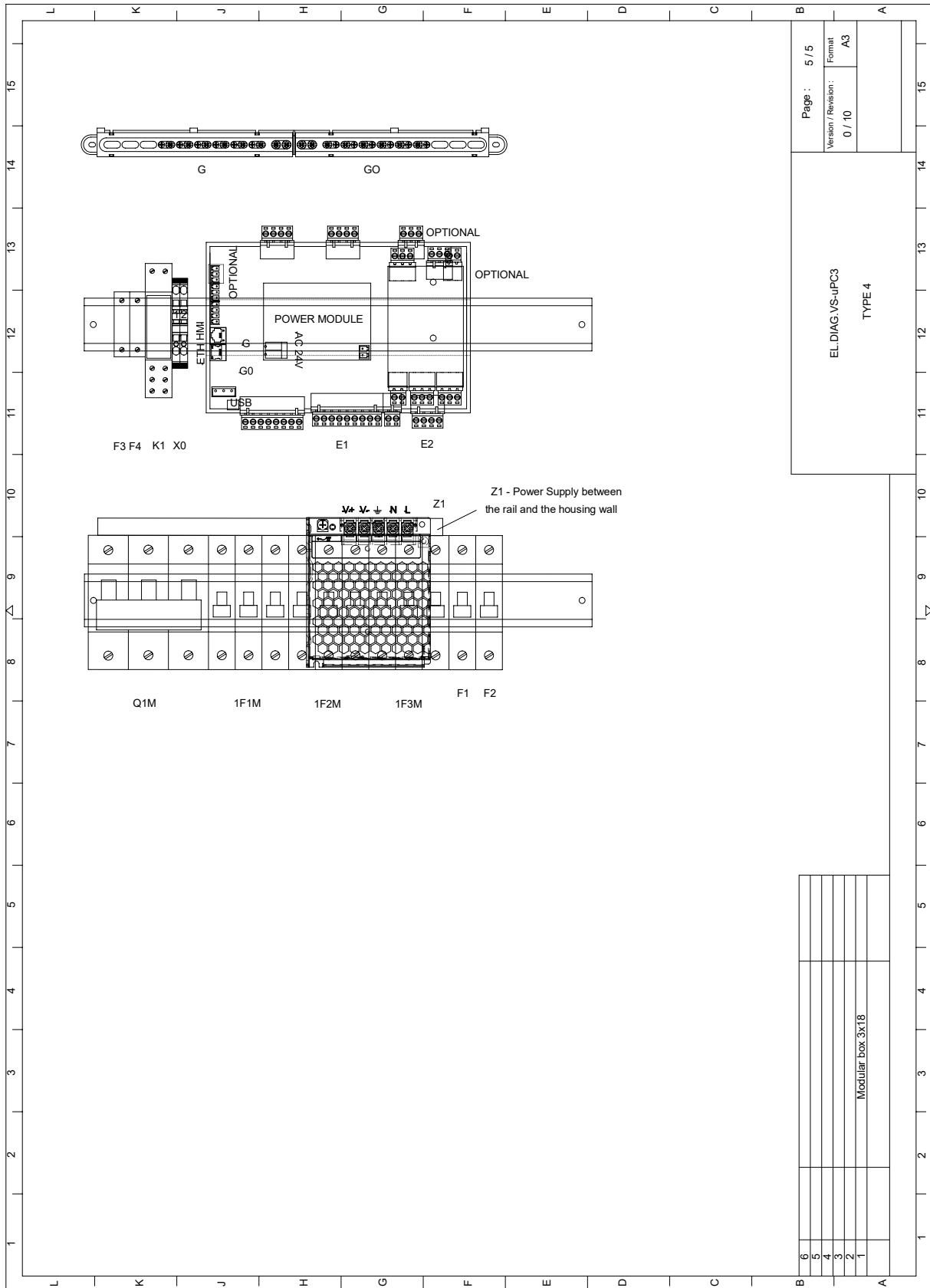


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Drawing number	

EL DIAG VS-UPC3
TYPE 4

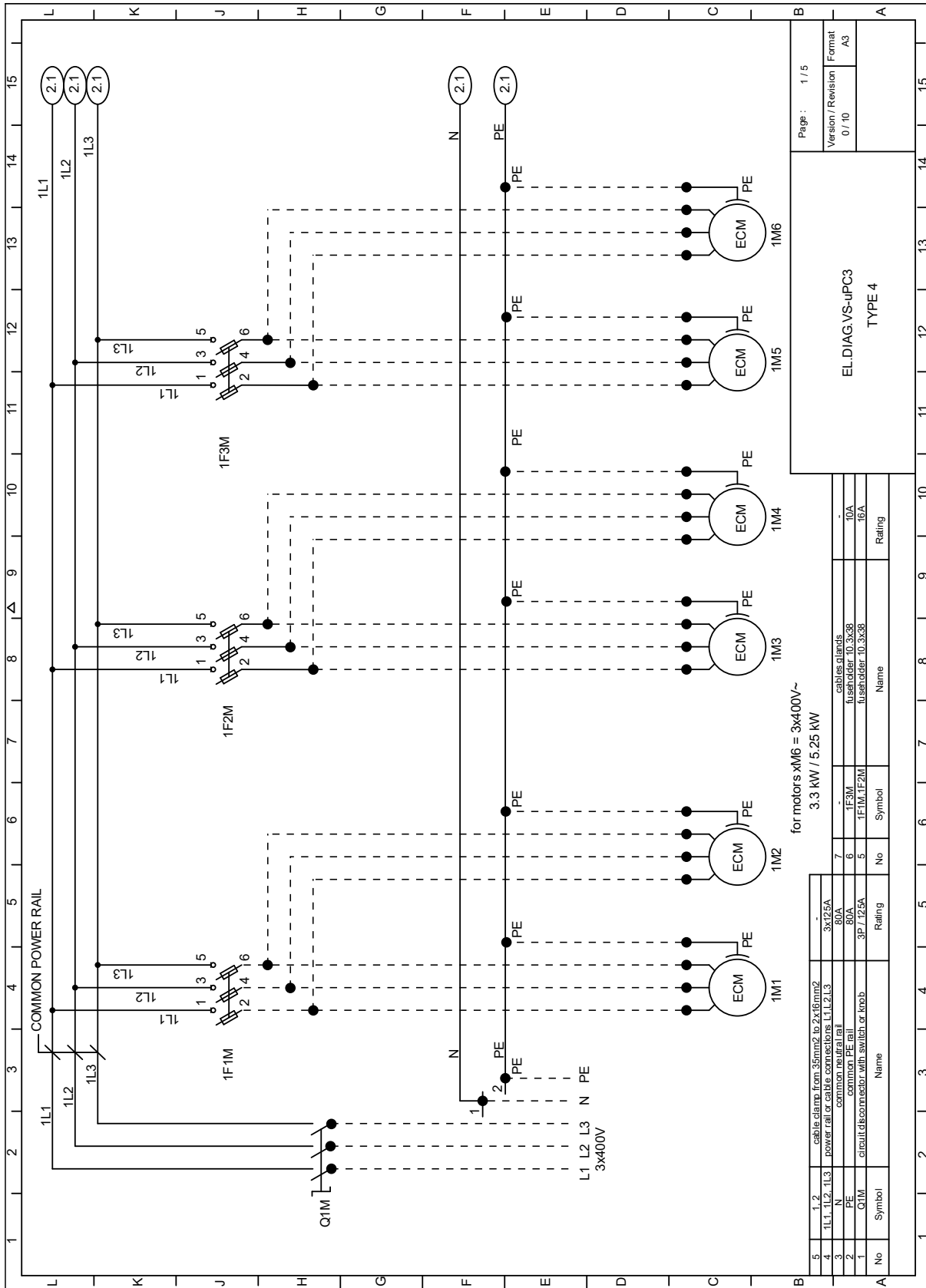
No	Symbol	Name	Rating
6			
5			
4			
3	G0 / GND	common power G0 / GND rail	4mm ²
2	G	common power G rail	4mm ²
1	E1	PLC Controller iPC3	iPC3

ECM 3.3kWx4, ECM 5.25kWx4 5/5

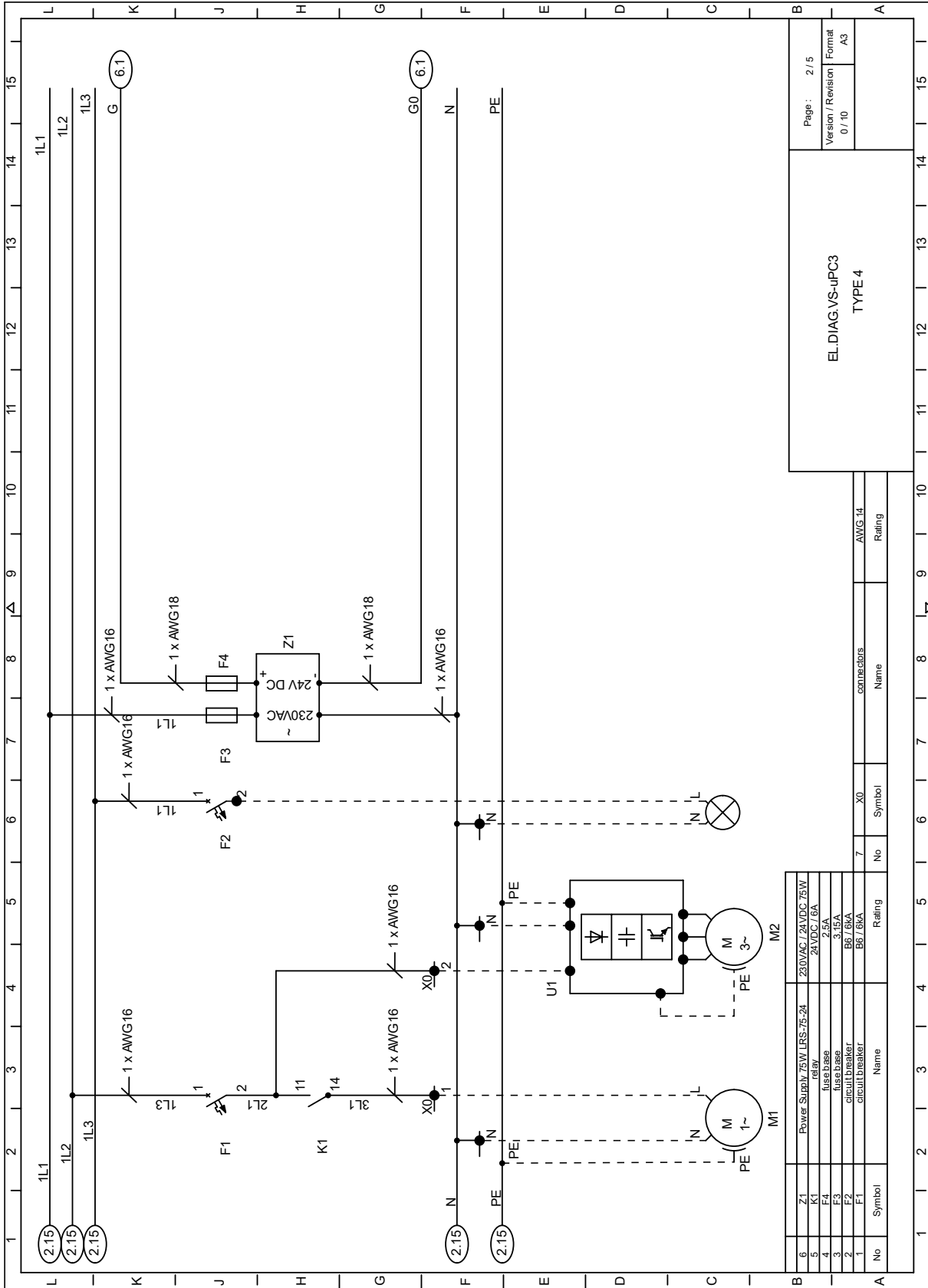


5.2.2 EC VVS500- 3.3kW x6, 5.25kW x6

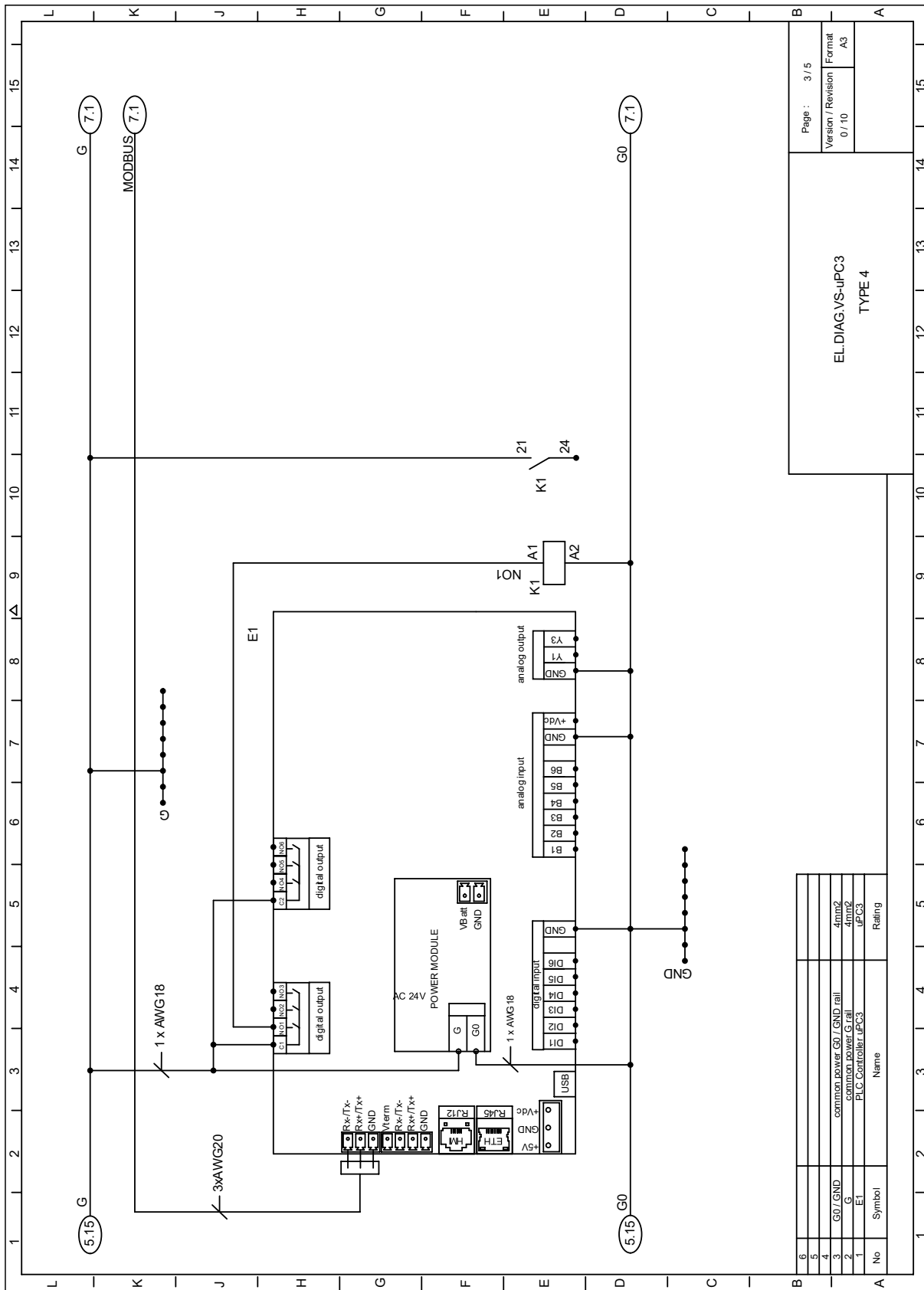
ECM 3.3kWx6, ECM 5.25kWx6 1/5



ECM 3.3kWx6, ECM 5.25kWx6 2/5



ECM 3.3kWx6, ECM 5.25kWx6 3/5

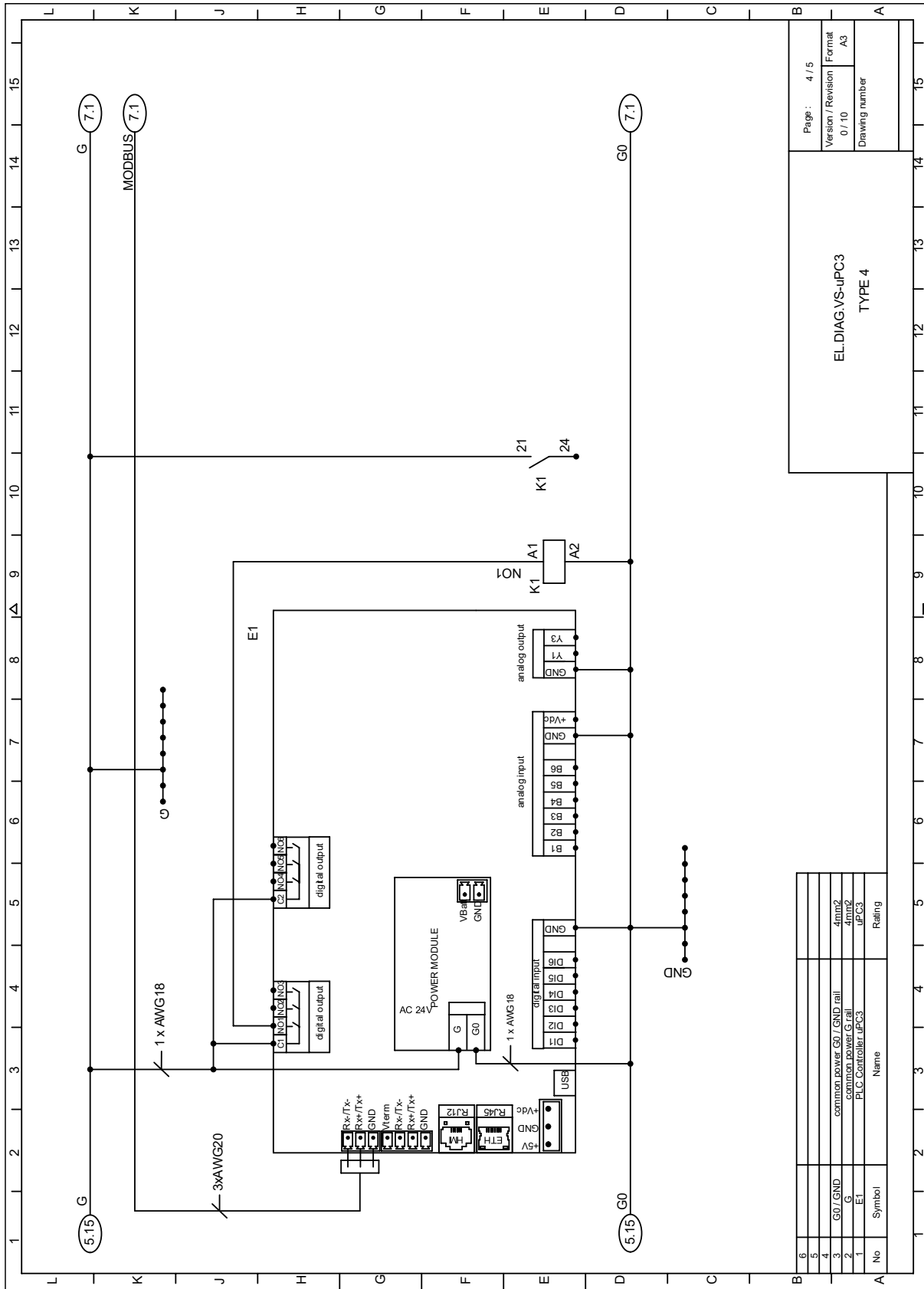


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EL DIAG VS-UPC3
TYPE 4

No	Symbol	Name	Rating
6			
5			
4	G0 / GND	common power G0 / GND rail	4mm ²
3	G	common power G rail	4mm ²
2	E1	PLC Controller uPC3	
1			

ECM 3.3kWx6, ECM 5.25kWx6 4/5

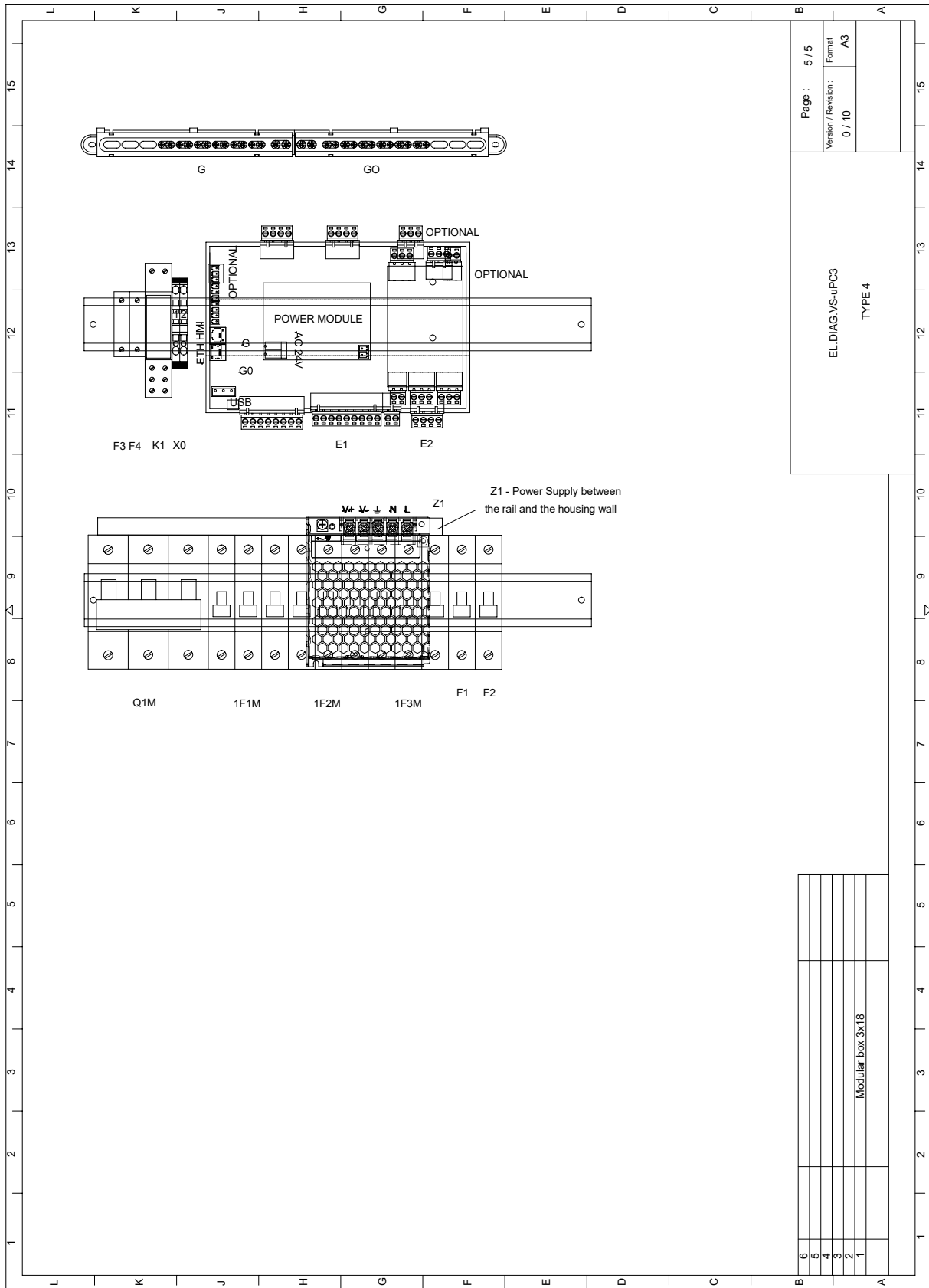


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Drawing number	

EL DIAG VS-UPC3
TYPE 4

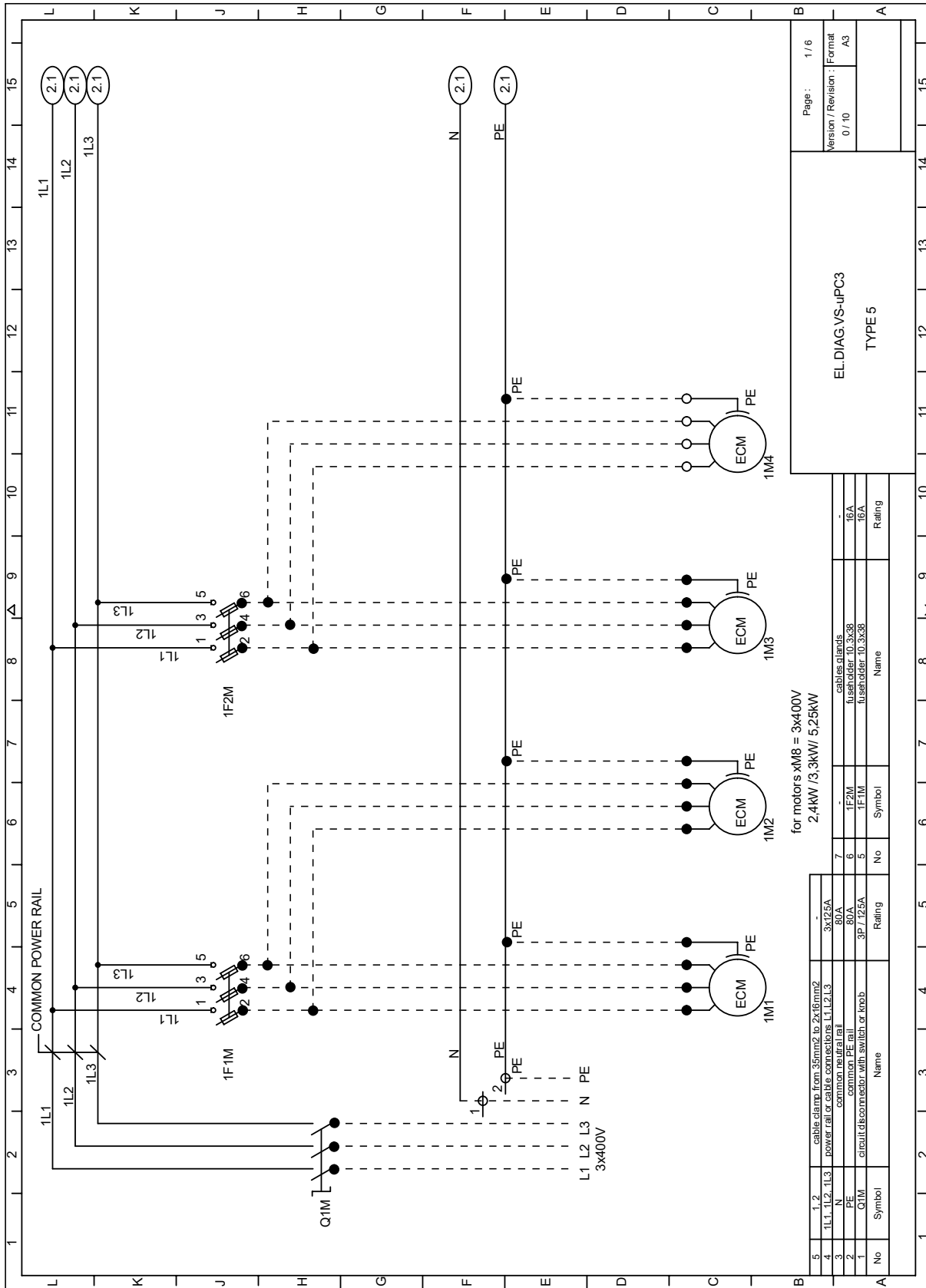
No	Symbol	Name	Rating
6			
5			
4		common power G0 / GND rail	4mm ²
3	G0 / GND	common power G rail	4mm ²
2	G	common power G rail	4mm ²
1	E1	PLC Controller uPC3	uPC3

ECM 3.3kWx6, ECM 5.25kWx6 5/5

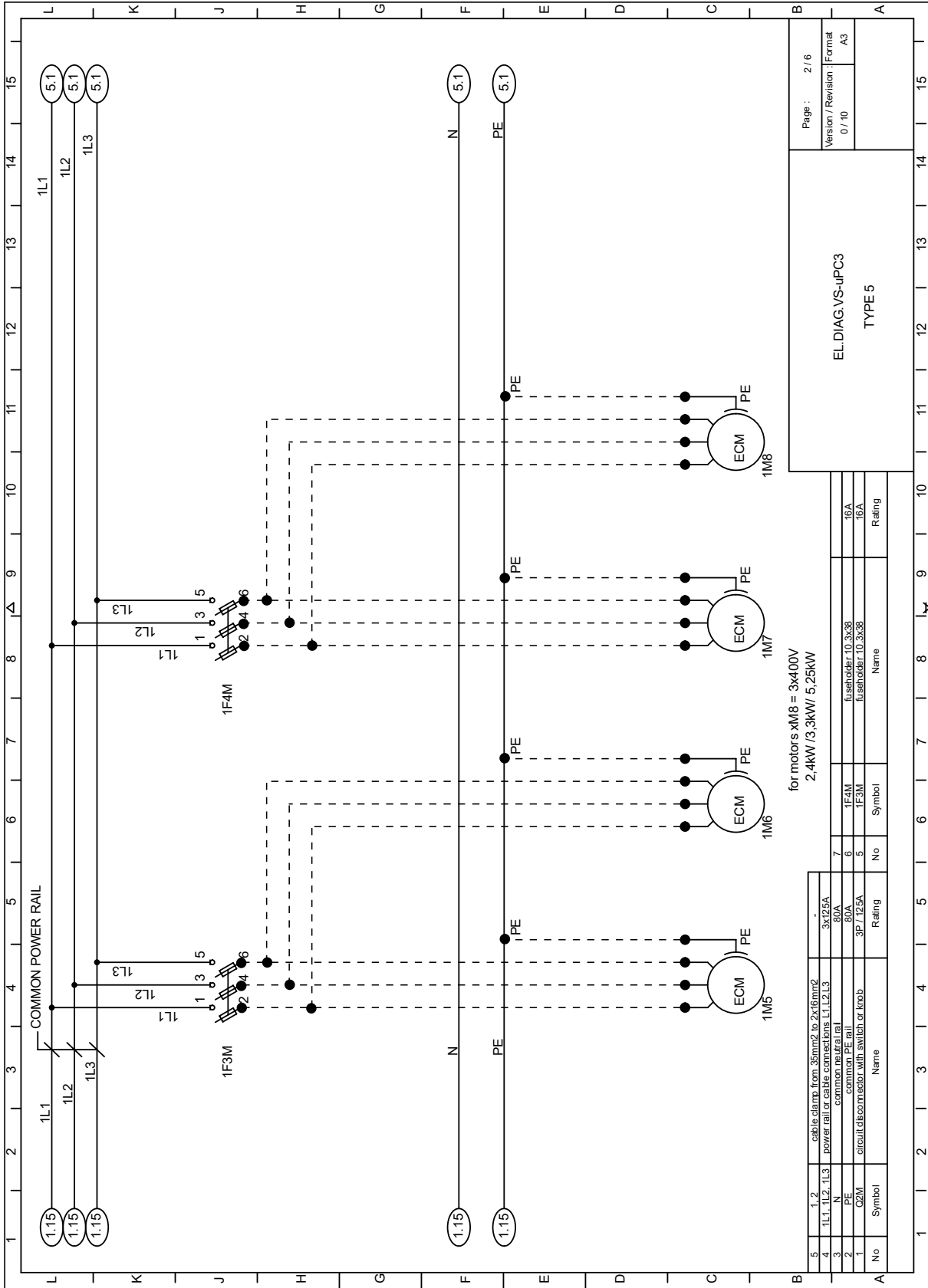


5.2.3 EC VVS650- 3.3kW x8, 5.25kW x8

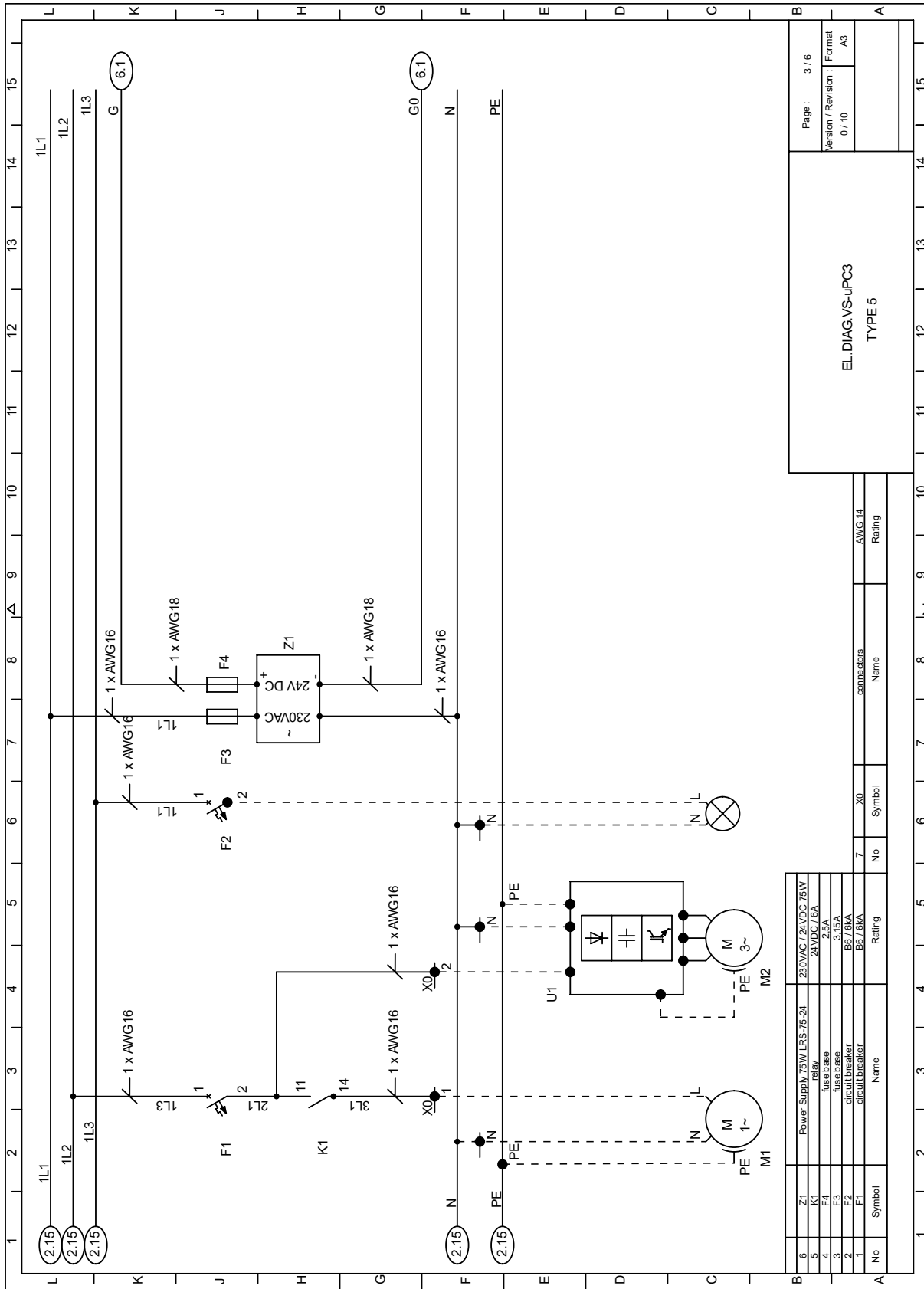
ECM 3.3kWx8, ECM 5.25kWx8 1/6



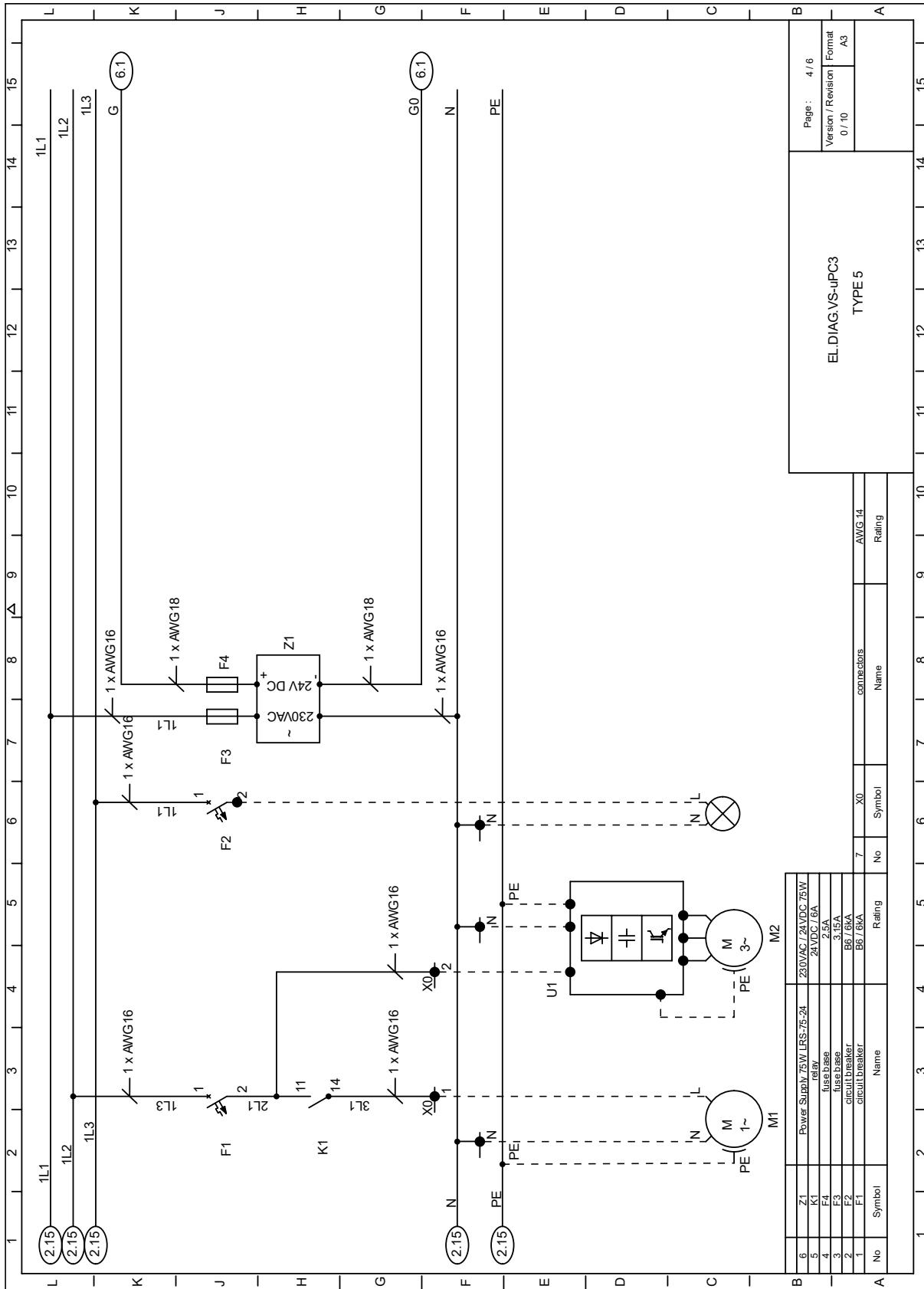
ECM 3.3kWx8, ECM 5.25kWx8 2/6



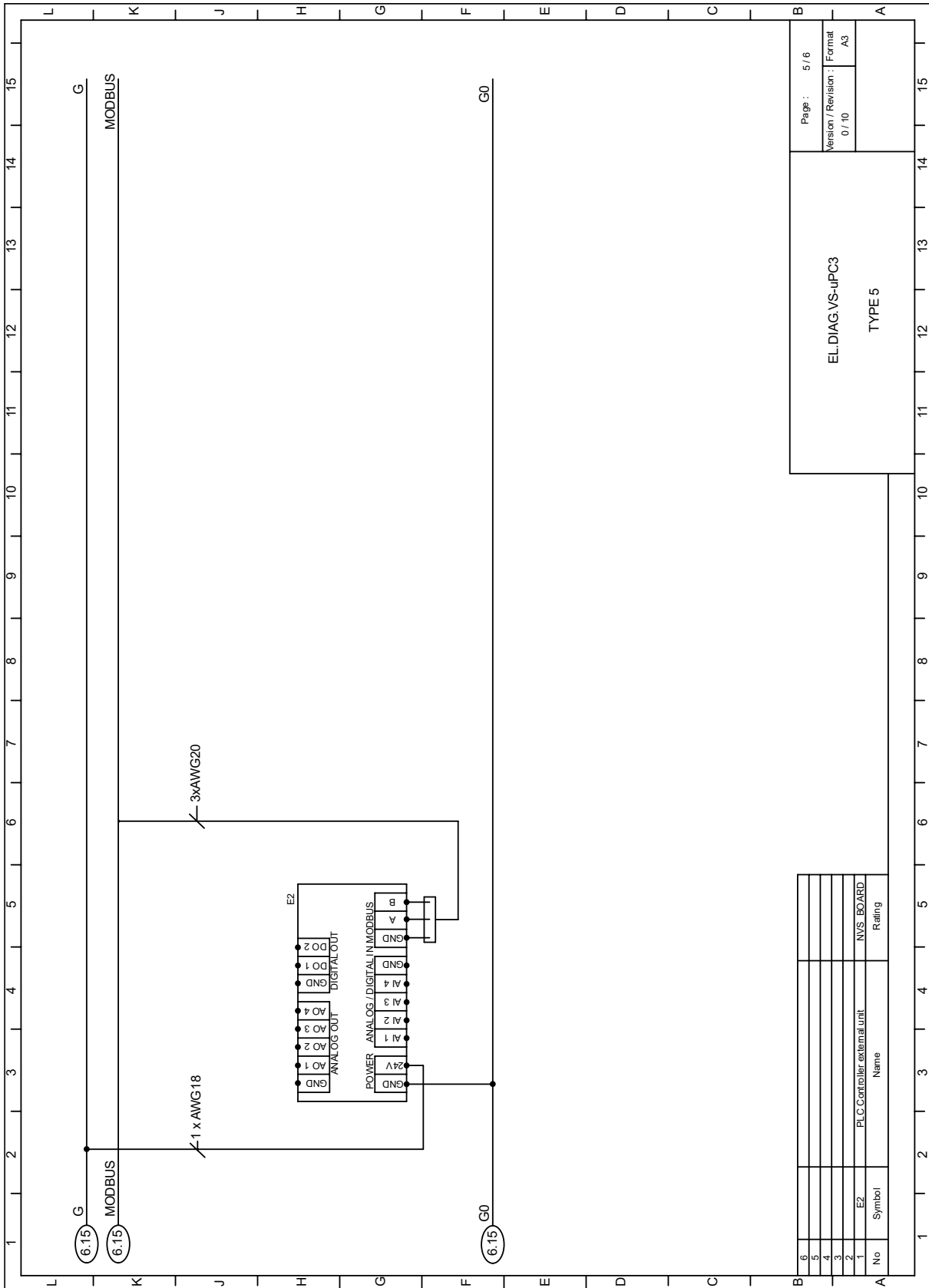
ECM 3.3kWx8, ECM 5.25kWx8 3/6



ECM 3.3kWx8, ECM 5.25kWx8 4/6



ECM 3.3kWx8, ECM 5.25kWx8 5/6



ECM 3.3kWx8, ECM 5.25kWx8 6/6

