0	1	2	3	4	5	6	7	8	9

TATA STEEL

ACS
Think Digital. Think Value
Amossys Digital Pvt. Ltd

Plant	:	CCM 3
Machine	:	GENERAL PLC (PLC Room)
Customer	:	TATA STEEL LIMITED, GAMHARIA
Specification	:	GENERAL PLC (PLC Room)
Order number	:	2300075403/J11, 09.07.2025
CAD - Number	:	ADPL/25-26/045/TSLG/01
Job number	:	25-26/045/PJ/TSLG
Client documents no.	:	

Status V1 - 01

Preliminary

2

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Title page/Cover sheet	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 1
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AA000.A001	From 10
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+	
Date	28.08.2025								

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AA000.A001		1 / 10	Title page/Cover sheet		27.08.2025	CHRU02
=41A10AA000.A001		2 / 10	Table of contents		28.08.2025	CHRU02
=41A10AA000.A001		3 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		4 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		5 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		6 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		7 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		8 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		9 / 10	Table of contents		27.08.2025	CHRU02
=41A10AA000.A001		10 / 10	Table of contents		28.08.2025	CHRU02
=41A10AA000.A003		1 / 1	Structure identifier overview		28.08.2025	CHRU02
=41A10AB010.E001	+GENERAL_PLC	1 / 2	UPS Supply incomer 230V 50Hz		27.08.2025	CHRU02
=41A10AB010.E001	+GENERAL_PLC	2 / 2	UPS Supply incomer 230V 50Hz		27.08.2025	CHRU02
=41A10AB010.E003	+GENERAL_PLC	1 / 2	Utility Supply 220V 50Hz		27.08.2025	CHRU02
=41A10AB010.E003	+GENERAL_PLC	2 / 2	Utility Supply 220V 50Hz		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	1 / 29	Power supply 24V DC UPS		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	20 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	21 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	22 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	23 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	24 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	25 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	26 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	27 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	28 / 29	Power supply 24V DC internal		27.08.2025	CHRU02
=41A10AB010.K001	+GENERAL_PLC	29 / 29	Voltage distribution 24V DC Field		27.08.2025	CHRU02
=41A10AM010.M001	+GENERAL_PLC	12 / 50	Processor Rack		28.08.2025	CHRU02
=41A10AM010.M001	+GENERAL_PLC	50 / 50	Power Supply		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	12 / 600	Rack layout ET200SP		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AM010.M010	+GENERAL_PLC	50 / 600	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	52 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	53 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	54 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	70 / 600	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	71 / 600	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	72 / 600	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	73 / 600	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	74 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	75 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	76 / 600	Overview ET200SP AO Cards		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	400 / 600	Digital inputs ET200SP DO Card 1 Node 1		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	401 / 600	Digital inputs ET200SP DO Card 2 Node 1		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	402 / 600	Digital inputs ET200SP DO Card 3 Node 1		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	403 / 600	Digital inputs ET200SP DO Card 4 Node 1		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	500 / 600	Analog inputs ET200SP AI Card 1 Node 1		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	501 / 600	Analog inputs ET200SP AI Card 2 Node 1		27.08.2025	CHRU02
=41A10AM010.M010	+GENERAL_PLC	600 / 600	Analog outputs ET200SP AO Card 1 Node 1		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	12 / 401	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	50 / 401	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	52 / 401	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	70 / 401	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	71 / 401	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	72 / 401	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	73 / 401	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	74 / 401	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	300 / 401	Digital inputs ET200SP DI Card 1 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	301 / 401	Digital inputs ET200SP DI Card 1 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	302 / 401	Digital inputs ET200SP DI Card 2 Node 2		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AM010.M011	+GENERAL_PLC	303 / 401	Digital inputs ET200SP DI Card 2 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	304 / 401	Digital inputs ET200SP DI Card 3 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	305 / 401	Digital inputs ET200SP DI Card 3 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	306 / 401	Digital inputs ET200SP DI Card 4 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	307 / 401	Digital inputs ET200SP DI Card 4 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	400 / 401	Digital inputs ET200SP DO Card 1 Node 2		27.08.2025	CHRU02
=41A10AM010.M011	+GENERAL_PLC	401 / 401	Digital inputs ET200SP DO Card 1 Node 2		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	12 / 403	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	50 / 403	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	52 / 403	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	70 / 403	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	71 / 403	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	72 / 403	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	73 / 403	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	74 / 403	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	300 / 403	Digital inputs ET200SP DI Card 1 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	301 / 403	Digital inputs ET200SP DI Card 1 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	302 / 403	Digital inputs ET200SP DI Card 2 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	303 / 403	Digital inputs ET200SP DI Card 2 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	304 / 403	Digital inputs ET200SP DI Card 3 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	305 / 403	Digital inputs ET200SP DI Card 3 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	400 / 403	Digital inputs ET200SP DO Card 1 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	401 / 403	Digital inputs ET200SP DO Card 1 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	402 / 403	Digital inputs ET200SP DO Card 2 Node 3		27.08.2025	CHRU02
=41A10AM010.M012	+GENERAL_PLC	403 / 403	Digital inputs ET200SP DO Card 2 Node 3		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	12 / 405	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	50 / 405	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	52 / 405	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	70 / 405	Overview ET200SP DI Cards		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AM010.M013	+GENERAL_PLC	71 / 405	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	72 / 405	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	73 / 405	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	74 / 405	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	75 / 405	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	300 / 405	Digital inputs ET200SP DI Card 1 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	301 / 405	Digital inputs ET200SP DI Card 1 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	302 / 405	Digital inputs ET200SP DI Card 2 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	303 / 405	Digital inputs ET200SP DI Card 2 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	304 / 405	Digital inputs ET200SP DI Card 3 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	305 / 405	Digital inputs ET200SP DI Card 3 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	400 / 405	Digital inputs ET200SP DO Card 1 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	401 / 405	Digital inputs ET200SP DO Card 1 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	402 / 405	Digital inputs ET200SP DO Card 2 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	403 / 405	Digital inputs ET200SP DO Card 2 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	404 / 405	Digital inputs ET200SP DO Card 3 Node 4		27.08.2025	CHRU02
=41A10AM010.M013	+GENERAL_PLC	405 / 405	Digital inputs ET200SP DO Card 3 Node 4		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	12 / 900	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	50 / 900	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	52 / 900	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	53 / 900	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	54 / 900	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	55 / 900	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	70 / 900	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	71 / 900	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	72 / 900	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	73 / 900	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	74 / 900	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	75 / 900	Overview ET200SP AO Cards		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AM010.M014	+GENERAL_PLC	76 / 900	Overview ET200SP TM Count Cards		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	300 / 900	Digital inputs ET200SP DI Card 1 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	301 / 900	Digital inputs ET200SP DI Card 1 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	400 / 900	Digital inputs ET200SP DO Card 1 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	401 / 900	Digital inputs ET200SP DO Card 2 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	402 / 900	Digital inputs ET200SP DO Card 3 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	500 / 900	Analog inputs ET200SP AI Card 1 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	600 / 900	Analog outputs ET200SP AO Card 1 Node 5		27.08.2025	CHRU02
=41A10AM010.M014	+GENERAL_PLC	900 / 900	CN ET200SP TM Count Card 1 Node 5		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	12 / 600	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	13 / 600	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	50 / 600	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	52 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	53 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	70 / 600	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	71 / 600	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	72 / 600	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	73 / 600	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	74 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	75 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	76 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	77 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	78 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	79 / 600	Overview ET200SP AO Cards		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	300 / 600	Digital inputs ET200SP DI Card 1 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	301 / 600	Digital inputs ET200SP DI Card 1 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	302 / 600	Digital inputs ET200SP DI Card 2 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	303 / 600	Digital inputs ET200SP DI Card 2 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	304 / 600	Digital inputs ET200SP DI Card 3 Node 6		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AM010.M015	+GENERAL_PLC	305 / 600	Digital inputs ET200SP DI Card 3 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	400 / 600	Digital inputs ET200SP DO Card 1 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	401 / 600	Digital inputs ET200SP DO Card 1 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	500 / 600	Analog inputs ET200SP AI Card 1 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	501 / 600	Analog inputs ET200SP AI Card 2 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	502 / 600	Analog inputs ET200SP AI Card 3 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	503 / 600	Analog inputs ET200SP AI Card 4 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	504 / 600	Analog inputs ET200SP AI Card 5 Node 6		27.08.2025	CHRU02
=41A10AM010.M015	+GENERAL_PLC	600 / 600	Analog outputs ET200SP AO Card 1 Node 6		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	12 / 600	Rack layout ET200SP		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	50 / 600	Power supply 24V DC ET200SP IM Module		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	52 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	53 / 600	Power supply 24V DC ET200SP Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	70 / 600	Overview ET200SP DI Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	71 / 600	Overview ET200SP DO Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	72 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	73 / 600	Overview ET200SP AI Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	75 / 600	Overview ET200SP AO Cards		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	300 / 600	Digital inputs ET200SP DI Card 1 Node 7		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	400 / 600	Digital inputs ET200SP DO Card 1 Node 7		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	500 / 600	Analog inputs ET200SP AI Card 1 Node 7		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	501 / 600	Analog inputs ET200SP AI Card 2 Node 7		27.08.2025	CHRU02
=41A10AM010.M016	+GENERAL_PLC	600 / 600	Analog outputs ET200SP AO Card 1 Node 7		27.08.2025	CHRU02
=41A10AZ010.Y001	+GENERAL_PLC	1 / 22	Transport unit		27.08.2025	CHRU02
=41A10AZ010.Y001	+GENERAL_PLC	2 / 22	CPU Panel GA and IGA		27.08.2025	CHRU02
=41A10AZ010.Y001	+GENERAL_PLC	3 / 22	Top/Bottom view inside		27.08.2025	CHRU02
=41A10AZ010.Y001	+GENERAL_PLC	20 / 22	Enclosure legend =41A10AZ010.Y001+GENERAL_PLC-U11		27.08.2025	CHRU02
=41A10AZ010.Y001	+GENERAL_PLC	21 / 22	Enclosure legend =41A10AZ010.Y001+GENERAL_PLC-U11		27.08.2025	CHRU02
=41A10AZ010.Y001	+GENERAL_PLC	22 / 22	Enclosure legend =41A10AZ010.Y001+GENERAL_PLC-U11		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AZ000.X001	+GENERAL_PLC	1 / 58	Terminal diagram +GENERAL_PLC-X1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	2 / 58	Terminal diagram +GENERAL_PLC-X2		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	3 / 58	Terminal diagram +GENERAL_PLC-X2.1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	4 / 58	Terminal diagram +GENERAL_PLC-X2.6		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	5 / 58	Terminal diagram +GENERAL_PLC-X3M2		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	6 / 58	Terminal diagram +GENERAL_PLC-X3N1K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	7 / 58	Terminal diagram +GENERAL_PLC-X3N1K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	8 / 58	Terminal diagram +GENERAL_PLC-X3N1K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	9 / 58	Terminal diagram +GENERAL_PLC-X3N1K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	10 / 58	Terminal diagram +GENERAL_PLC-X3N1M1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	11 / 58	Terminal diagram +GENERAL_PLC-X3N2K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	12 / 58	Terminal diagram +GENERAL_PLC-X3N2K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	13 / 58	Terminal diagram +GENERAL_PLC-X3N2K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	14 / 58	Terminal diagram +GENERAL_PLC-X3N2K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	15 / 58	Terminal diagram +GENERAL_PLC-X3N2K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	16 / 58	Terminal diagram +GENERAL_PLC-X3N2M1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	17 / 58	Terminal diagram +GENERAL_PLC-X3N3K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	18 / 58	Terminal diagram +GENERAL_PLC-X3N3K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	19 / 58	Terminal diagram +GENERAL_PLC-X3N3K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	20 / 58	Terminal diagram +GENERAL_PLC-X3N3K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	21 / 58	Terminal diagram +GENERAL_PLC-X3N3K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	22 / 58	Terminal diagram +GENERAL_PLC-X3N3M1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	23 / 58	Terminal diagram +GENERAL_PLC-X3N4K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	24 / 58	Terminal diagram +GENERAL_PLC-X3N4K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	25 / 58	Terminal diagram +GENERAL_PLC-X3N4K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	26 / 58	Terminal diagram +GENERAL_PLC-X3N4K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	27 / 58	Terminal diagram +GENERAL_PLC-X3N4K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	28 / 58	Terminal diagram +GENERAL_PLC-X3N4K127		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	29 / 58	Terminal diagram +GENERAL_PLC-X3N4M1		27.08.2025	CHRU02

Table of contents

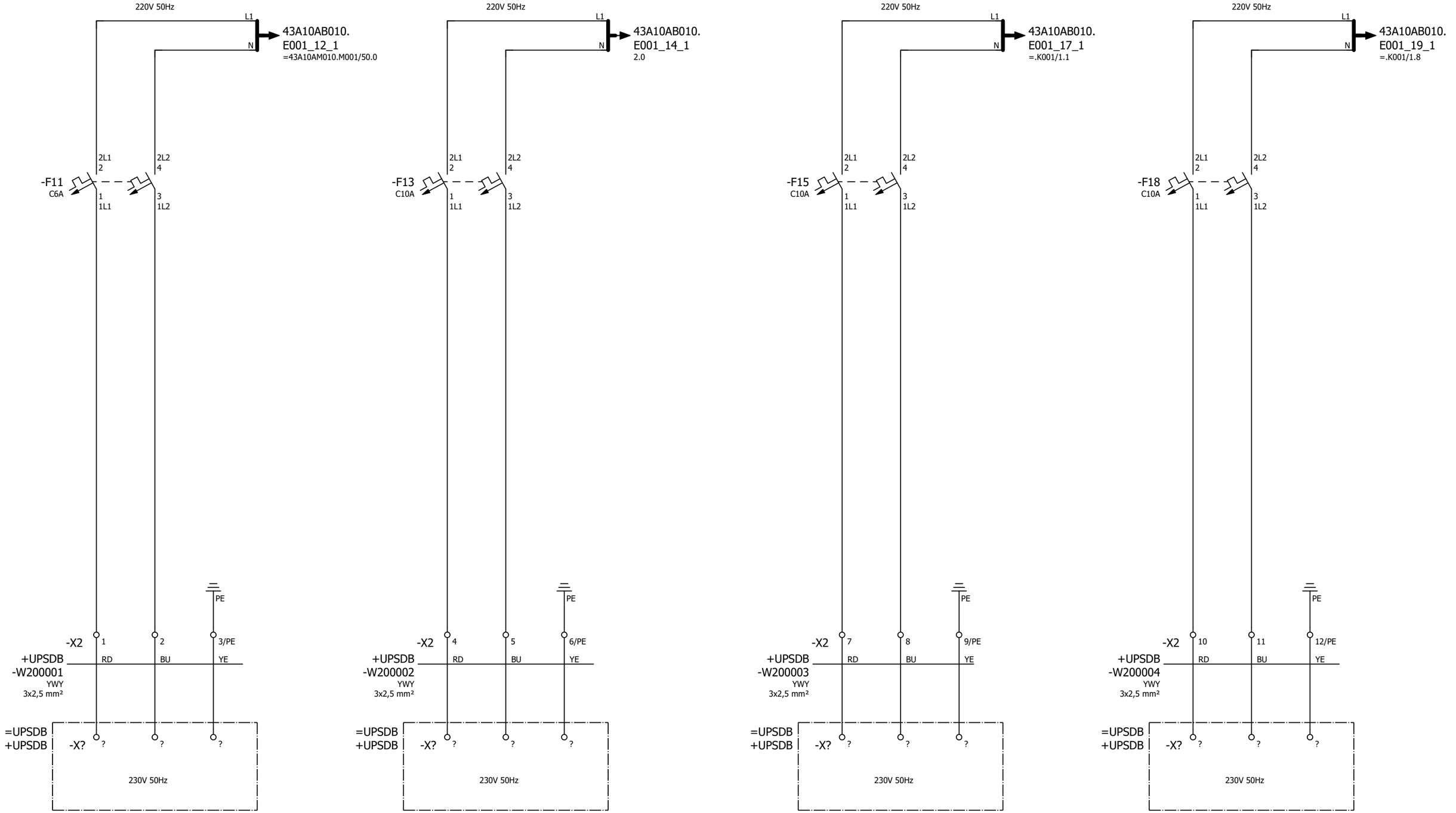
Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AZ000.X001	+GENERAL_PLC	30 / 58	Terminal diagram +GENERAL_PLC-X3N5K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	31 / 58	Terminal diagram +GENERAL_PLC-X3N5K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	32 / 58	Terminal diagram +GENERAL_PLC-X3N5K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	33 / 58	Terminal diagram +GENERAL_PLC-X3N5K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	34 / 58	Terminal diagram +GENERAL_PLC-X3N5M1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	35 / 58	Terminal diagram +GENERAL_PLC-X3N6K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	36 / 58	Terminal diagram +GENERAL_PLC-X3N6K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	37 / 58	Terminal diagram +GENERAL_PLC-X3N6K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	38 / 58	Terminal diagram +GENERAL_PLC-X3N6K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	39 / 58	Terminal diagram +GENERAL_PLC-X3N6M1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	40 / 58	Terminal diagram +GENERAL_PLC-X3N7K122		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	41 / 58	Terminal diagram +GENERAL_PLC-X3N7K123		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	42 / 58	Terminal diagram +GENERAL_PLC-X3N7M1		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	43 / 58	Terminal diagram +GENERAL_PLC-X3P2		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	44 / 58	Terminal diagram +GENERAL_PLC-X5N1K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	45 / 58	Terminal diagram +GENERAL_PLC-X5N1K127		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	46 / 58	Terminal diagram +GENERAL_PLC-X5N1K128		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	47 / 58	Terminal diagram +GENERAL_PLC-X5N5K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	48 / 58	Terminal diagram +GENERAL_PLC-X5N5K127		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	49 / 58	Terminal diagram +GENERAL_PLC-X5N6K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	50 / 58	Terminal diagram +GENERAL_PLC-X5N6K127		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	51 / 58	Terminal diagram +GENERAL_PLC-X5N6K128		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	52 / 58	Terminal diagram +GENERAL_PLC-X5N6K130		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	53 / 58	Terminal diagram +GENERAL_PLC-X5N6K131		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	54 / 58	Terminal diagram +GENERAL_PLC-X5N6K132		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	55 / 58	Terminal diagram +GENERAL_PLC-X5N7K124		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	56 / 58	Terminal diagram +GENERAL_PLC-X5N7K125		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	57 / 58	Terminal diagram +GENERAL_PLC-X5N7K126		27.08.2025	CHRU02
=41A10AZ000.X001	+GENERAL_PLC	58 / 58	Terminal diagram +GENERAL_PLC-X8N5K128		27.08.2025	CHRU02

Table of contents

Plant	Mounting location	Page / From	Description	Remark	Date	Edited by
=41A10AZ000.Z001	+GENERAL_PLC	1 / 6	Parts list		28.08.2025	CHRU02
=41A10AZ000.Z001	+GENERAL_PLC	2 / 6	Parts list		28.08.2025	CHRU02
=41A10AZ000.Z001	+GENERAL_PLC	3 / 6	Parts list		28.08.2025	CHRU02
=41A10AZ000.Z001	+GENERAL_PLC	4 / 6	Parts list		28.08.2025	CHRU02
=41A10AZ000.Z001	+GENERAL_PLC	5 / 6	Parts list		28.08.2025	CHRU02
=41A10AZ000.Z001	+GENERAL_PLC	6 / 6	Parts list		28.08.2025	CHRU02

Structure identifier overview

Full designation	Labeling	Structure description
+GENERAL_PLC	Mounting location	GENERAL PLC (PLC Room)
+UPSDB	Mounting location	UPS Supply Distribution board
+UTILITY_DB	Mounting location	UTILITY DB

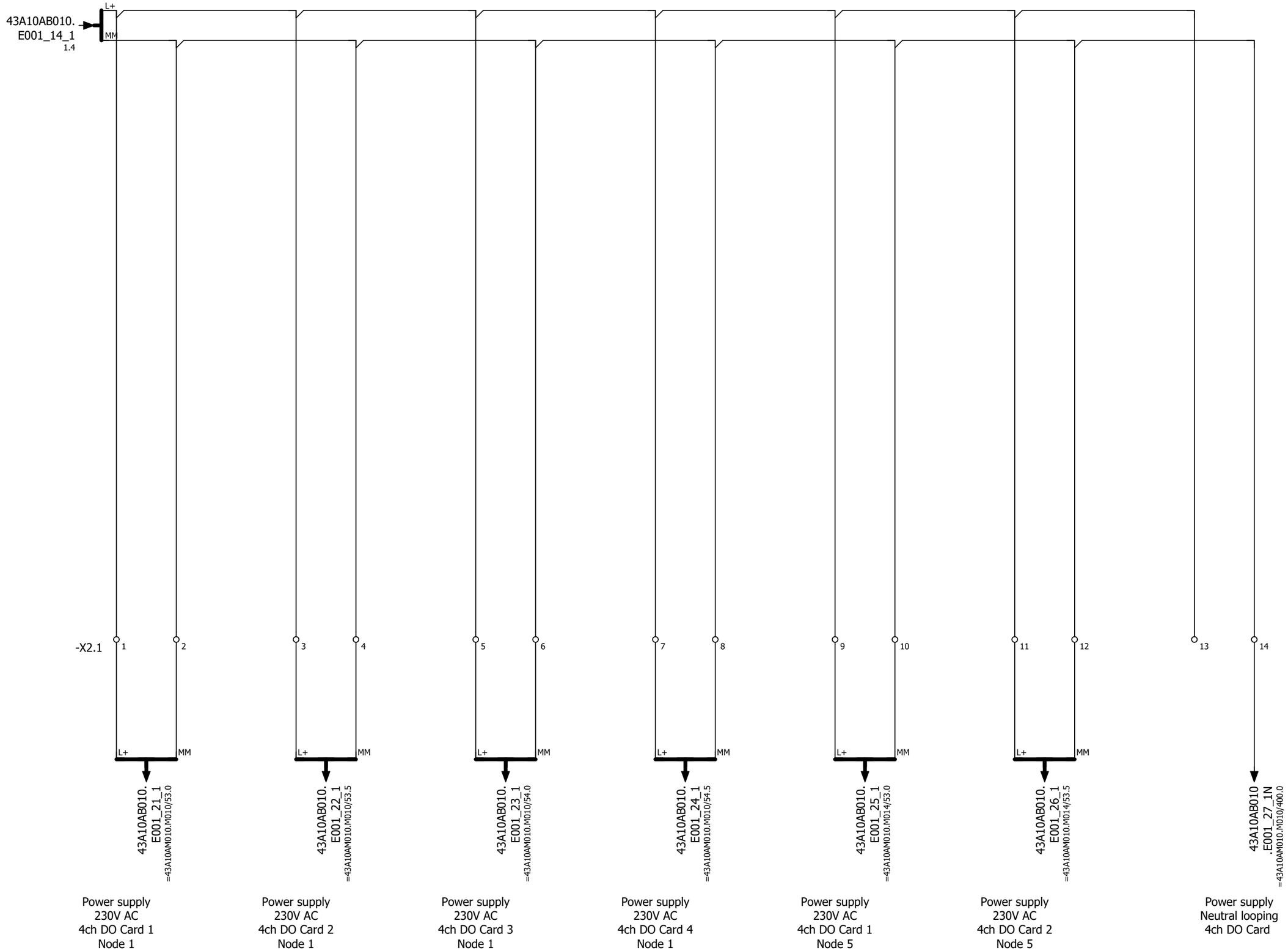


UPS Supply-1
230V 50Hz
For Processor

UPS Supply-1
230V 50Hz
For IO Cards

UPS-1 Supply
230V 50Hz
power supply-1

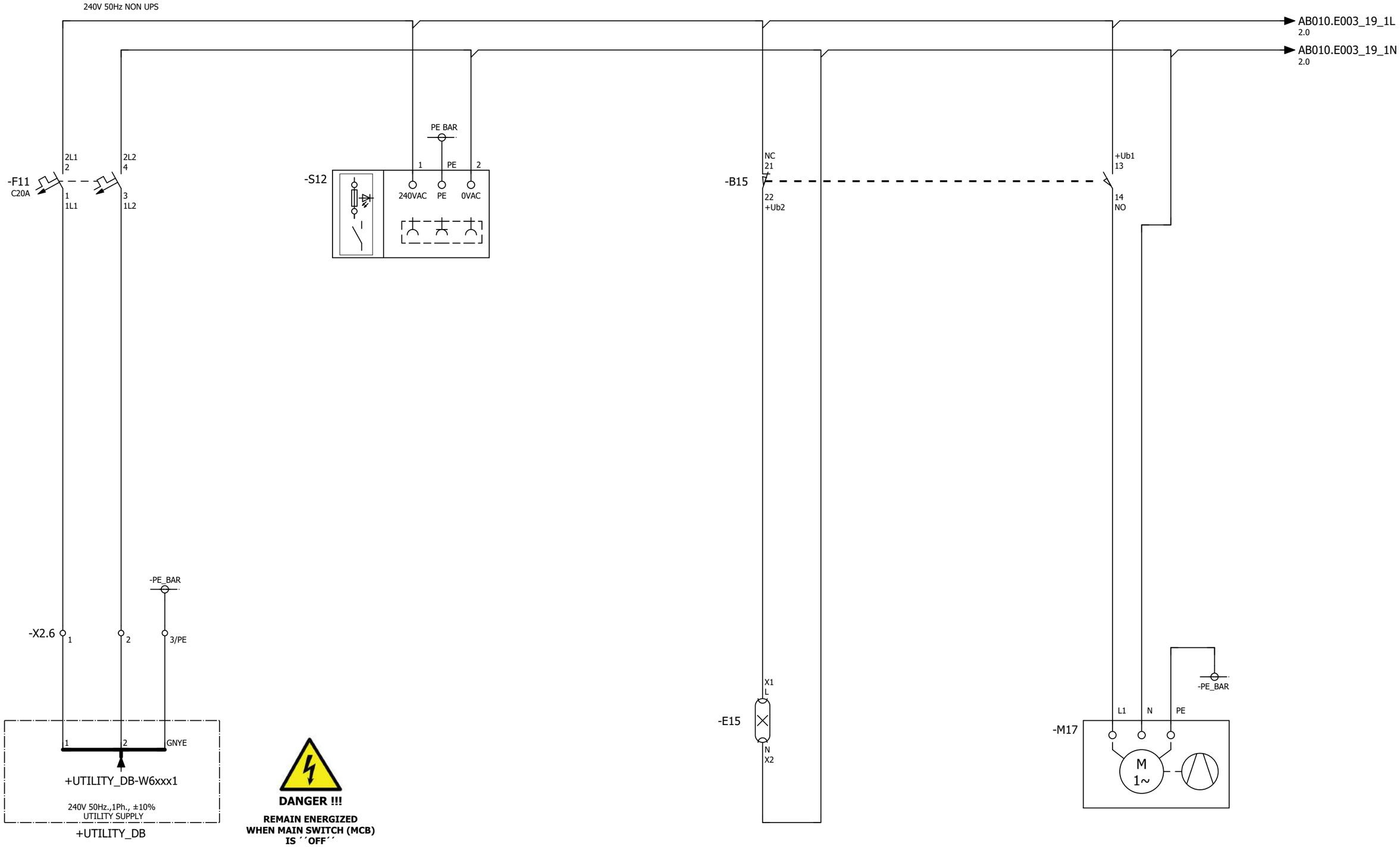
UPS-2 Supply
230V 50Hz
power supply-2



1

=.E003/1

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	UPS Supply incomer 230V 50Hz	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 2
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.E001	From 2
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Power supply
240V 50Hz.,1Ph., ±10%
From Utility DB

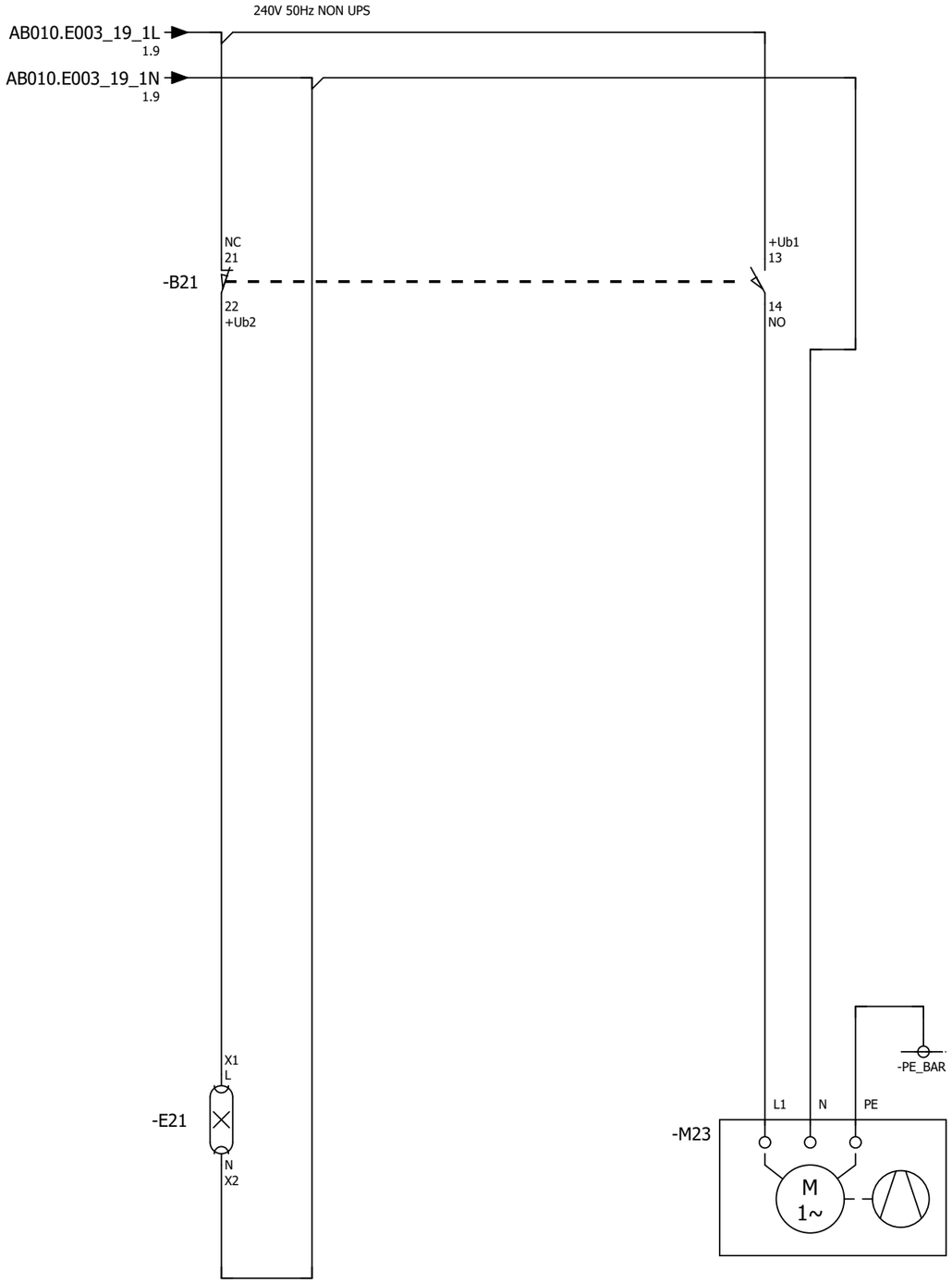
Panel light
Front side
Part 1

Panel fan & filter unit
Front side
Part 1

=.E001/2

2

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Utility Supply 220V 50Hz	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 1
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.E003	From 2
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

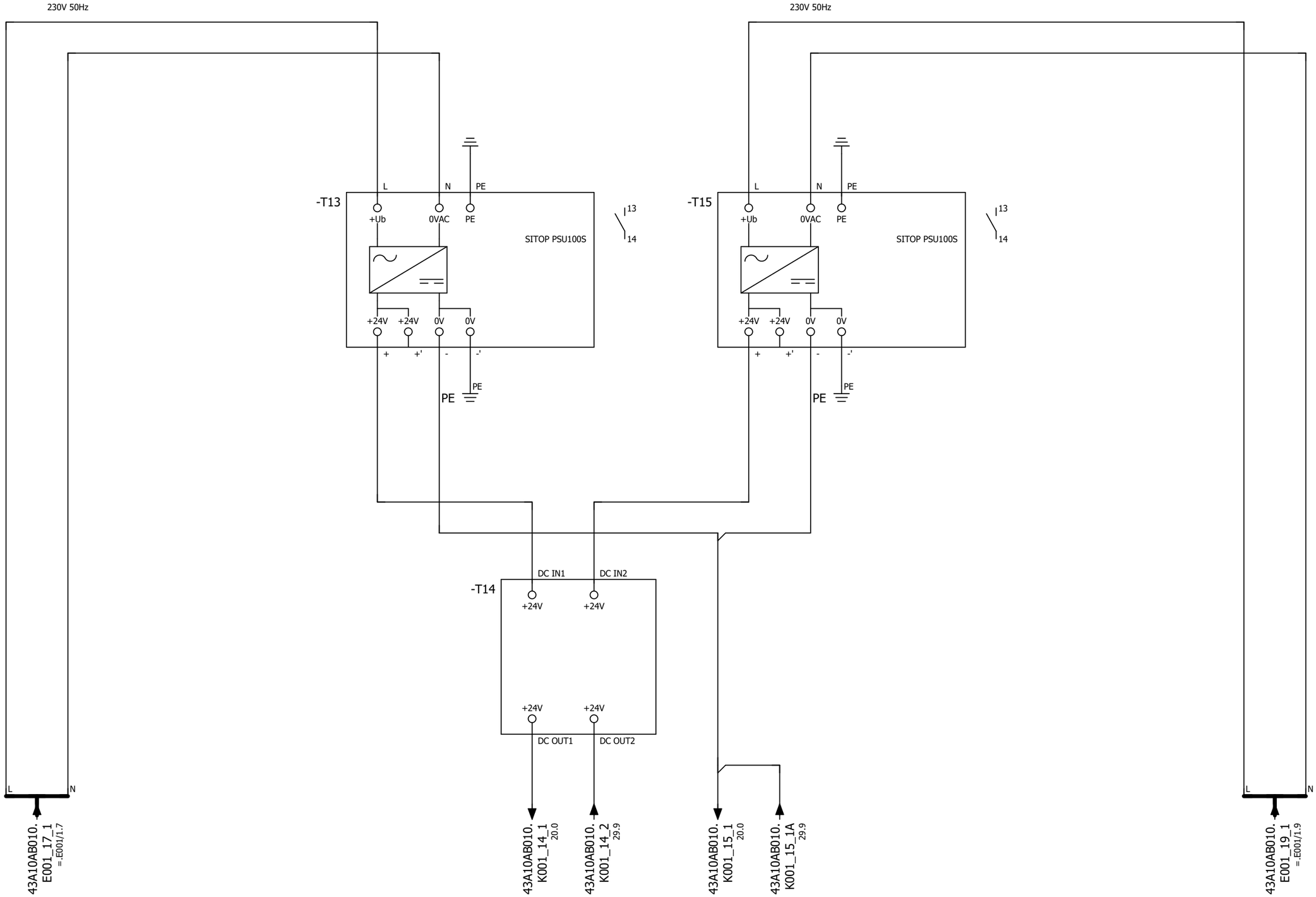


Panel light
Front side
Part 2

Panel fan & filter unit
Front side
Part 2

=.K001/1

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Utility Supply 220V 50Hz	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 2
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.E003	From 2
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



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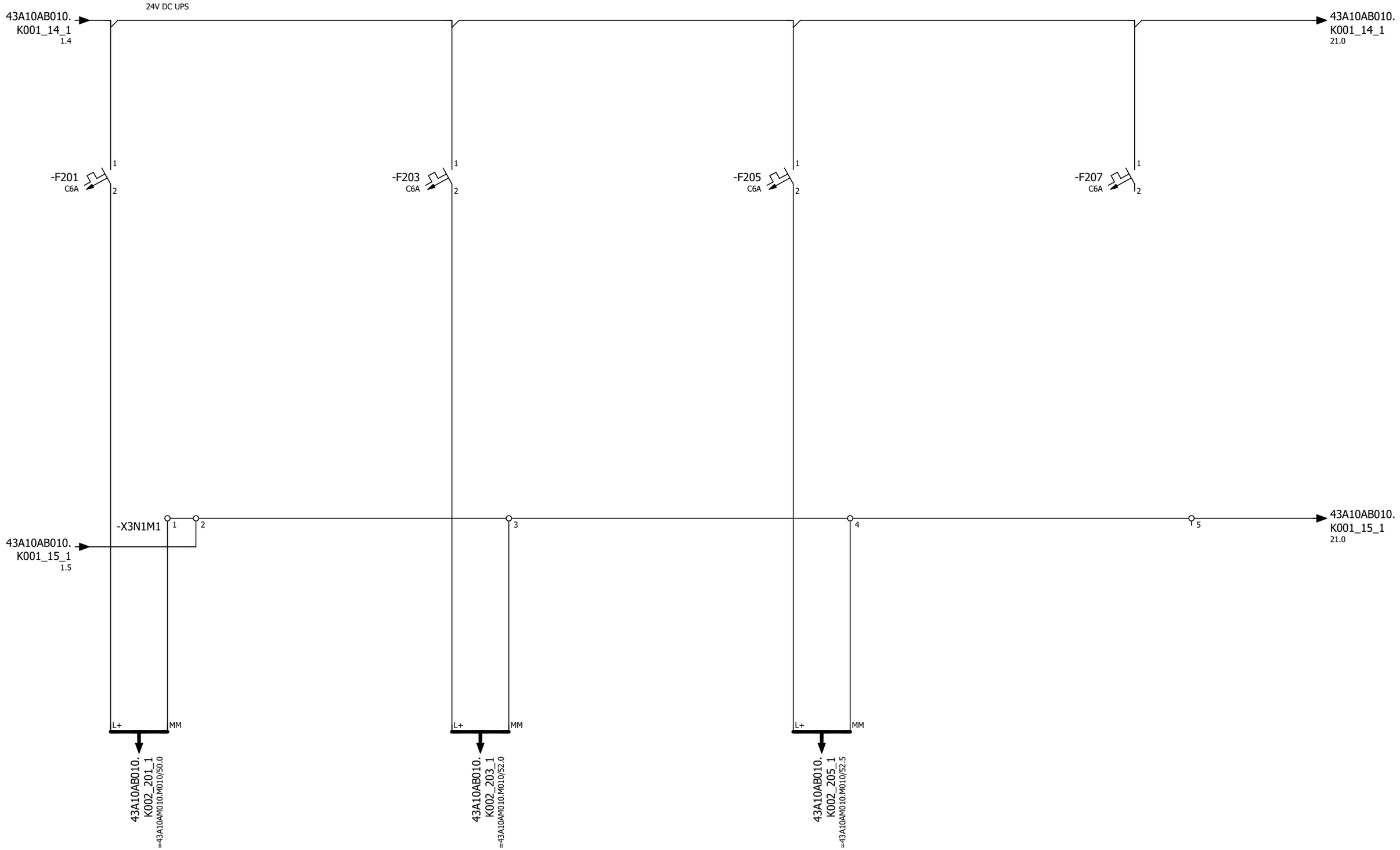
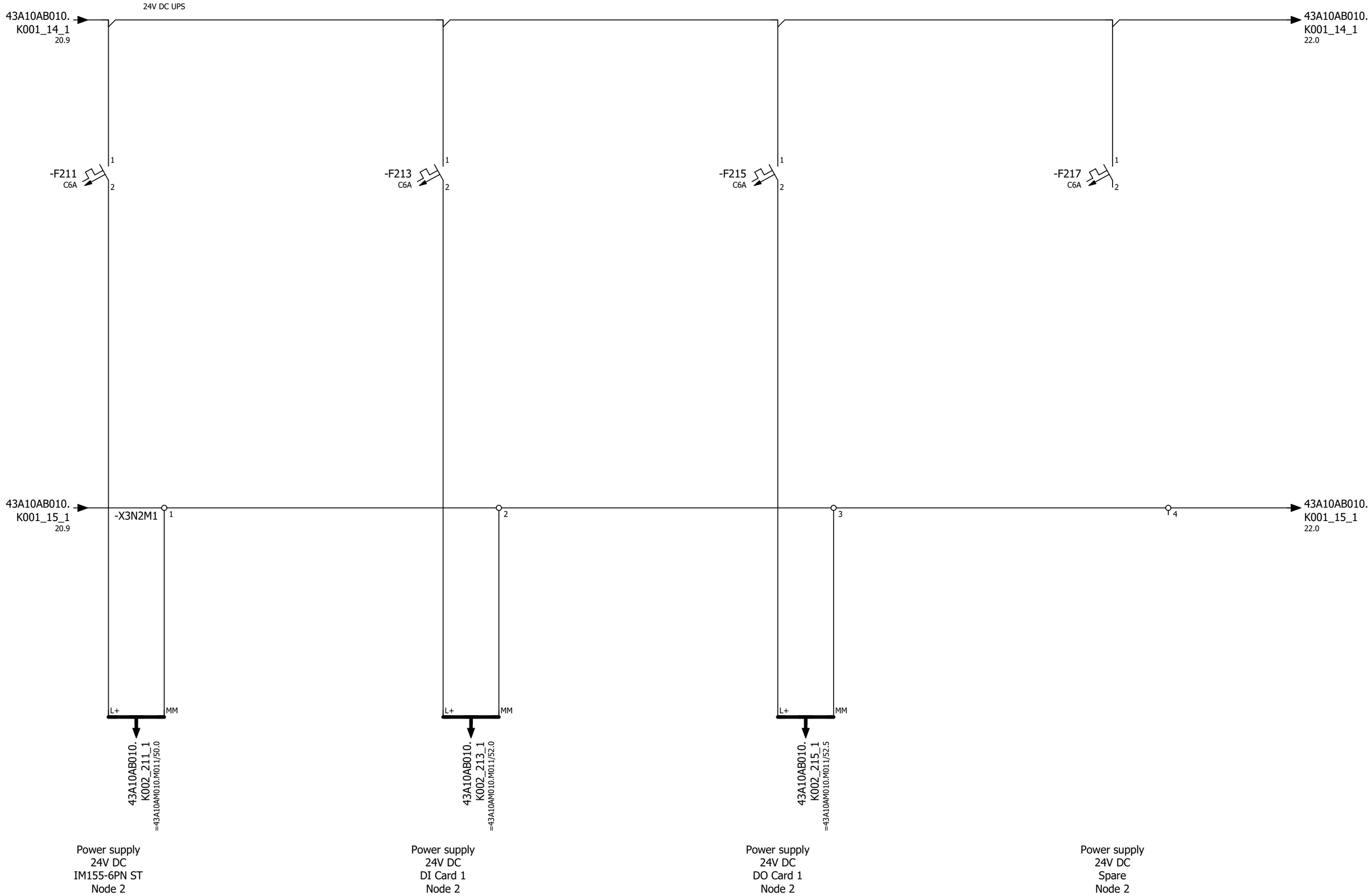
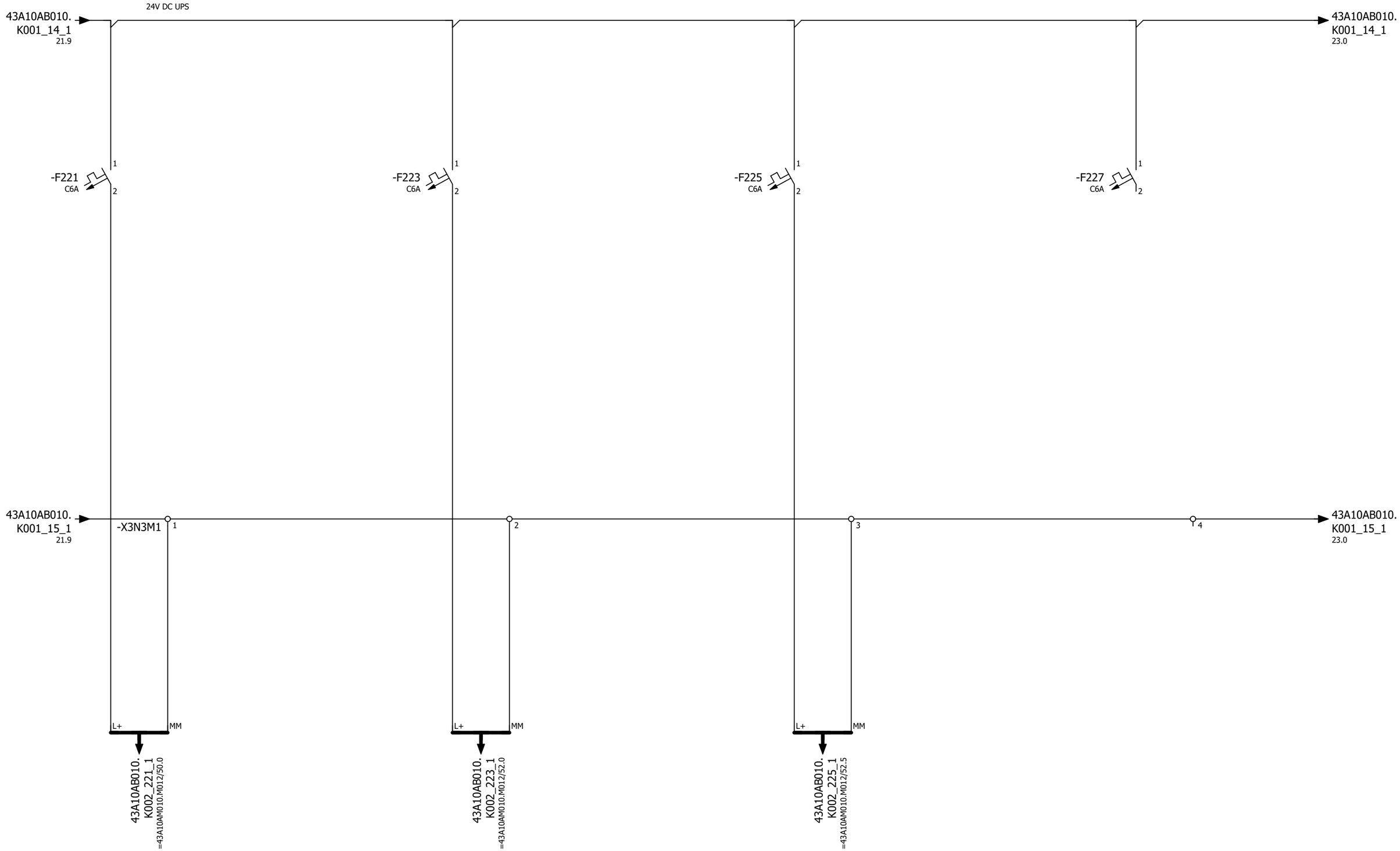
20

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC UPS	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 1
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

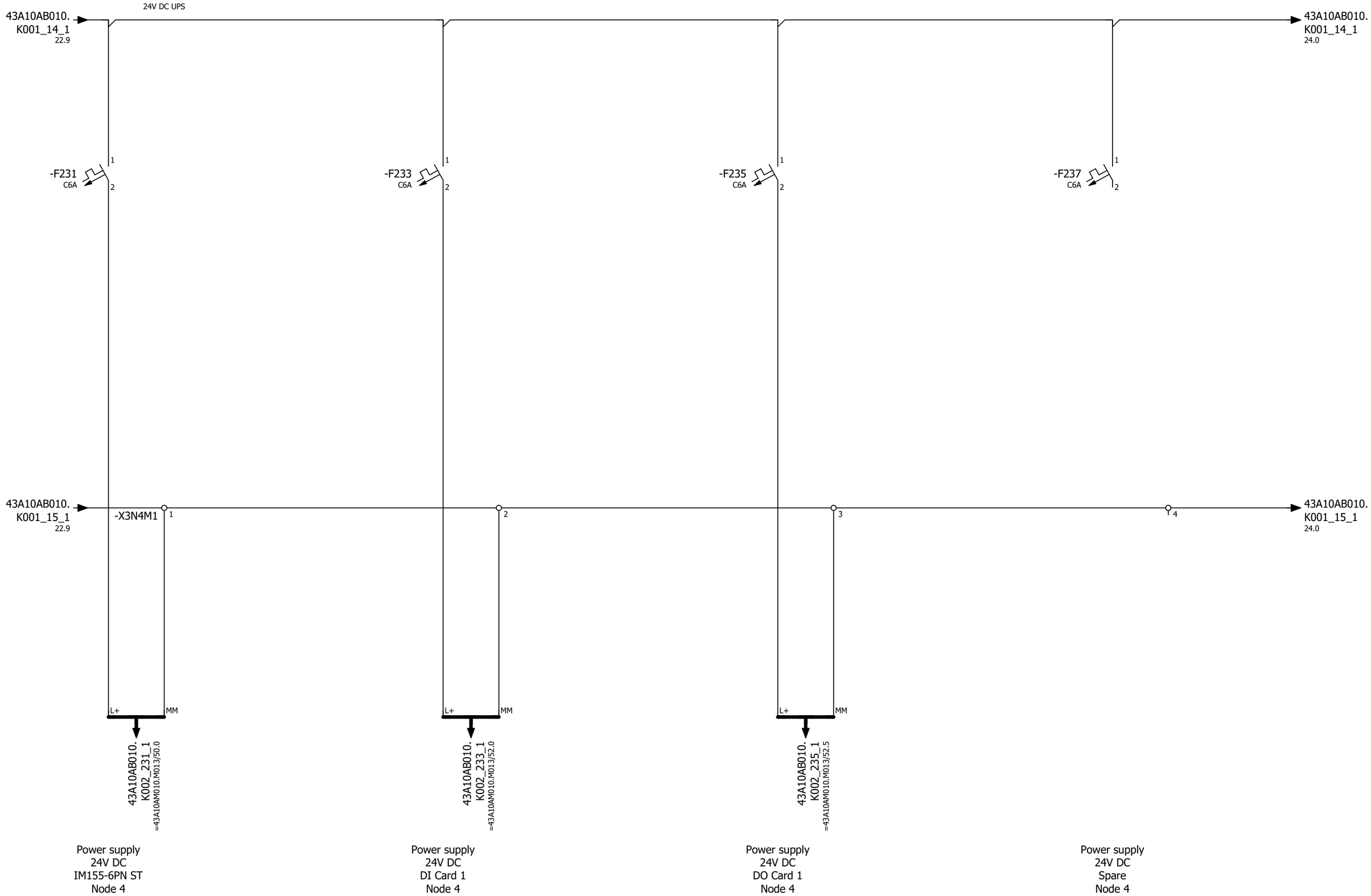

24V DC UPS
43A10AB010.
K001_14_1
1.4
43A10AB010.
K001_14_1
21.0
-F201
C6A
-F203
C6A
-F205
C6A
-F207
C6A
-X3N1M1
43A10AB010.
K001_15_1
1.5
43A10AB010.
K001_15_1
21.0
L+
MM
43A10AB010.
K002_201_1
=43A10AM010.M010/50.0
43A10AB010.
K002_203_1
=43A10AM010.M010/52.0
43A10AB010.
K002_205_1
=43A10AM010.M010/52.5
Power supply
24V DC
IM155-6PN ST
Node 1
Power supply
24V DC
AI Card 1
Node 1
Power supply
24V DC
AO Card 1
Node 1
Power supply
24V DC
Spare
Node 1



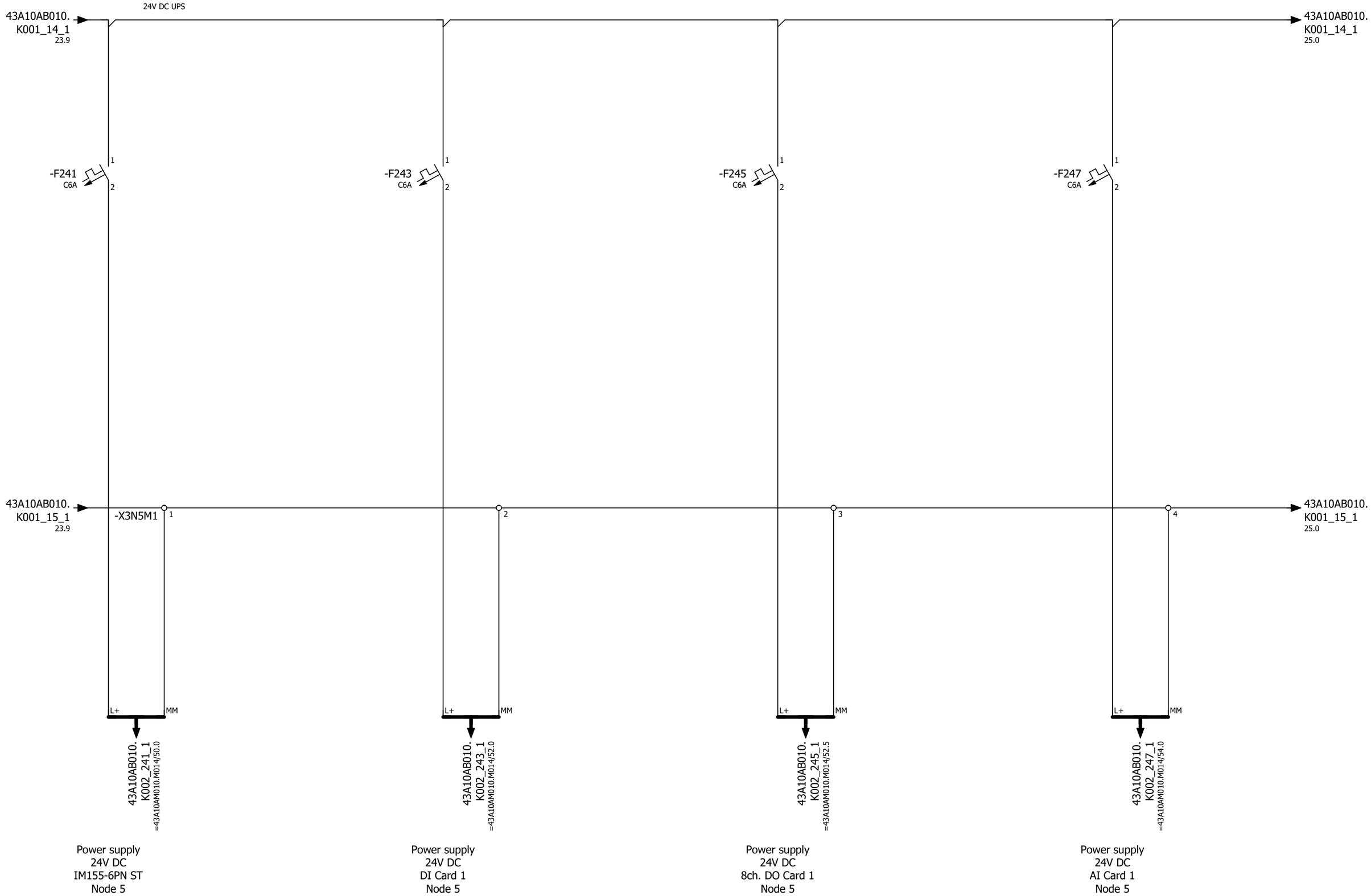
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 21
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



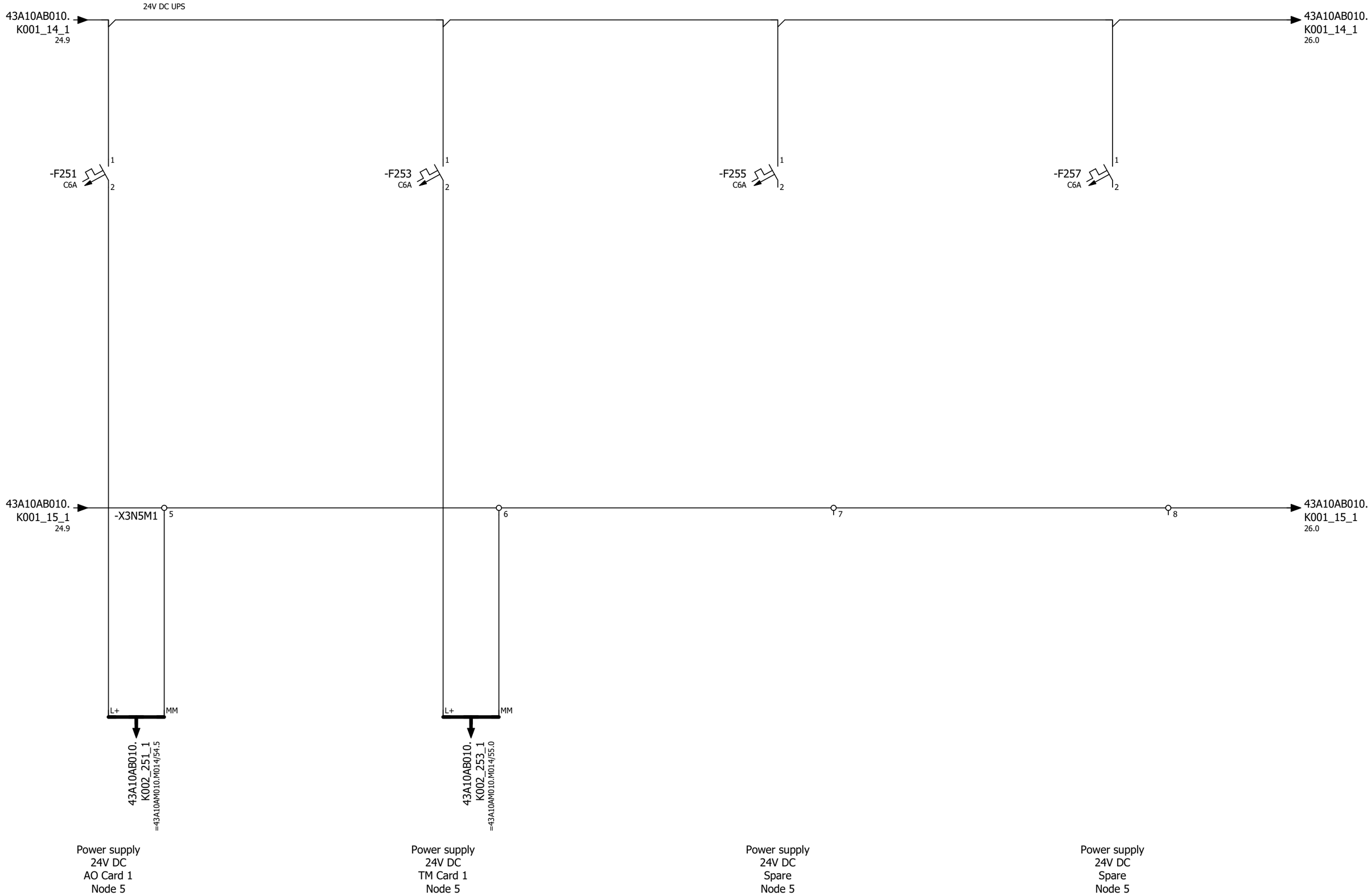
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 22
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 23
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



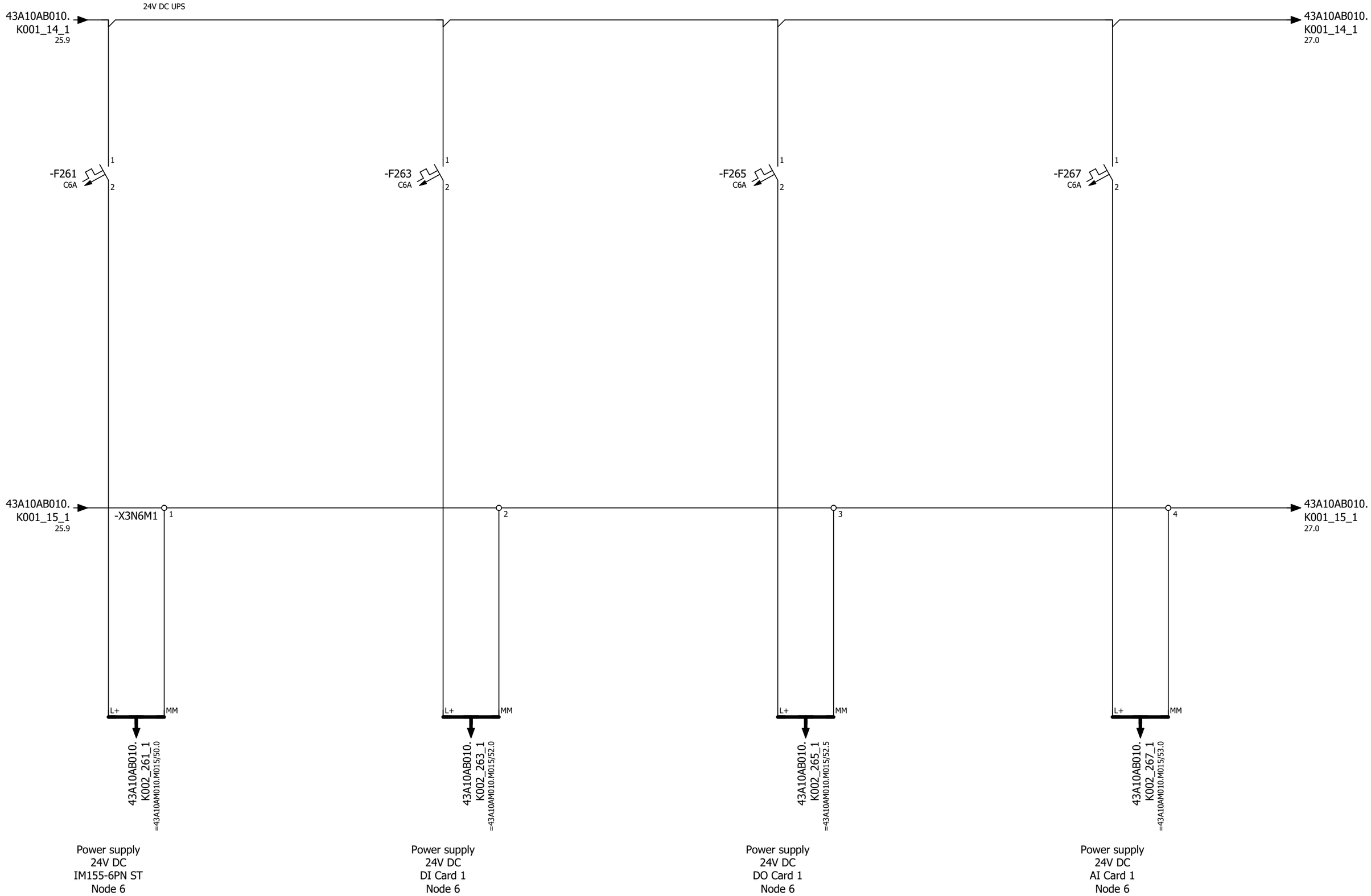
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 24
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

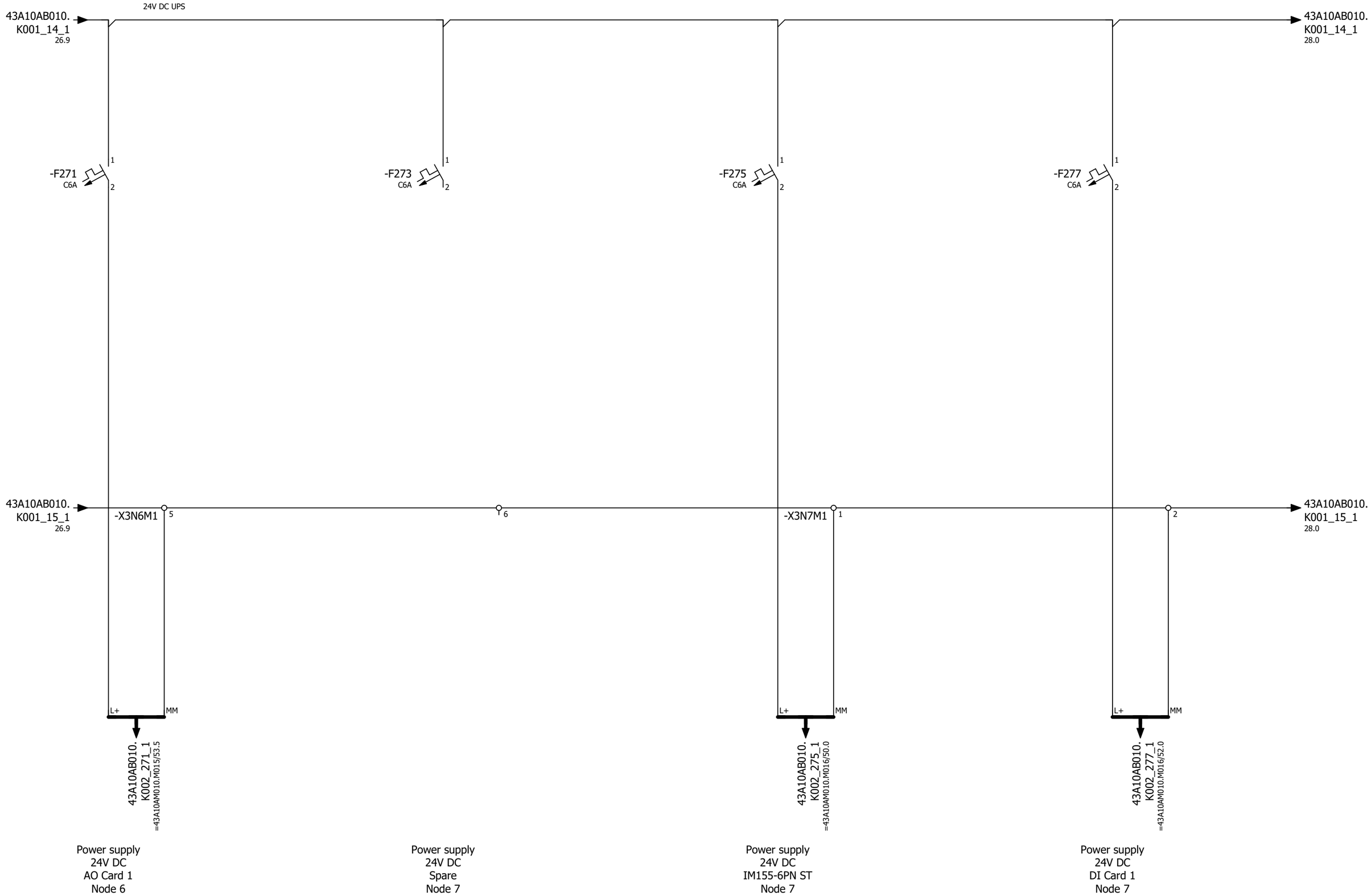


24

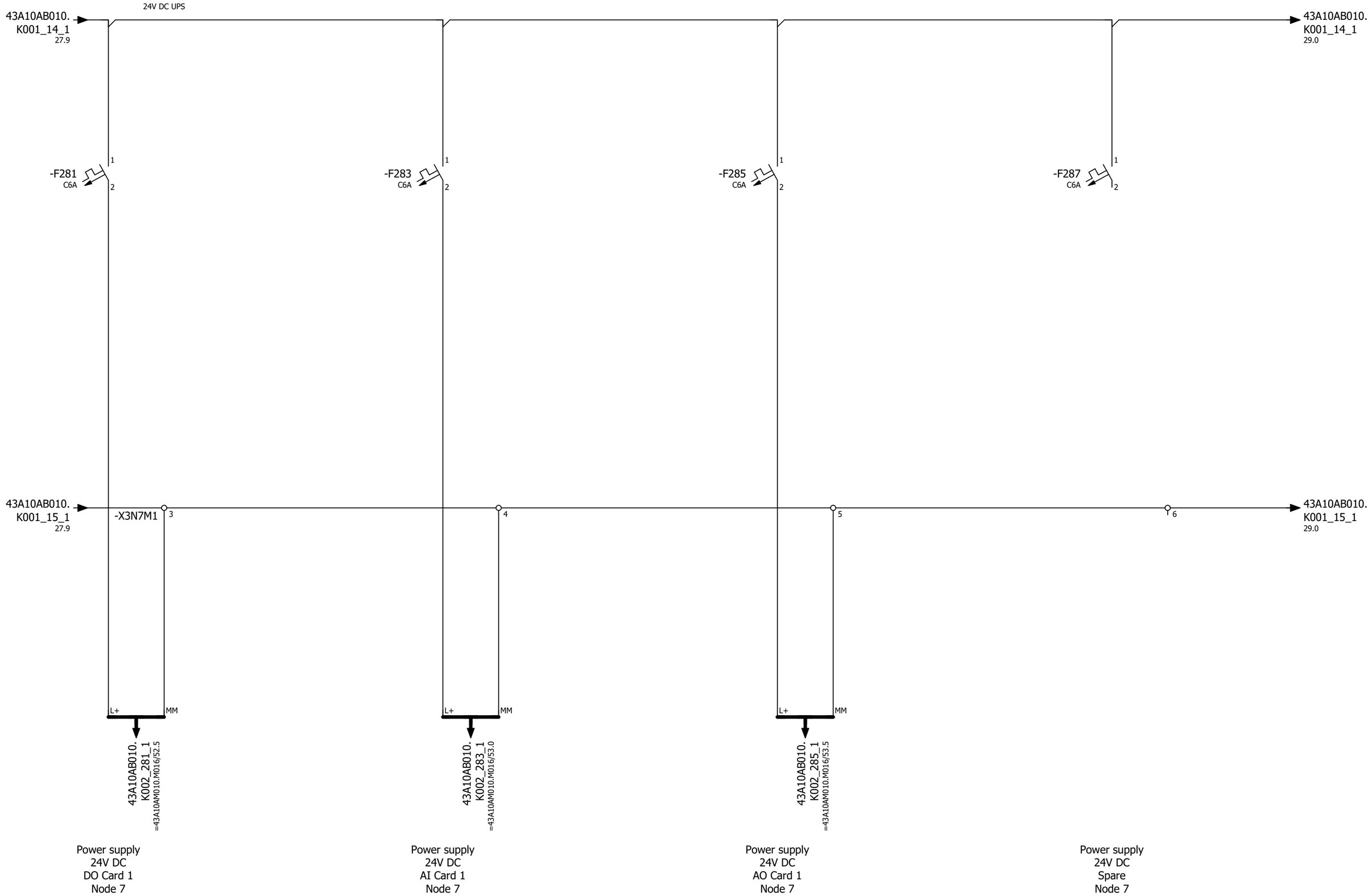
26

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 25
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

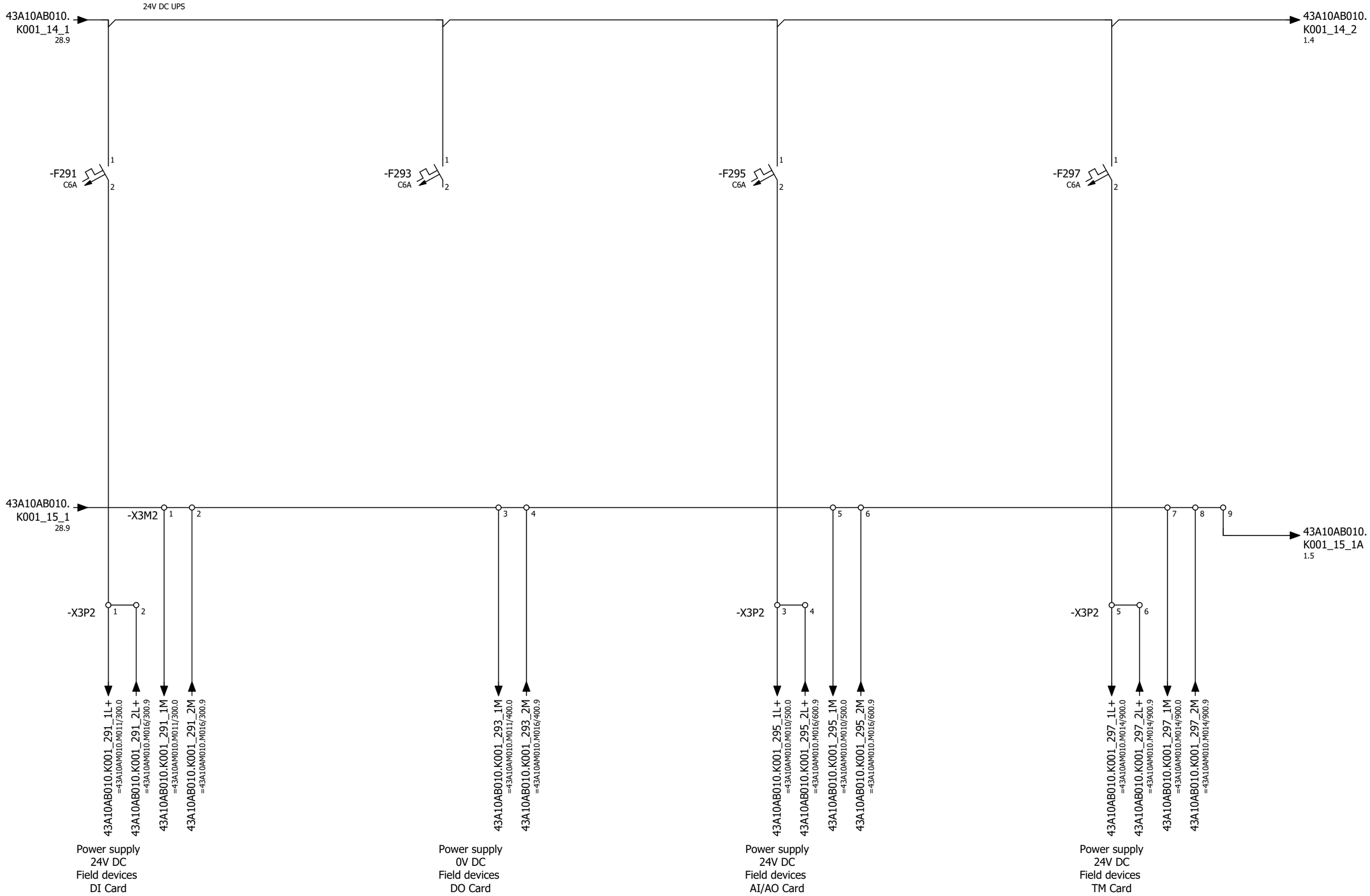

24V DC UPS
43A10AB010.
K001_14_1
25.9
43A10AB010.
K001_14_1
27.0
-F261
C6A
-F263
C6A
-F265
C6A
-F267
C6A
43A10AB010.
K001_15_1
25.9
-X3N6M1
43A10AB010.
K001_15_1
27.0
L+
MM
43A10AB010.
K002_261_1
=43A10AM010.M015/50.0
43A10AB010.
K002_263_1
=43A10AM010.M015/52.0
43A10AB010.
K002_265_1
=43A10AM010.M015/52.5
43A10AB010.
K002_267_1
=43A10AM010.M015/53.0
Power supply
24V DC
IM155-6PN ST
Node 6
Power supply
24V DC
DI Card 1
Node 6
Power supply
24V DC
DO Card 1
Node 6
Power supply
24V DC
AI Card 1
Node 6



Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 27
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC internal	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 28
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



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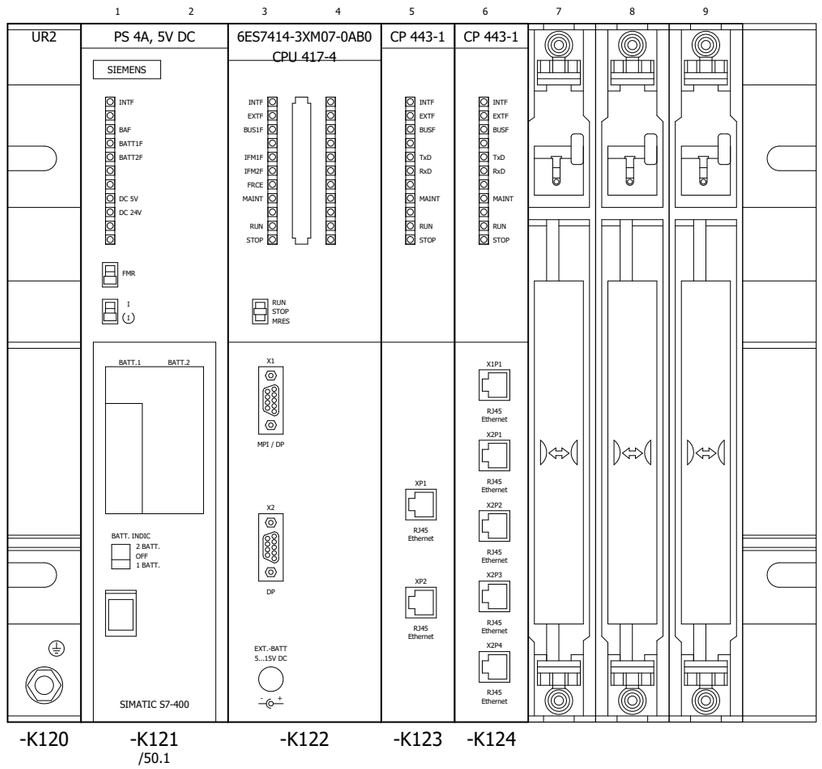
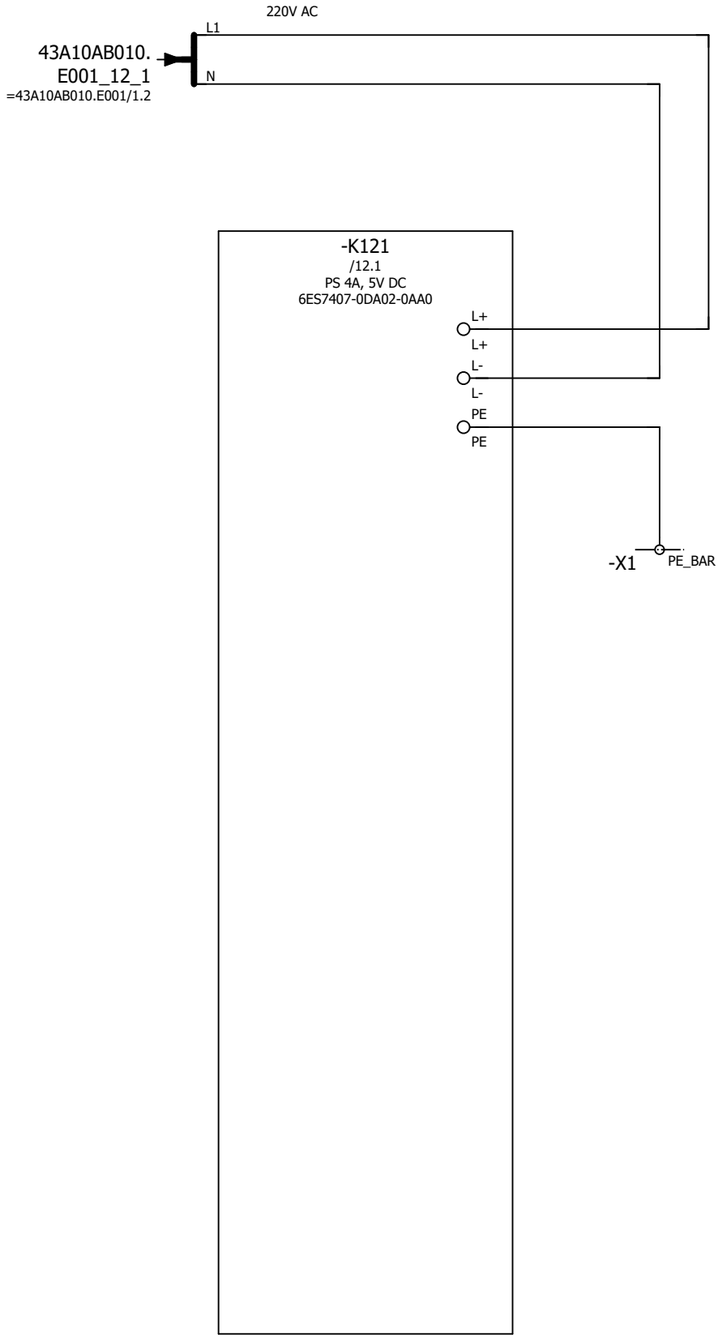
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Voltage distribution 24V DC Field	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 29
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AB010.K001	From 29
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



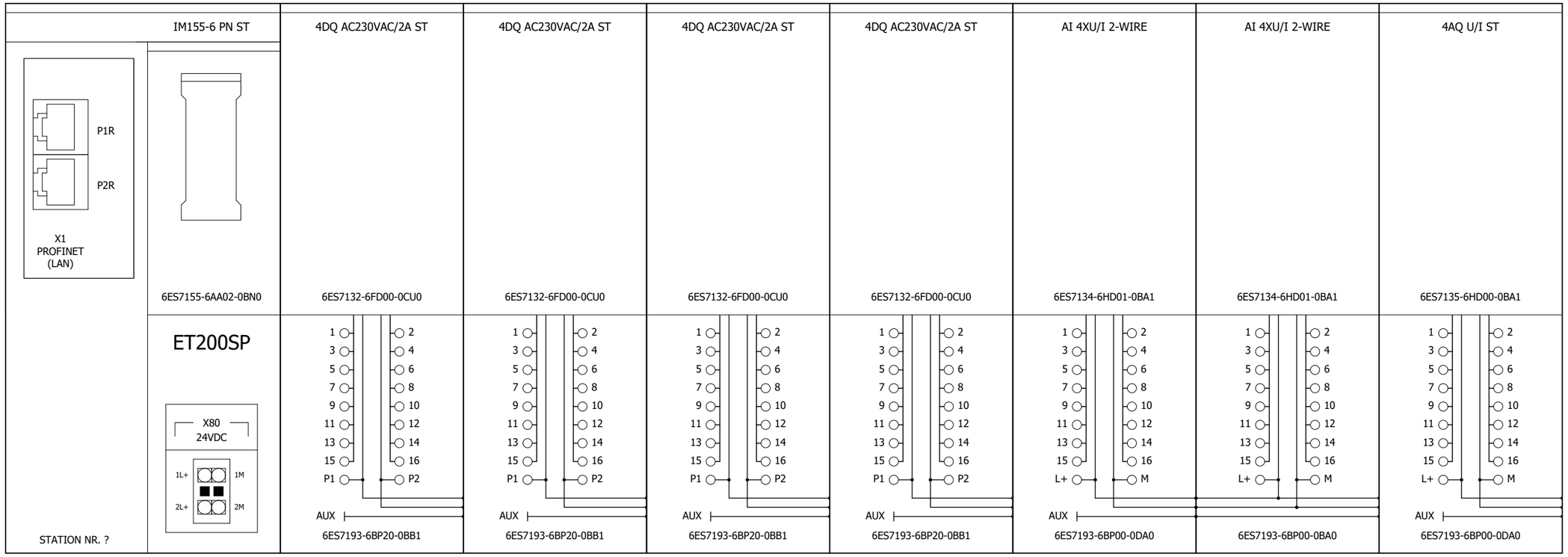
=43A10AB010.K001/29

50

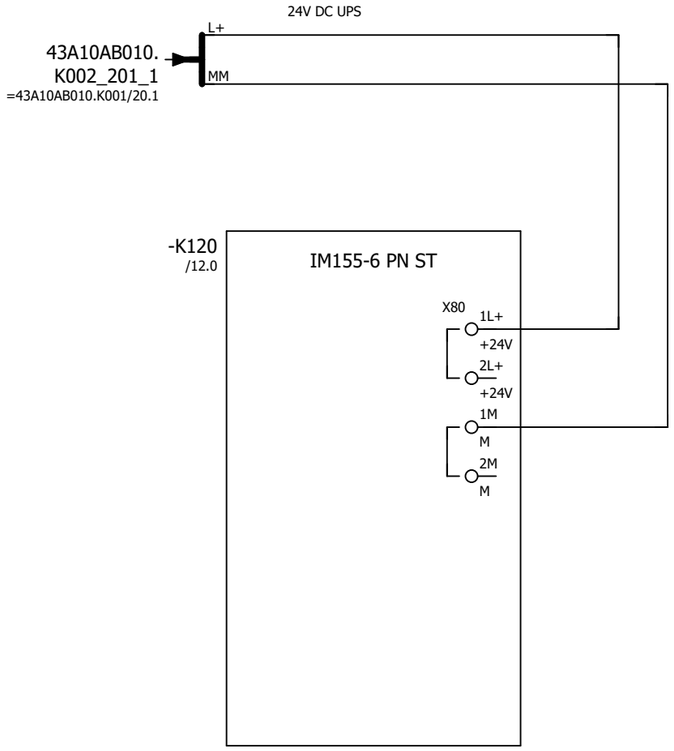
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Processor Rack	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 12
Department	E&I	Checked					CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M001	From 50
Edited by	CHRU02	Designed			TATA STEEL LIMITED, GAMHARIA GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power Supply	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M001	From 50
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

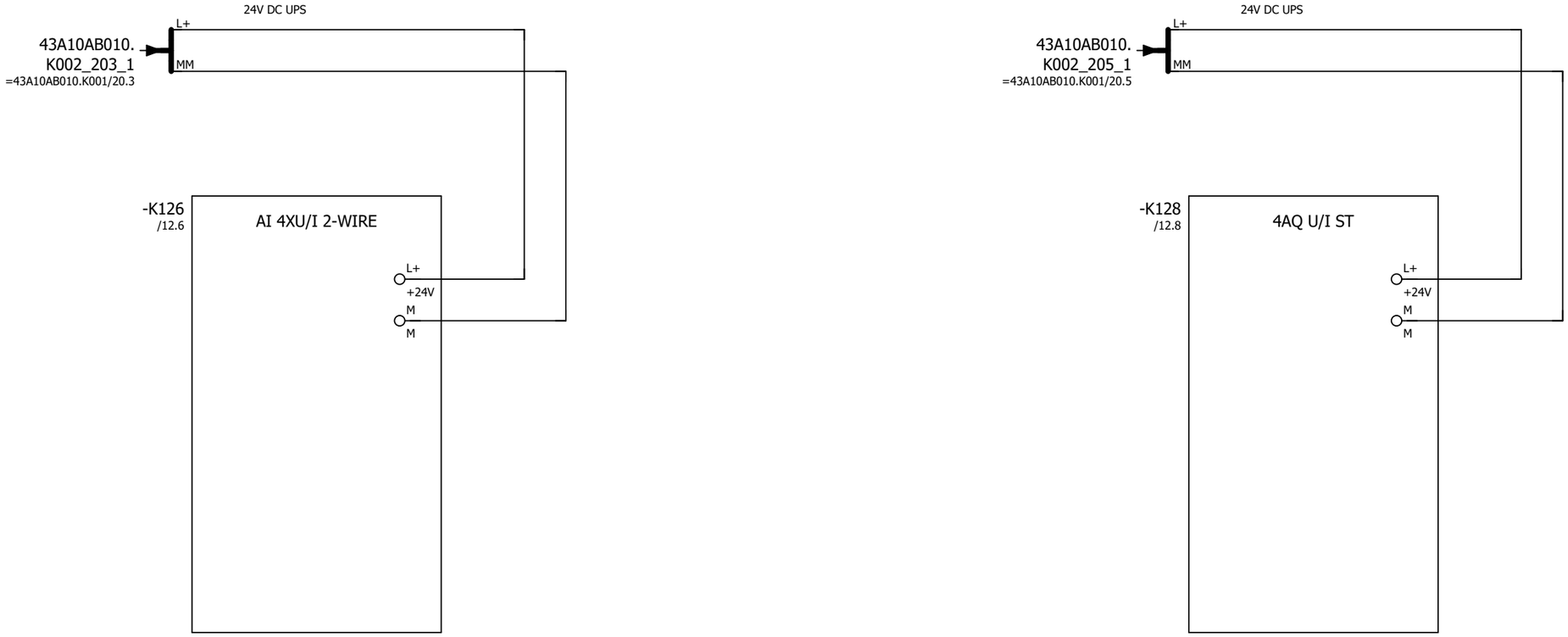


Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Rack layout ET200SP	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 12
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Power supply
24V DC
IM155-6PN ST
Node-1

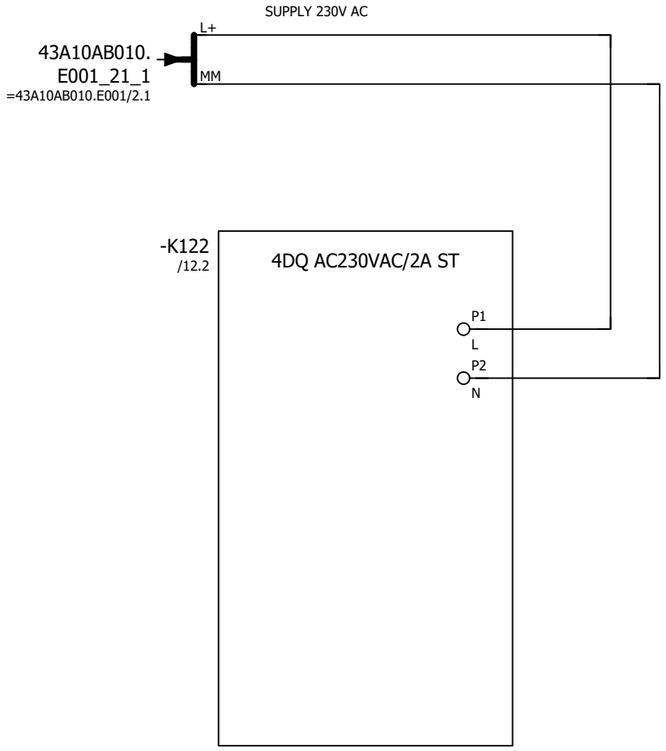
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

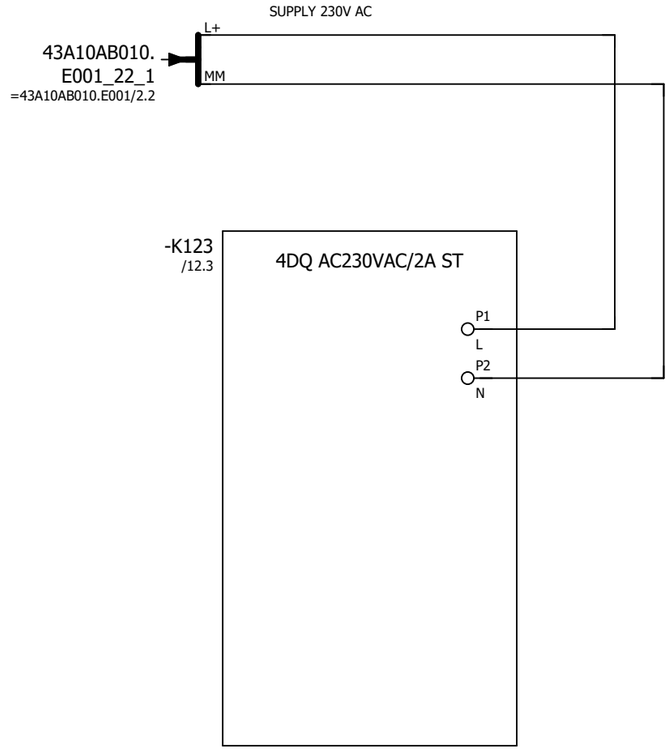


Power supply
24V DC
AI Card 1
Node-1

Power supply
24V DC
AO Card 1
Node-1

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 52
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

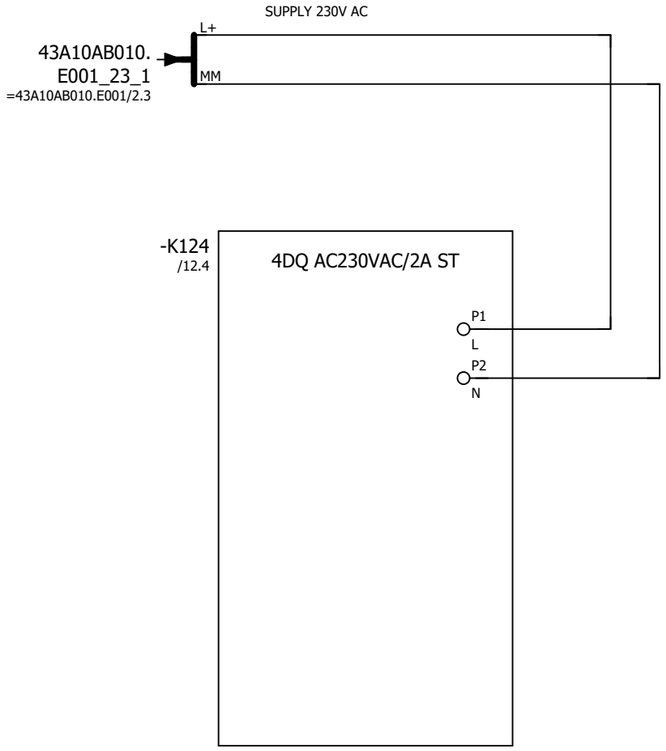


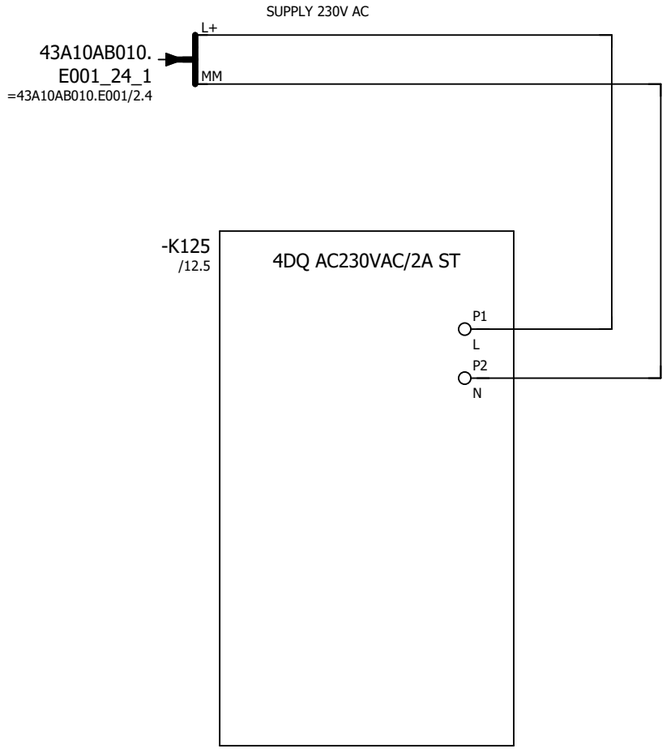


Power supply
24V DC
4ch DO Card 1
Node-1

Power supply
24V DC
4ch DO Card 2
Node-1

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 53
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								





Power supply
24V DC
4ch DO Card 3
Node-1

Power supply
24V DC
4ch DO Card 4
Node-1

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 54
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K122
/12.2
4DQ AC230VAC/2A ST
6ES7 132-6FD00-0BB1

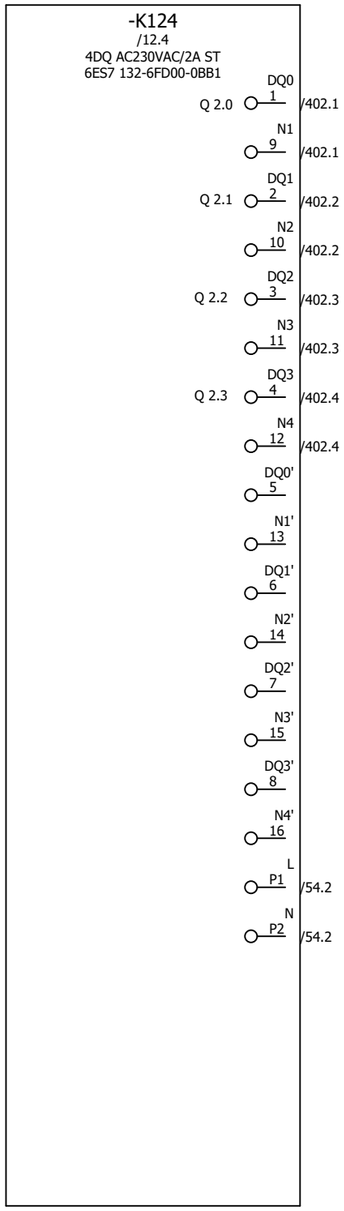
Q 0.0	DQ0 1	/400.1	COM_DO_PLC01_GEN_EMG_RES	Emergency stop reset to emergency board
	N1 9	/400.1		
Q 0.1	DQ1 2	/400.2	CPS1_DO_PRE_HT_INTK1	Pre-heat.interlock (arm lowering consent)
	N2 10	/400.2		
Q 0.2	DQ2 3	/400.3	CPS1_DO_PRE_HT_INTK2	Pre-heat.interlock (burners stop and arm lifting)
	N3 11	/400.3		
Q 0.3	DQ3 4	/400.4	CPS2_DO_PRE_HT_INTK1	Pre-heat.interlock (arm lowering consent)
	N4 12	/400.4		
	DQ0' 5			
	N1' 13			
	DQ1' 6			
	N2' 14			
	DQ2' 7			
	N3' 15			
	DQ3' 8			
	N4' 16			
	L P1	/53.2		
	N P2	/53.2		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K123
/12.3
4DQ AC230VAC/2A ST
6ES7 132-6FD00-0BB1

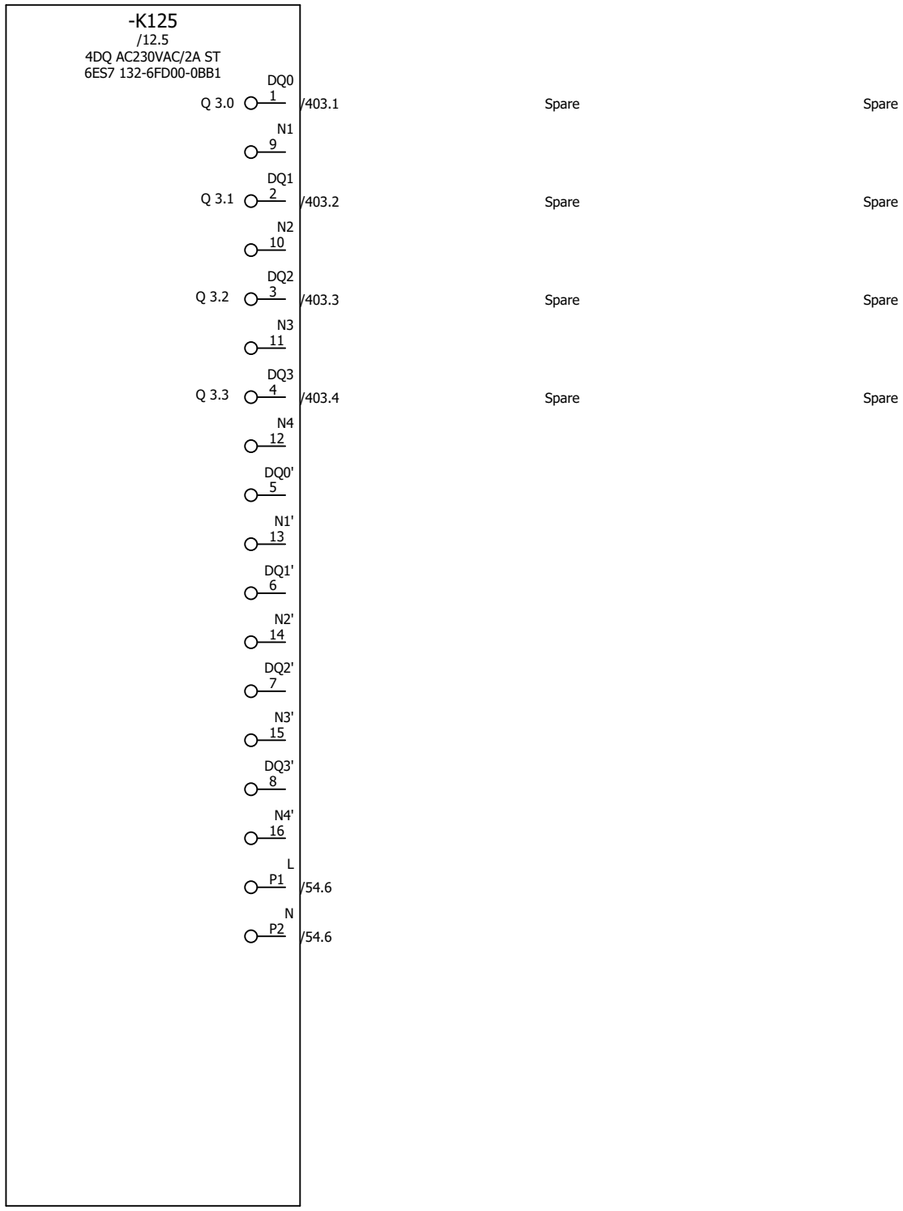
Q 1.0	DQ0 1	/401.1	CPS2_DO_PRE_HT_INTK2	Pre-heat.interlock (burners stop and arm lifting)
	N1 9			
Q 1.1	DQ1 2	/401.2	TGS_OS_ROT_HORN_LIGHT	Ladle Turret rotation acustic alarm
	N2 10			
Q 1.2	DQ2 3	/401.3	PRI_SEC_WATER_FAIL	NON CAST POS LADLE RECIEVE INDICATION
	N3 11			
Q 1.3	DQ3 4	/401.4	q0.7	Primary or 2ndary HOOTER
	N4 12			
	DQ0' 5			
	N1' 13			
	DQ1' 6			
	N2' 14			
	DQ2' 7			
	N3' 15			
	DQ3' 8			
	N4' 16			
	L P1	/53.6		
	N P2	/53.6		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

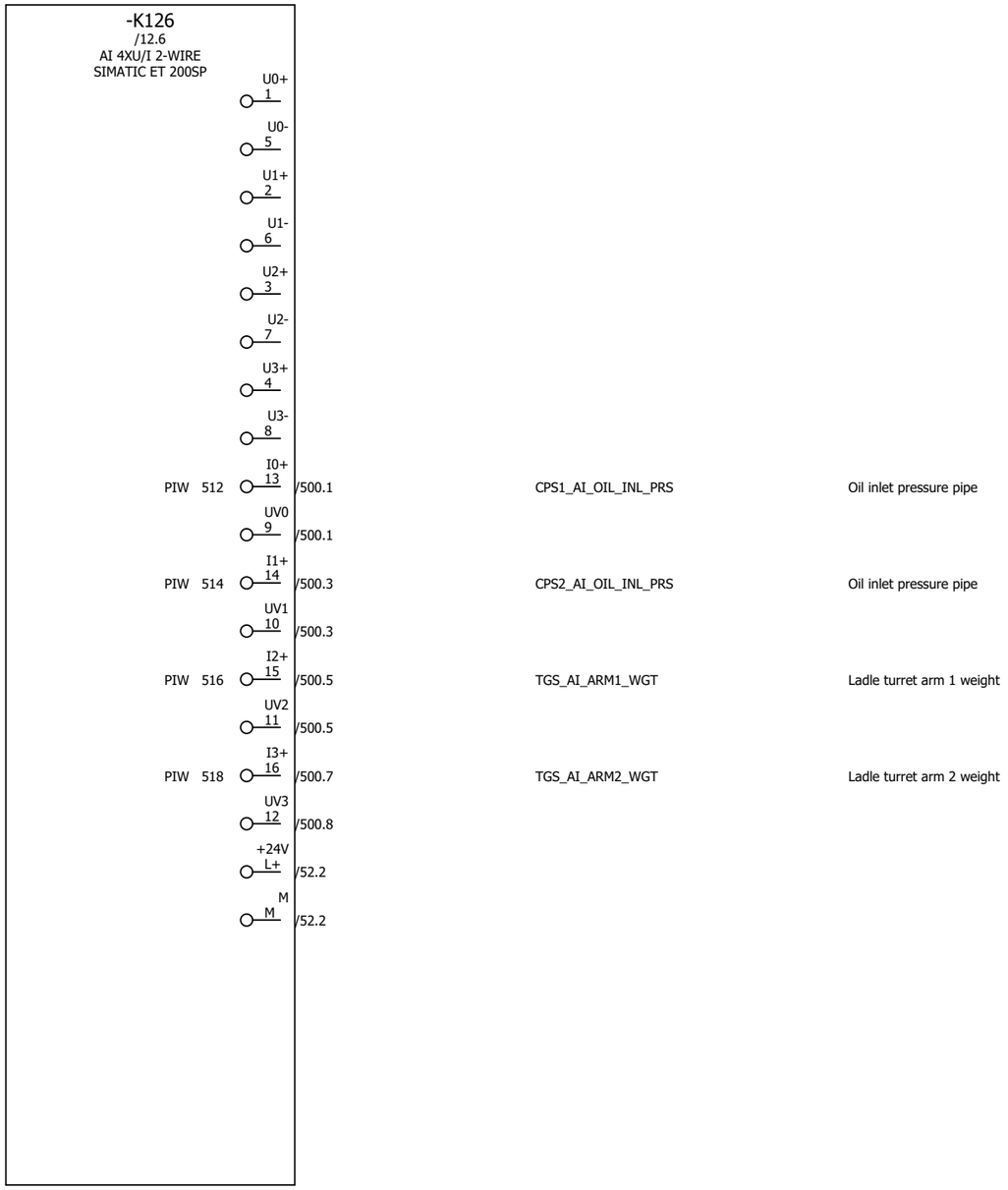


CPS1_DO_MONITOR_LMP	Car 1 Traverse 1 monitor by flashing lamp
CPS1_DO_MONITOR_HORN	Car 1 Traverse monitor horn
CPS2_DO_MONITOR_LMP	car 2 Traverse 1 monitor by flashing lamp
CPS2_DO_MONITOR_HORN	car 2 Traverse monitor horn

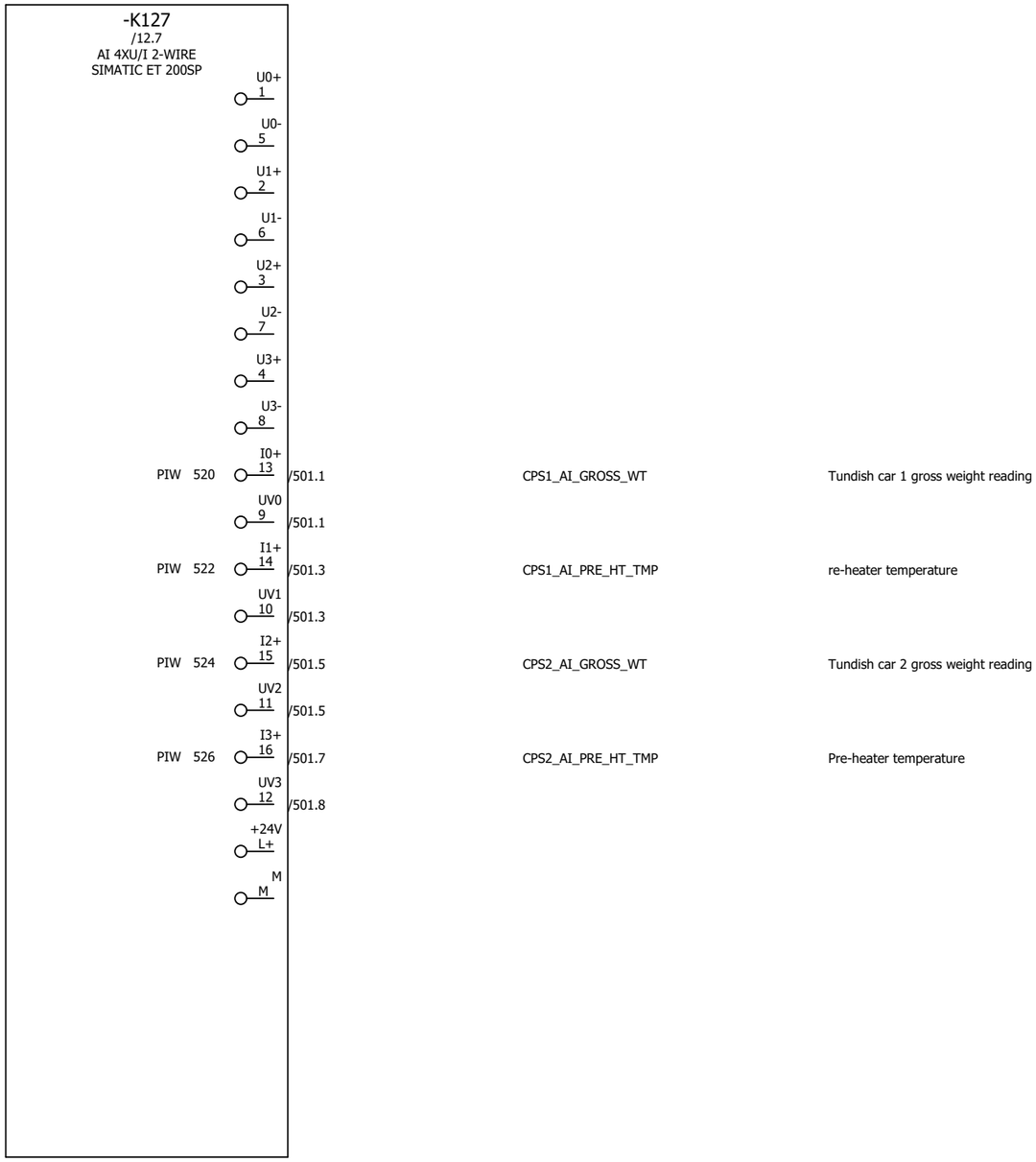
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 72
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



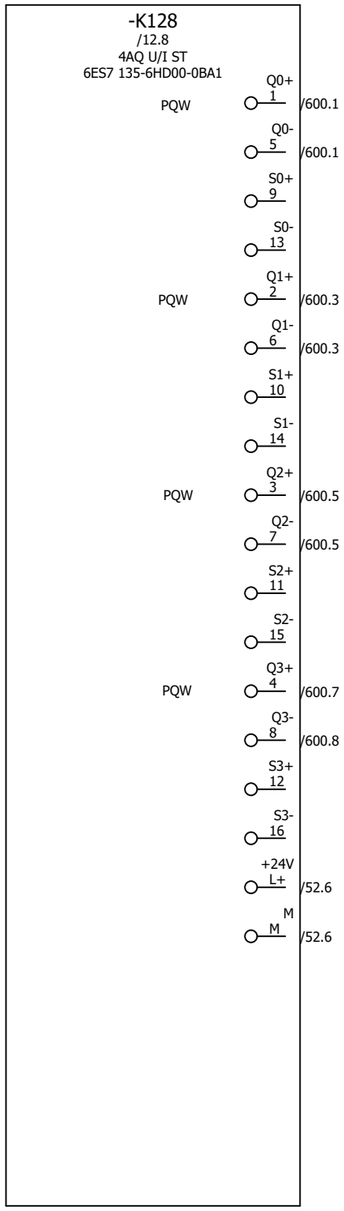
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 74
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 75
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP AI Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Spare

Spare

Spare

Spare

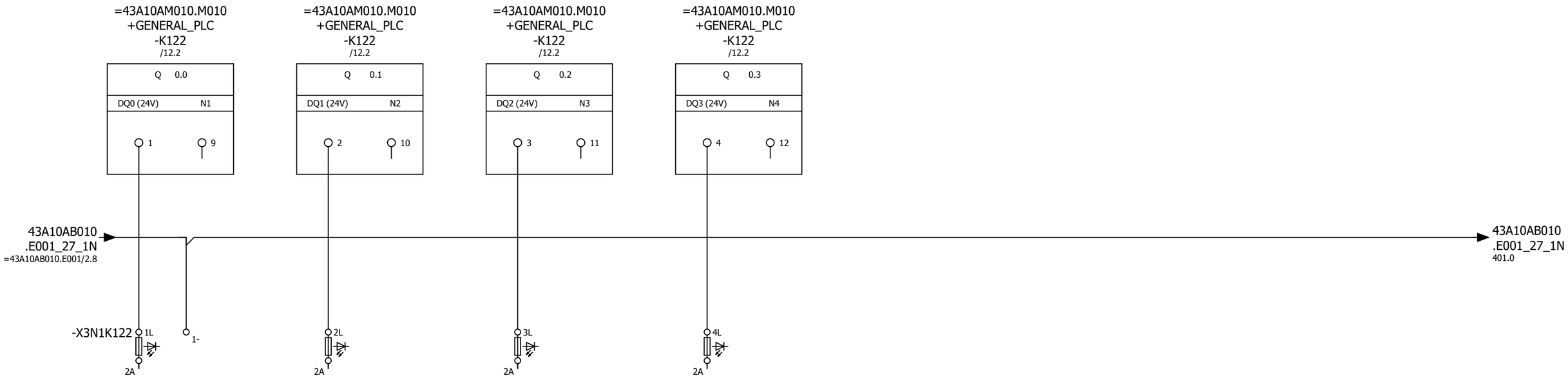
Spare

Spare

Spare

Spare

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 76
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP AO Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



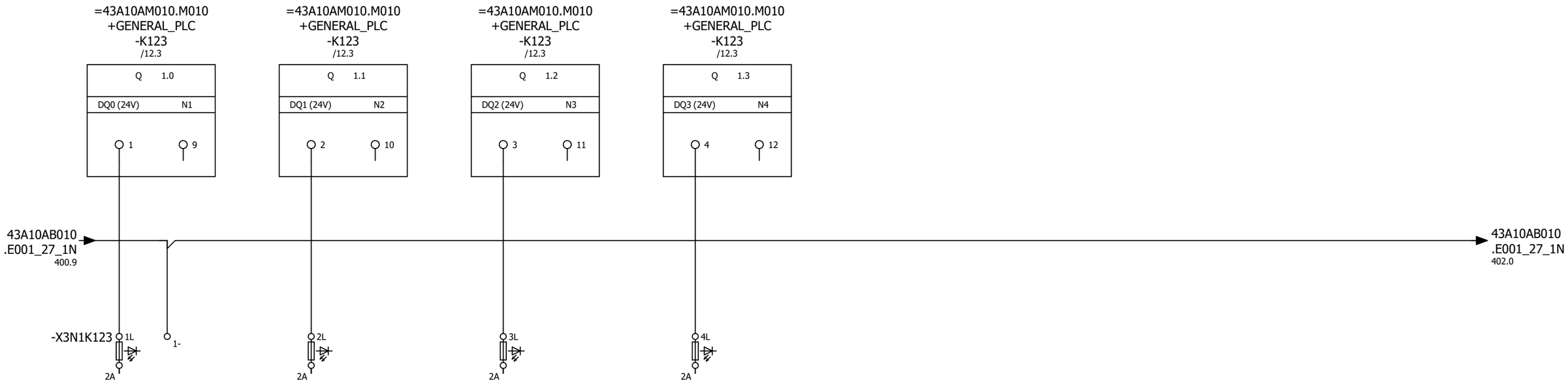
Emergency stop reset
to emergency board

Pre-heat.interlock
(arm lowering consent)

Pre-heat.interlock
(burners stop and arm lifting)

Pre-heat.interlock
(arm lowering consent)

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



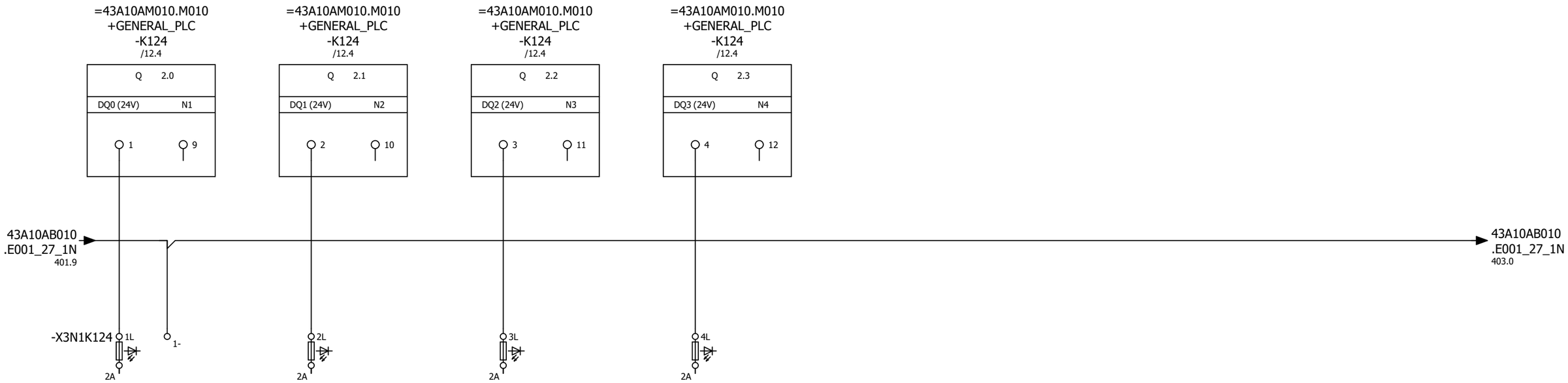
Pre-heat.interlock
(burners stop and arm lifting)

Ladle Turret rotation
acustic alarm

NON CAST POS LADLE
RECIEVE INDICATION

Primary or 2ndary HOOTER

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 2 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 401
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



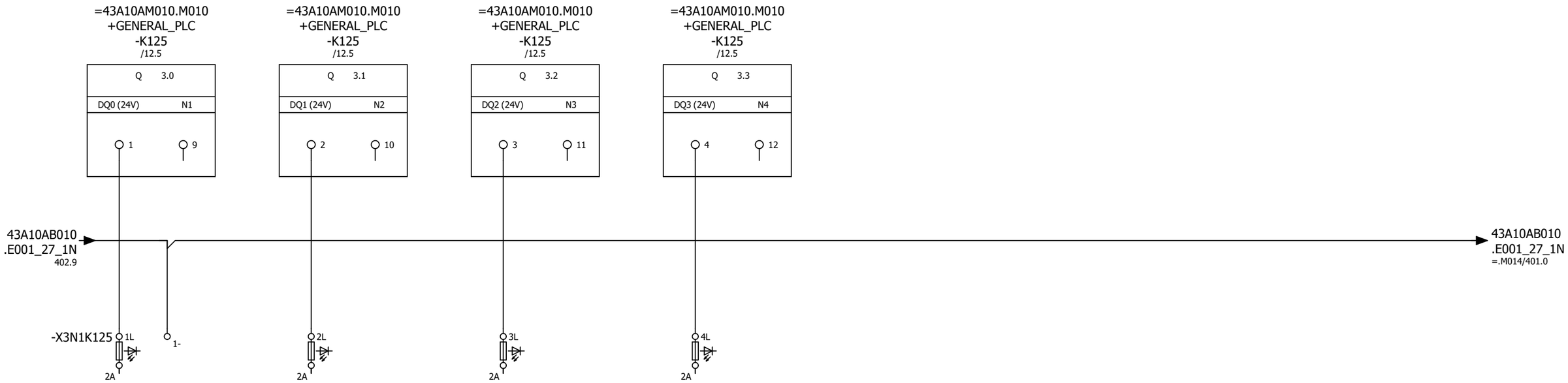
Car 1 Traverse 1 monitor by flashing lamp

Car 1 Traverse monitor horn

Car 2 Traverse 1 monitor by flashing lamp

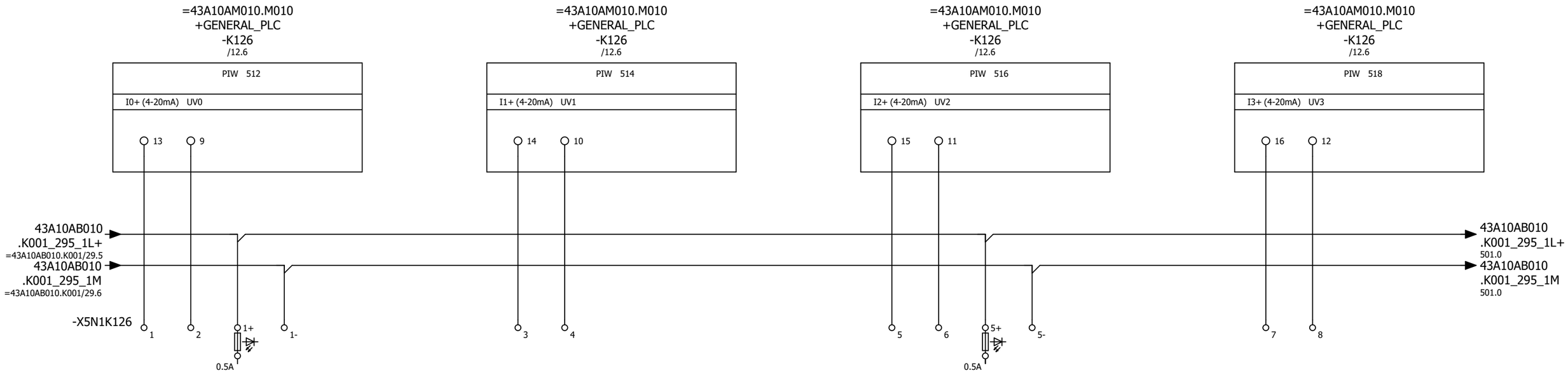
car 2 Traverse monitor horn

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 3 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 402
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



SPARE SPARE SPARE SPARE

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 4 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 403
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



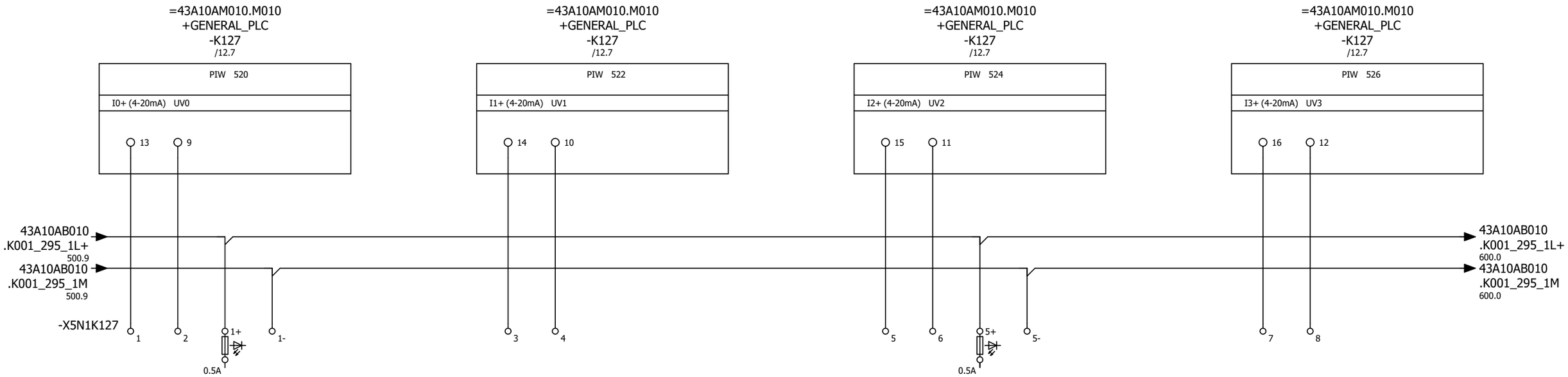
Oil inlet pressure pipe

Oil inlet pressure pipe

Ladle turret arm 1 weight

Ladle turret arm 2 weight

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 1 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 500
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



Tundish car 1
gross weight reading

Pre-heater temperature

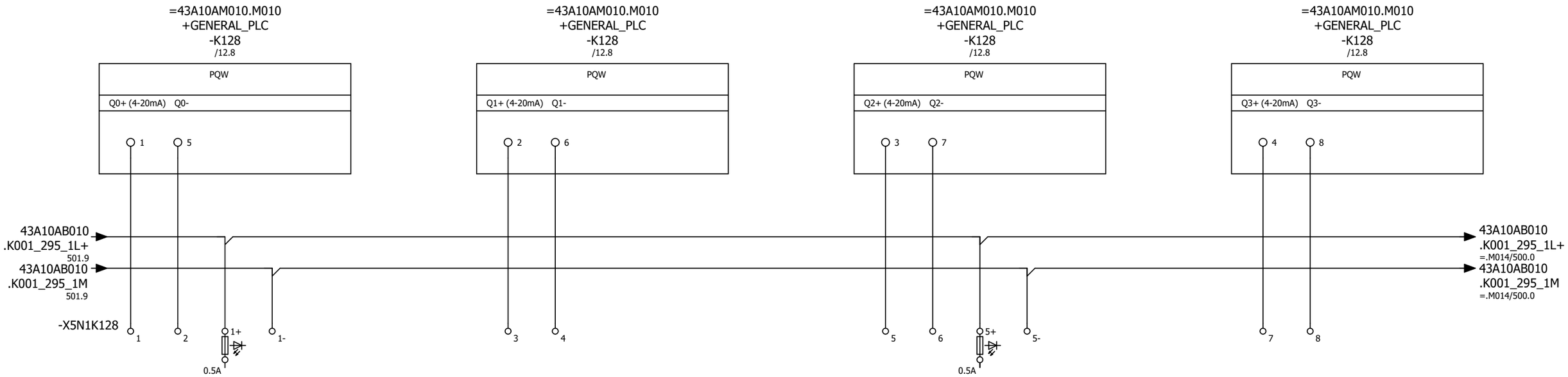
Tundish car 2 gross weight reading

Pre-heater temperature

500

600

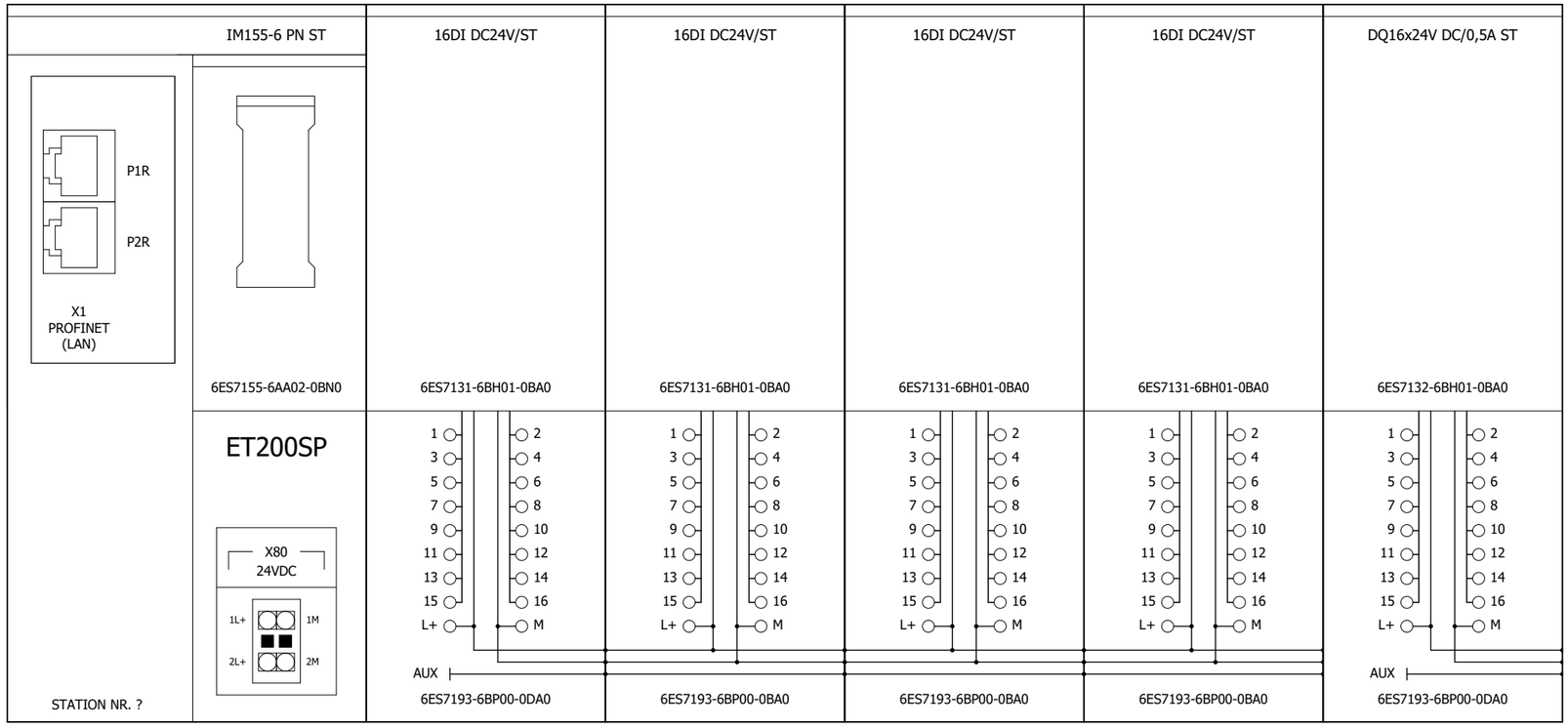
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 2 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 501
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



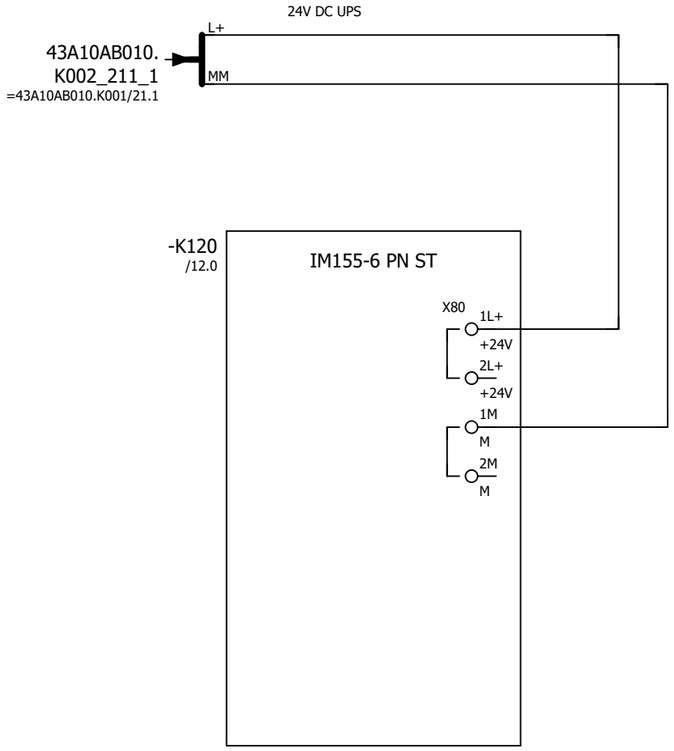
SPARE SPARE SPARE SPARE

501 =.M011/12

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog outputs ET200SP AO Card 1 Node 1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 600
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M010	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								

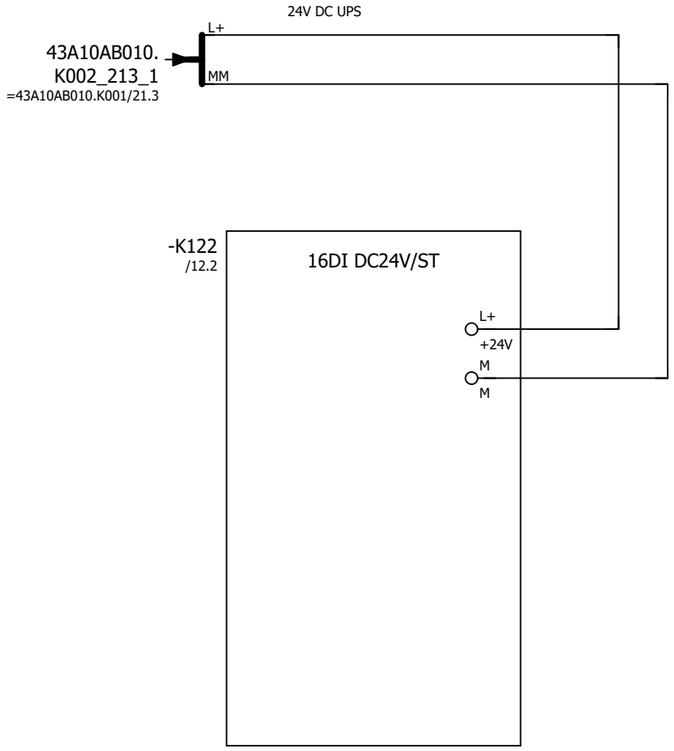


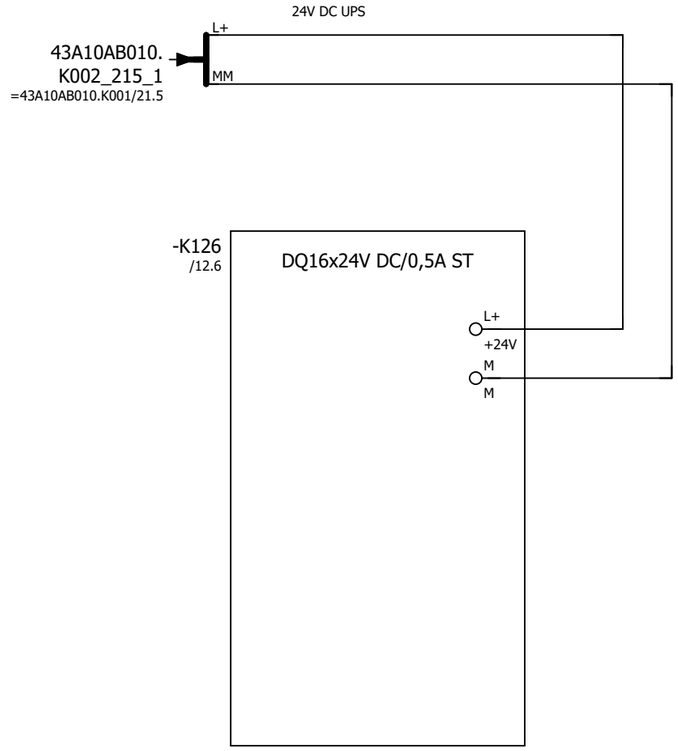
-K120	-K122	-K123	-K124	-K125	-K126
/50.1	/52.1	/302.0	/304.0	/306.0	/52.5
	/300.0	/302.2	/304.2	/306.2	/400.0
	/300.2	/302.3	/304.3	/306.3	/400.2
	/300.3	/302.4	/304.4	/306.4	/400.3
	/300.4	/302.5	/304.5	/306.5	/400.4
	/300.5	/302.6	/304.6	/306.6	/400.5
	/300.6	/302.7	/304.7	/306.7	/400.6
	/300.7	/302.8	/304.8	/306.8	/400.7
	/300.8	/303.0	/305.0	/307.0	/400.8
	/301.0	/303.2	/305.2	/307.2	/401.0
	/301.2	/303.3	/305.3	/307.3	/401.2
	/301.3	/303.4	/305.4	/307.4	/401.3
	/301.4	/303.5	/305.5	/307.5	/401.4
	/301.5	/303.6	/305.6	/307.6	/401.5
	/301.6	/303.7	/305.7	/307.7	/401.6
	/301.7	/303.8	/305.8	/307.8	/401.7
	/301.8	/71.0	/72.0	/73.0	/401.8
	/70.0				/74.0



Power supply
24V DC
IM155-6PN ST
Node-2

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								





Power supply
24V DC
DI Card 1
Node-2

Power supply
24V DC
DO Card 1
Node-2

-K122
/12.2
16DI DC24V/ST
6ES7131-6BH01-0BA0

I	0.0	DI0 1	/300.1	COM_DI_PLC01_PS_VLV_ON	Solenoid valves power supply ON (PLC01)
I	0.1	DI1 2	/300.2	COM_DI_PLC01_GEN_EMG_STP	General emergency stop (0=stop) from emergency switchboard to PLC01
I	0.2	DI2 3	/300.3	COM_DI_PLC01_TGS_EMG_STP	Ladle turret emg. stop (0=stop) from emergency switchboard to PLC01
I	0.3	DI3 4	/300.4	COM_DI_PLC01_CPS1_EMG_ST	Tundish Car #1 emergency stop (0=stop) from emg.switchboard to PLC01
I	0.4	DI4 5	/300.5	COM_DI_PLC01_CPS2_EMG_ST	Tundish Car #2 emergency stop (0=stop) from emg.switchboard to PLC01
I	0.5	DI5 6	/300.6	COM_DI_REM01_AUX_PS_ON	Remote I/O power supply on (REM01)
I	0.6	DI6 7	/300.7	COM_DI_REM02_AUX_PS_ON	Remote I/O power supply on (REM02)
I	0.7	DI7 8	/300.9	COM_DI_MCD01_AUX_PS_ON	Main control desk MCD01 power supply ON
I	1.0	DI8 9	/301.1	COM_DI_PLC01_GEV_EMG_STP	Steam exhausters fan emg. stop (0=stop) from emg.switchboard to PLC01
I	1.1	DI9 10	/301.2	COM_DI_PLC01_IAF_EMG_STP	Mould fume exhauster emg. stop (0=stop) from emg.switchboard to PLC01
I	1.2	DI10 11	/301.3	COM_DI_BCK_PS_ON	power supply from ups
I	1.3	DI11 12	/301.4	COM_DI_BCK_PS_BAT_ALM	ups battery alarm
I	1.4	DI12 13	/301.5	COM_DI_BCK_PS_INV_ALM	ups inverter alarm
I	1.5	DI13 14	/301.6	COM_DI_BCK_PS_BAT_DSC	ups battery discharging
I	1.6	DI14 15	/301.7	COM_DI_BCK_PS_BYPASS	ups by-pass
I	1.7	DI15 16	/301.9	Spare	ups by-pass
		+24V L+	/52.2		
		M M	/52.2		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K123
/12.3
16DI DC24V/ST
6ES7131-6BH01-0BA0

I	2.0	DI0 1	/302.1	COM_DI_MCS01_AUX_PS_ON	MCS01 Auxiliary 24 V ON
I	2.1	DI1 2	/302.2	COM_DI_MCS02_AUX_PS_ON	MCS02 Auxiliary 24 V ON
I	2.2	DI2 3	/302.3	COM_DI_PCT_NORM_PS	Working with normal supply line
I	2.3	DI3 4	/302.4	COM_DI_PCT_EMG_PS	Working with emergency supply line
I	2.4	DI4 5	/302.5	CPS_SI_MTA_RDY	Tundish Steel Temperature: Ready
I	2.5	DI5 6	/302.6	CPS_SI_MTA_RUN	Tundish Steel Temperature: Measuring in progress
I	2.6	DI6 7	/302.7	CPS_SI_MTA_DONE	Tundish Steel Temperature: Measuring done
I	2.7	DI7 8	/302.9	CPS1_SI_PRE_HEAT_READY	Pre-heater ready
I	3.0	DI8 9	/303.1	CPS1_SI_PRE_HEAT_RUN	Pre-heater on run(run confirm)
I	3.1	DI9 10	/303.2	CPS1_SI_PRE_HEAT_INTK	Pre-heat.interlock (1=consent to move the car)
I	3.2	DI10 11	/303.3	CPS1_SI_PRE_HEAT_EMG	Pre-heater Emergency on
I	3.3	DI11 12	/303.4	CPS2_SI_PRE_HEAT_READY	Pre-heater ready
I	3.4	DI12 13	/303.5	CPS2_SI_PRE_HEAT_RUN	Pre-heater on run(run confirm)
I	3.5	DI13 14	/303.6	CPS2_SI_PRE_HEAT_INTK	Pre-heat.interlock (1=consent to move the car)
I	3.6	DI14 15	/303.7	CPS2_SI_PRE_HEAT_EMG	CPS2: Pre-heater Emergency on
I	3.7	DI15 16	/303.9	Spare	CPS2: Pre-heater Emergency on
		+24V L+			
		M M			

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K124
/12.4
16DI DC24V/ST
6ES7131-6BH01-0BA0

I	4.0	DI0 1	/304.1	Spare	Pre-heater Emergency on
I	4.1	DI1 2	/304.2	Spare	Pre-heater Emergency on
I	4.2	DI2 3	/304.3	Spare	Pre-heater Emergency on
I	4.3	DI3 4	/304.4	Spare	Pre-heater Emergency on
I	4.4	DI4 5	/304.5	Spare	Pre-heater Emergency on
I	4.5	DI5 6	/304.6	Spare	Pre-heater Emergency on
I	4.6	DI6 7	/304.7	Spare	Pre-heater Emergency on
I	4.7	DI7 8	/304.9	COM_DI_TGS_EMG_STP	Ladle turret and tundish cars stop (0=stop) from emg. switchboard
I	5.0	DI8 9	/305.1	COM_OC_LCS01_EMG_STP	Local control station LCS01 (ladle turret) emergency stop (0=stop)
I	5.1	DI9 10	/305.2	TGS_OC_LCS01_EMG_ROT	Ladle Turret emergency rotation - LCS01
I	5.2	DI10 11	/305.3	TGS_OC_LCS01_AUTO_ROT	Ladle Turret auto rotate
I	5.3	DI11 12	/305.4	TGS_OC_LCS01_CW_ROT	Ladle Turret clockwise rotation
I	5.4	DI12 13	/305.5	TGS_OC_LCS01_CCW_ROT	Ladle Turret counter clockwise rotation
I	5.5	DI13 14	/305.6	TGS_OC_LCS01_ARM1_CAST	Ladle Turret Arm 1 in casting position forced
I	5.6	DI14 15	/305.7	TGS_OC_LCS01_ARM2_CAST	Ladle Turret Arm 2 in casting position forced
I	5.7	DI15 16	/305.9	TGS_OC_LCS01_REQ_ROT	Ladle Turret rotation request
		+24V L+			
		M M			

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 72
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K125
/12.5
16DI DC24V/ST
6ES7131-6BH01-0BA0

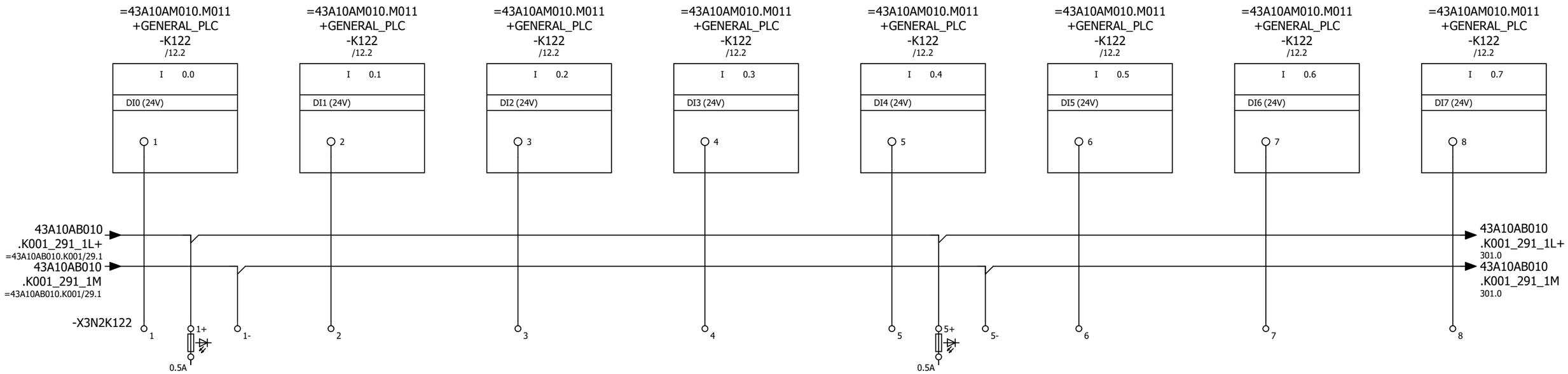
I	6.0	DI0 1	/306.1	COM_OC_LCS01_LAMP_TEST	Local control station LCS01 (ladle turret)lamp test
I	6.1	DI1 2	/306.2	TGS_OC_LCS01_ARM1_LFT	RESERVELadle Turret Arm 1 lifting - LCS01
I	6.2	DI2 3	/306.3	TGS_OC_LCS01_ARM1_LWR	Ladle Turret Arm 1 lowering - LCS01
I	6.3	DI3 4	/306.4	TGS_OC_LCS01_ARM2_LFT	Ladle Turret Arm 2 lifting - LCS01
I	6.4	DI4 5	/306.5	TGS_OC_LCS01_ARM2_LWR	Ladle Turret Arm 2 lowering - LCS01
I	6.5	DI5 6	/306.6	CST_OC_LCS01_OPN	Ladle slide gate open from LCS01
I	6.6	DI6 7	/306.7	CST_OC_LCS01_CLS	Ladle slide gate close from LCS01
I	6.7	DI7 8	/306.9	CST_OC_LCS02_AUTO	Ladle slide gate cast auto from LCS02 (casting position)
I	7.0	DI8 9	/307.1	CST_OC_LCS02_OPN	Ladle slide gate open from LCS02 (casting position)
I	7.1	DI9 10	/307.2	CST_OC_LCS02_CLS	Ladle slide gate close from LCS02 (casting position)
I	7.2	DI10 11	/307.3	CST_OC_LCS03_OPN	Ladle slide gate open from LCS03 (charging position)
I	7.3	DI11 12	/307.4	CST_OC_LCS03_CLS	Ladle slide gate close from LCS03 (charging position)
I	7.4	DI12 13	/307.5	Spare	Ladle slide gate close from LCS03 (charging position)
I	7.5	DI13 14	/307.6	Spare	Ladle slide gate close from LCS03 (charging position)
I	7.6	DI14 15	/307.7	Spare	Ladle slide gate close from LCS03 (charging position)
I	7.7	DI15 16	/307.9	Spare	Ladle slide gate close from LCS03 (charging position)
		+24V L+			
		M M			

Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA	ET200SP DI Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025							

-K126
/12.6
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

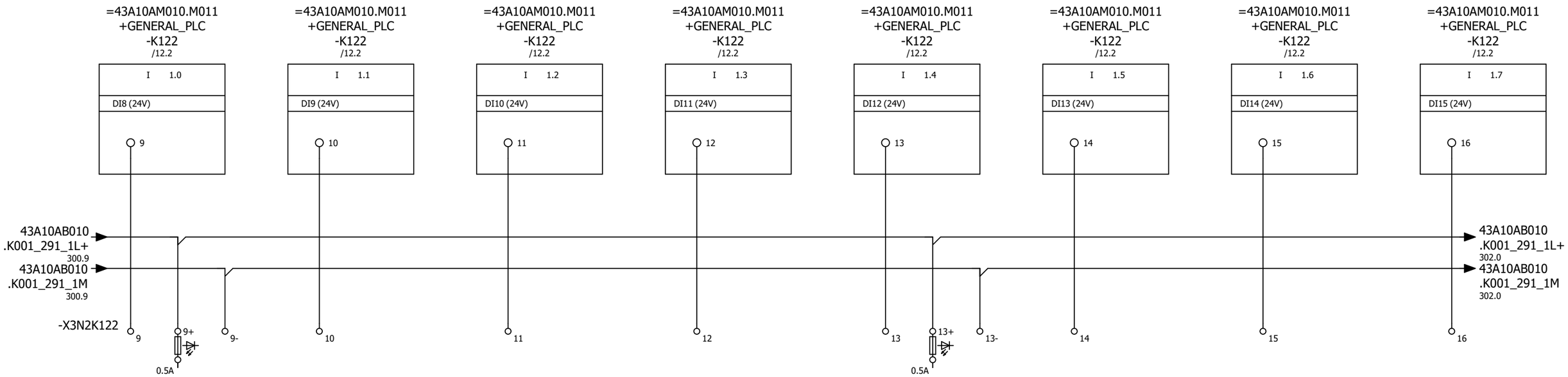
Q	10.0	DQ0 1	/400.1	COM_OS_LCS01_EMG_STP	Local control station LCS01 (ladle turret) emergency stop lamp
Q	10.1	DQ1 2	/400.2	TGS_OS_LCS01_EMG_ROT	Ladle Turret emergency rotation - LCS01
Q	10.2	DQ2 3	/400.3	TGS_OS_LCS01_RDY	Ladle Turret Ready - LCS01
Q	10.3	DQ3 4	/400.4	TGS_OS_LCS01_RUN	Ladle Turret Running - LCS01
Q	10.4	DQ4 5	/400.5	TGS_OS_LCS01_AUTO_ROT	Ladle Turret auto rotate - LCS01
Q	10.5	DQ5 6	/400.6	TGS_OS_LCS01_ARM1_CAST	Ladle Turret Arm 1 in casting position
Q	10.6	DQ6 7	/400.7	TGS_OS_LCS01_ARM2_CAST	Ladle Turret Arm 2 in casting position
Q	10.7	DQ7 8	/400.9	TGS_OS_LCS01_HORN	Acoustic alarm on LCS01
Q	11.0	DQ8 9	/401.1	CST_OS_LCS01_RDY	Tundish level system ready
Q	11.1	DQ9 10	/401.2	CST_OS_LCS01_AUTO	Automatic mode
Q	11.2	DQ10 11	/401.3	TGS_OS_LCS01_ARM1_LFT	Ladle Turret Arm 1 lifted - LCS01
Q	11.3	DQ11 12	/401.4	TGS_OS_LCS01_ARM1_LWR	Ladle Turret Arm 1 lowered - LCS01
Q	11.4	DQ12 13	/401.5	TGS_OS_LCS01_ARM2_LFT	Ladle Turret Arm 2 lifted - LCS01
Q	11.5	DQ13 14	/401.6	TGS_OS_LCS01_ARM2_LWR	Ladle Turret Arm 2 lowered - LCS01
Q	11.6	DQ14 15	/401.7	Spare	Ladle Turret Arm 2 lowered - LCS02
Q	11.7	DQ15 16	/401.9	Spare	Ladle Turret Arm 2 lowered - LCS03
		+24V L+	/52.6		
		M M	/52.6		

Revision	V1-01	Approved		ACS Amosys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 74
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Solenoid valves power supply ON (PLC01)	General emergency stop (0=stop) from emergency switchboard to PLC01	Ladle turret emg. stop (0=stop) from emergency switchboard to PLC01	Tundish Car #1 emergency stop (0=stop) from emg.switchboard to PLC01	Tundish Car #2 emergency stop (0=stop) from emg.switchboard to PLC01	Remote I/O power supply on (REM01)	Remote I/O power supply on (REM02)	Main control desk MCD01 power supply ON

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 300
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



Steam exhausters fan emg. stop (0=stop) from emg.switchboard to PLC01

Mould fume exhauster emg. stop (0=stop) from emg.switchboard to PLC01

power supply from ups

ups battery alarm

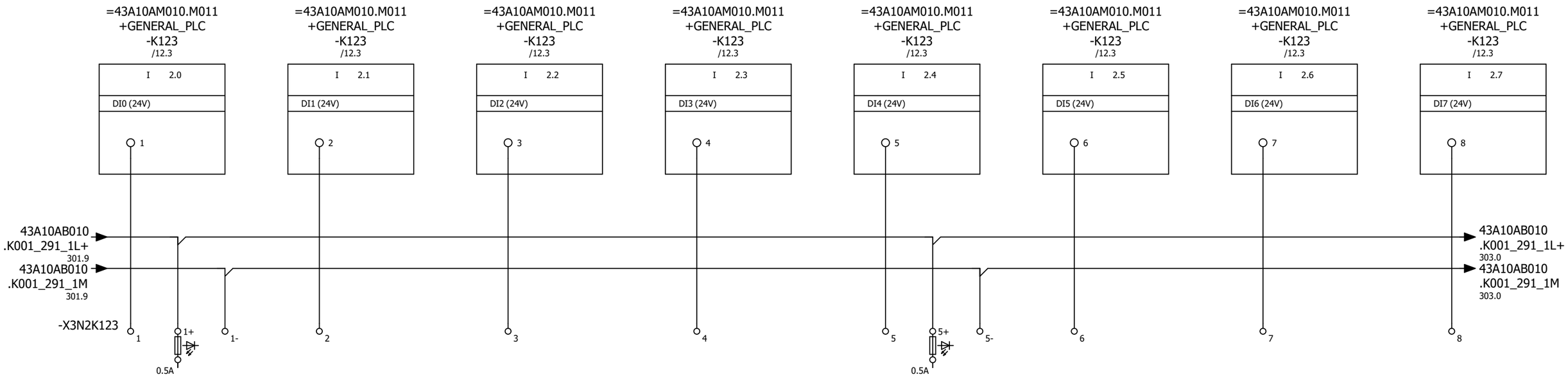
ups inverter alarm

ups battery discharging

ups by-pass

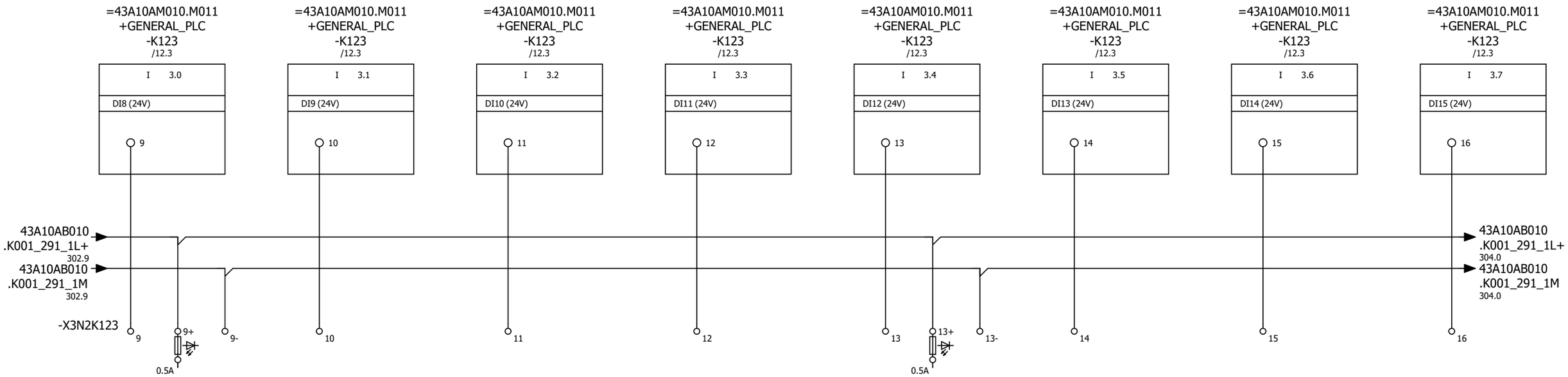
ups by-pass

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 301
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



MCS01 Auxiliary 24 V ON	MCS02 Auxiliary 24 V ON	Working with normal supply line	Working with emergency supply line	Tundish Steel Temperature: Ready	Tundish Steel Temperature: Measuring in progress	Tundish Steel Temperature: Measuring done	Pre-heater ready	

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 302
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA GENERAL PLC (PLC Room)		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed					Client no.:	+GENERAL_PLC	
Date	29.08.2025								



Pre-heater on run (run confirm)

Pre-heat.interlock (1=consent to move the car)

Pre-heater Emergency on

Pre-heater ready

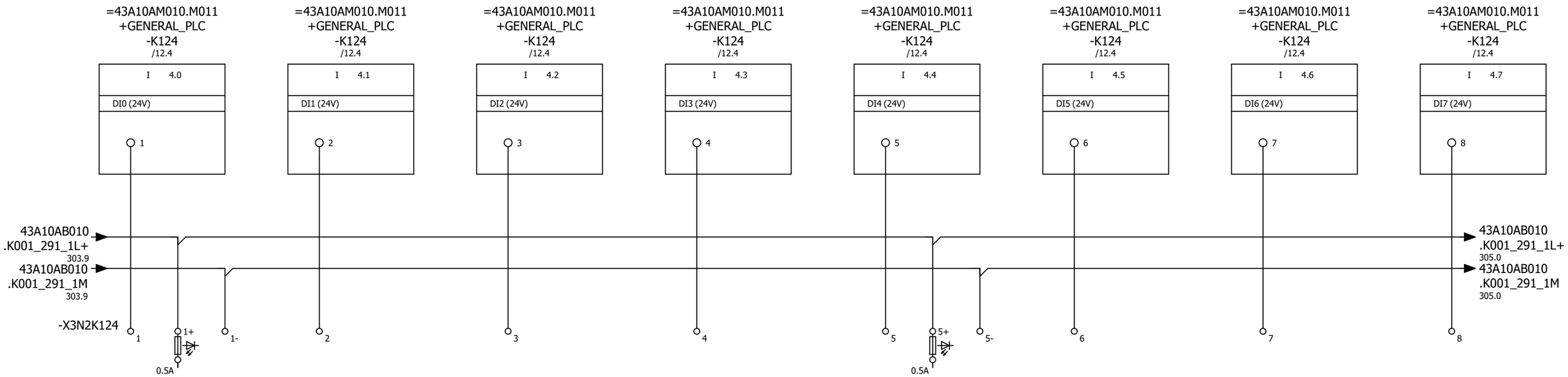
Pre-heater on run (run confirm)

Pre-heat.interlock (1=consent to move the car)

Pre-heater Emergency on

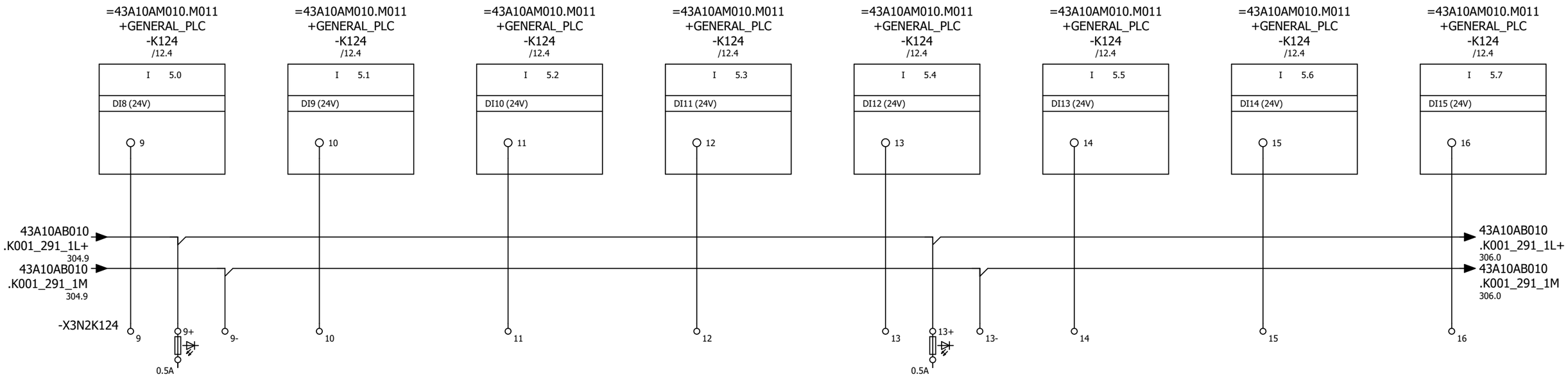
Pre-heater Emergency on

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 303
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



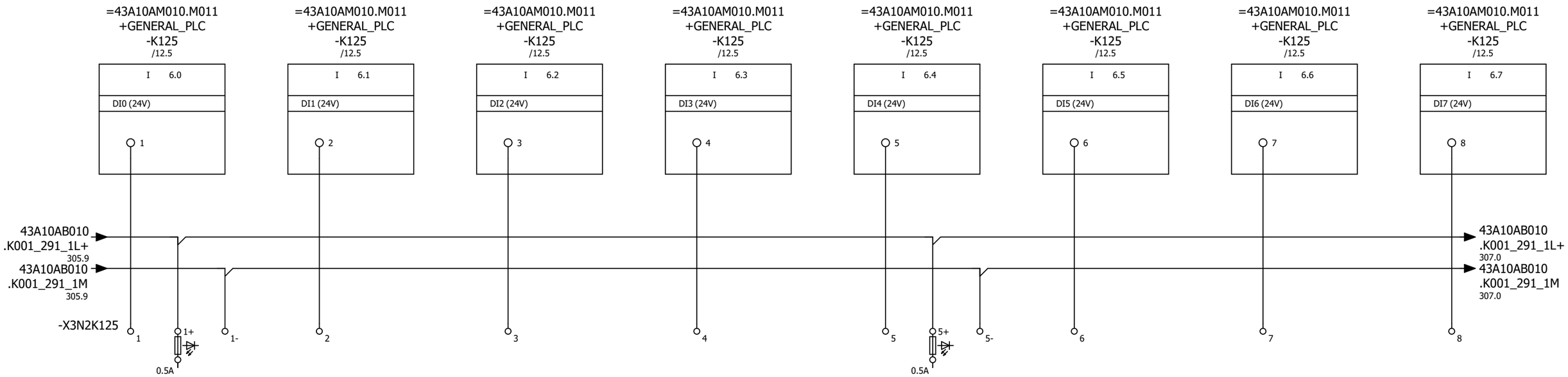
Pre-heater Emergency on	Pre-heater Emergency on	Pre-heater Emergency on	Pre-heater Emergency on	Pre-heater Emergency on	Pre-heater Emergency on	Pre-heater Emergency on	Ladle turret and tundish cars stop (0=stop) from emg. switchboard	

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 304
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



Local control station LCS01 (ladle turret) emergency stop (0=stop)	Ladle Turret emergency rotation - LCS01	Ladle Turret auto rotate	Ladle Turret clockwise rotation	Ladle Turret counter clockwise rotation	Ladle Turret Arm 1 in casting position forced	Ladle Turret Arm 2 in casting position forced	Ladle Turret rotation request

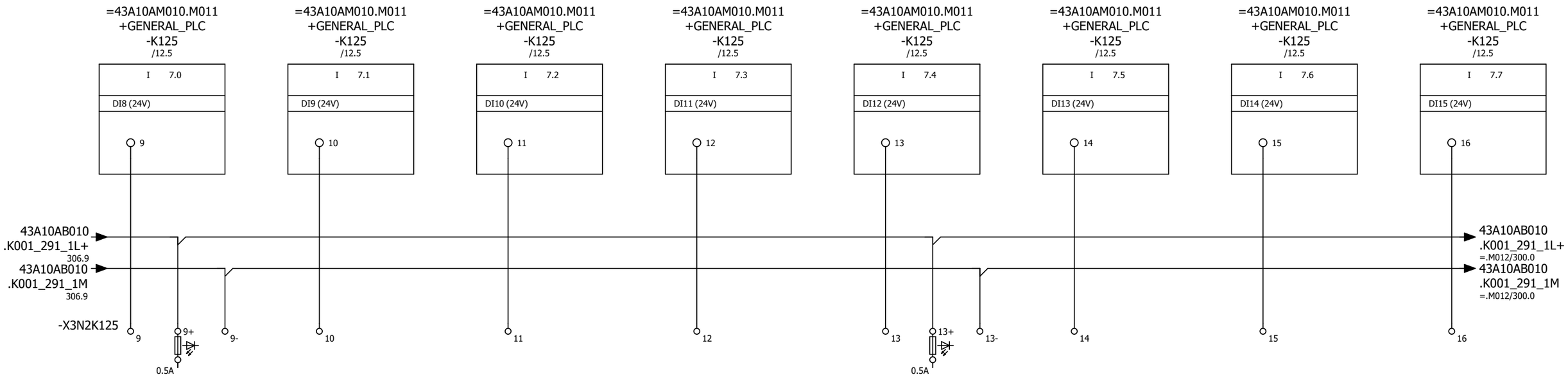
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 305
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



Local control station LCS01 (ladle turret)lamp test	Ladle Turret Arm 1 lifting - LCS01	Ladle Turret Arm 1 lowering - LCS01	Ladle Turret Arm 2 lifting - LCS01	Ladle Turret Arm 2 lowering - LCS01	Ladle slide gate open from LCS01	Ladle slide gate close from LCS01	Ladle slide gate cast auto from LCS02 (casting position)

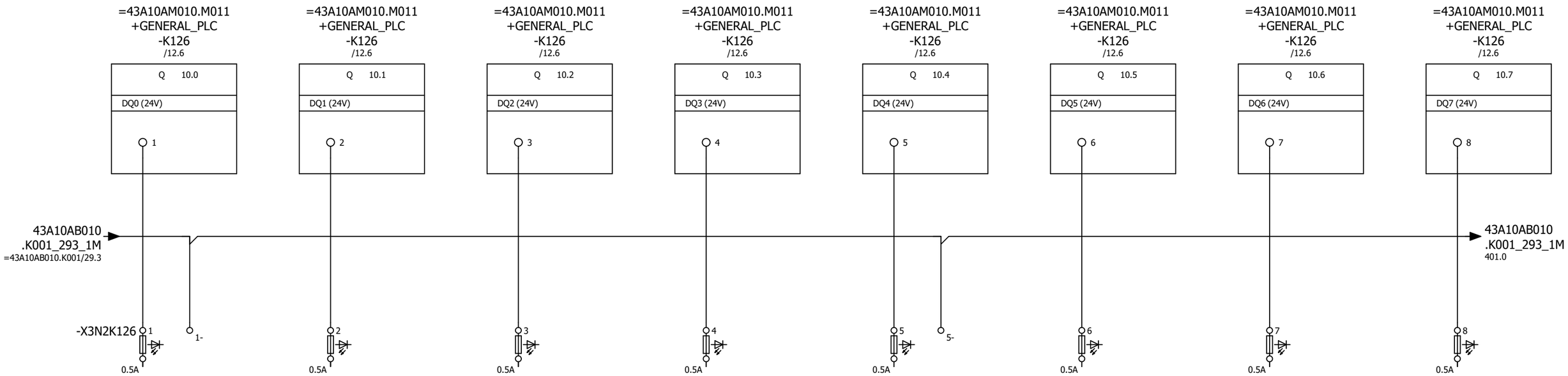
305 307

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 4 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 306
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA GENERAL PLC (PLC Room)		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed					Client no.:	+GENERAL_PLC	
Date	29.08.2025								



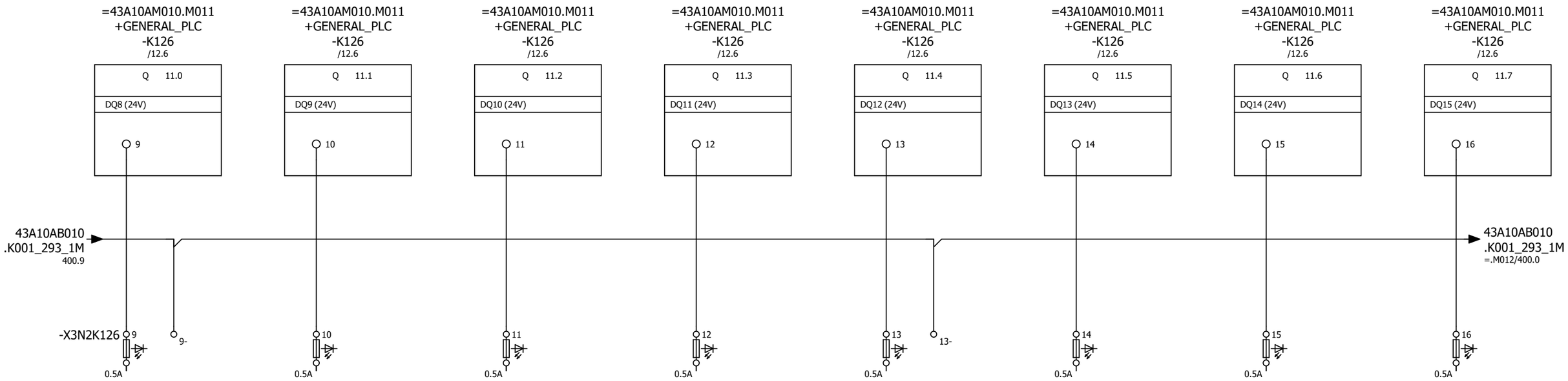
Ladle slide gate open from LCS02 (casting position)	Ladle slide gate close from LCS02 (casting position)	Ladle slide gate open from LCS03 (charging position)	Ladle slide gate close from LCS03 (charging position)	Ladle slide gate close from LCS03 (charging position)	Ladle slide gate close from LCS03 (charging position)	Ladle slide gate close from LCS03 (charging position)	Ladle slide gate close from LCS03 (charging position)	Ladle slide gate close from LCS03 (charging position)

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 4 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 307
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



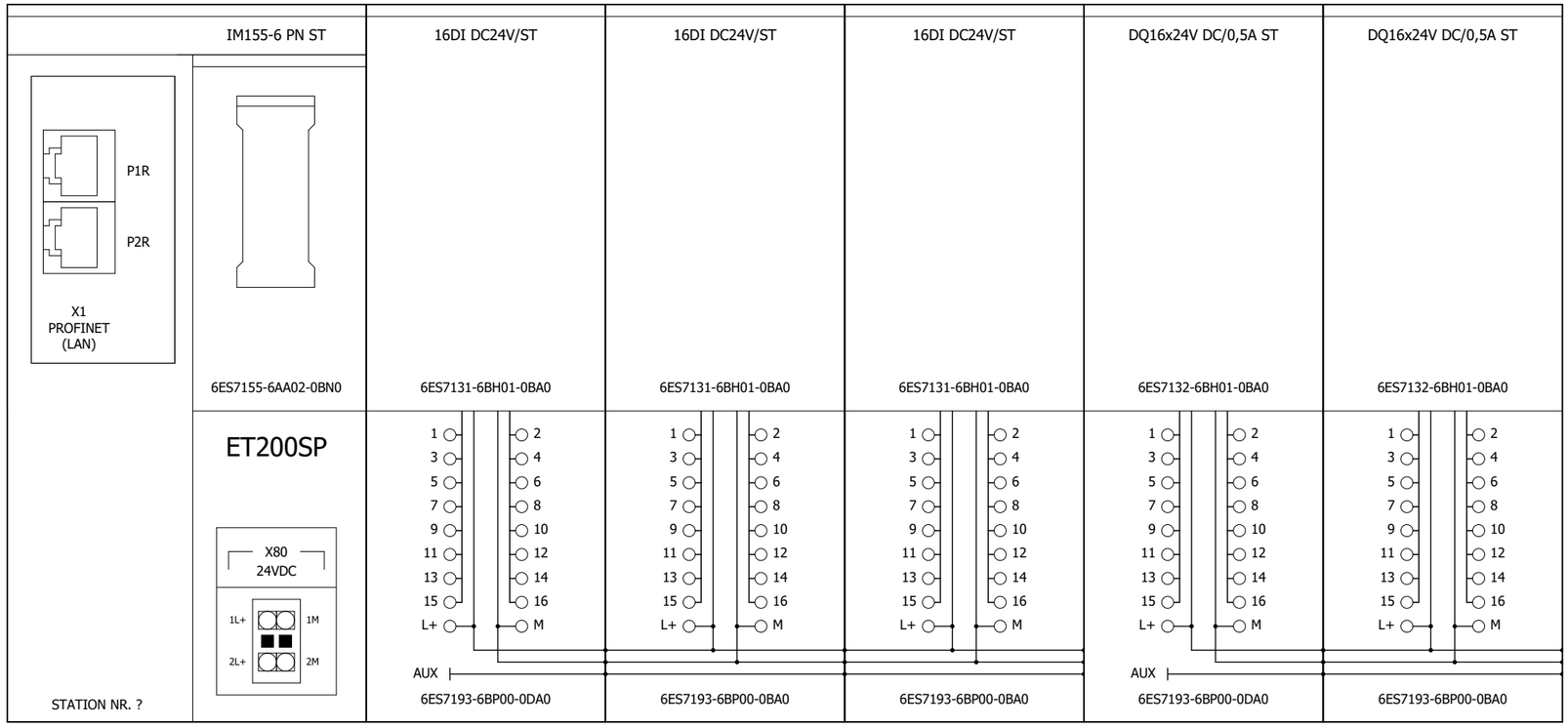
Local control station LCS01 (ladle turret) emergency stop lamp	Ladle Turret emergency rotation - LCS01	Ladle Turret Ready - LCS01	Ladle Turret Running - LCS01	Ladle Turret auto rotate - LCS01	Ladle Turret Arm 1 in casting position	Ladle Turret Arm 2 in casting position	Acoustic alarm on LCS01

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



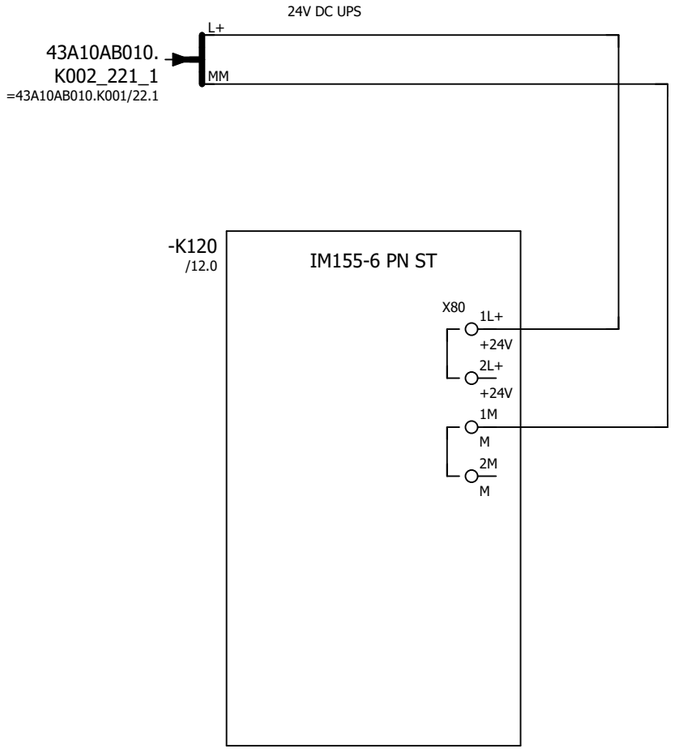
Tundish level system ready	Automatic mode	Ladle Turret Arm 1 lifted - LCS01	Ladle Turret Arm 1 lowered - LCS01	Ladle Turret Arm 2 lifted - LCS01	Ladle Turret Arm 2 lowered - LCS01	Ladle Turret Arm 2 lowered - LCS02	Ladle Turret Arm 2 lowered - LCS03

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 401
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M011	From 401
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



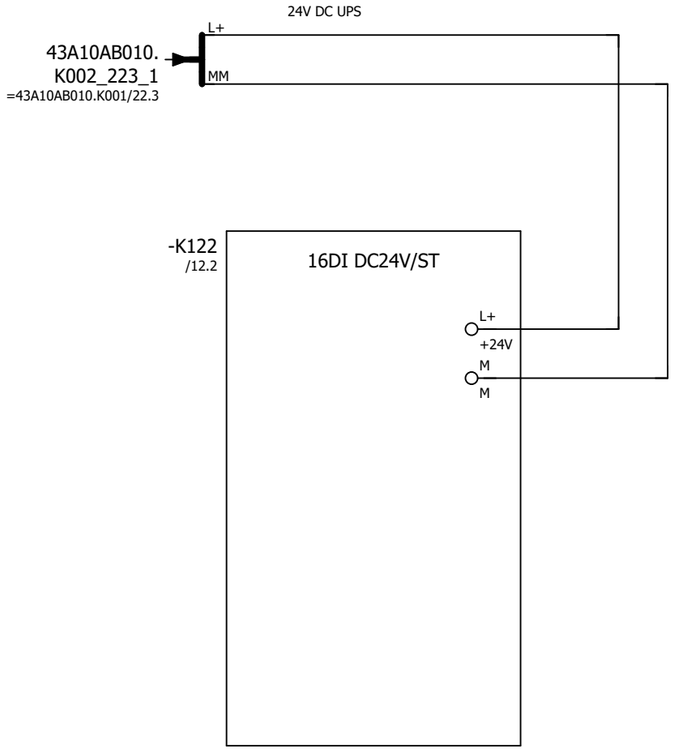
-K120	-K122	-K123	-K124	-K125	-K126
/50.1	/52.1	/302.0	/304.0	/52.5	/402.0
	/300.0	/302.2	/304.2	/400.0	/402.2
	/300.2	/302.3	/304.3	/400.2	/402.3
	/300.3	/302.4	/304.4	/400.3	/402.4
	/300.4	/302.5	/304.5	/400.4	/402.5
	/300.5	/302.6	/304.6	/400.5	/402.6
	/300.6	/302.7	/304.7	/400.6	/402.7
	/300.7	/302.8	/304.8	/400.7	/402.8
	/300.8	/303.0	/305.0	/400.8	/403.0
	/301.0	/303.2	/305.2	/401.0	/403.2
	/301.2	/303.3	/305.3	/401.2	/403.3
	/301.3	/303.4	/305.4	/401.3	/403.4
	/301.4	/303.5	/305.5	/401.4	/403.5
	/301.5	/303.6	/305.6	/401.5	/403.6
	/301.6	/303.7	/305.7	/401.6	/403.7
	/301.7	/303.8	/305.8	/401.7	/403.8
	/301.8	/71.0	/72.0	/401.8	/74.0
	/70.0			/73.0	

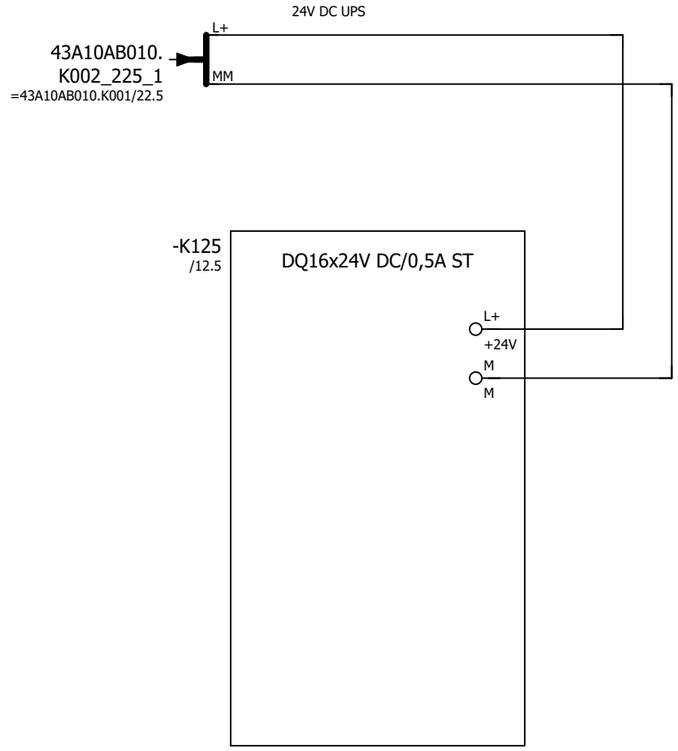
Revision	V1-01	Approved		ACS Amosys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Rack layout ET200SP	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 12
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Power supply
24V DC
IM155-6PN ST
Node-3

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								





Power supply
24V DC
DI Card 1
Node-3

Power supply
24V DC
DO Card 1
Node-3

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 52
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K122
/12.2
16DI DC24V/ST
6ES7131-6BH01-0BA0

I	0.0	DI0 1	/300.1	-Reserve	RESERVE
I	0.1	DI1 2	/300.2	-Reserve	RESERVE
I	0.2	DI2 3	/300.3	-Reserve	RESERVE
I	0.3	DI3 4	/300.4	-Reserve	RESERVE
I	0.4	DI4 5	/300.5	-Reserve	RESERVE
I	0.5	DI5 6	/300.6	-Reserve	RESERVE
I	0.6	DI6 7	/300.7	-Reserve	RESERVE
I	0.7	DI7 8	/300.9	-Reserve	RESERVE
I	1.0	DI8 9	/301.1	-Reserve	RESERVE
I	1.1	DI9 10	/301.2	-Reserve	RESERVE
I	1.2	DI10 11	/301.3	-Reserve	RESERVE
I	1.3	DI11 12	/301.4	-Reserve	RESERVE
I	1.4	DI12 13	/301.5	-Reserve	RESERVE
I	1.5	DI13 14	/301.6	-Reserve	RESERVE
I	1.6	DI14 15	/301.7	-Reserve	RESERVE
I	1.7	DI15 16	/301.9	-Reserve	RESERVE
		+24V L+	/52.2		
		M M	/52.2		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K123
/12.3
16DI DC24V/ST
6ES7131-6BH01-0BA0

I	2.0	DI0 1	/302.1	-Reserve	RESERVE
I	2.1	DI1 2	/302.2	-Reserve	RESERVE
I	2.2	DI2 3	/302.3	-Reserve	RESERVE
I	2.3	DI3 4	/302.4	-Reserve	RESERVE
I	2.4	DI4 5	/302.5	-Reserve	RESERVE
I	2.5	DI5 6	/302.6	-Reserve	RESERVE
I	2.6	DI6 7	/302.7	-Reserve	RESERVE
I	2.7	DI7 8	/302.9	-Reserve	RESERVE
I	3.0	DI8 9	/303.1	-Reserve	RESERVE
I	3.1	DI9 10	/303.2	-Reserve	RESERVE
I	3.2	DI10 11	/303.3	-Reserve	RESERVE
I	3.3	DI11 12	/303.4	-Reserve	RESERVE
I	3.4	DI12 13	/303.5	-Reserve	RESERVE
I	3.5	DI13 14	/303.6	-Reserve	RESERVE
I	3.6	DI14 15	/303.7	-Reserve	RESERVE
I	3.7	DI15 16	/303.9	-Reserve	RESERVE
		+24V L+			
		M M			

Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA	ET200SP DI Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025							

-K124
/12.4
16DI DC24V/ST
6ES7131-6BH01-0BA0

I	4.0	DI0 1	/304.1	-Reserve	RESERVE
I	4.1	DI1 2	/304.2	-Reserve	RESERVE
I	4.2	DI2 3	/304.3	-Reserve	RESERVE
I	4.3	DI3 4	/304.4	-Reserve	RESERVE
I	4.4	DI4 5	/304.5	-Reserve	RESERVE
I	4.5	DI5 6	/304.6	-Reserve	RESERVE
I	4.6	DI6 7	/304.7	-Reserve	RESERVE
I	4.7	DI7 8	/304.9	-Reserve	RESERVE
I	5.0	DI8 9	/305.1	-Reserve	RESERVE
I	5.1	DI9 10	/305.2	-Reserve	RESERVE
I	5.2	DI10 11	/305.3	-Reserve	RESERVE
I	5.3	DI11 12	/305.4	-Reserve	RESERVE
I	5.4	DI12 13	/305.5	-Reserve	RESERVE
I	5.5	DI13 14	/305.6	-Reserve	RESERVE
I	5.6	DI14 15	/305.7	-Reserve	RESERVE
I	5.7	DI15 16	/305.9	-Reserve	RESERVE
		+24V L+			
		M M			

Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 72
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA	ET200SP DI Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025							

-K125
/12.5
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

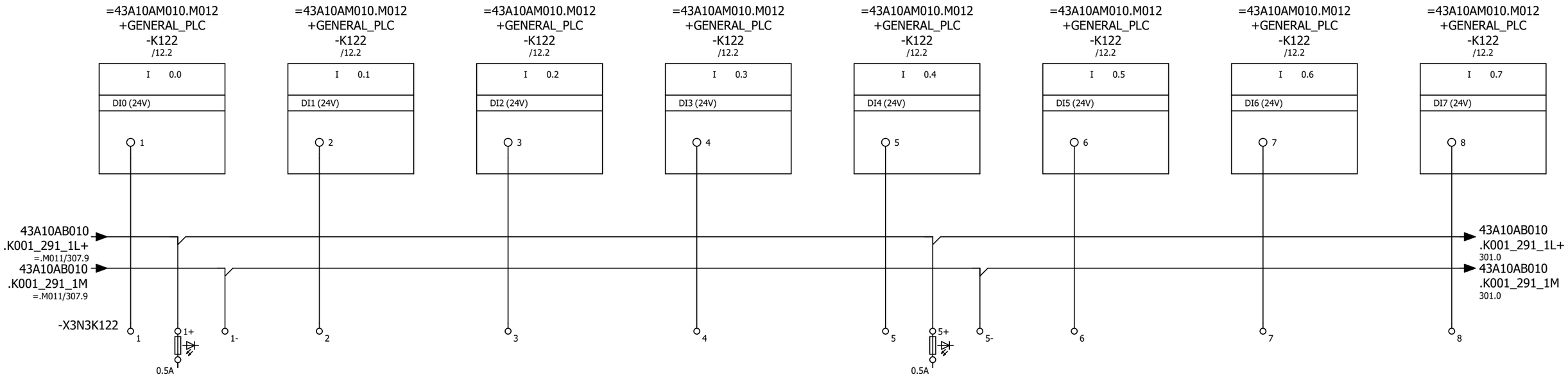
Q	20.0	DQ0 1	/400.1	-Reserve	RESERVE
Q	20.1	DQ1 2	/400.2	-Reserve	RESERVE
Q	20.2	DQ2 3	/400.3	-Reserve	RESERVE
Q	20.3	DQ3 4	/400.4	-Reserve	RESERVE
Q	20.4	DQ4 5	/400.5	-Reserve	RESERVE
Q	20.5	DQ5 6	/400.6	-Reserve	RESERVE
Q	20.6	DQ6 7	/400.7	-Reserve	RESERVE
Q	20.7	DQ7 8	/400.9	-Reserve	RESERVE
Q	21.0	DQ8 9	/401.1	-Reserve	RESERVE
Q	21.1	DQ9 10	/401.2	-Reserve	RESERVE
Q	21.2	DQ10 11	/401.3	-Reserve	RESERVE
Q	21.3	DQ11 12	/401.4	-Reserve	RESERVE
Q	21.4	DQ12 13	/401.5	-Reserve	RESERVE
Q	21.5	DQ13 14	/401.6	-Reserve	RESERVE
Q	21.6	DQ14 15	/401.7	-Reserve	RESERVE
Q	21.7	DQ15 16	/401.9	-Reserve	RESERVE
		+24V L+	/52.6		
		M M	/52.6		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K126
/12.6
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

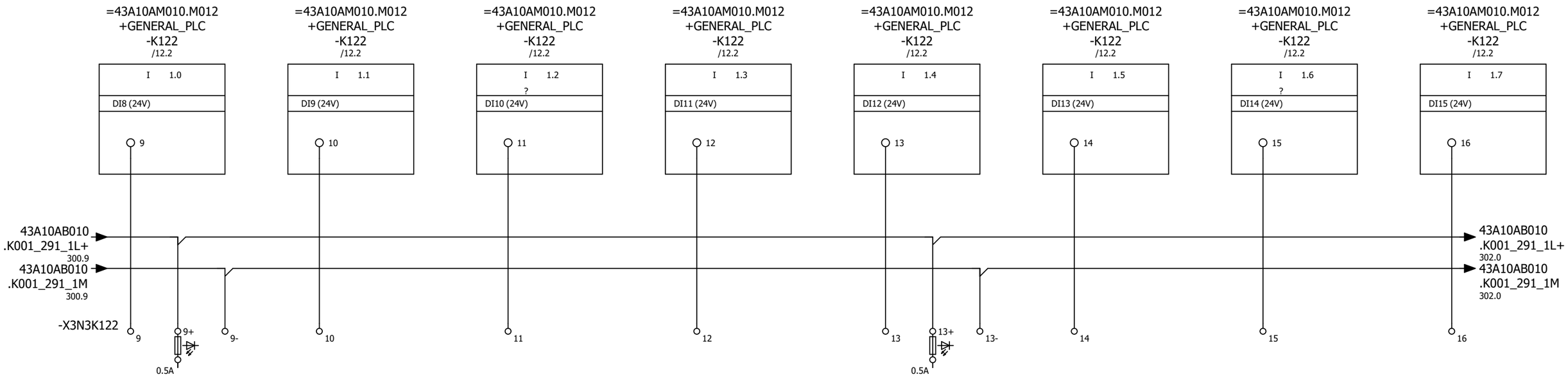
Q	22.0	DQ0 1	/402.1	-Reserve	RESERVE
Q	22.1	DQ1 2	/402.2	-Reserve	RESERVE
Q	22.2	DQ2 3	/402.3	-Reserve	RESERVE
Q	22.3	DQ3 4	/402.4	-Reserve	RESERVE
Q	22.4	DQ4 5	/402.5	-Reserve	RESERVE
Q	22.5	DQ5 6	/402.6	-Reserve	RESERVE
Q	22.6	DQ6 7	/402.7	-Reserve	RESERVE
Q	22.7	DQ7 8	/402.9	-Reserve	RESERVE
Q	23.0	DQ8 9	/403.1	-Reserve	RESERVE
Q	23.1	DQ9 10	/403.2	-Reserve	RESERVE
Q	23.2	DQ10 11	/403.3	-Reserve	RESERVE
Q	23.3	DQ11 12	/403.4	-Reserve	RESERVE
Q	23.4	DQ12 13	/403.5	-Reserve	RESERVE
Q	23.5	DQ13 14	/403.6	-Reserve	RESERVE
Q	23.6	DQ14 15	/403.7	-Reserve	RESERVE
Q	23.7	DQ15 16	/403.9	-Reserve	RESERVE
		+24V L+			
		M M			

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 74
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

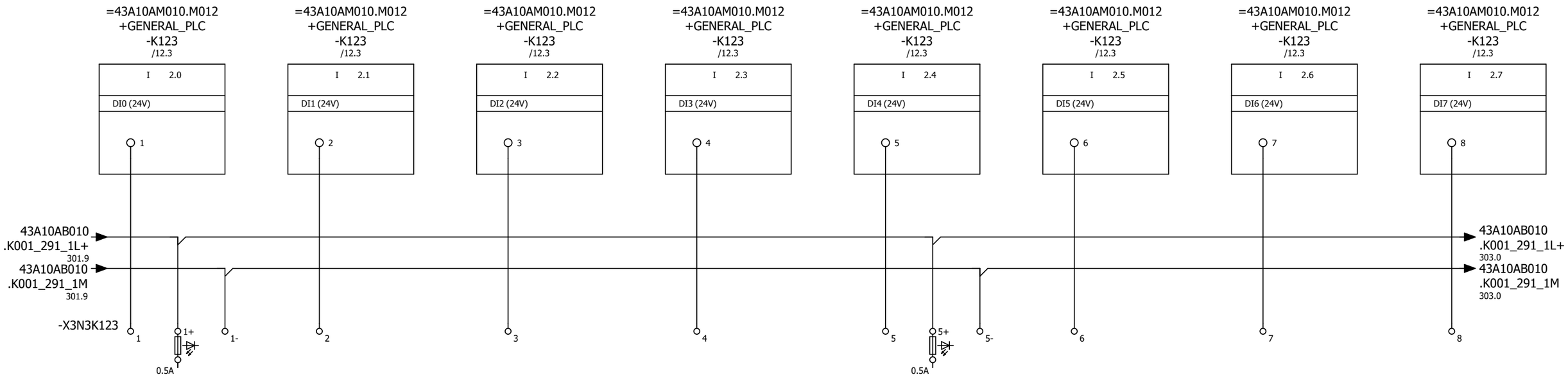
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 300
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

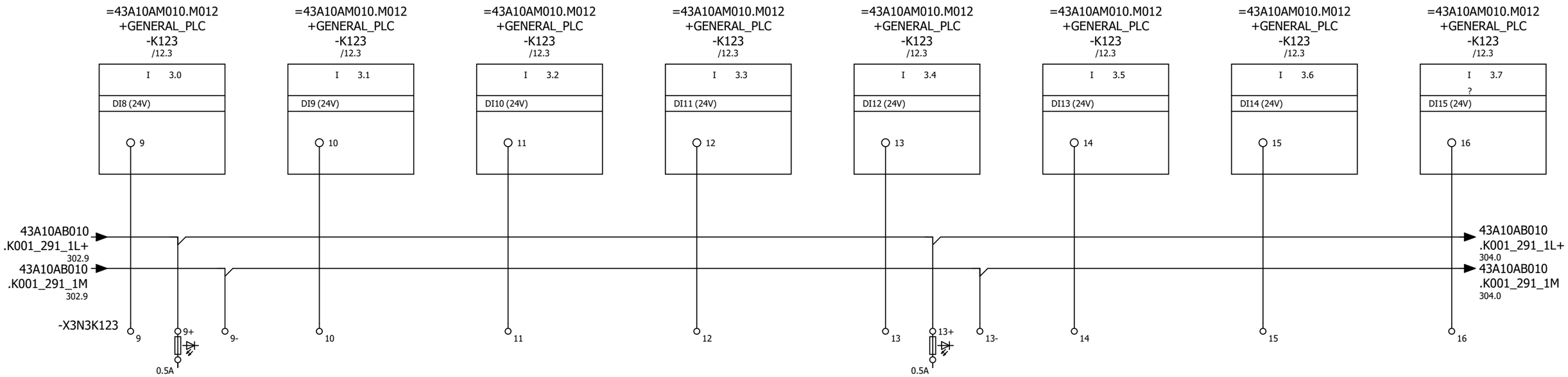
300 302

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 301
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

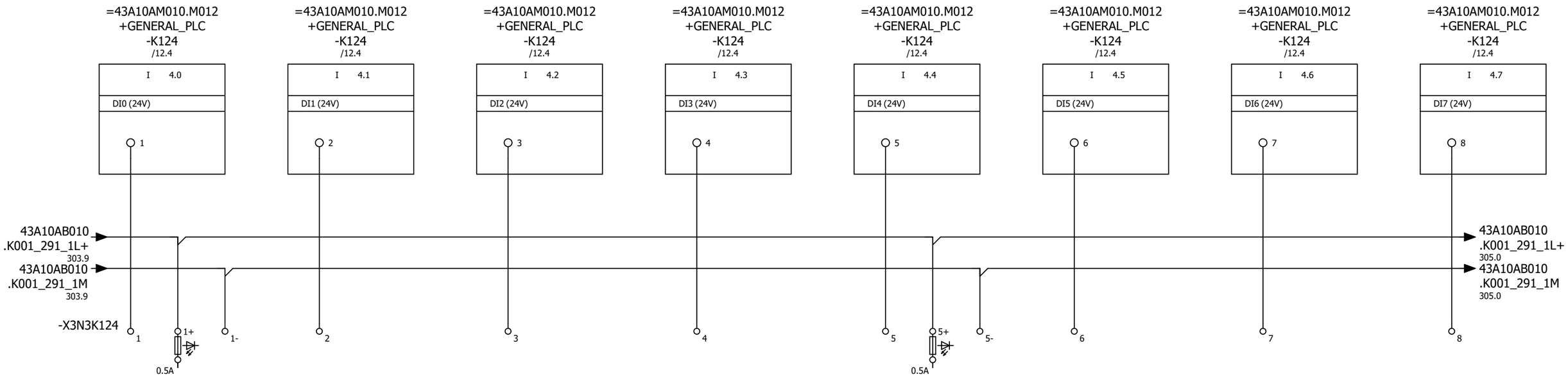
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 302
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

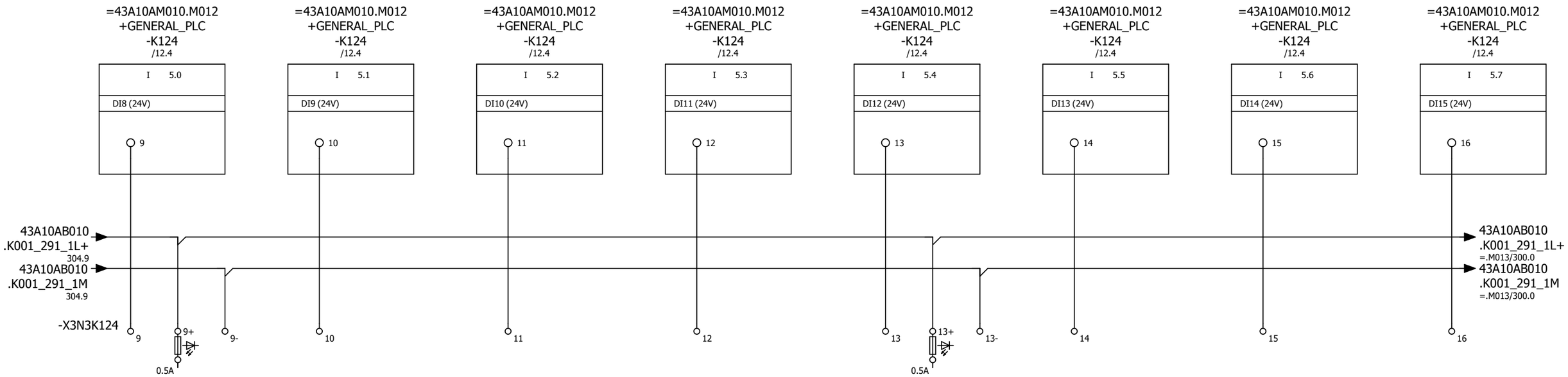
302 304

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 303
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

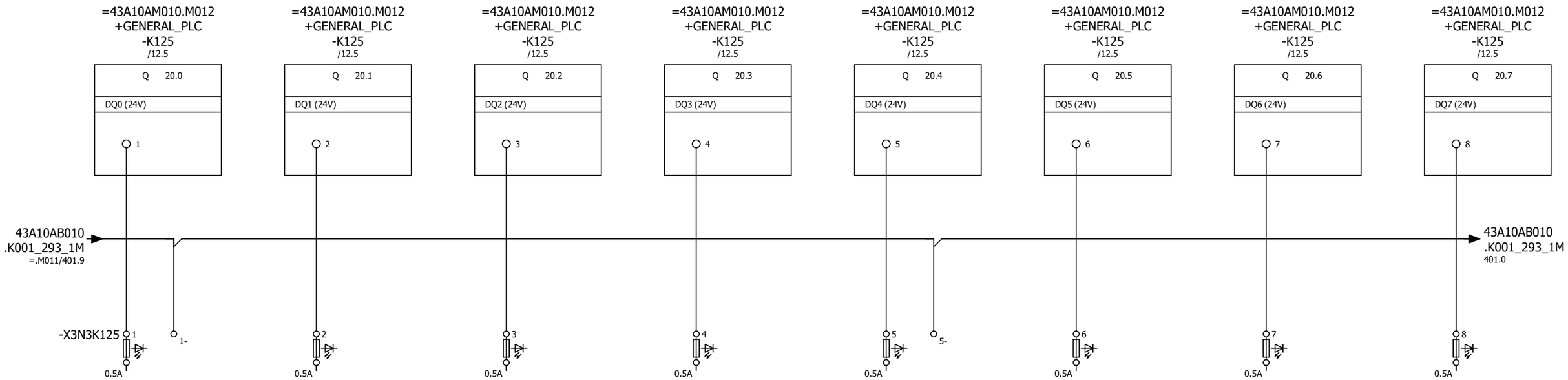
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 304
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

304 400

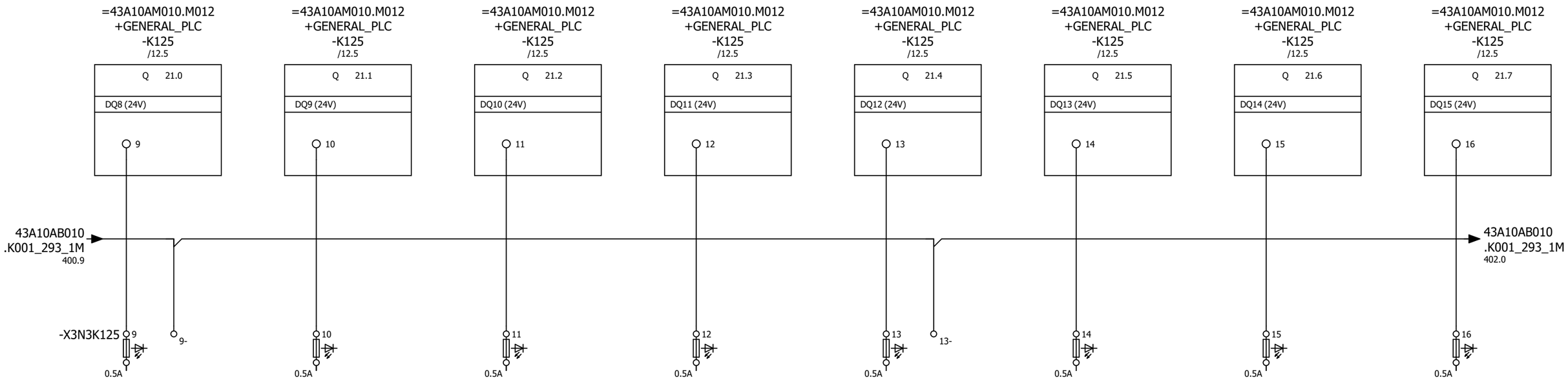
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 305
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

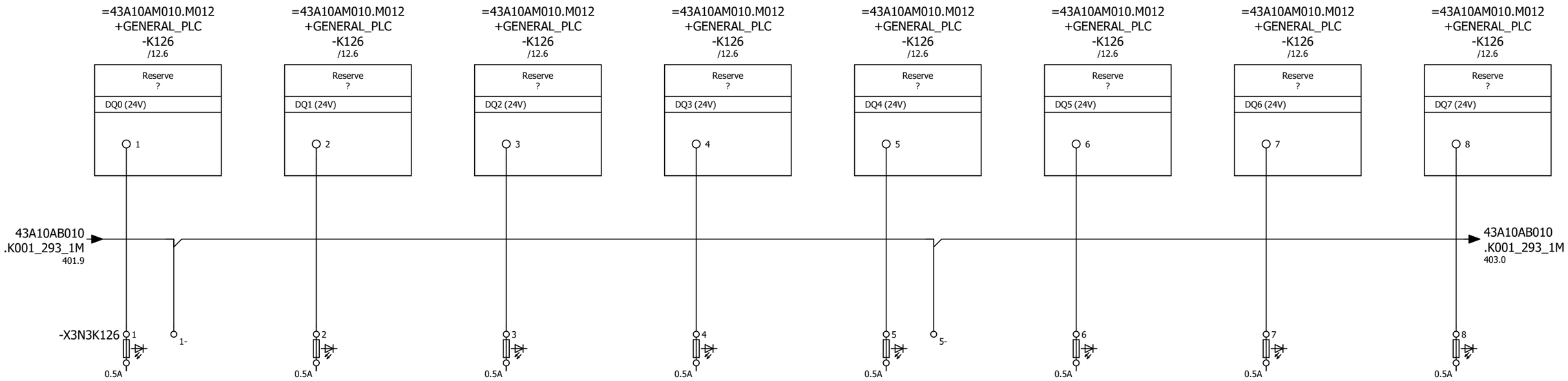
305 401

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

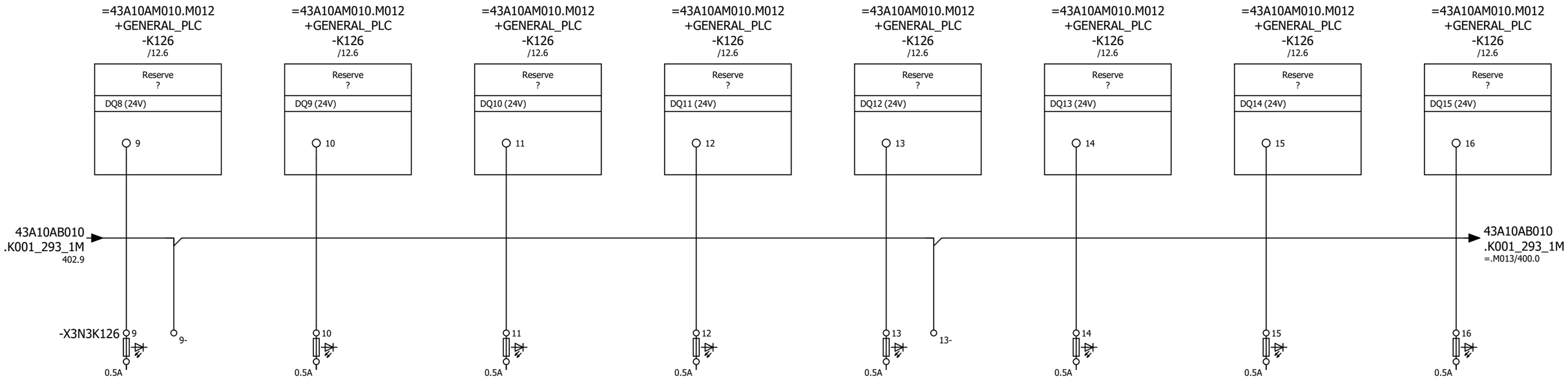
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 401
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

401 403

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 2 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 402
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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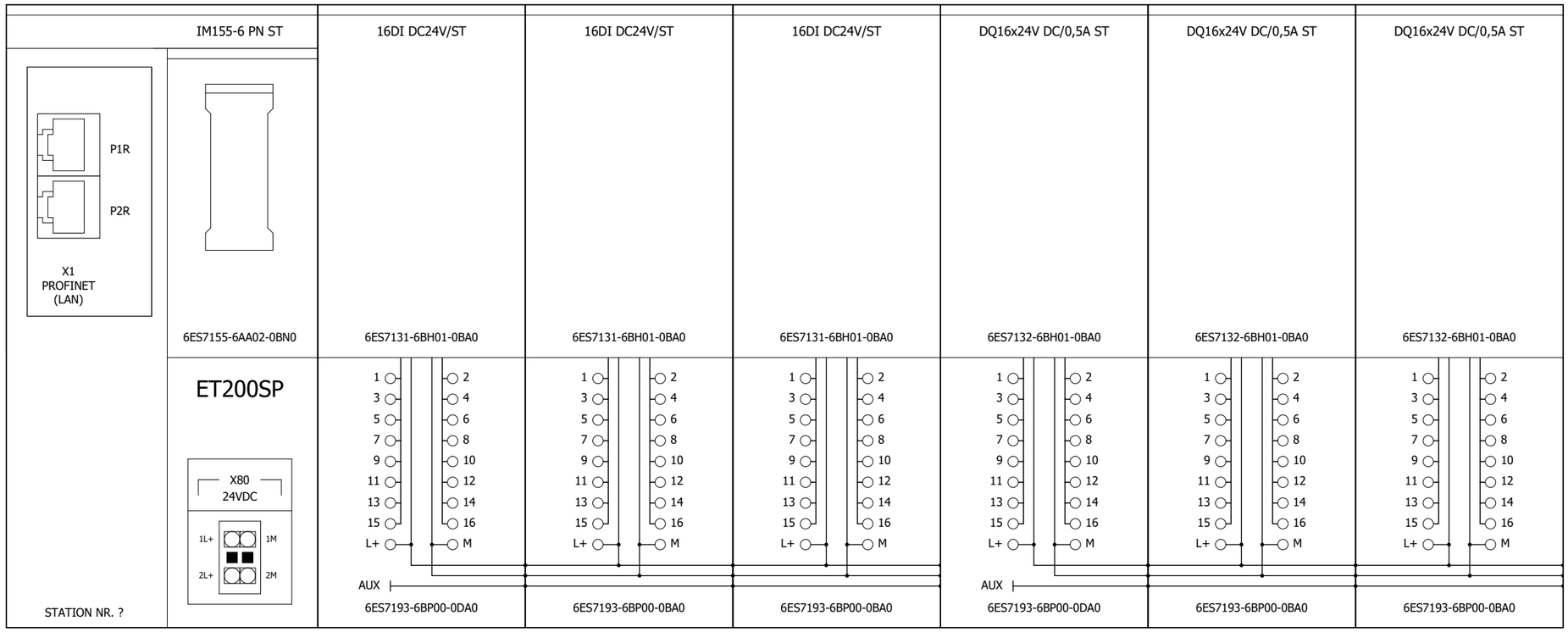
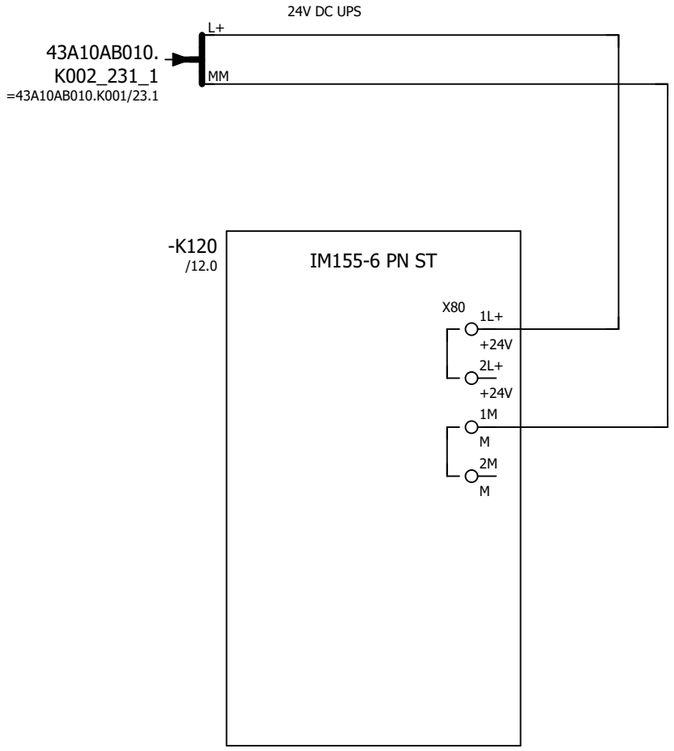
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 2 Node 3	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 403
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M012	From 403
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								

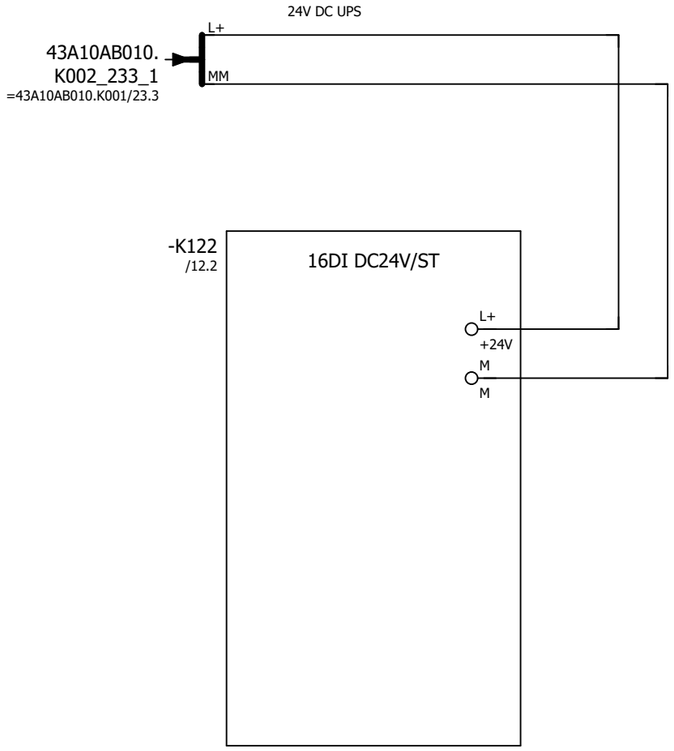


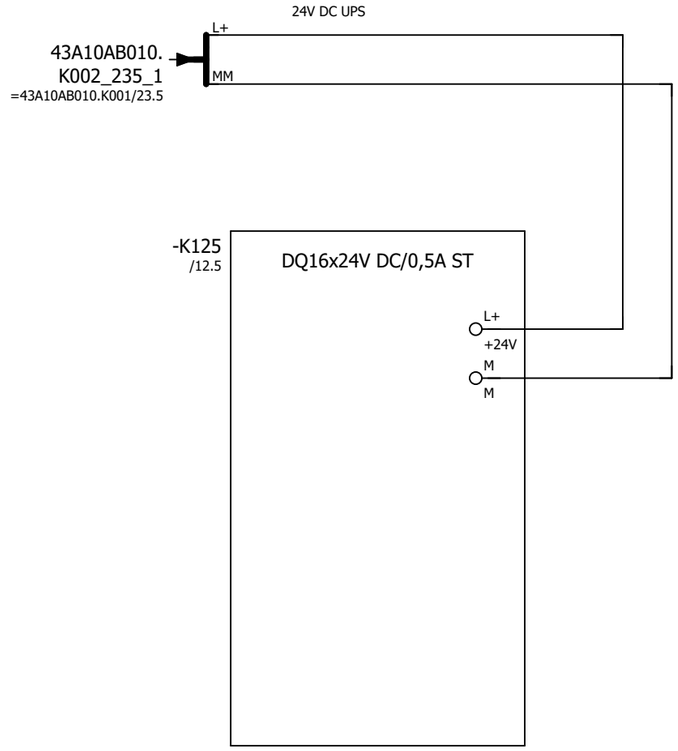
-K120	-K122	-K123	-K124	-K125	-K126	-K127
/50.1	/52.1	/302.0	/304.0	/52.5	/402.0	/404.0
	/300.0	/302.2	/304.2	/400.0	/402.2	/404.2
	/300.2	/302.3	/304.3	/400.2	/402.3	/404.3
	/300.3	/302.4	/304.4	/400.3	/402.4	/404.4
	/300.4	/302.5	/304.5	/400.4	/402.5	/404.5
	/300.5	/302.6	/304.6	/400.5	/402.6	/404.6
	/300.6	/302.7	/304.7	/400.6	/402.7	/404.7
	/300.7	/302.8	/304.8	/400.7	/402.8	/404.8
	/300.8	/303.0	/305.0	/400.8	/403.0	/405.0
	/301.0	/303.2	/305.2	/401.0	/403.2	/405.2
	/301.2	/303.3	/305.3	/401.2	/403.3	/405.3
	/301.3	/303.4	/305.4	/401.3	/403.4	/405.4
	/301.4	/303.5	/305.5	/401.4	/403.5	/405.5
	/301.5	/303.6	/305.6	/401.5	/403.6	/405.6
	/301.6	/303.7	/305.7	/401.6	/403.7	/405.7
	/301.7	/303.8	/305.8	/401.7	/403.8	/405.8
	/301.8	/71.0	/72.0	/401.8	/74.0	/75.0
	/70.0			/73.0		



Power supply
24V DC
IM155-6PN ST
Node-4

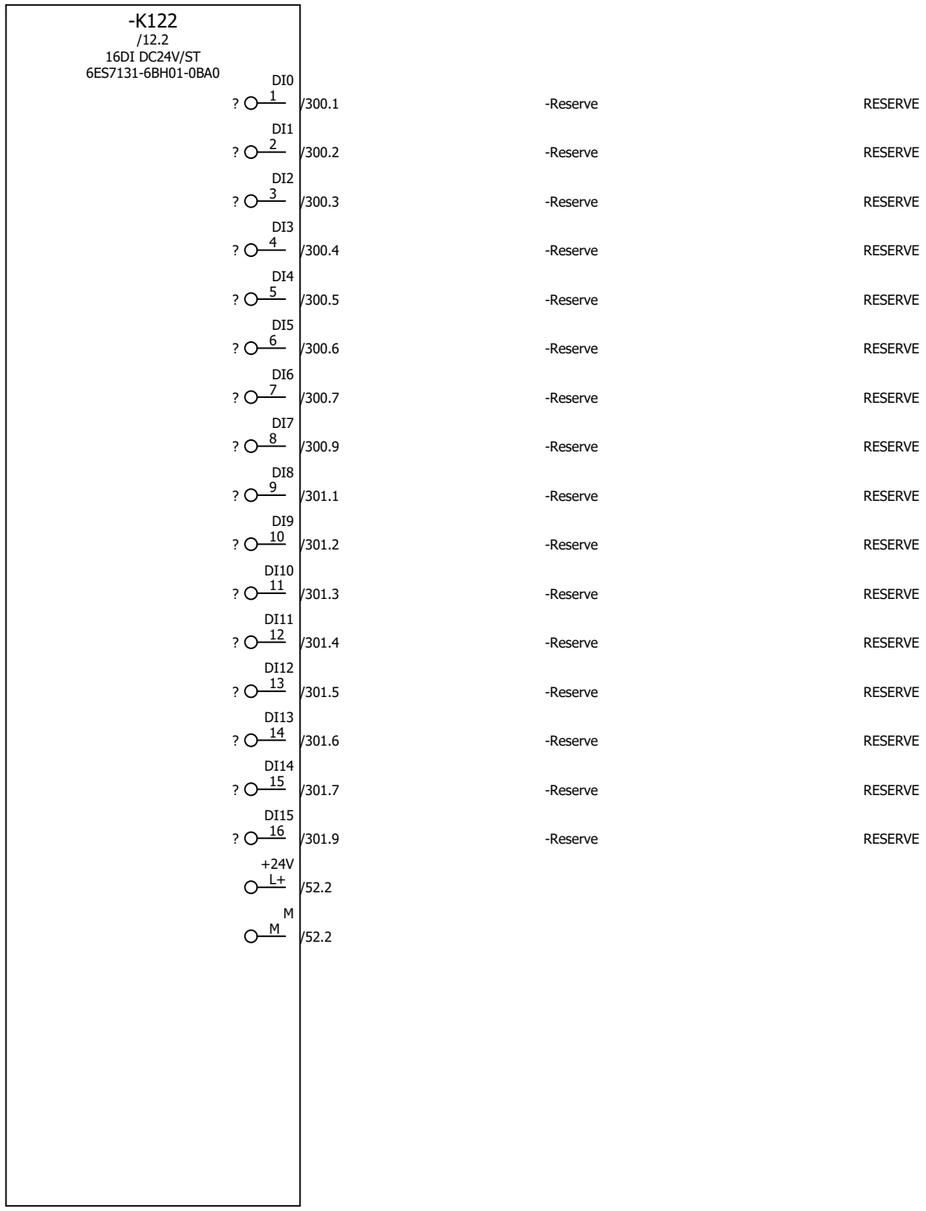
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								





Power supply
24V DC
DI Card 1
Node-4

Power supply
24V DC
DO Card 1
Node-4



Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025							

-K123
/12.3
16DI DC24V/ST
6ES7131-6BH01-0BA0

? DI0 1	/302.1	-Reserve	RESERVE
? DI1 2	/302.2	-Reserve	RESERVE
? DI2 3	/302.3	-Reserve	RESERVE
? DI3 4	/302.4	-Reserve	RESERVE
? DI4 5	/302.5	-Reserve	RESERVE
? DI5 6	/302.6	-Reserve	RESERVE
? DI6 7	/302.7	-Reserve	RESERVE
? DI7 8	/302.9	-Reserve	RESERVE
? DI8 9	/303.1	-Reserve	RESERVE
? DI9 10	/303.2	-Reserve	RESERVE
? DI10 11	/303.3	-Reserve	RESERVE
? DI11 12	/303.4	-Reserve	RESERVE
? DI12 13	/303.5	-Reserve	RESERVE
? DI13 14	/303.6	-Reserve	RESERVE
? DI14 15	/303.7	-Reserve	RESERVE
? DI15 16	/303.9	-Reserve	RESERVE
+24V L+			
M M			

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

0	1	2	3	4	5	6	7	8	9

-K124
/12.4
16DI DC24V/ST
6ES7131-6BH01-0BA0

?	DI0 1	/304.1	-Reserve	RESERVE
?	DI1 2	/304.2	-Reserve	RESERVE
?	DI2 3	/304.3	-Reserve	RESERVE
?	DI3 4	/304.4	-Reserve	RESERVE
?	DI4 5	/304.5	-Reserve	RESERVE
?	DI5 6	/304.6	-Reserve	RESERVE
?	DI6 7	/304.7	-Reserve	RESERVE
?	DI7 8	/304.9	-Reserve	RESERVE
?	DI8 9	/305.1	-Reserve	RESERVE
?	DI9 10	/305.2	-Reserve	RESERVE
?	DI10 11	/305.3	-Reserve	RESERVE
?	DI11 12	/305.4	-Reserve	RESERVE
?	DI12 13	/305.5	-Reserve	RESERVE
?	DI13 14	/305.6	-Reserve	RESERVE
?	DI14 15	/305.7	-Reserve	RESERVE
?	DI15 16	/305.9	-Reserve	RESERVE
	+24V L+			
	M M			

-K125
/12.5
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

DQ0 1	/400.1	-Reserve	RESERVE
DQ1 2	/400.2	-Reserve	RESERVE
DQ2 3	/400.3	-Reserve	RESERVE
DQ3 4	/400.4	-Reserve	RESERVE
DQ4 5	/400.5	-Reserve	RESERVE
DQ5 6	/400.6	-Reserve	RESERVE
DQ6 7	/400.7	-Reserve	RESERVE
DQ7 8	/400.9	-Reserve	RESERVE
DQ8 9	/401.1	-Reserve	RESERVE
DQ9 10	/401.2	-Reserve	RESERVE
DQ10 11	/401.3	-Reserve	RESERVE
DQ11 12	/401.4	-Reserve	RESERVE
DQ12 13	/401.5	-Reserve	RESERVE
DQ13 14	/401.6	-Reserve	RESERVE
DQ14 15	/401.7	-Reserve	RESERVE
DQ15 16	/401.9	-Reserve	RESERVE
+24V L+	/52.6		
M M	/52.6		

Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K126
/12.6
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

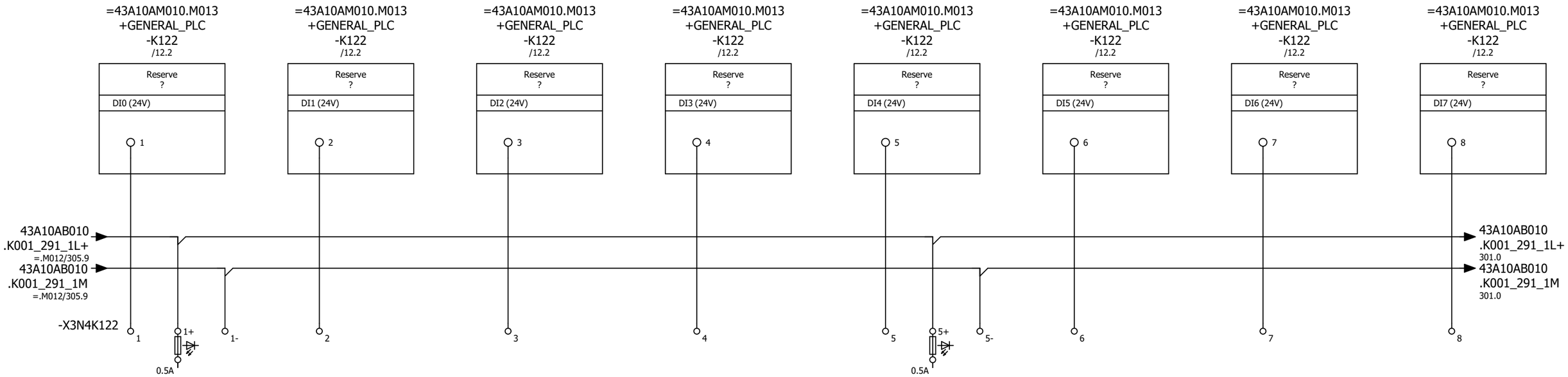
DQ0 1	/402.1	-Reserve	RESERVE
DQ1 2	/402.2	-Reserve	RESERVE
DQ2 3	/402.3	-Reserve	RESERVE
DQ3 4	/402.4	-Reserve	RESERVE
DQ4 5	/402.5	-Reserve	RESERVE
DQ5 6	/402.6	-Reserve	RESERVE
DQ6 7	/402.7	-Reserve	RESERVE
DQ7 8	/402.9	-Reserve	RESERVE
DQ8 9	/403.1	-Reserve	RESERVE
DQ9 10	/403.2	-Reserve	RESERVE
DQ10 11	/403.3	-Reserve	RESERVE
DQ11 12	/403.4	-Reserve	RESERVE
DQ12 13	/403.5	-Reserve	RESERVE
DQ13 14	/403.6	-Reserve	RESERVE
DQ14 15	/403.7	-Reserve	RESERVE
DQ15 16	/403.9	-Reserve	RESERVE
+24V L+			
M M			

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 74
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K127
/12.7
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

DQ0 1	/404.1	-Reserve	RESERVE
DQ1 2	/404.2	-Reserve	RESERVE
DQ2 3	/404.3	-Reserve	RESERVE
DQ3 4	/404.4	-Reserve	RESERVE
DQ4 5	/404.5	-Reserve	RESERVE
DQ5 6	/404.6	-Reserve	RESERVE
DQ6 7	/404.7	-Reserve	RESERVE
DQ7 8	/404.9	-Reserve	RESERVE
DQ8 9	/405.1	-Reserve	RESERVE
DQ9 10	/405.2	-Reserve	RESERVE
DQ10 11	/405.3	-Reserve	RESERVE
DQ11 12	/405.4	-Reserve	RESERVE
DQ12 13	/405.5	-Reserve	RESERVE
DQ13 14	/405.6	-Reserve	RESERVE
DQ14 15	/405.7	-Reserve	RESERVE
DQ15 16	/405.9	-Reserve	RESERVE
+24V L+			
M M			

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 75
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



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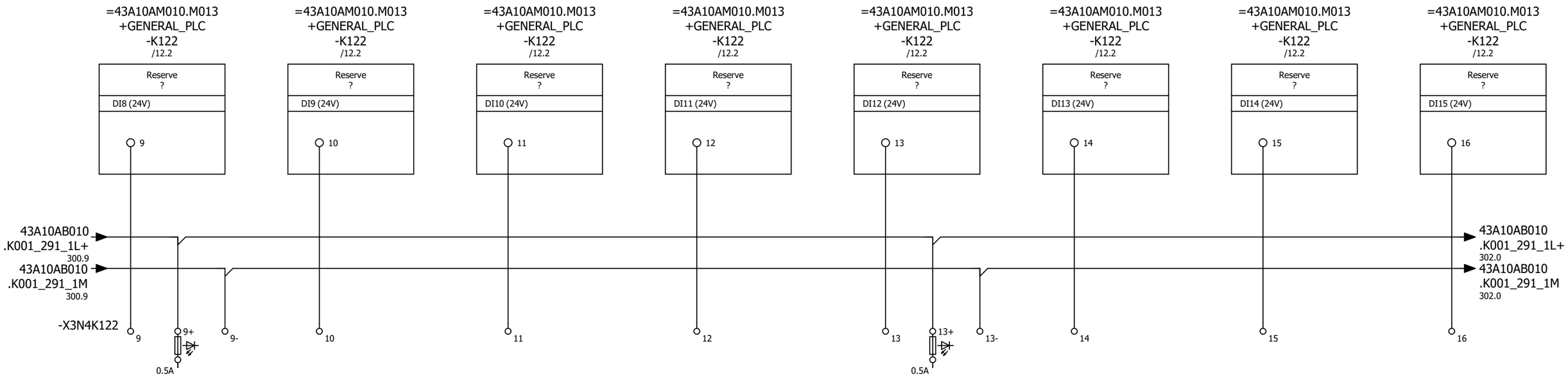
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 300
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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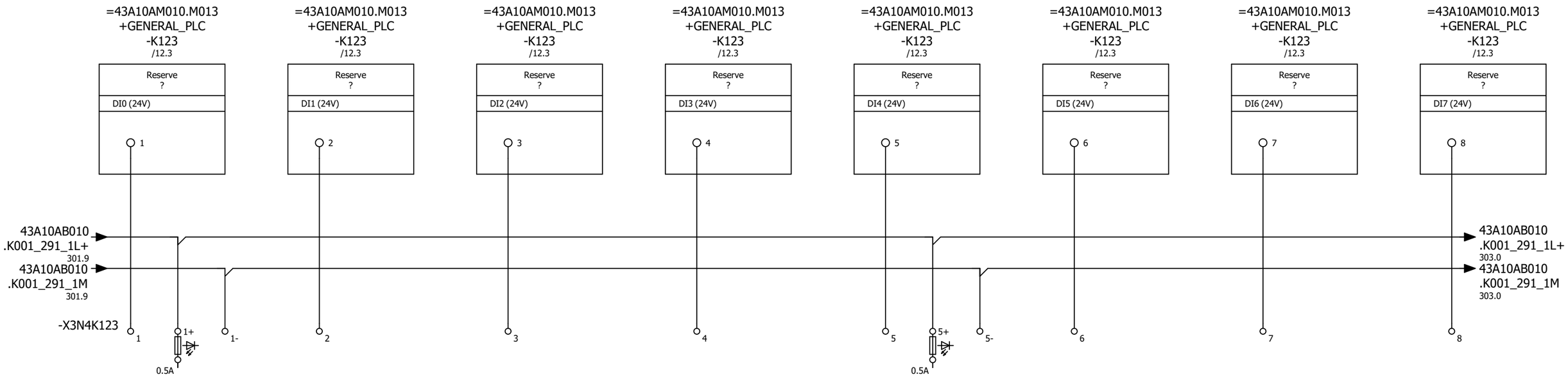
300 302

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 301
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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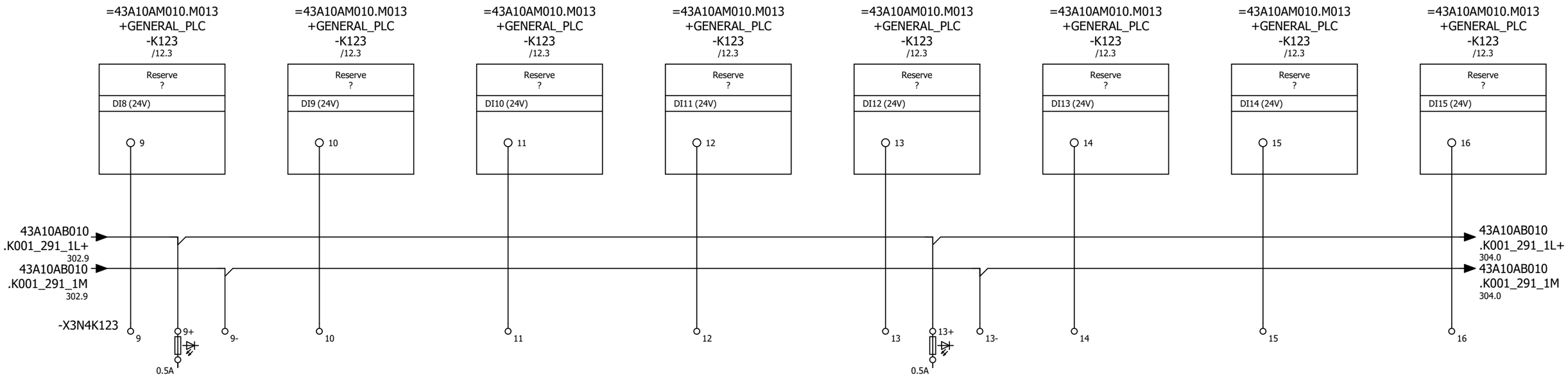
301 303

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 302
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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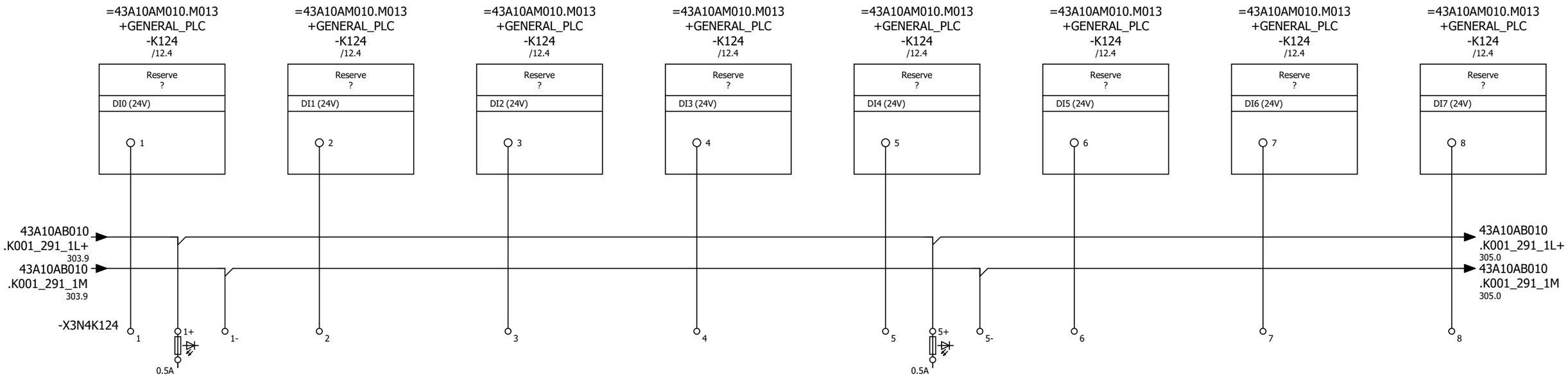
302 304

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 303
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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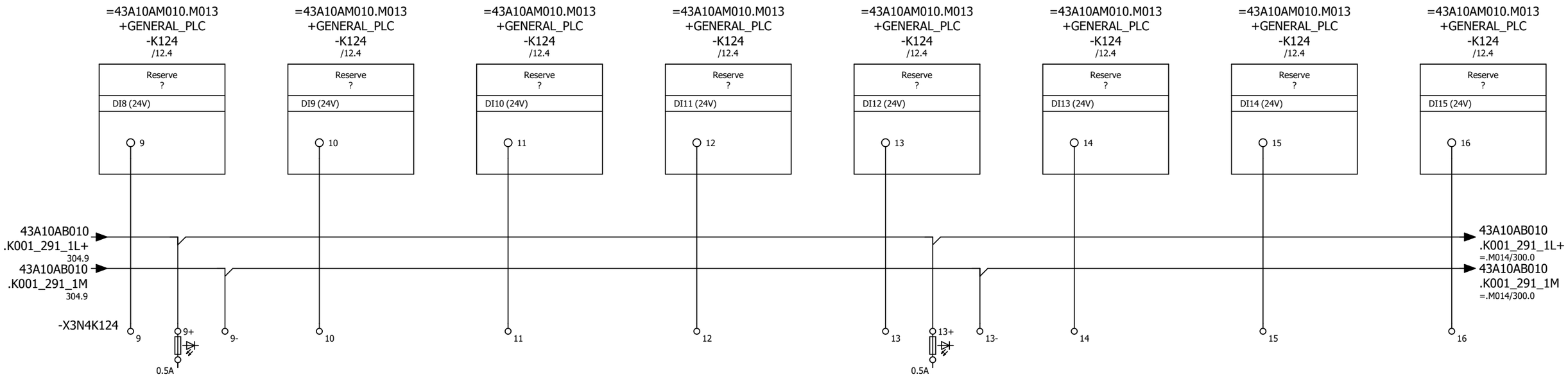
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 304
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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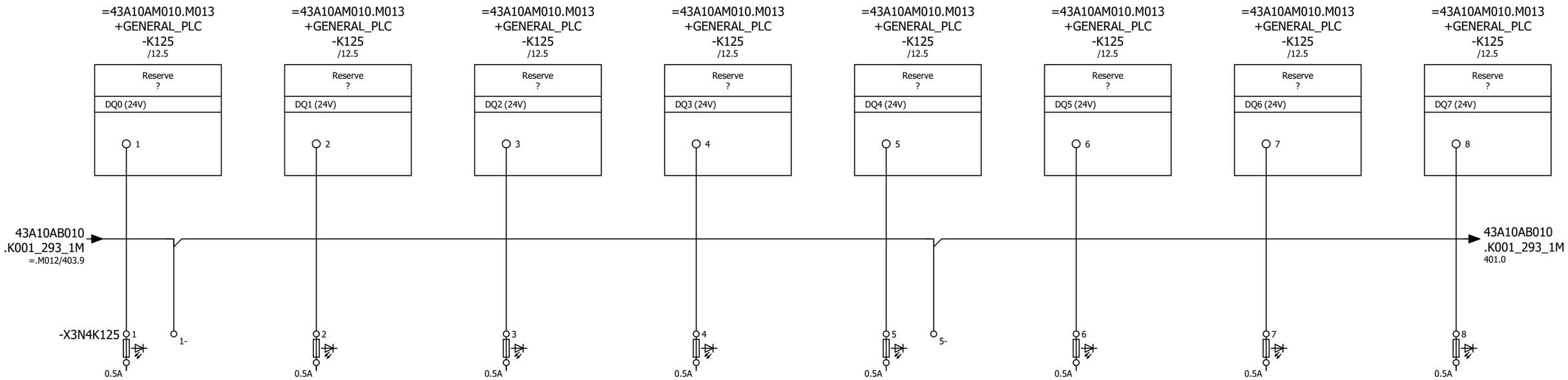
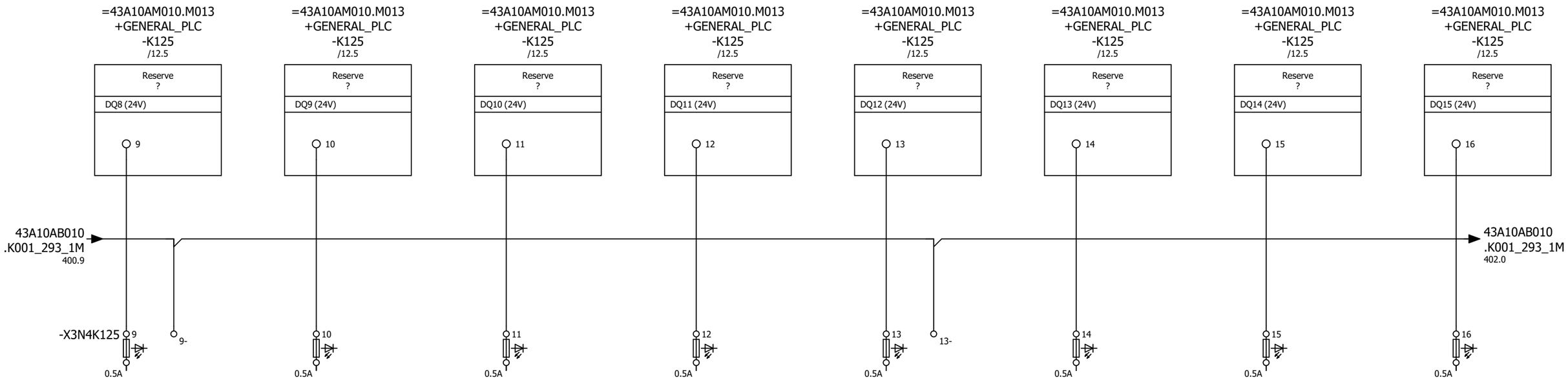
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 305
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

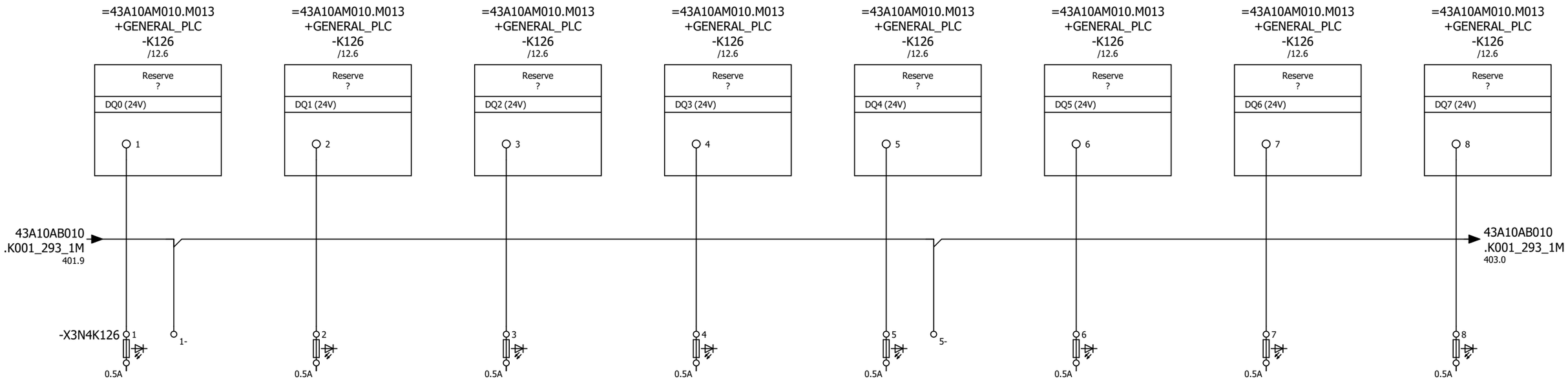
305 401

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

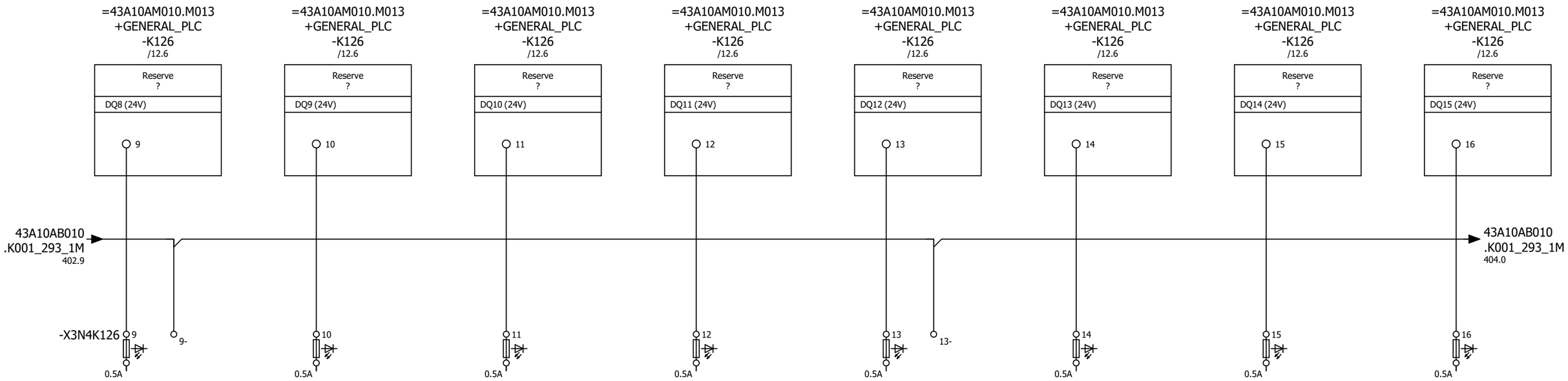
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 401
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

401 403

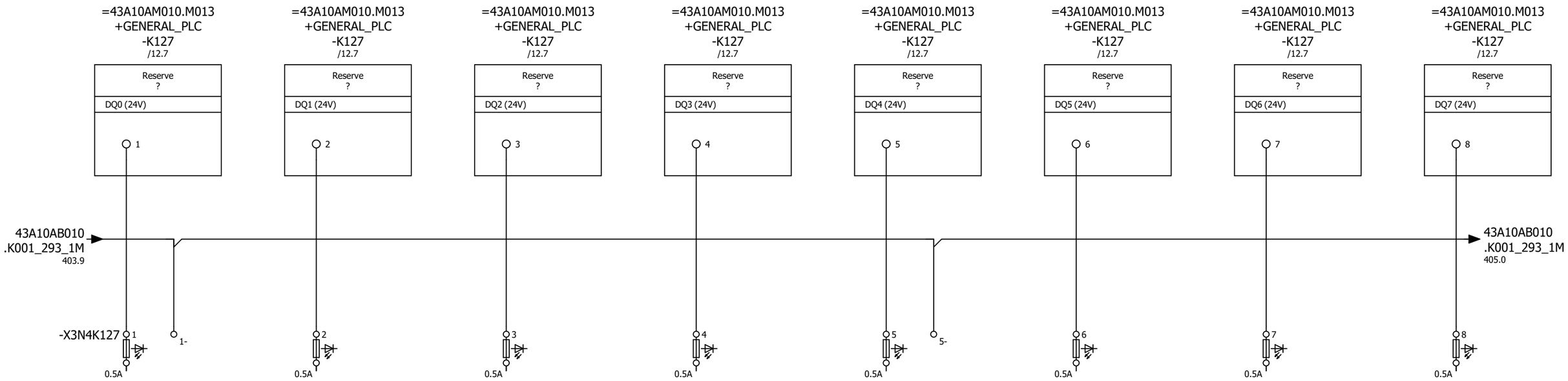
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 2 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 402
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

402 404

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 2 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 403
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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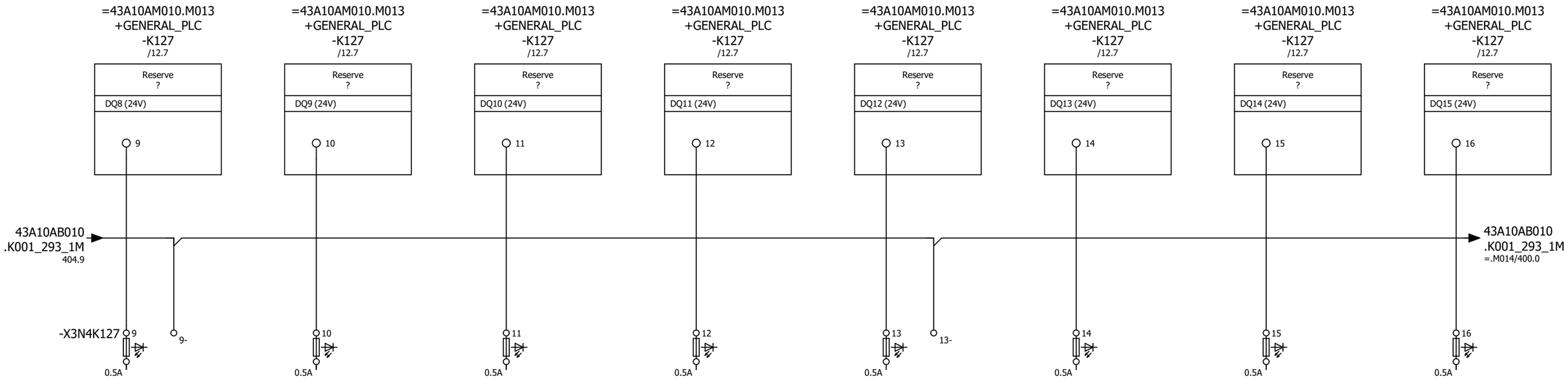
403 405

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 3 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 404
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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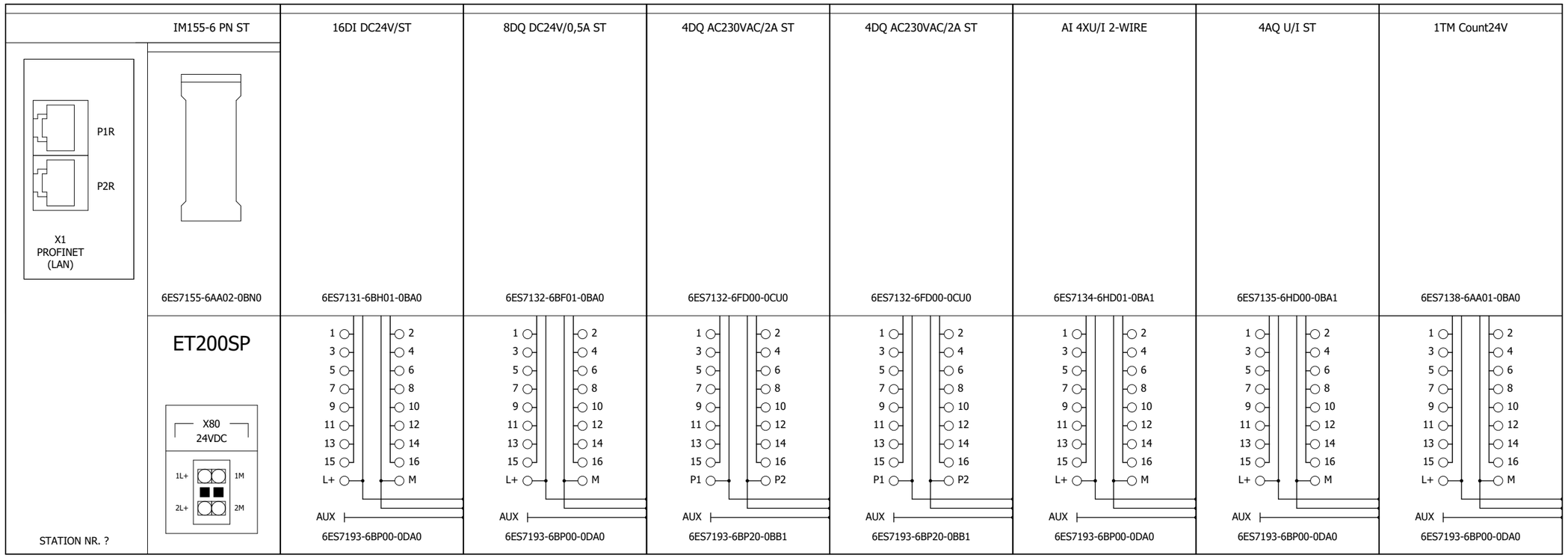
Revision	V1 - 01	Approved		ACS Amosys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 3 Node 4	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 405
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M013	From 405
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



=.M013/405

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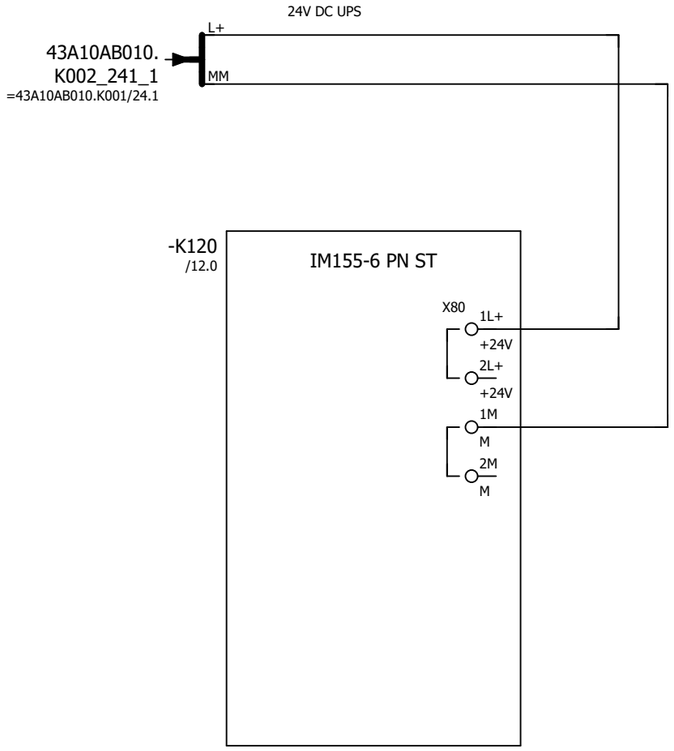
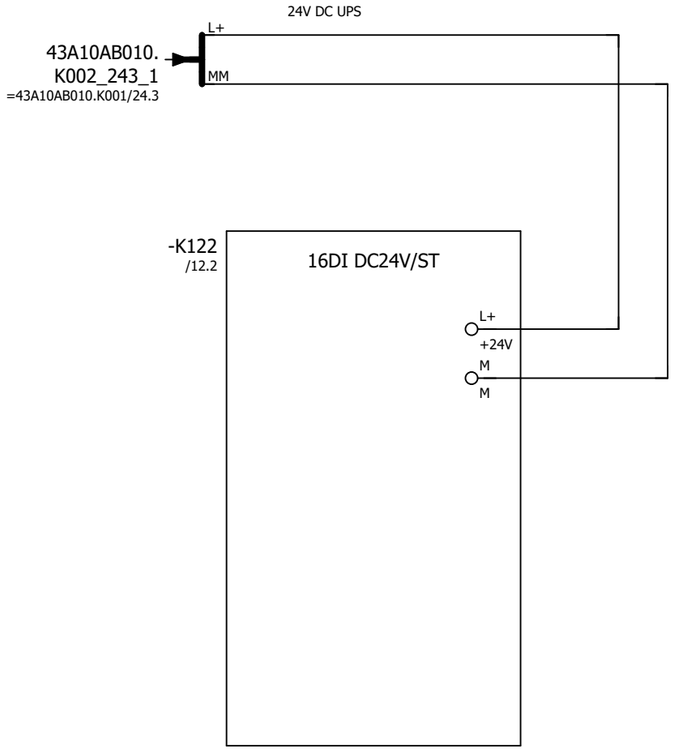
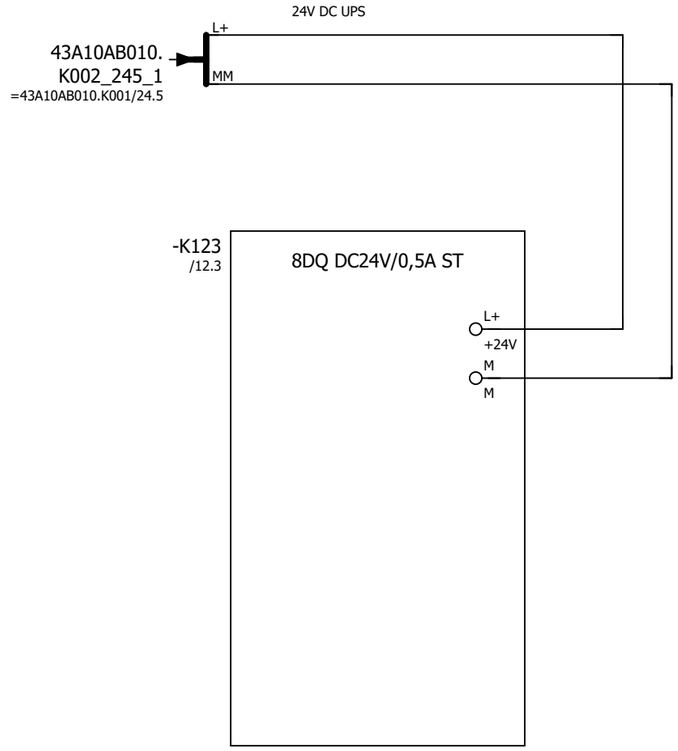
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Rack layout ET200SP	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 12
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Power supply
24V DC
IM155-6PN ST
Node-5

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

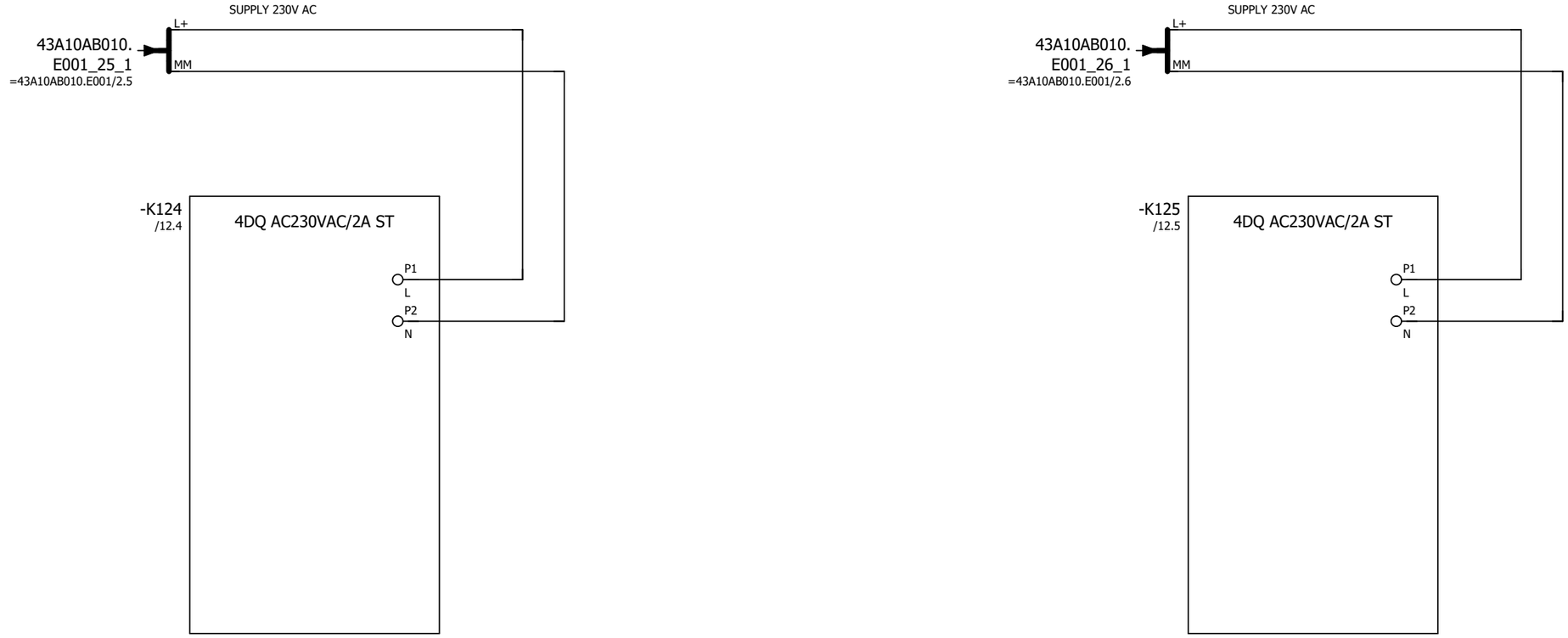




Power supply
24V DC
DI Card 1
Node-5

Power supply
24V DC
DO Card 1
Node-5

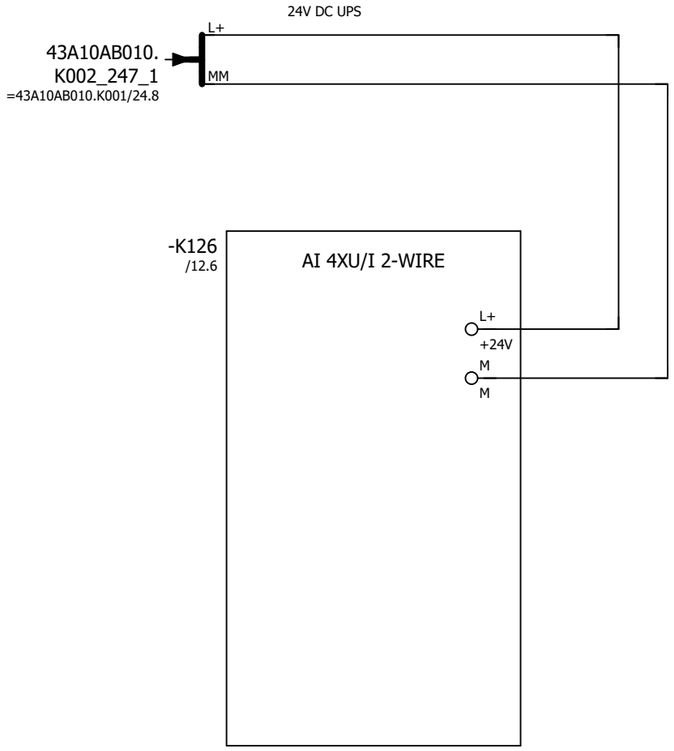
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 52
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

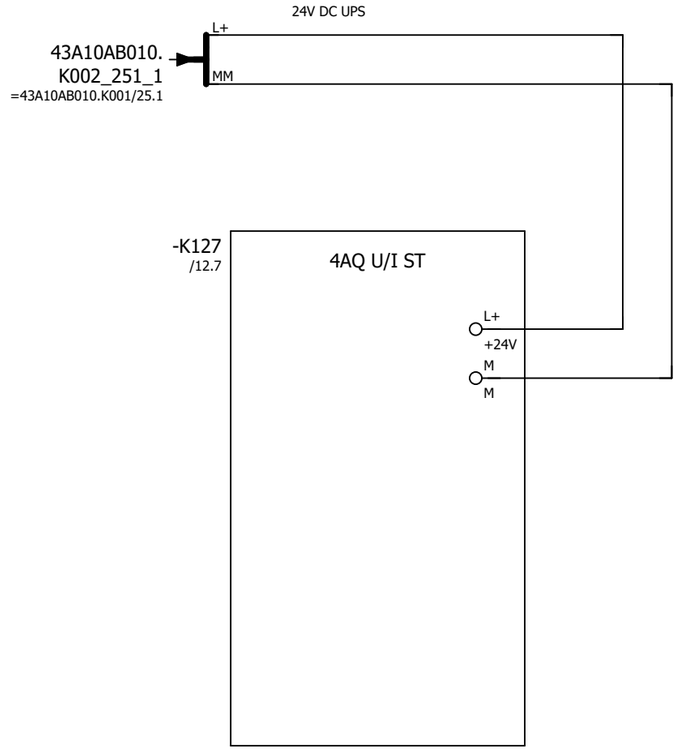


Power supply
24V DC
4ch DO Card 2
Node-5

Power supply
24V DC
4ch DO Card 3
Node-5

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 53
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

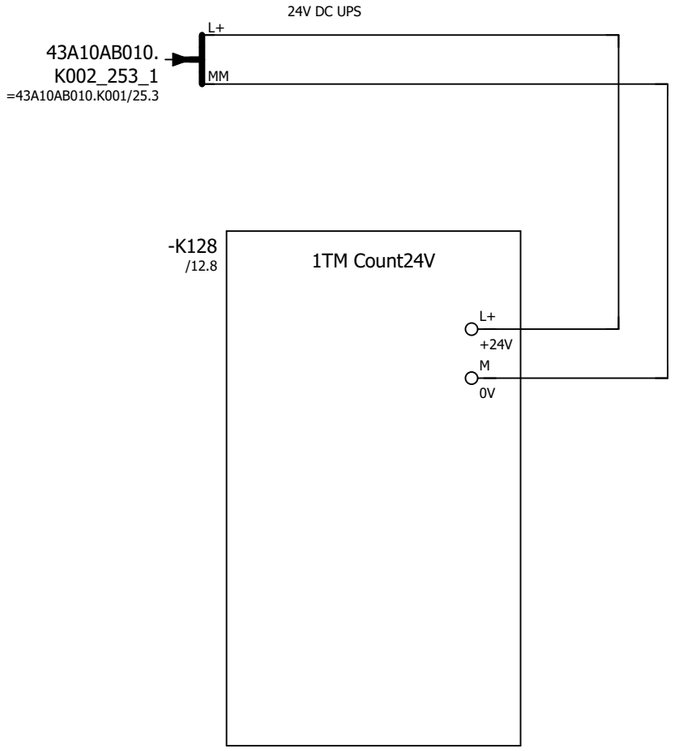




Power supply
24V DC
AI Card 1
Node-5

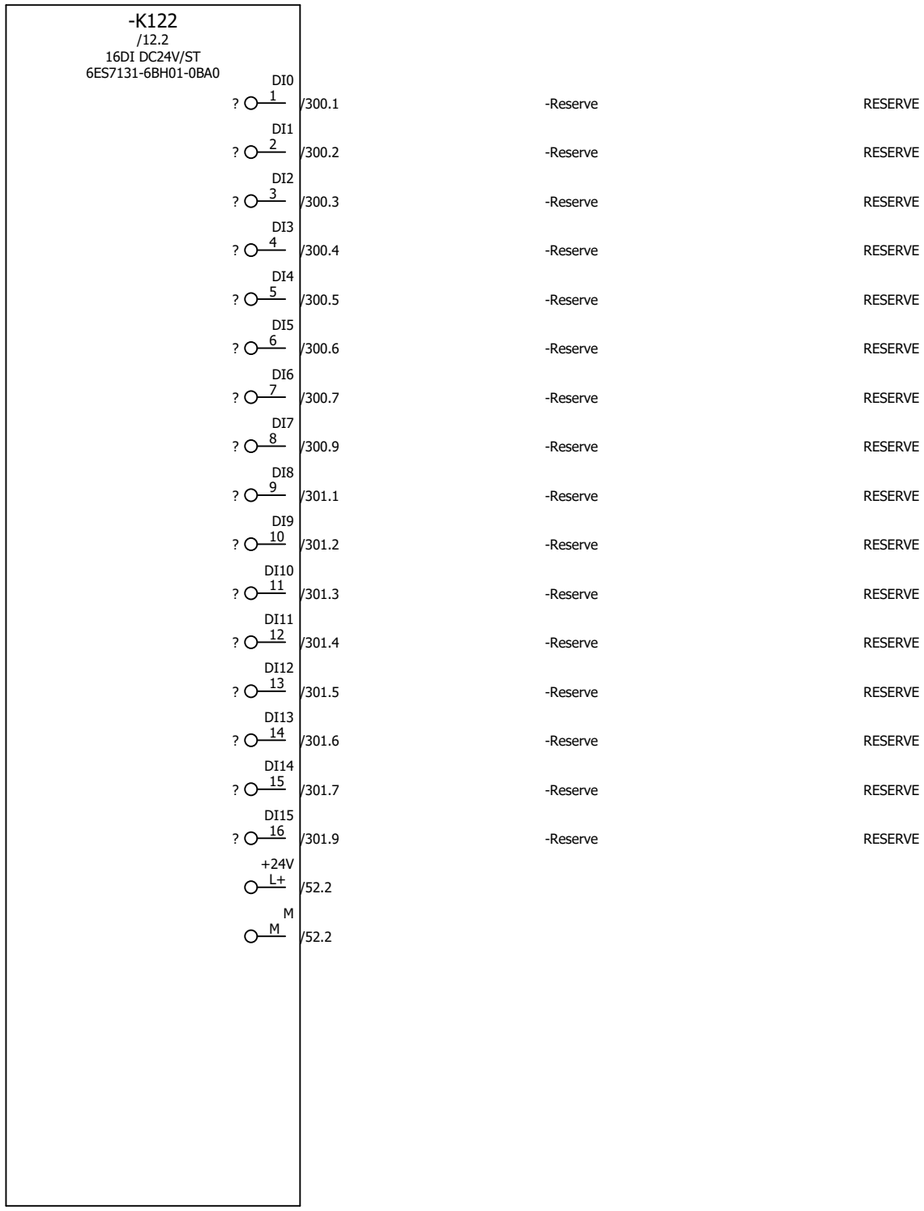
Power supply
24V DC
AO Card 1
Node-5

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 54
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

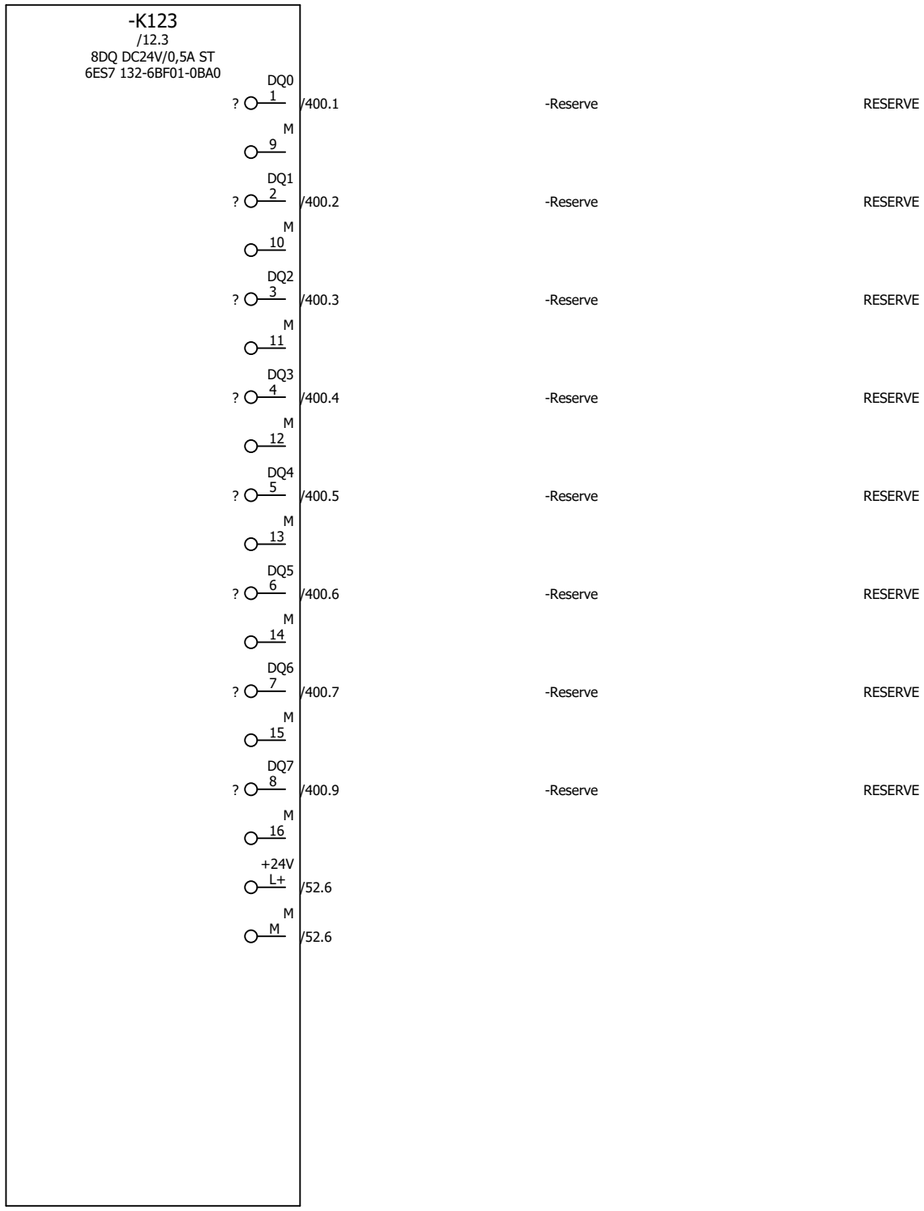


Power supply
24V DC
TM Count Card 1
Node-5

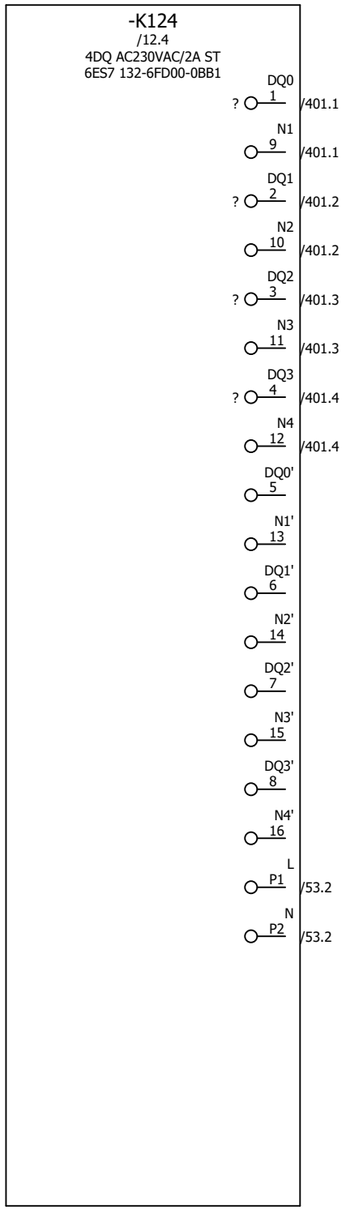
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 55
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



-Reserve RESERVE

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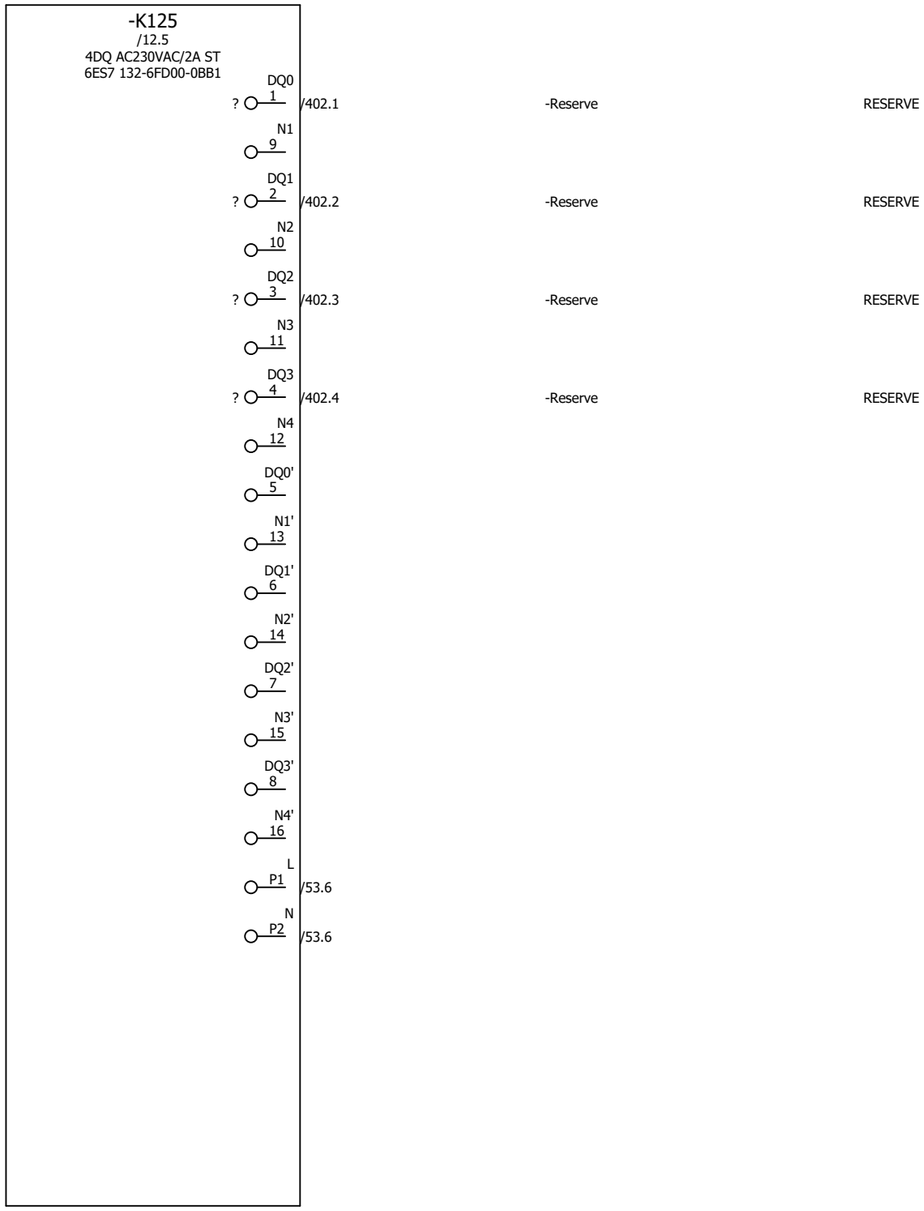
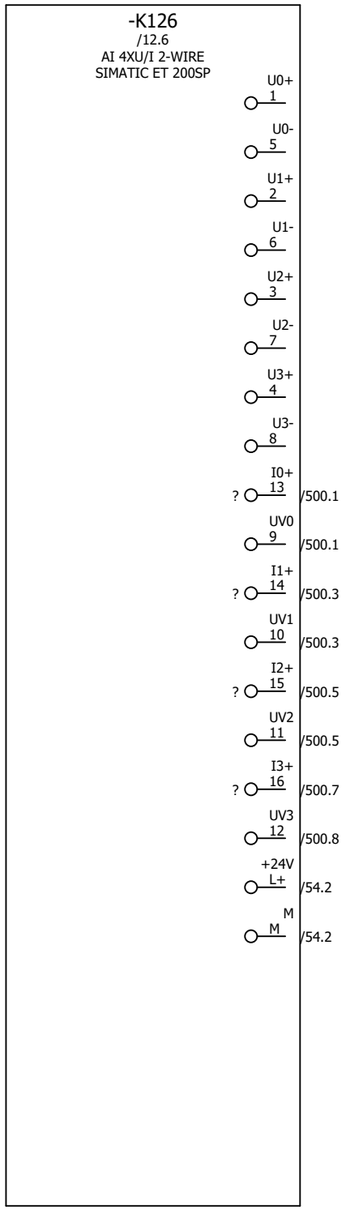
Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 72
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA	ET200SP DO Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025							



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



-Reserve RESERVE

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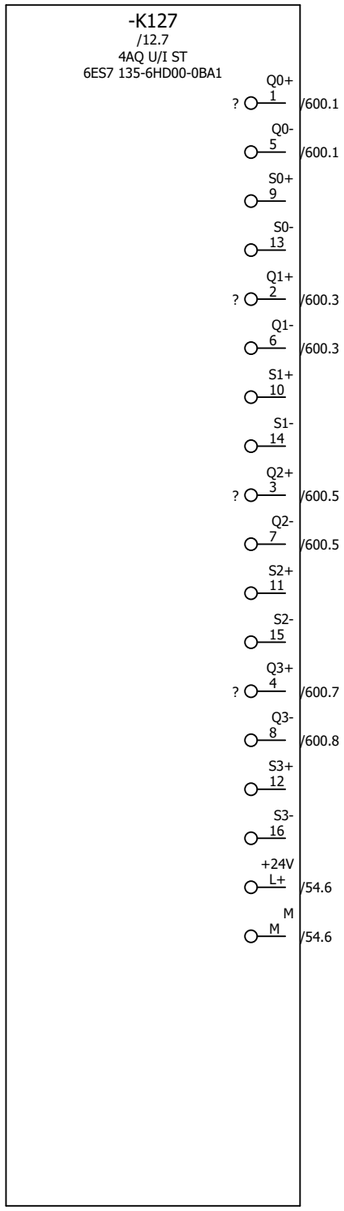
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 74
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



-Reserve RESERVE

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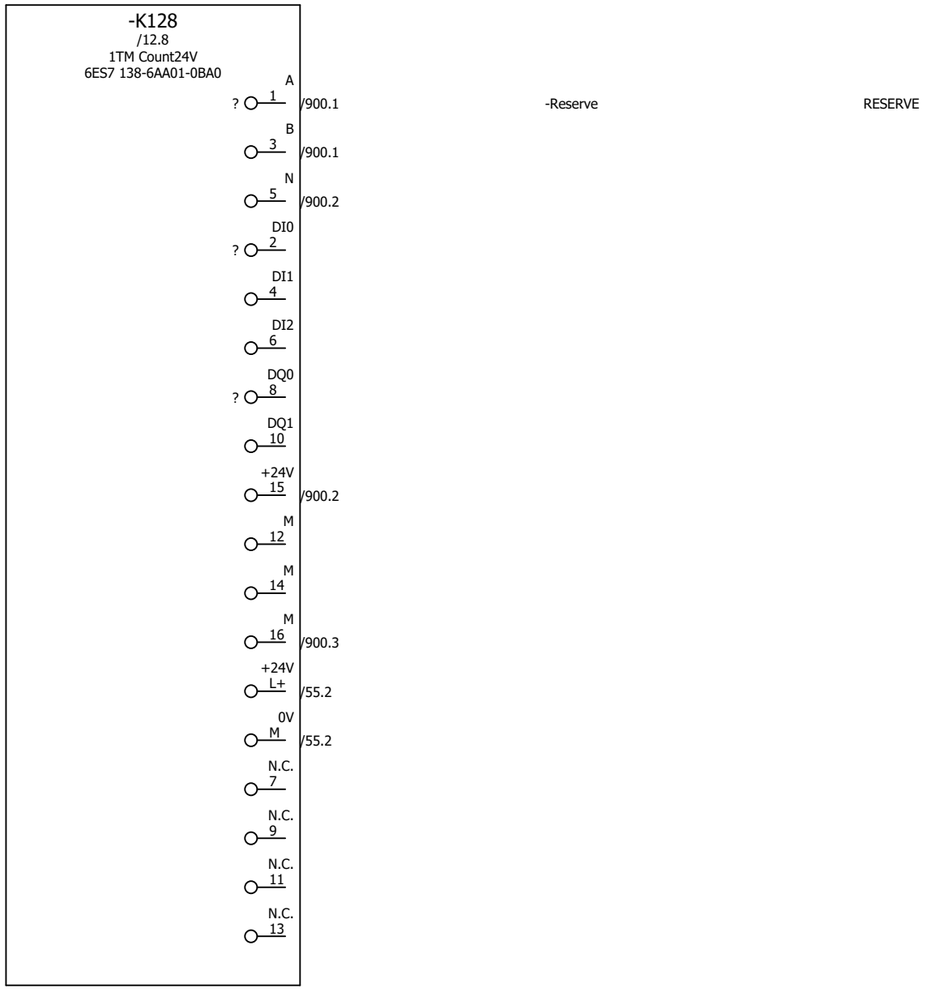
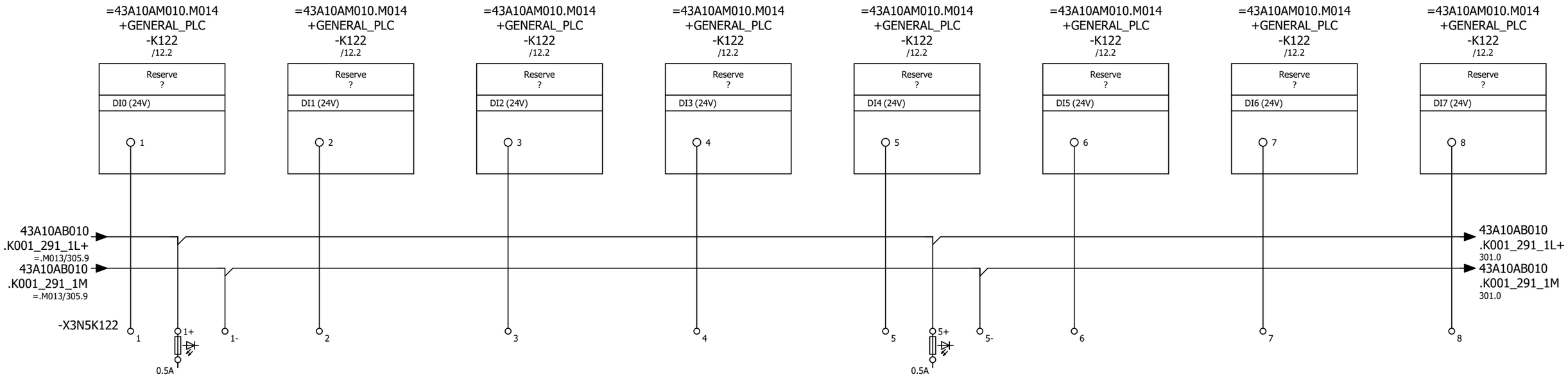
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 75
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP AO Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 76
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP TM Count Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



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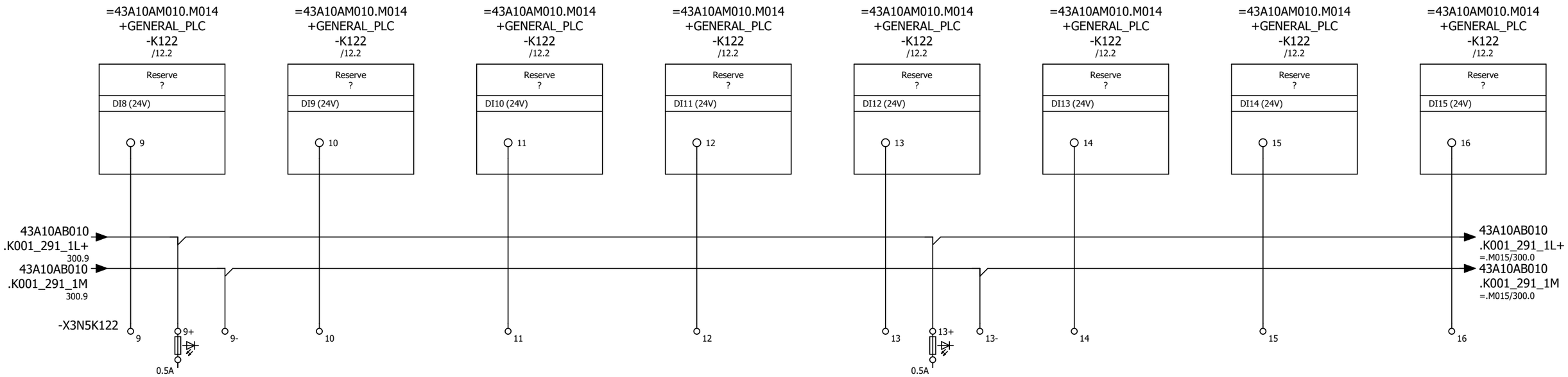
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 300
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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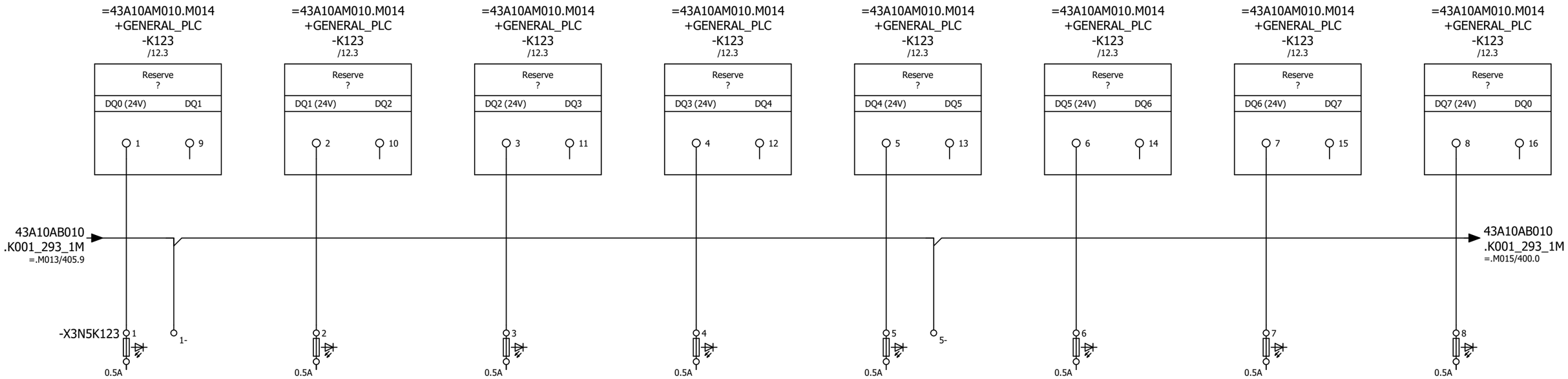
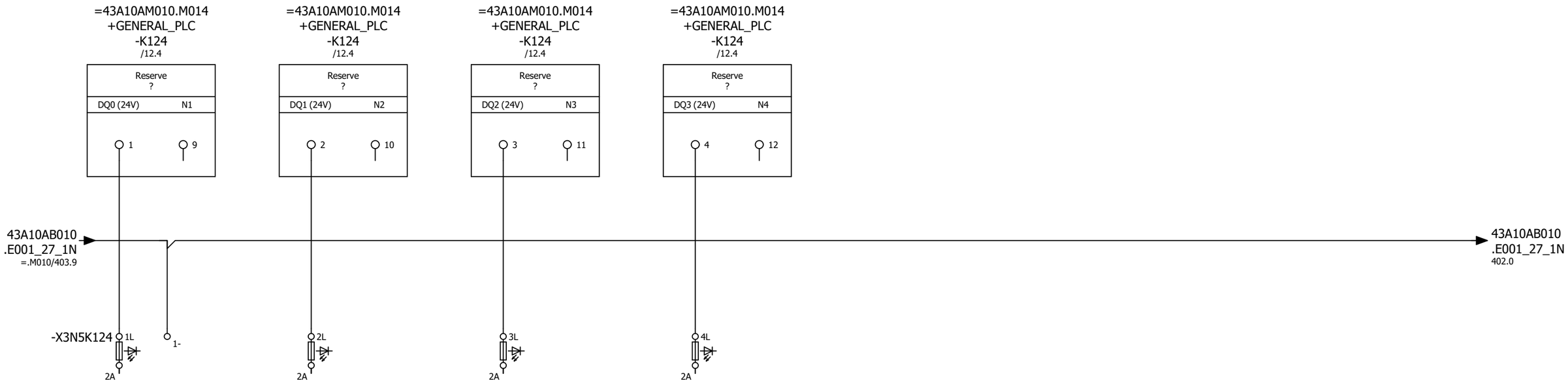
300 400

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 301
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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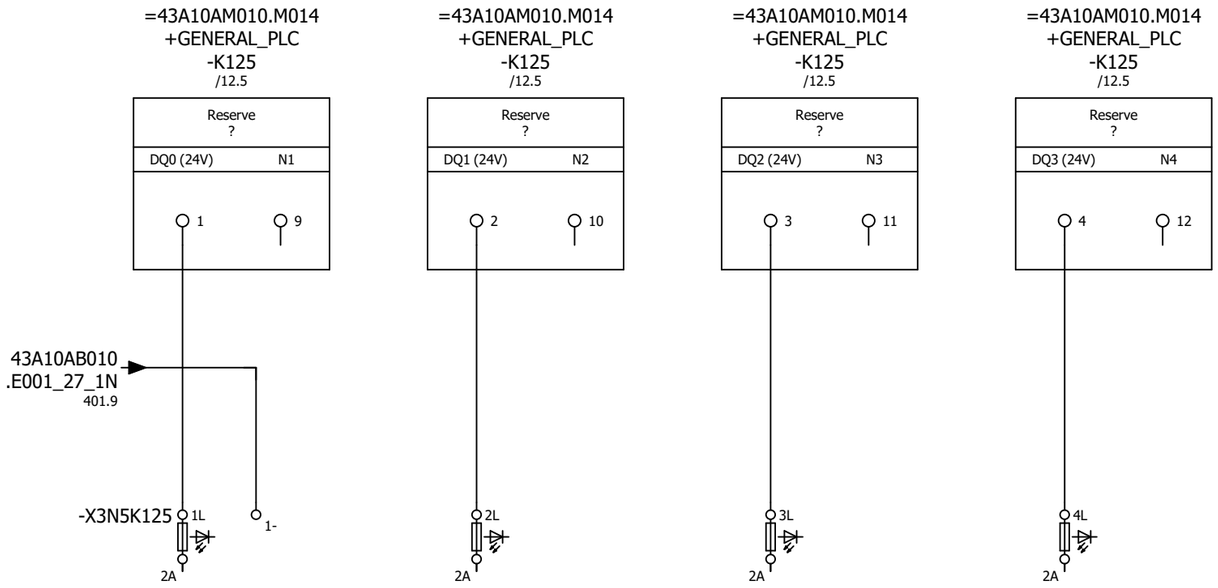
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 2 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 401
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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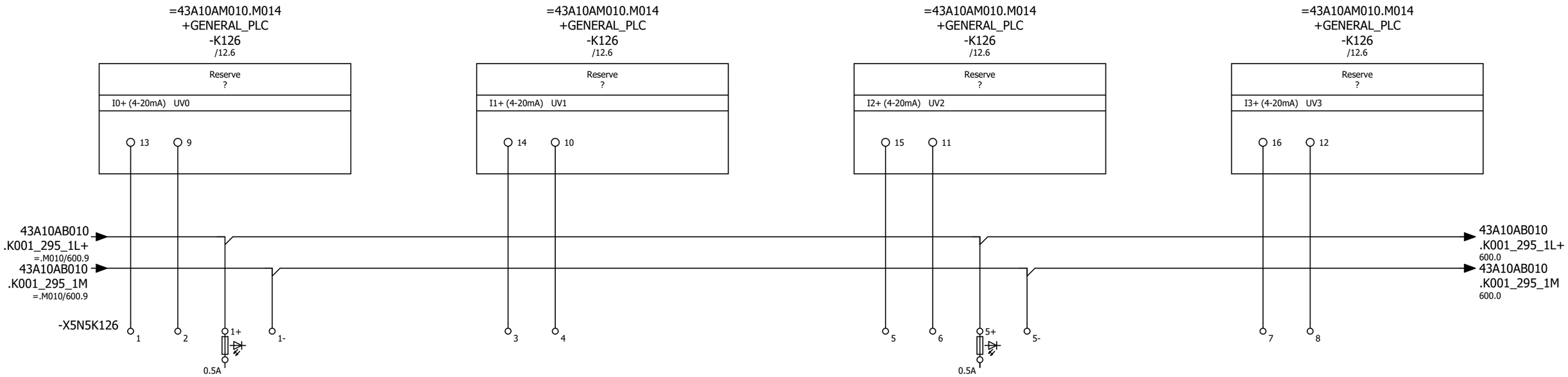
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 3 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 402
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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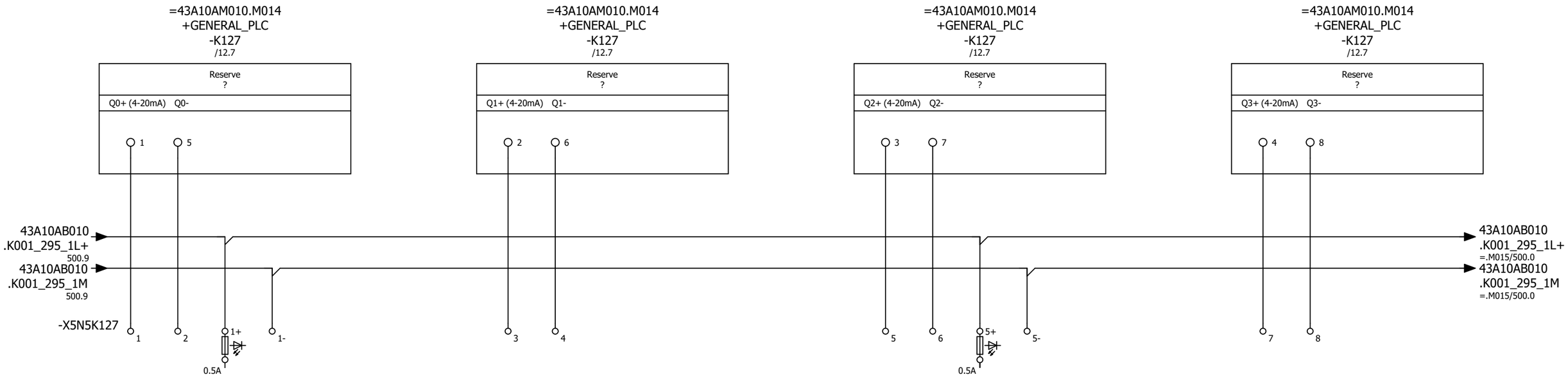
402 600

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 1 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 500
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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500 900

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog outputs ET200SP AO Card 1 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 600
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								

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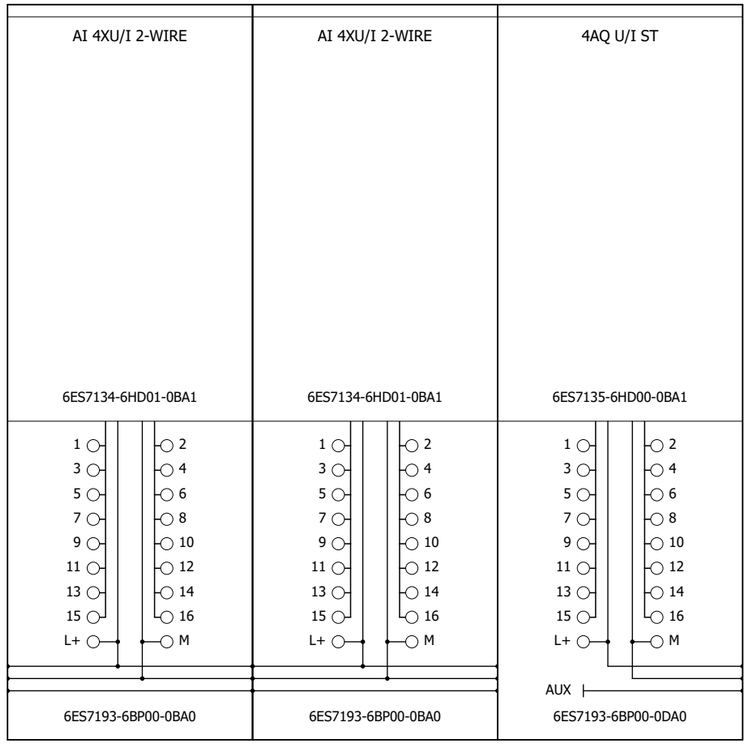
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	CN ET200SP TM Count Card 1 Node 5	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 900
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA GENERAL PLC (PLC Room)		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M014	From 900
Edited by	CHRU02	Designed					Client no.:	+GENERAL_PLC	
Date	29.08.2025								

	IM155-6 PN ST	16DI DC24V/ST	16DI DC24V/ST	16DI DC24V/ST	DQ16x24V DC/0,5A ST	AI 4XU/I 2-WIRE	AI 4XU/I 2-WIRE	AI 4XU/I 2-WIRE
P1R P2R X1 PROFINET (LAN)								
	6ES7155-6AA02-0BN0	6ES7131-6BH01-0BA0	6ES7131-6BH01-0BA0	6ES7131-6BH01-0BA0	6ES7132-6BH01-0BA0	6ES7134-6HD01-0BA1	6ES7134-6HD01-0BA1	6ES7134-6HD01-0BA1
	ET200SP X80 24VDC 1L+ 1M 2L+ 2M	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M AUX	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M AUX	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M AUX	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 L+ M
STATION NR. ?		6ES7193-6BP00-0DA0	6ES7193-6BP00-0BA0	6ES7193-6BP00-0BA0	6ES7193-6BP00-0DA0	6ES7193-6BP00-0DA0	6ES7193-6BP00-0BA0	6ES7193-6BP00-0BA0
-K120 /50.1	-K122 /52.1 /300.0 /300.2 /300.3 /300.4 /300.5 /300.6 /300.7 /300.8 /301.0 /301.2 /301.3 /301.4 /301.5 /301.6 /301.7 /301.8 /70.0	-K123 /302.0 /302.2 /302.3 /302.4 /302.5 /302.6 /302.7 /302.8 /303.0 /303.2 /303.3 /303.4 /303.5 /303.6 /303.7 /303.8 /71.0	-K124 /304.0 /304.2 /304.3 /304.4 /304.5 /304.6 /304.7 /304.8 /305.0 /305.2 /305.3 /305.4 /305.5 /305.6 /305.7 /305.8 /72.0	-K125 /52.5 /400.0 /400.2 /400.3 /400.4 /400.5 /400.6 /400.7 /400.8 /401.0 /401.2 /401.3 /401.4 /401.5 /401.6 /401.7 /401.8 /73.0	-K126 /53.1 /500.0 /500.3 /500.5 /500.7 /74.0	-K127 /501.0 /501.3 /501.5 /501.7 /75.0	-K128 /502.0 /502.3 /502.5 /502.7 /76.0

=.M014/900

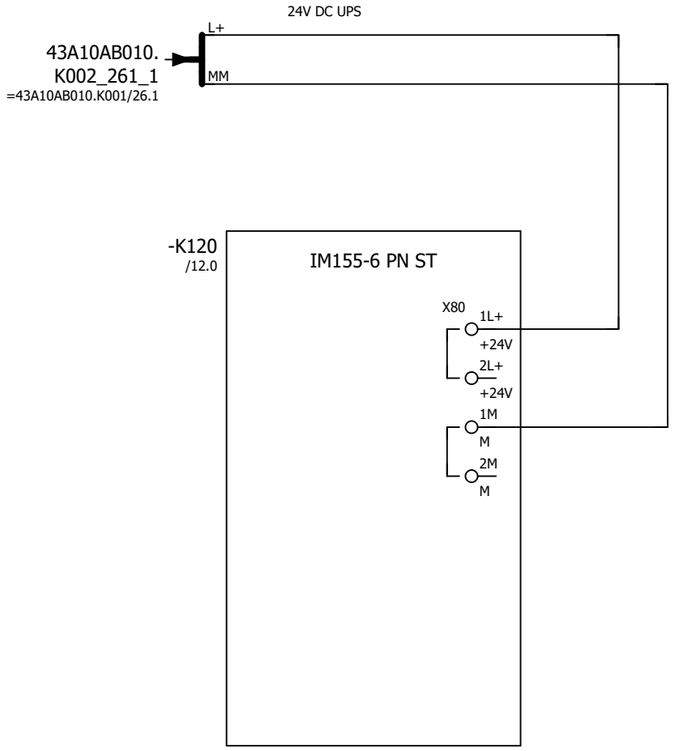
13

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION TATA STEEL LIMITED, GAMHARIA GENERAL PLC (PLC Room)	Rack layout ET200SP	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 12
Department	E&I	Checked					CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed					Client no.:	+GENERAL_PLC	
Date	28.08.2025								



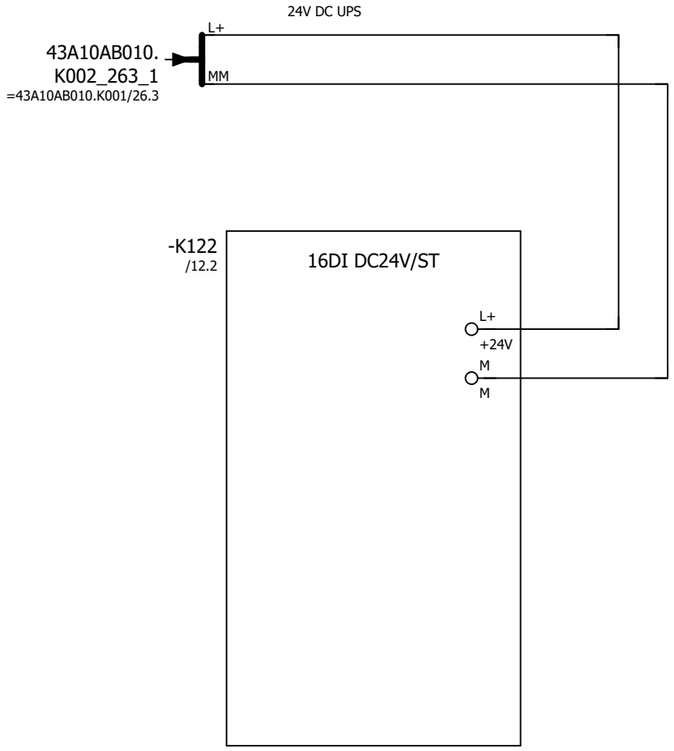
-K130	-K131	-K132
/503.0	/504.0	/53.5
/503.3	/504.3	/600.0
/503.5	/504.5	/600.3
/503.7	/504.7	/600.5
/77.0	/78.0	/600.7
		/79.0

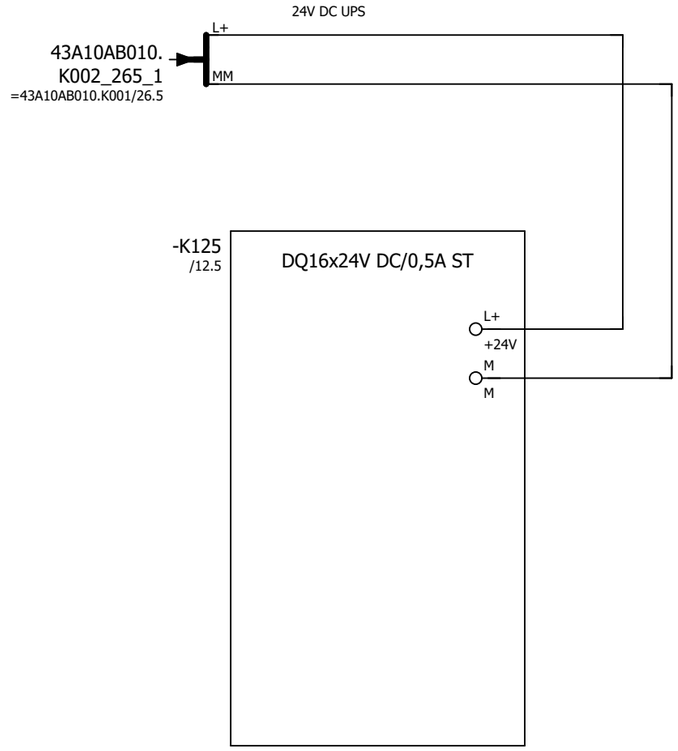
Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Rack layout ET200SP	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 13
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Power supply
24V DC
IM155-6PN ST
Node-6

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

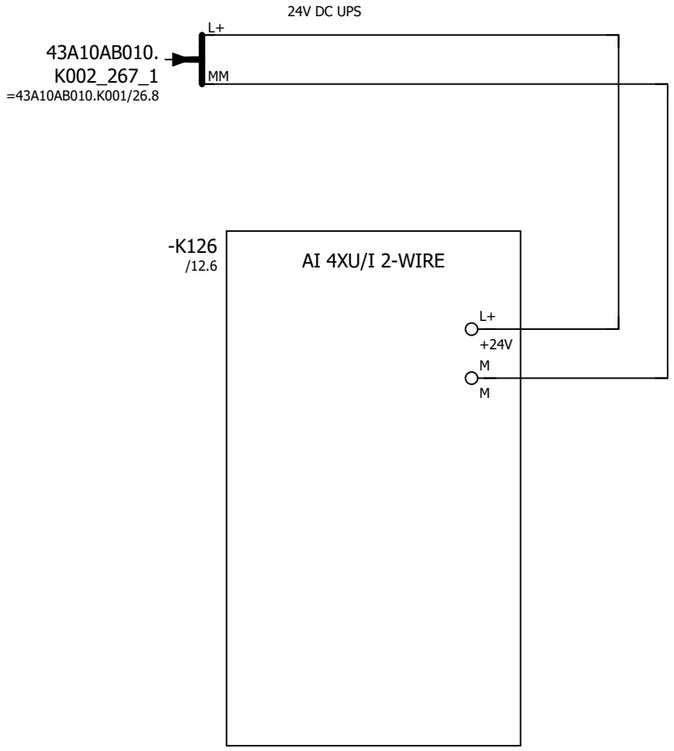


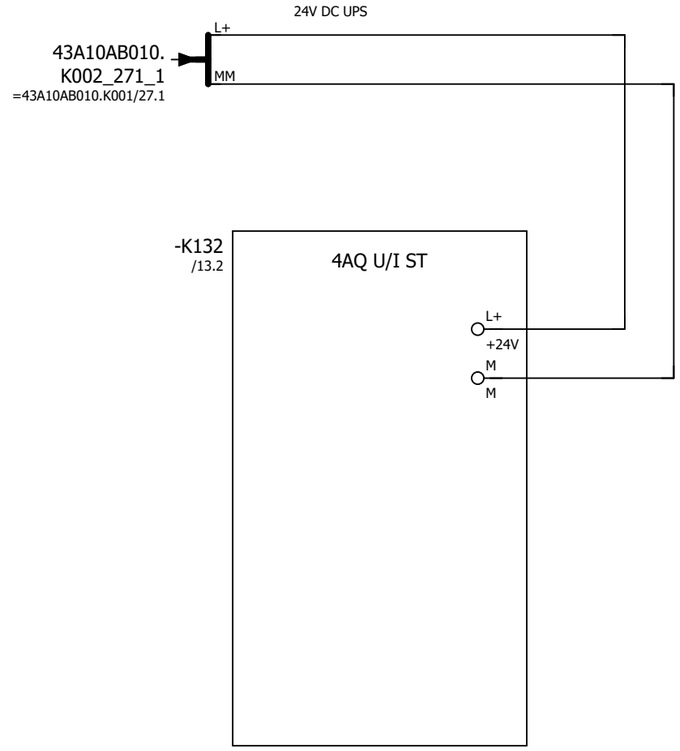


Power supply
24V DC
DI Card 1
Node-6

Power supply
24V DC
DO Card 1
Node-6

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 52
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								





Power supply
24V DC
AI Card 1
Node-6

Power supply
24V DC
AO Card 1
Node-6

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 53
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K122
/12.2
16DI DC24V/ST
6ES7131-6BH01-0BA0

?	DI0 1	/300.1	-Reserve	RESERVE
?	DI1 2	/300.2	-Reserve	RESERVE
?	DI2 3	/300.3	-Reserve	RESERVE
?	DI3 4	/300.4	-Reserve	RESERVE
?	DI4 5	/300.5	-Reserve	RESERVE
?	DI5 6	/300.6	-Reserve	RESERVE
?	DI6 7	/300.7	-Reserve	RESERVE
?	DI7 8	/300.9	-Reserve	RESERVE
?	DI8 9	/301.1	-Reserve	RESERVE
?	DI9 10	/301.2	-Reserve	RESERVE
?	DI10 11	/301.3	-Reserve	RESERVE
?	DI11 12	/301.4	-Reserve	RESERVE
?	DI12 13	/301.5	-Reserve	RESERVE
?	DI13 14	/301.6	-Reserve	RESERVE
?	DI14 15	/301.7	-Reserve	RESERVE
?	DI15 16	/301.9	-Reserve	RESERVE
	+24V L+	/52.2		
	M M	/52.2		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K123
/12.3
16DI DC24V/ST
6ES7131-6BH01-0BA0

? DI0 1	/302.1	-Reserve	RESERVE
? DI1 2	/302.2	-Reserve	RESERVE
? DI2 3	/302.3	-Reserve	RESERVE
? DI3 4	/302.4	-Reserve	RESERVE
? DI4 5	/302.5	-Reserve	RESERVE
? DI5 6	/302.6	-Reserve	RESERVE
? DI6 7	/302.7	-Reserve	RESERVE
? DI7 8	/302.9	-Reserve	RESERVE
? DI8 9	/303.1	-Reserve	RESERVE
? DI9 10	/303.2	-Reserve	RESERVE
? DI10 11	/303.3	-Reserve	RESERVE
? DI11 12	/303.4	-Reserve	RESERVE
? DI12 13	/303.5	-Reserve	RESERVE
? DI13 14	/303.6	-Reserve	RESERVE
? DI14 15	/303.7	-Reserve	RESERVE
? DI15 16	/303.9	-Reserve	RESERVE
+24V L+			
M M			

Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP DI Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K124
/12.4
16DI DC24V/ST
6ES7131-6BH01-0BA0

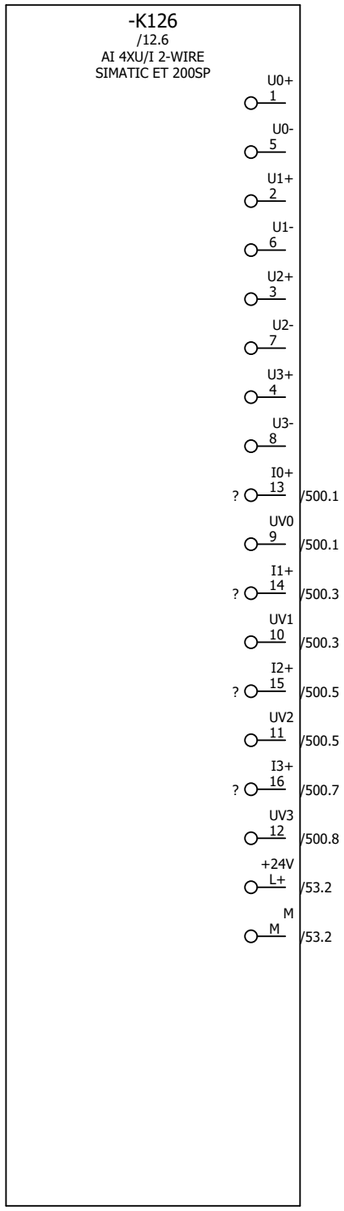
?	DI0 1	/304.1	-Reserve	RESERVE
?	DI1 2	/304.2	-Reserve	RESERVE
?	DI2 3	/304.3	-Reserve	RESERVE
?	DI3 4	/304.4	-Reserve	RESERVE
?	DI4 5	/304.5	-Reserve	RESERVE
?	DI5 6	/304.6	-Reserve	RESERVE
?	DI6 7	/304.7	-Reserve	RESERVE
?	DI7 8	/304.9	-Reserve	RESERVE
?	DI8 9	/305.1	-Reserve	RESERVE
?	DI9 10	/305.2	-Reserve	RESERVE
?	DI10 11	/305.3	-Reserve	RESERVE
?	DI11 12	/305.4	-Reserve	RESERVE
?	DI12 13	/305.5	-Reserve	RESERVE
?	DI13 14	/305.6	-Reserve	RESERVE
?	DI14 15	/305.7	-Reserve	RESERVE
?	DI15 16	/305.9	-Reserve	RESERVE
	+24V L+			
	M M			

Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 72
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP DI Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

-K125
/12.5
DQ16x24V DC/0,5A ST
6ES7132-6BH01-0BA0

? DQ0 1	/400.1	-Reserve	RESERVE
? DQ1 2	/400.2	-Reserve	RESERVE
? DQ2 3	/400.3	-Reserve	RESERVE
? DQ3 4	/400.4	-Reserve	RESERVE
? DQ4 5	/400.5	-Reserve	RESERVE
? DQ5 6	/400.6	-Reserve	RESERVE
? DQ6 7	/400.7	-Reserve	RESERVE
? DQ7 8	/400.9	-Reserve	RESERVE
? DQ8 9	/401.1	-Reserve	RESERVE
? DQ9 10	/401.2	-Reserve	RESERVE
? DQ10 11	/401.3	-Reserve	RESERVE
? DQ11 12	/401.4	-Reserve	RESERVE
? DQ12 13	/401.5	-Reserve	RESERVE
? DQ13 14	/401.6	-Reserve	RESERVE
? DQ14 15	/401.7	-Reserve	RESERVE
? DQ15 16	/401.9	-Reserve	RESERVE
+24V L+	/52.6		
M M	/52.6		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



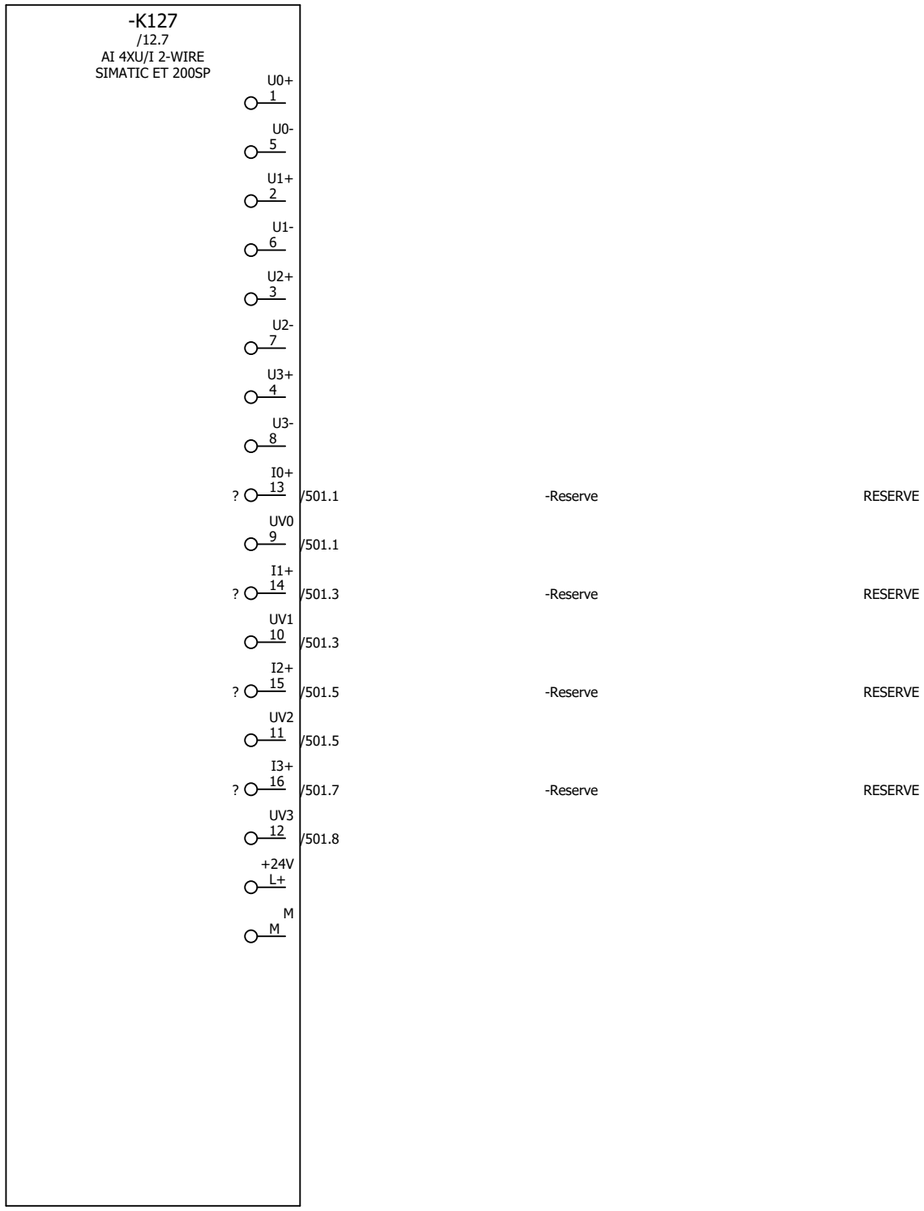
-Reserve RESERVE

-Reserve RESERVE

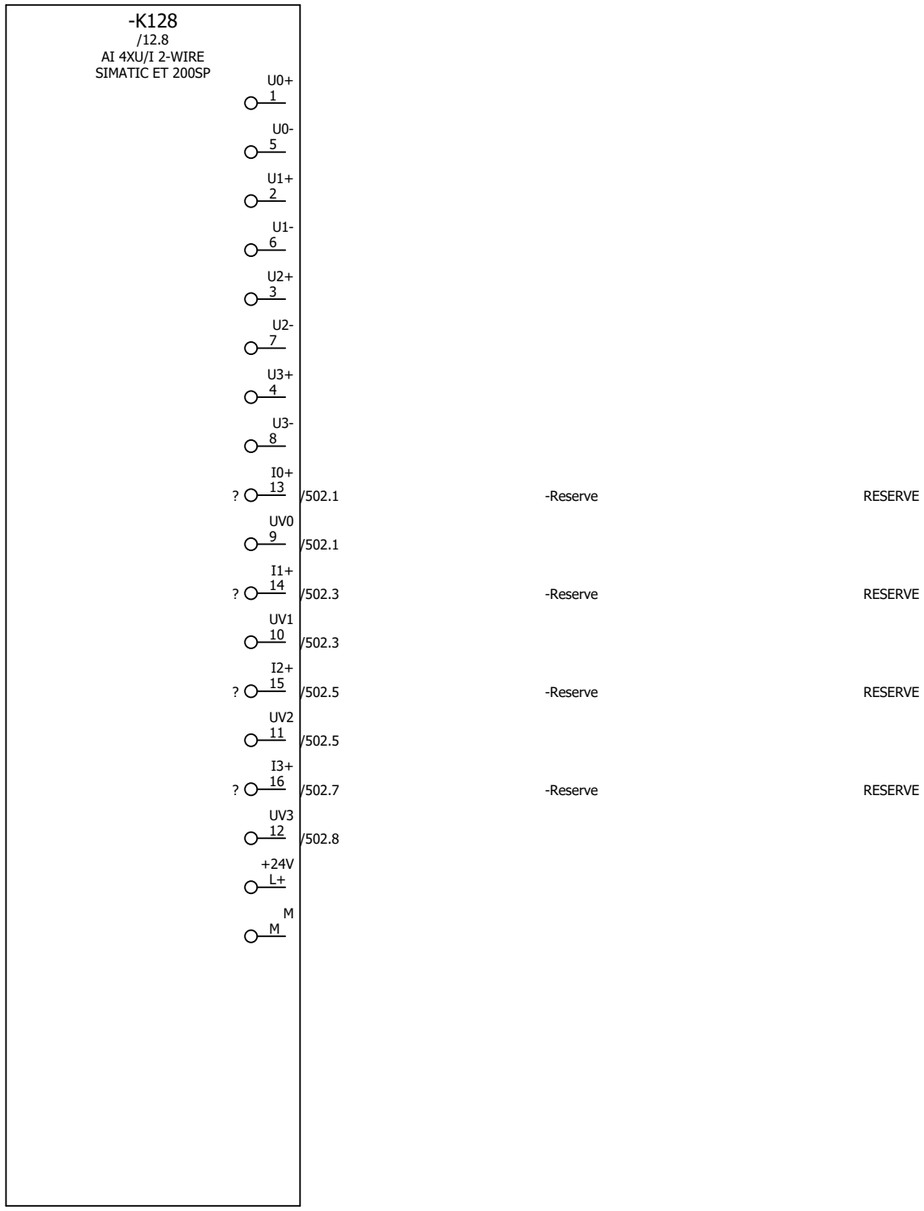
-Reserve RESERVE

-Reserve RESERVE

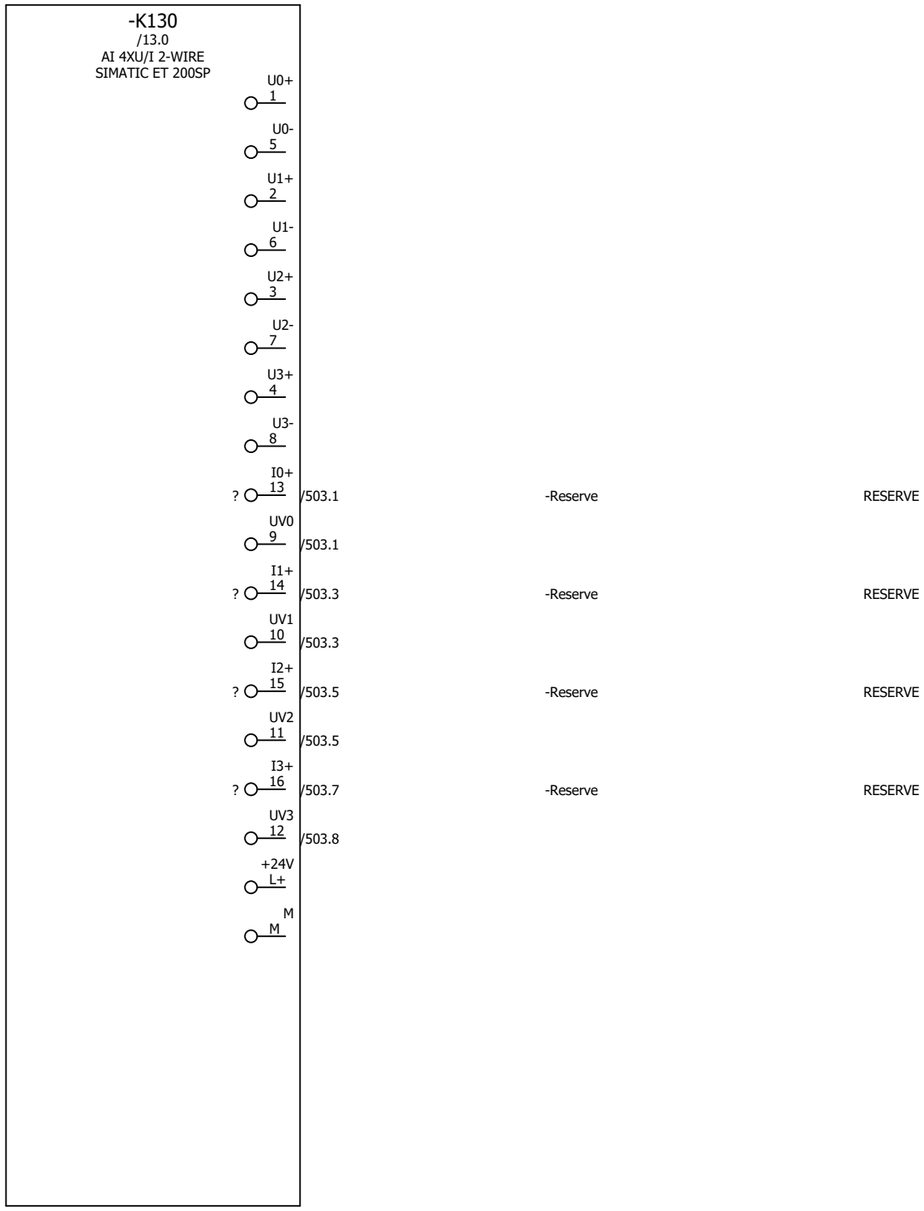
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 74
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



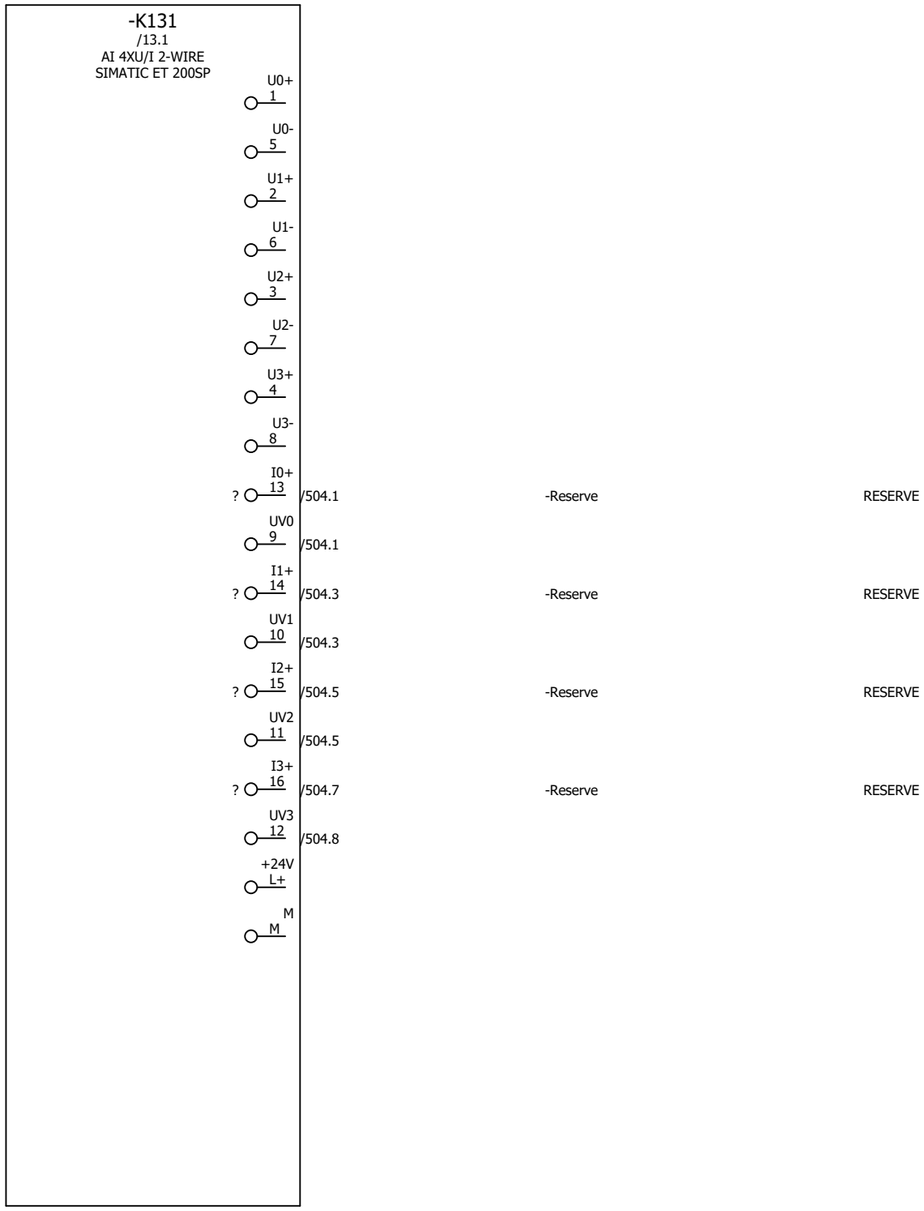
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 75
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



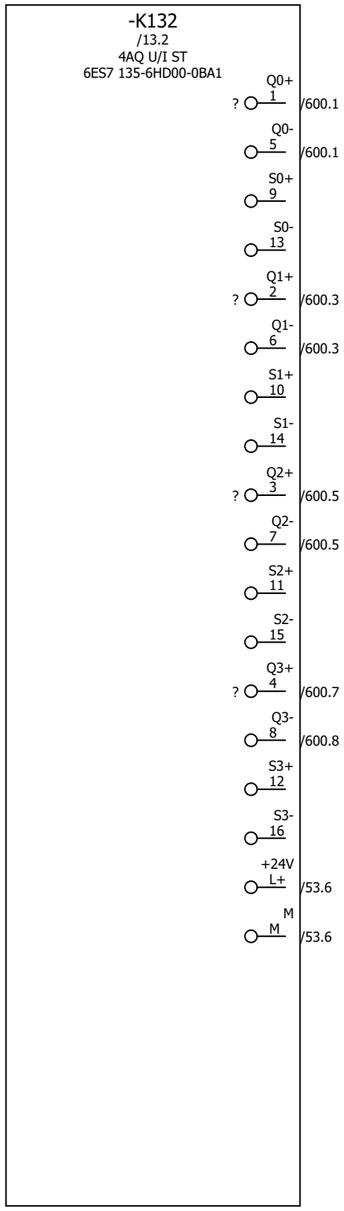
Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 76
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amosssys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 77
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 78
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



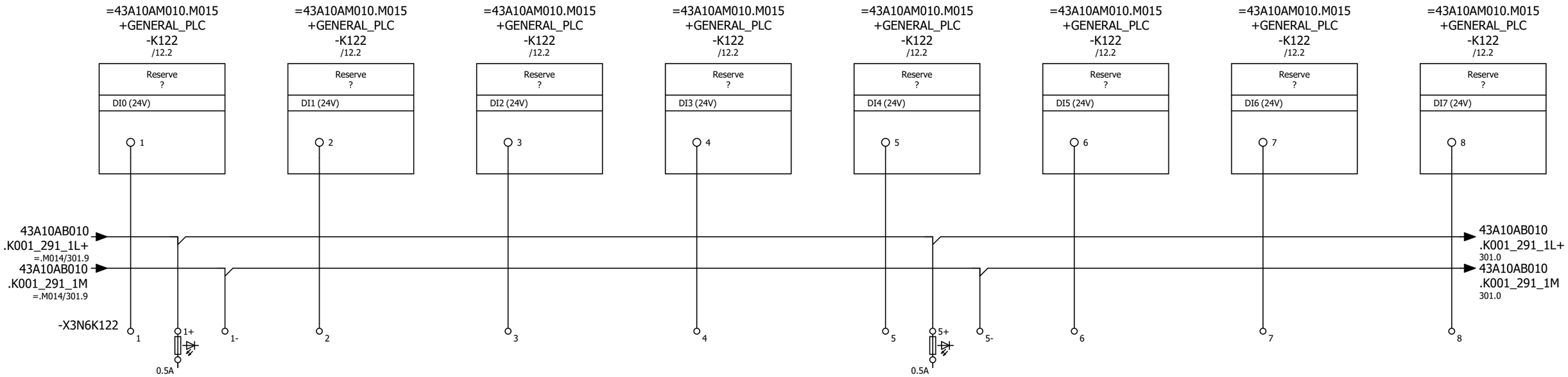
-Reserve RESERVE

-Reserve RESERVE

-Reserve RESERVE

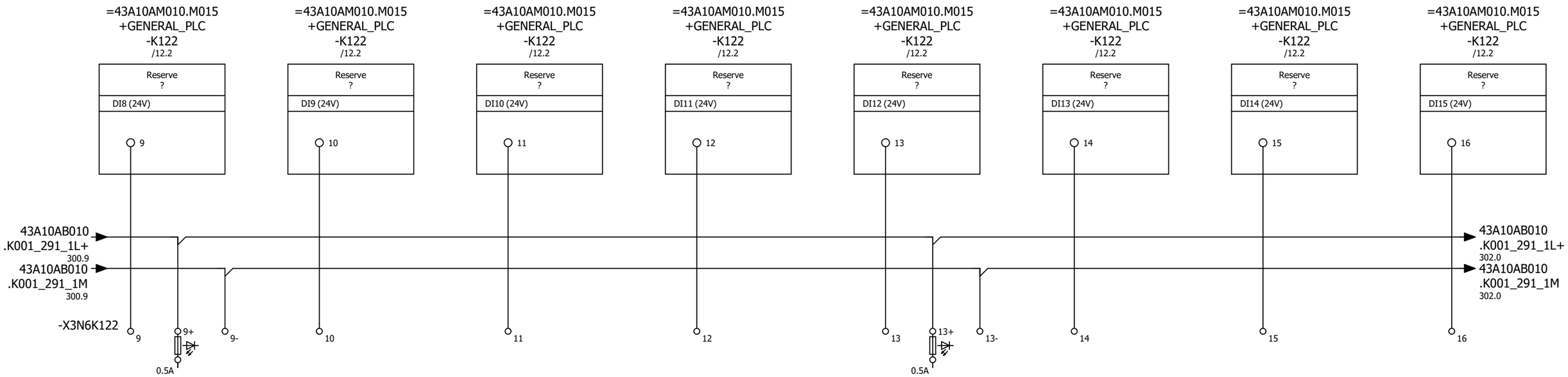
-Reserve RESERVE

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 79
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA	ET200SP AO Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

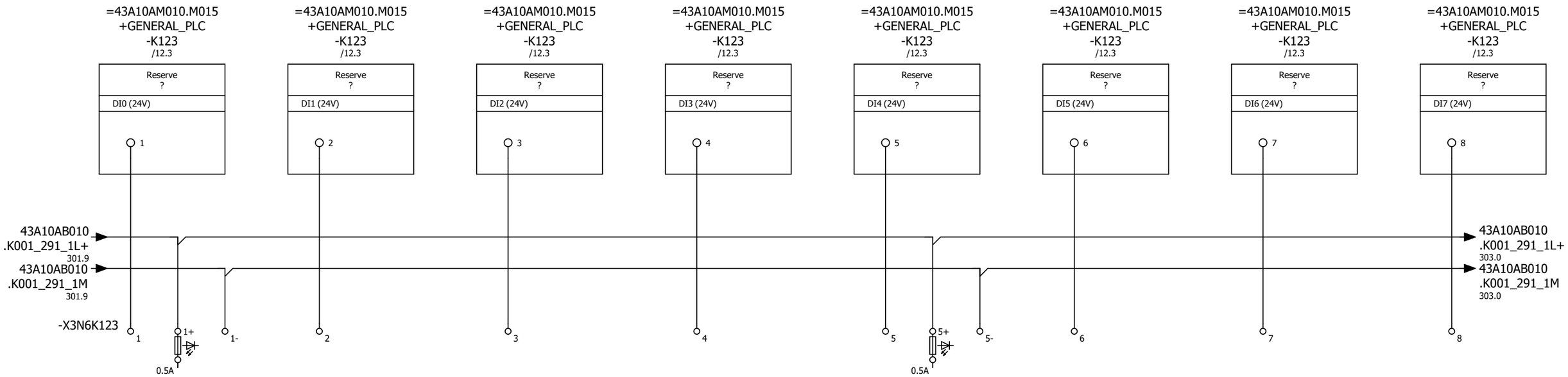
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 300
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

300 302

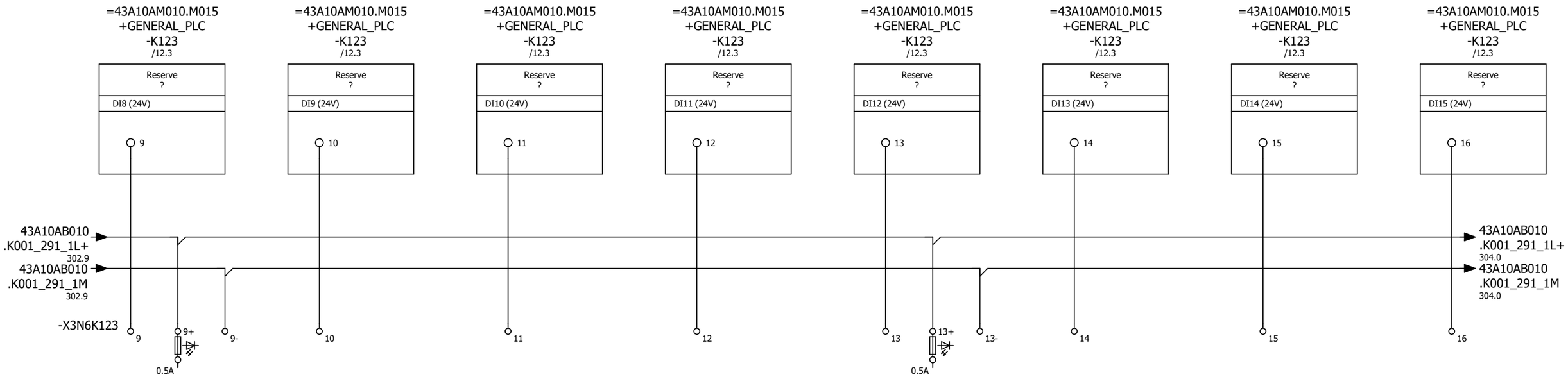
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 301
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

301 303

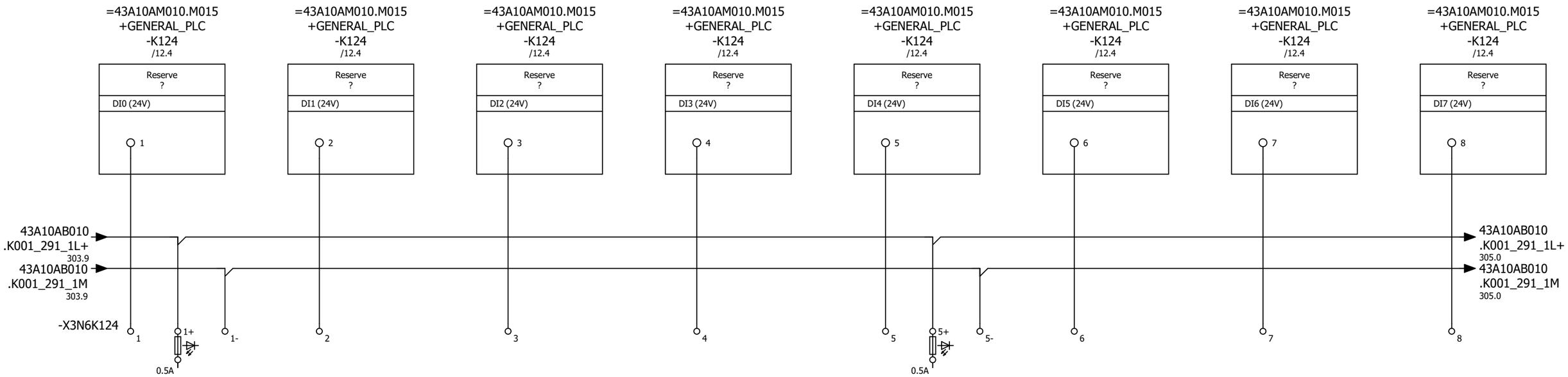
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 302
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE

302 304

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 2 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 303
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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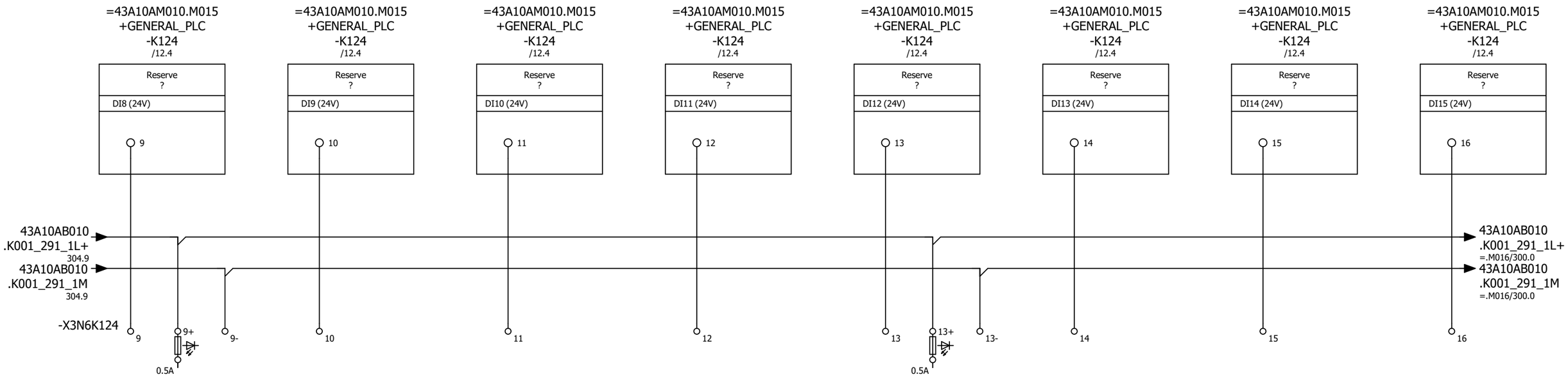
303 305

Revision	V1 - 01	Approved		ACS Amosys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 304
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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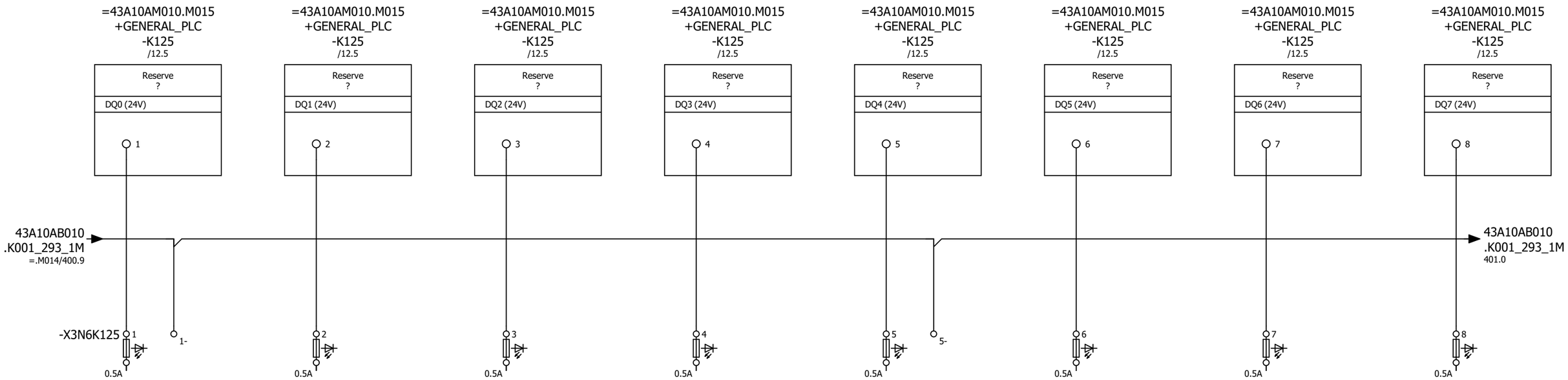
304 400

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 3 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 305
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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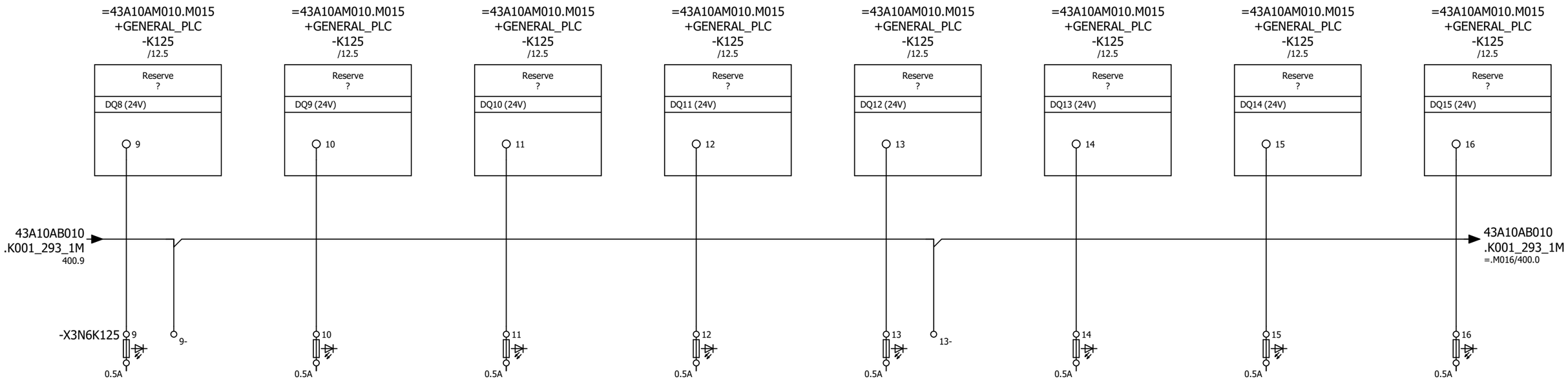
305 401

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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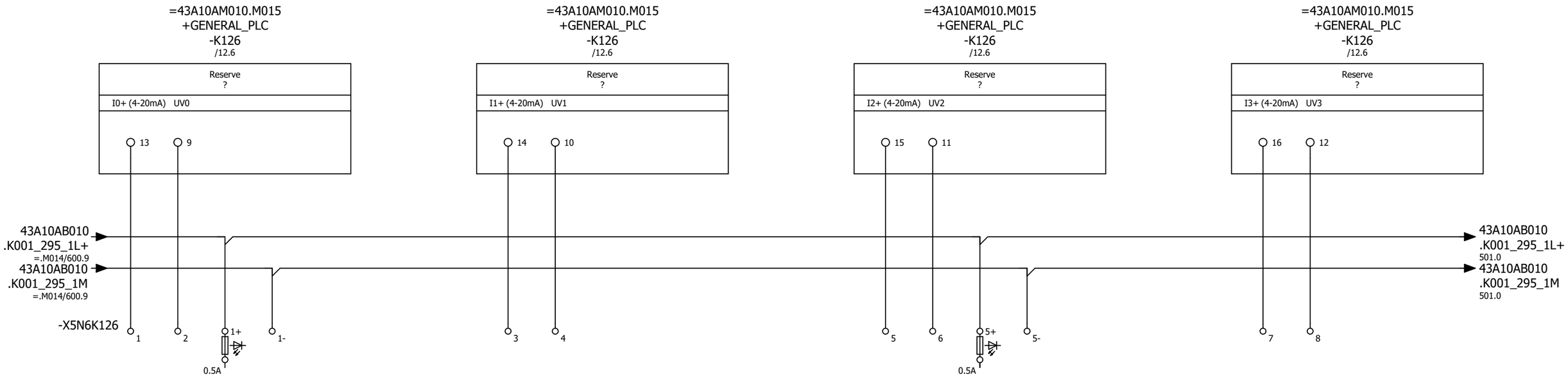
400 500

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 401
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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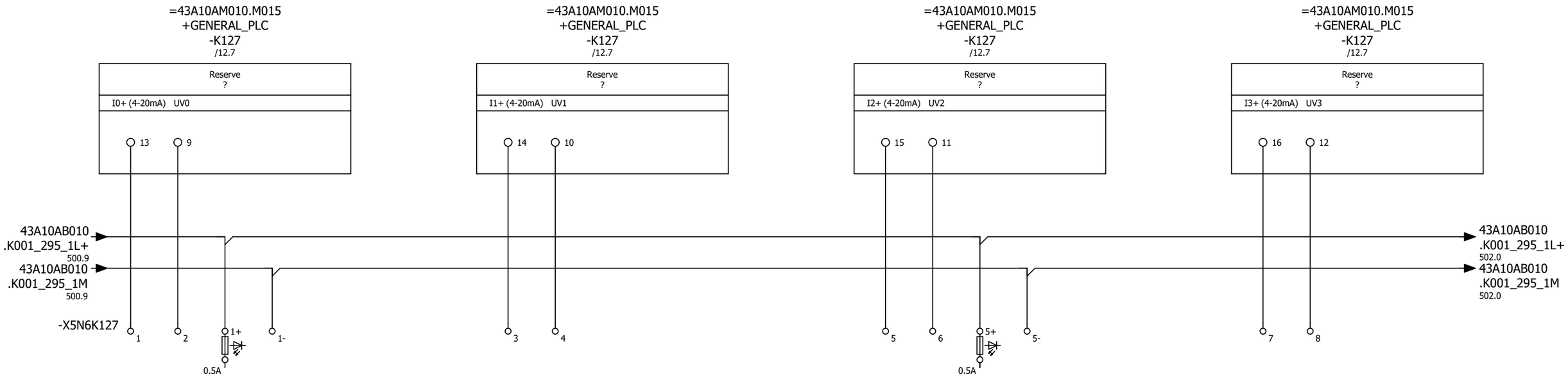
401 501

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 1 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 500
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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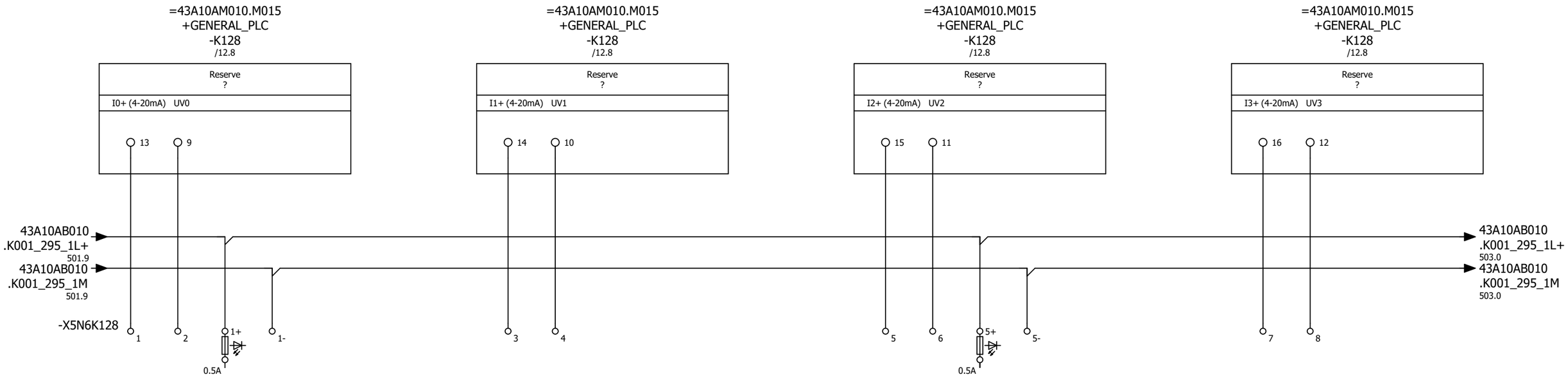
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 2 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 501
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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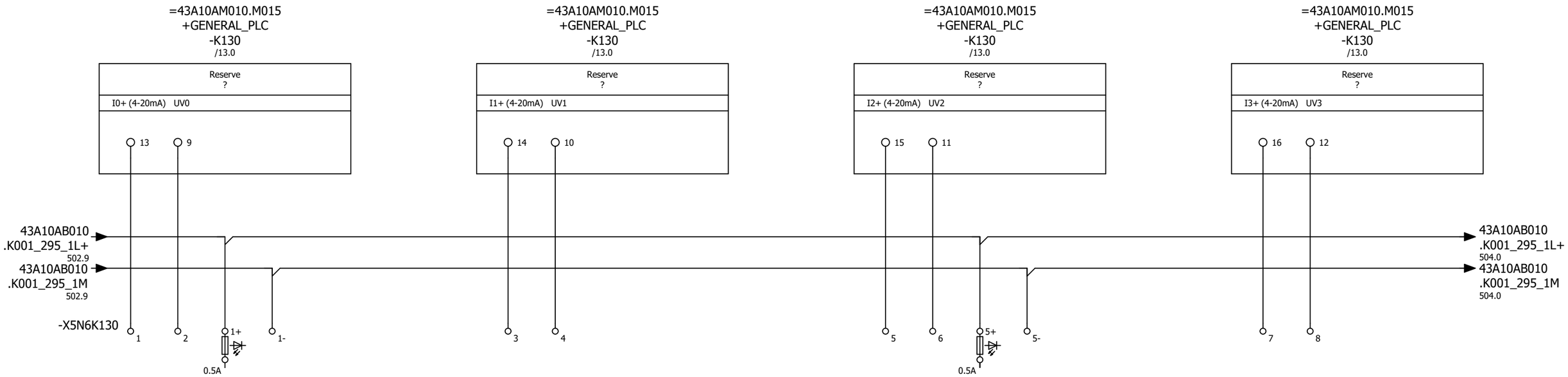
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 3 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 502
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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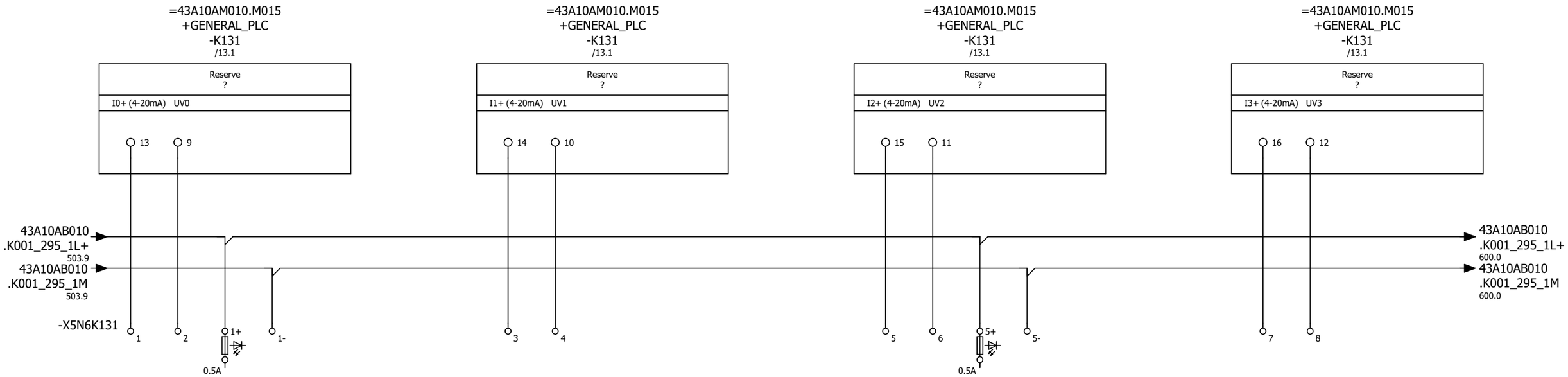
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 4 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 503
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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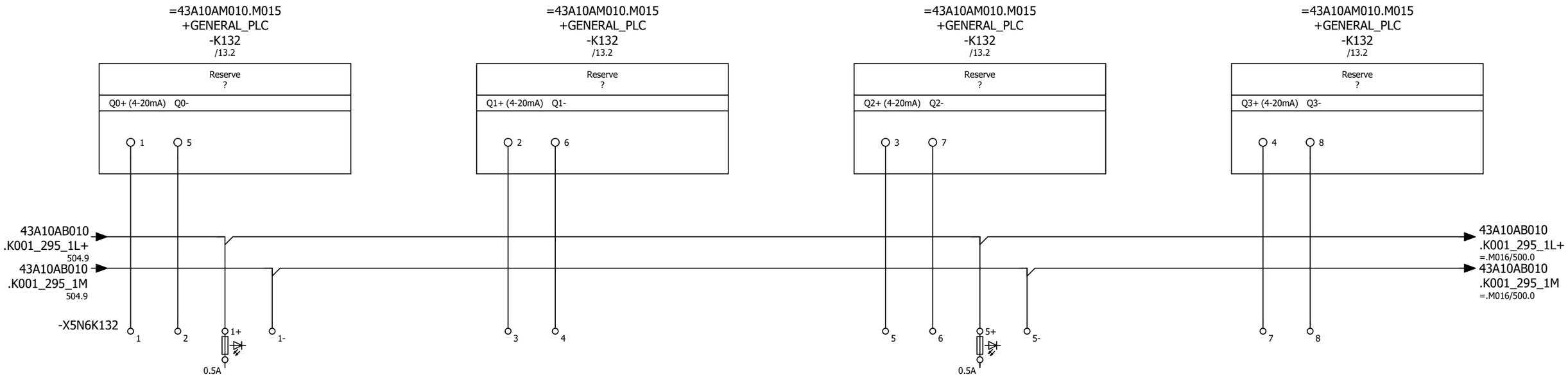
503 600

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 5 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 504
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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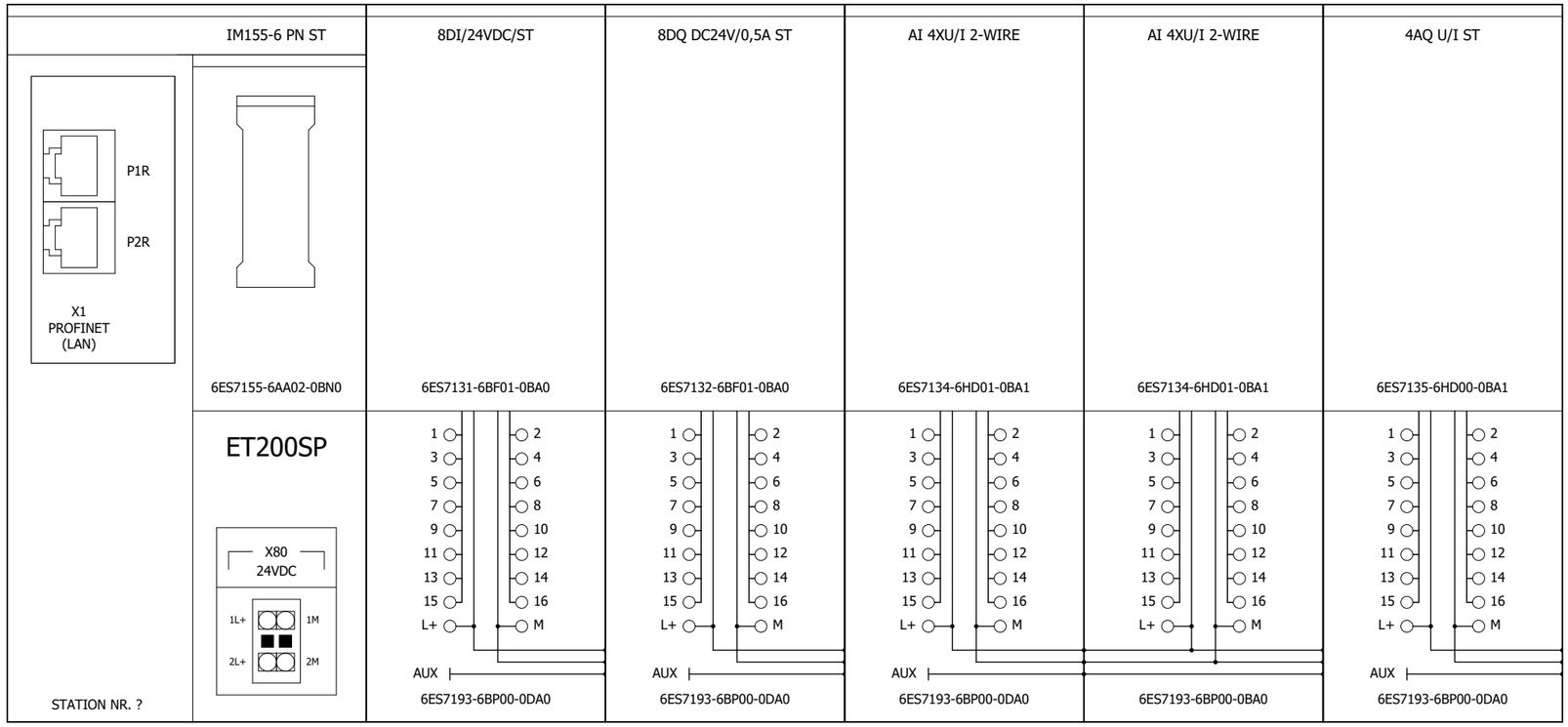
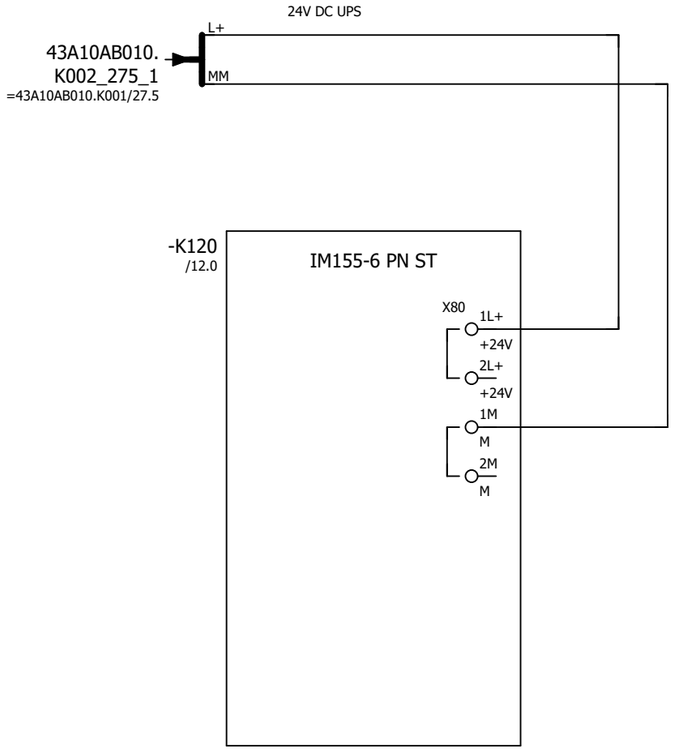
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog outputs ET200SP AO Card 1 Node 6	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 600
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M015	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



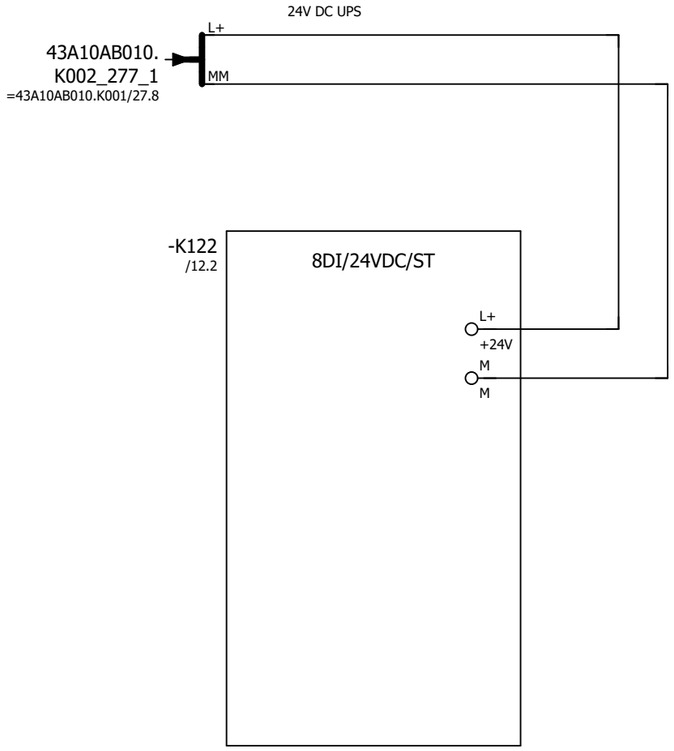
-K120	-K122	-K123	-K124	-K125	-K126
/50.1	/52.1	/52.5	/53.1	/501.0	/53.5
	/300.0	/400.0	/500.0	/501.3	/600.0
	/300.2	/400.2	/500.3	/501.5	/600.3
	/300.3	/400.3	/500.5	/501.7	/600.5
	/300.4	/400.4	/500.7	/73.0	/600.7
	/300.5	/400.5	/72.0		/75.0
	/300.6	/400.6			
	/300.7	/400.7			
	/300.8	/400.8			
	/70.0	/71.0			

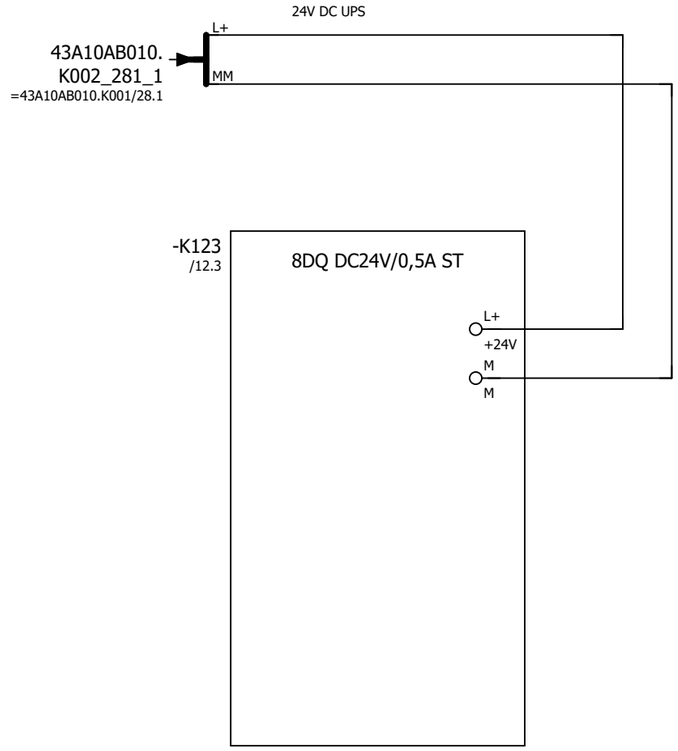
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Rack layout ET200SP	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 12
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Power supply
24V DC
IM155-6PN ST
Node-7

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP IM Module	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

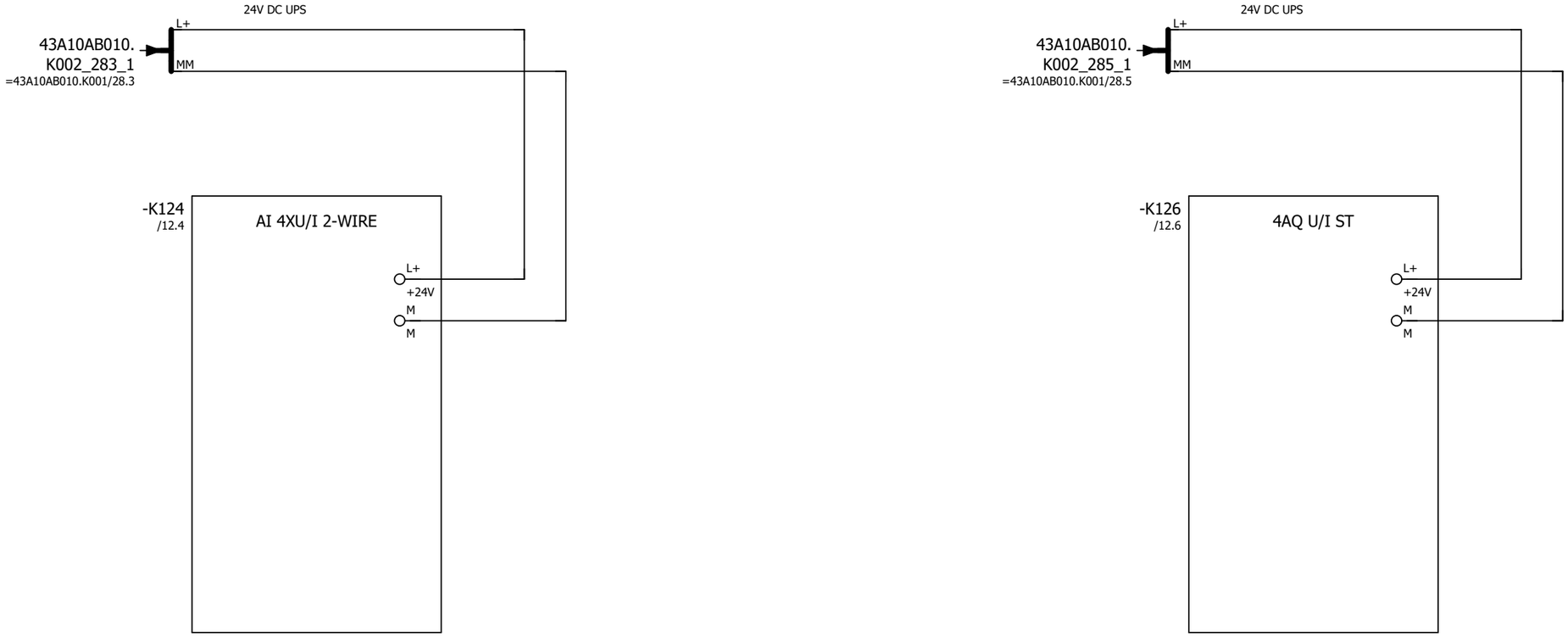




Power supply
24V DC
DI Card 1
Node-7

Power supply
24V DC
DO Card 1
Node-7

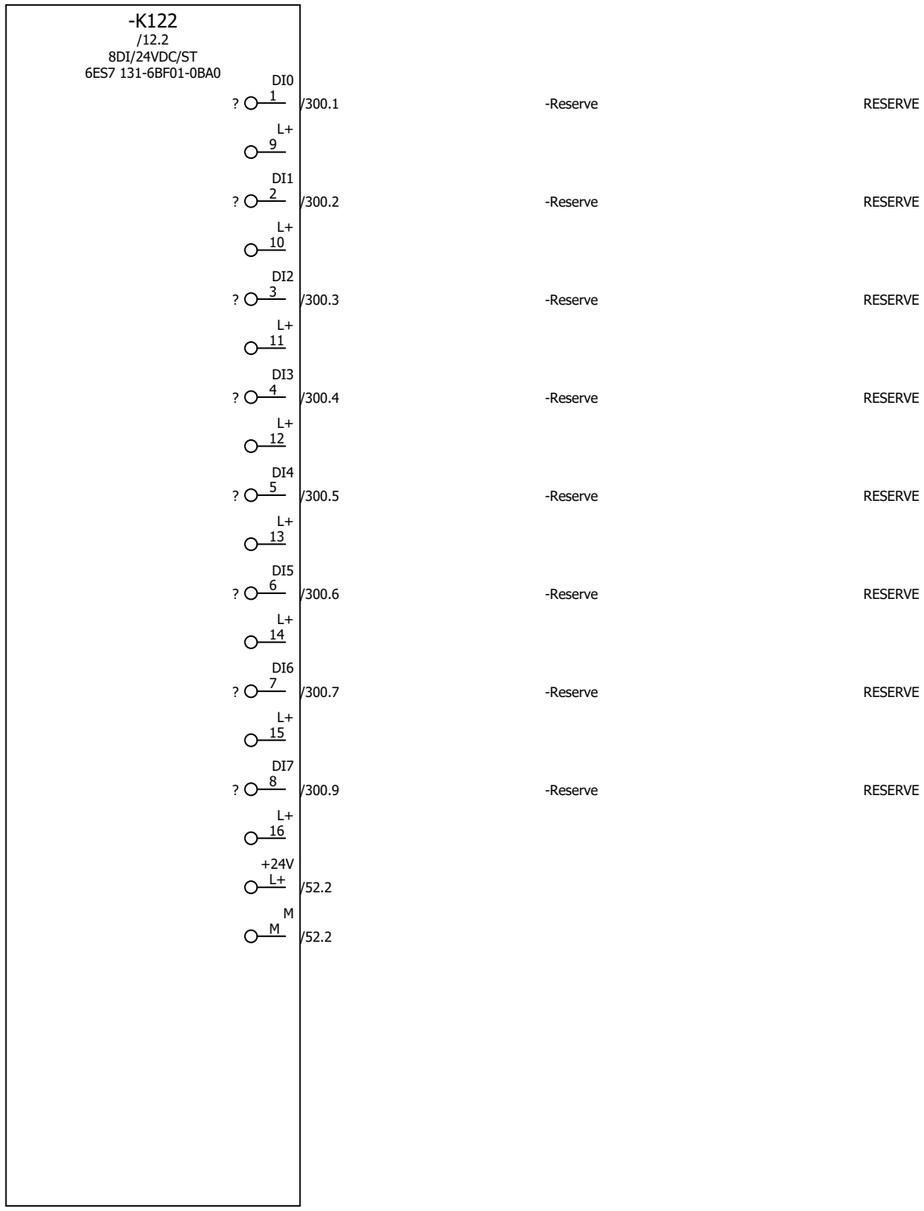
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 52
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



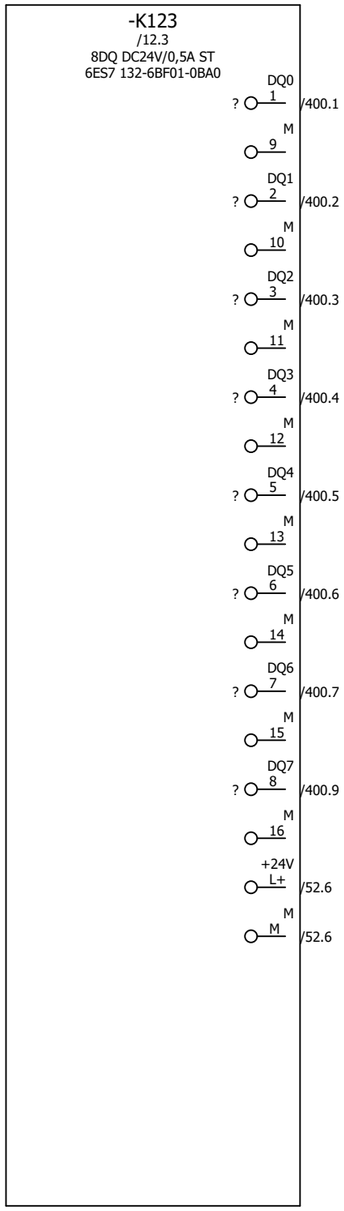
Power supply
24V DC
AI Card 1
Node-7

Power supply
24V DC
AO Card 1
Node-7

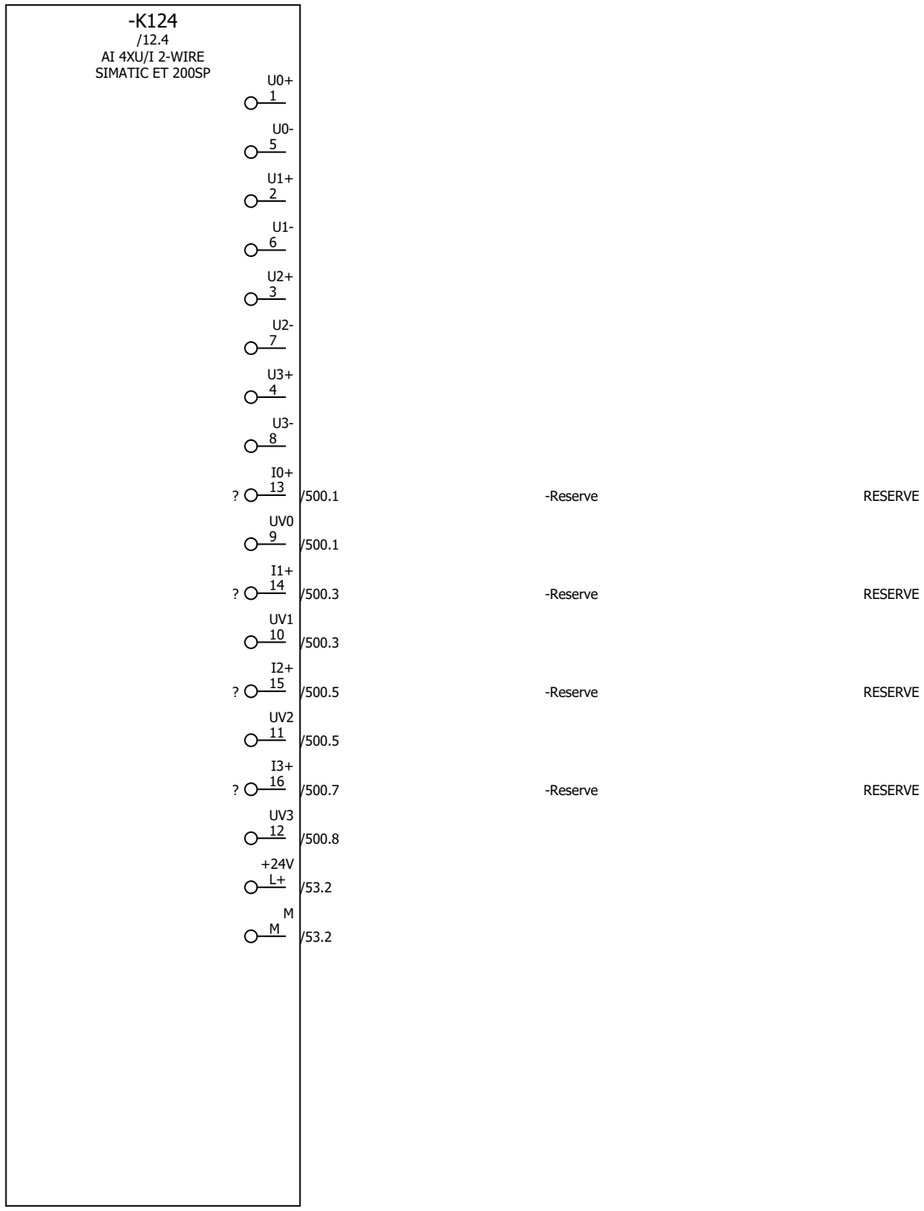
Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Power supply 24V DC ET200SP Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 53
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



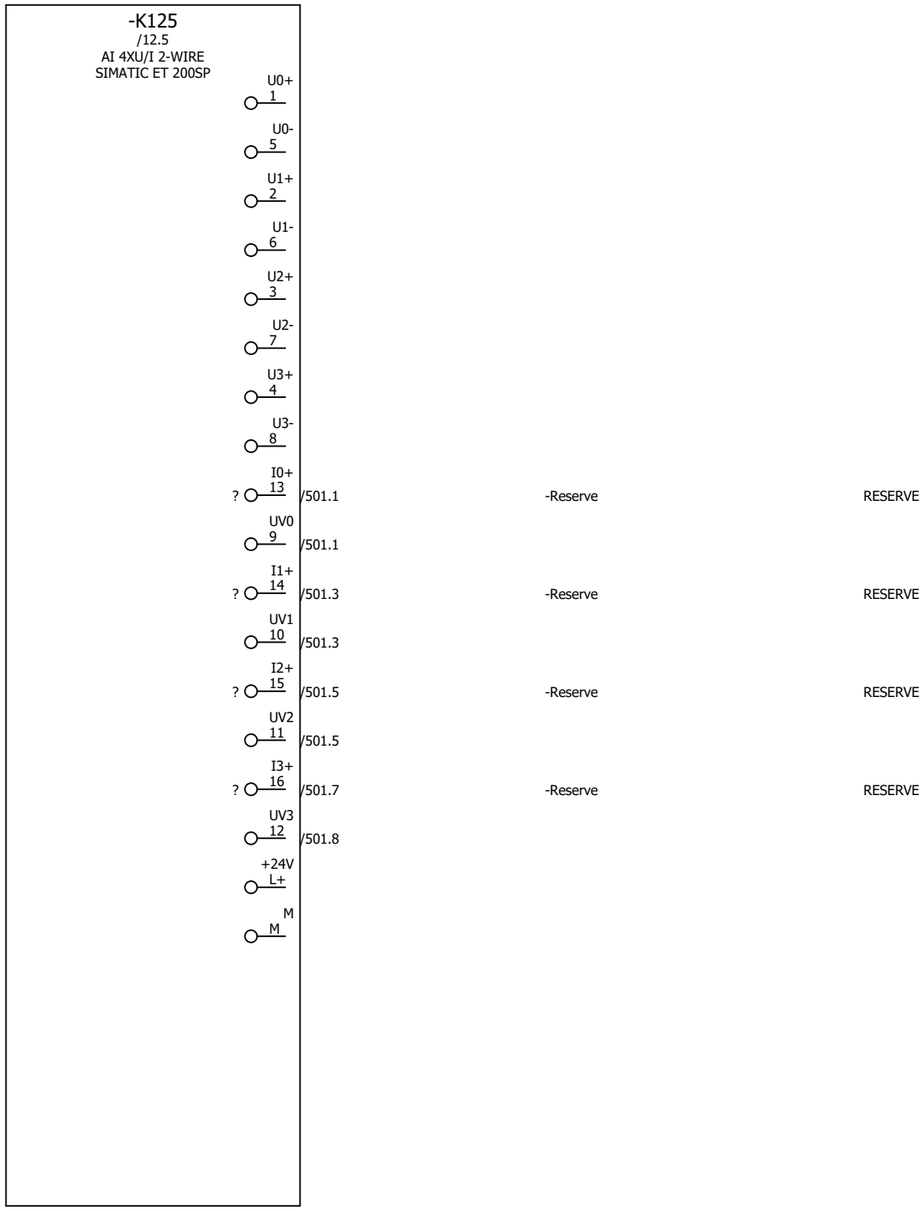
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP DI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 70
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



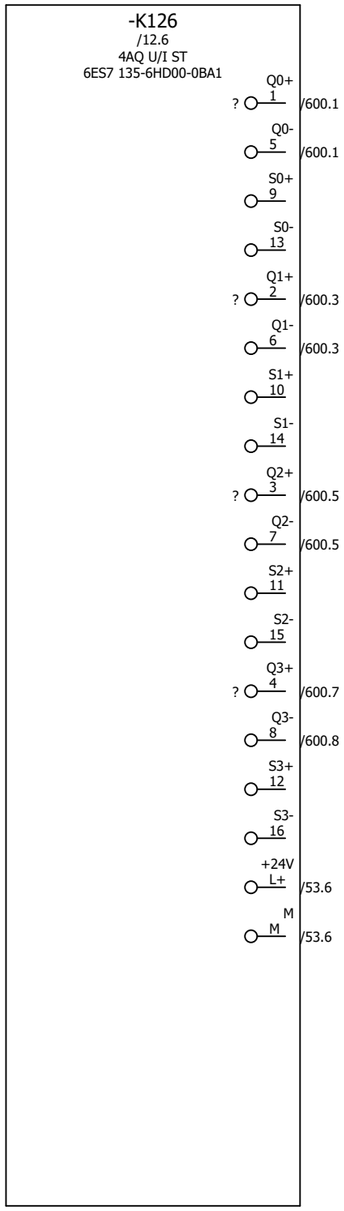
Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Overview	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 71
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA	ET200SP DO Cards	CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025							



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 72
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AI Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 73
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



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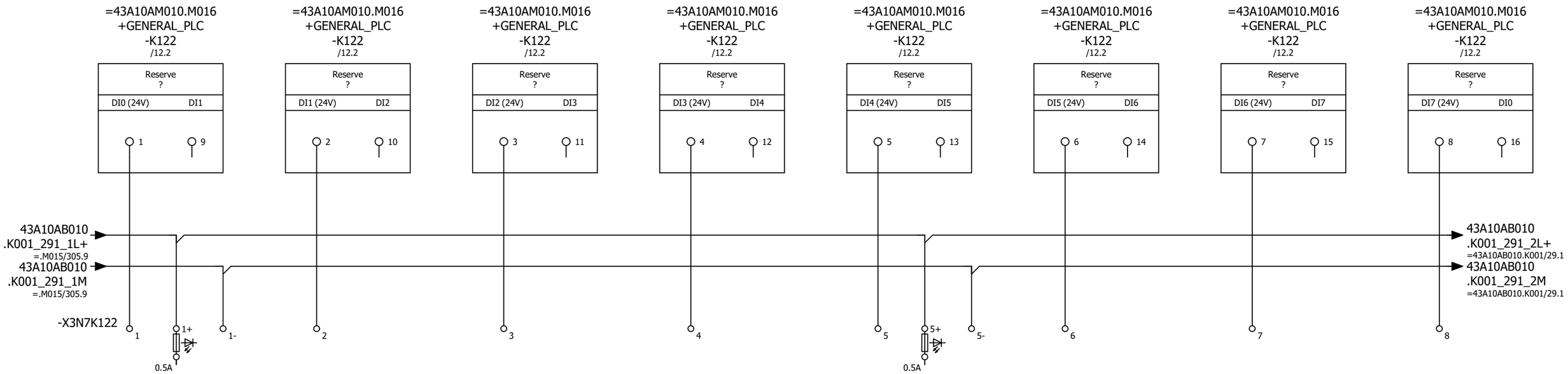
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Overview ET200SP AO Cards	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 75
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



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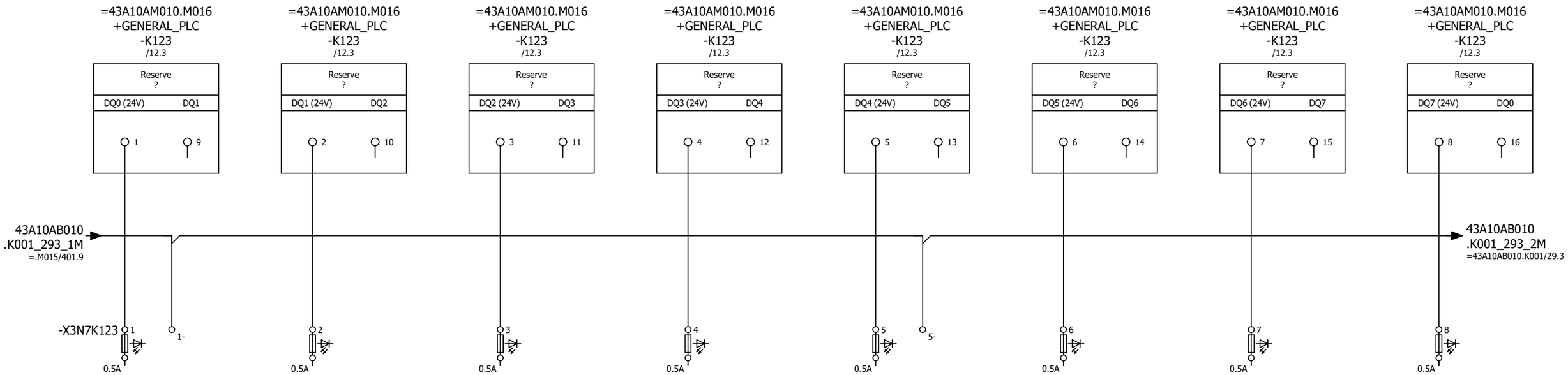
75 400

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DI Card 1 Node 7	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 300
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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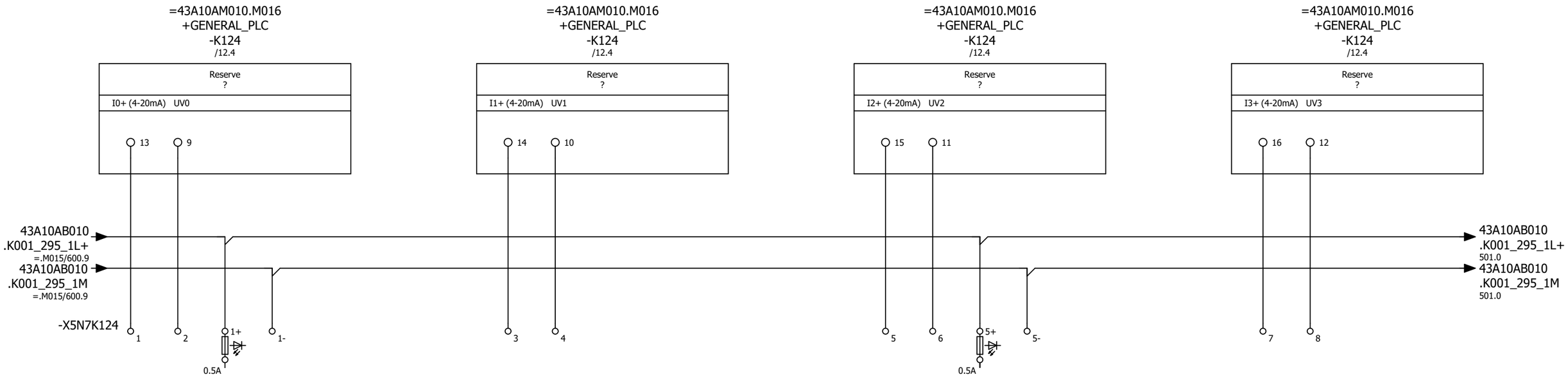
300 500

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Digital inputs ET200SP DO Card 1 Node 7	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 400
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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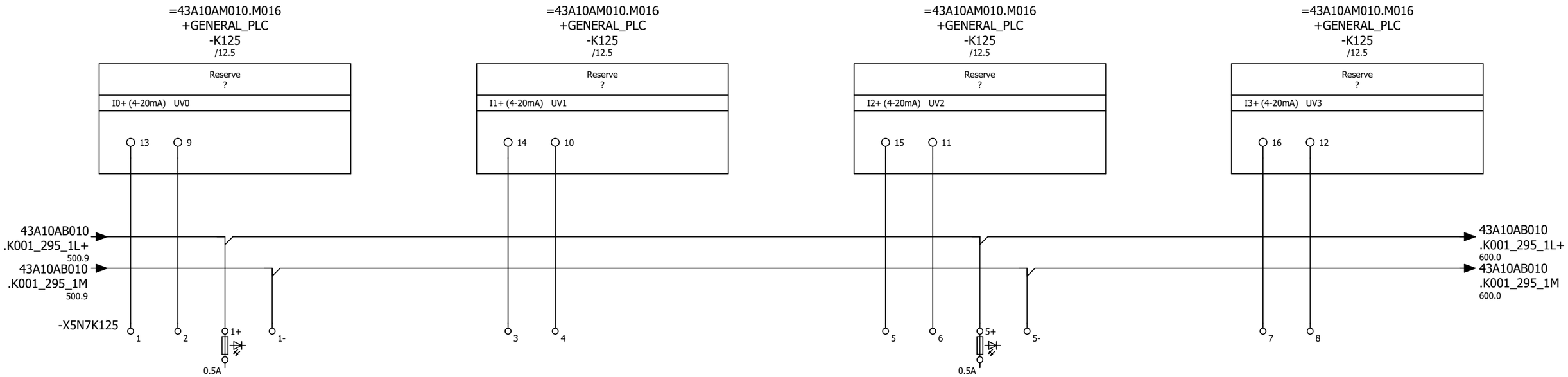
400 501

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 1 Node 7	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 500
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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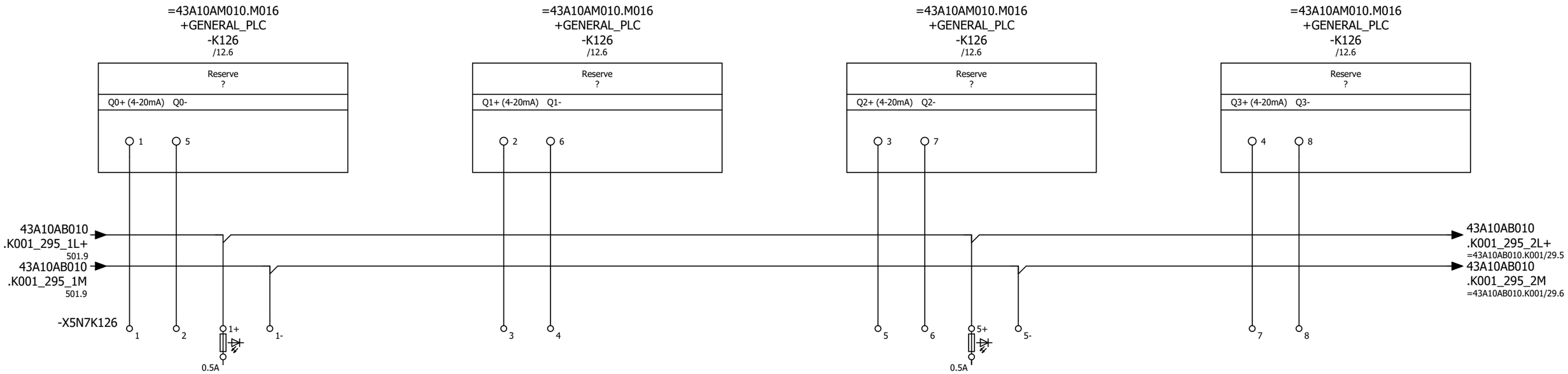
500 600

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog inputs ET200SP AI Card 2 Node 7	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 501
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								



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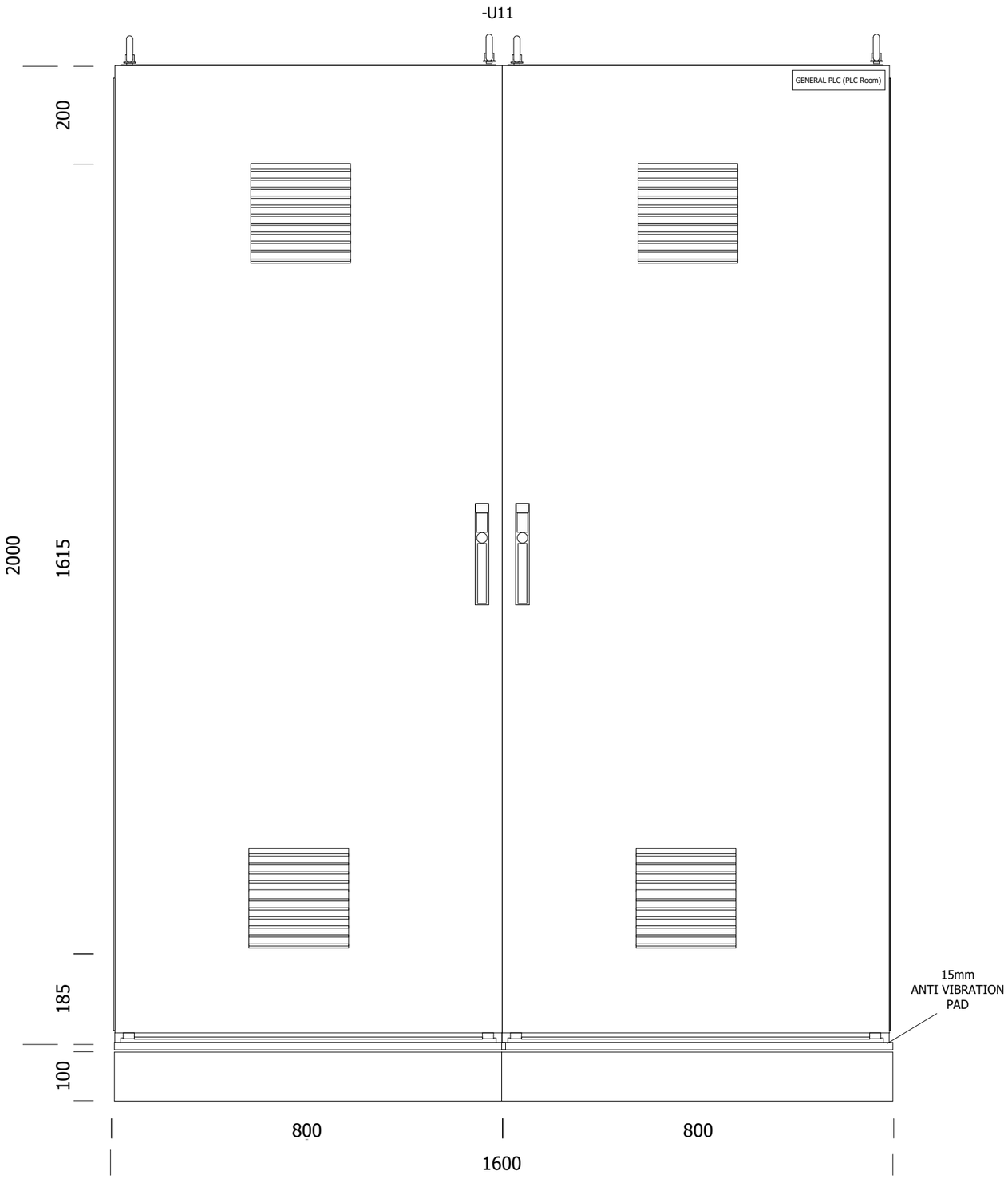
=43A10AZ010.Y001/1

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Analog outputs ET200SP AO Card 1 Node 7	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 600
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AM010.M016	From 600
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	29.08.2025								

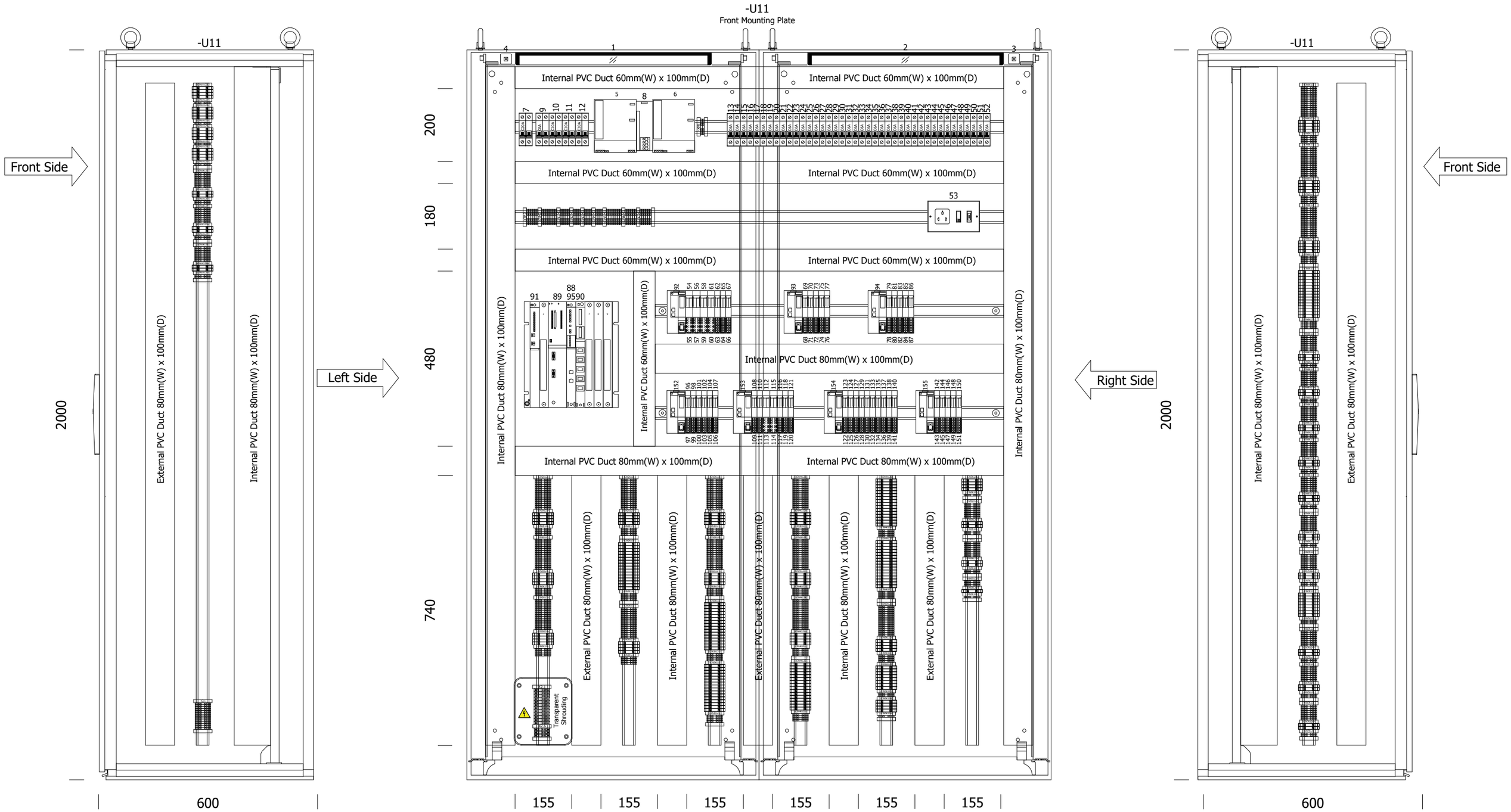


Front View

=43A10AM010.M016/600

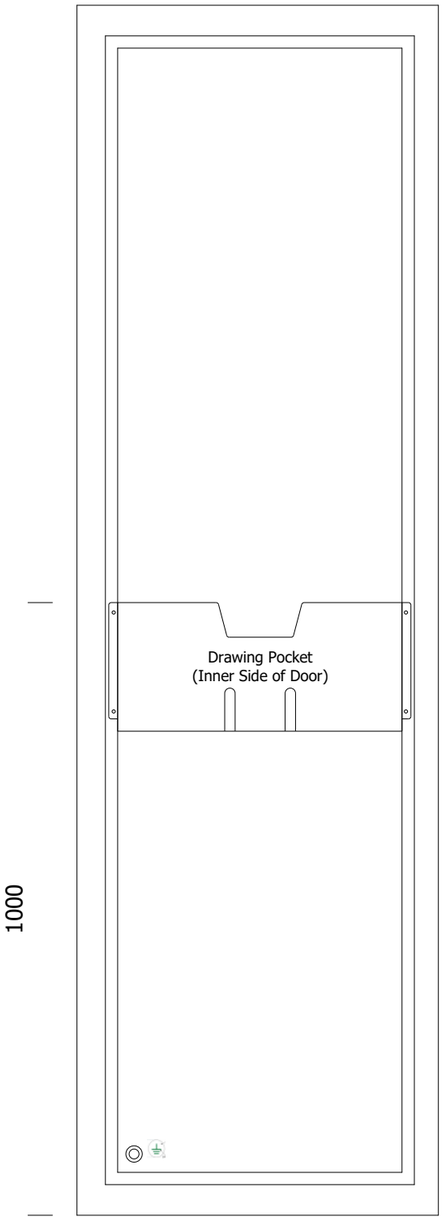
2

Revision	V1 - 01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Transport unit	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 1
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ010.Y001	From 22
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

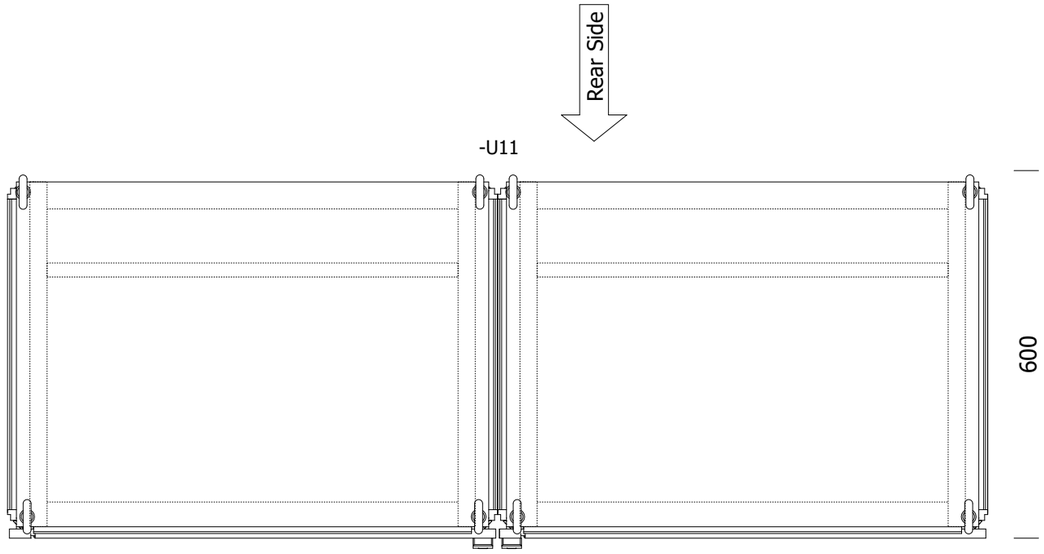


IGA - Front Mounting Plate
GENERAL PLC

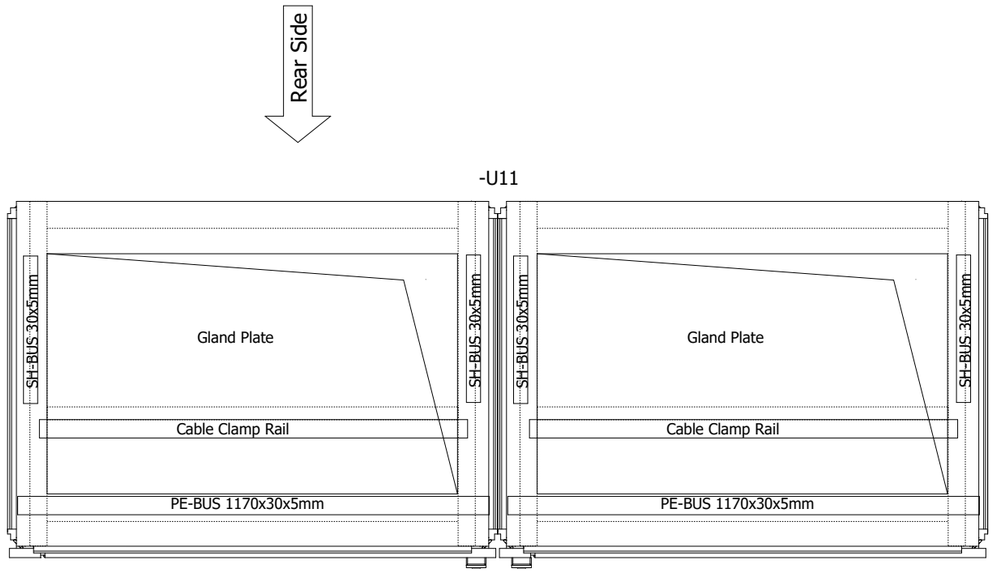
Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	CPU Panel GA and IGA	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 2
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ010.Y001	From 22
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								



Front Right Door Inner Side View



Top View



Bottom View

Cabinet make	Rittal
Dimensions(WxHxD)	1600(800+800) x 2000 x 600)
Protection Class	IP 54
Enclosure Frame, Doors and Roof	2.0mm Sheet steel
Mounting plate	2.0 mm Galvanized sheet steel
Gland plate	3.0 mm Galvanized sheet steel
Colour Shade	RAL 7035 & RAL 7022 For Base
Scale	A3=M1:10
Access Type	Front only

Revision	V1-01	Approved		ACS Amosys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Top/Bottom view inside	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 3
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ010.Y001	From 22
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Enclosure legend

+GENERAL_PLC		
Item number	Description	Device tag
Front Mounting Plate		
1	LED Batten	=41A10AB010.E003-E15
2	LED Batten	=41A10AB010.E003-E21
3	Position switch	=41A10AB010.E003-B21
4	Position switch	=41A10AB010.E003-B15
5	Power supply	=41A10AB010.K001-T13
6	Power supply	=41A10AB010.K001-T15
7	Circuit breaker	=41A10AB010.E003-F11
8	Redundancy module	=41A10AB010.K001-T14
9	Circuit breaker	=41A10AB010.E001-F11
10	Circuit breaker	=41A10AB010.E001-F13
11	Circuit breaker	=41A10AB010.E001-F15
12	Circuit breaker	=41A10AB010.E001-F18
13	Circuit breaker	=41A10AB010.K001-F201
14	Circuit breaker	=41A10AB010.K001-F203
15	Circuit breaker	=41A10AB010.K001-F205
16	Circuit breaker	=41A10AB010.K001-F207
17	Circuit breaker	=41A10AB010.K001-F211
18	Circuit breaker	=41A10AB010.K001-F213
19	Circuit breaker	=41A10AB010.K001-F215
20	Circuit breaker	=41A10AB010.K001-F217
21	Circuit breaker	=41A10AB010.K001-F221
22	Circuit breaker	=41A10AB010.K001-F223
23	Circuit breaker	=41A10AB010.K001-F225
24	Circuit breaker	=41A10AB010.K001-F227
25	Circuit breaker	=41A10AB010.K001-F231
26	Circuit breaker	=41A10AB010.K001-F233
27	Circuit breaker	=41A10AB010.K001-F235
28	Circuit breaker	=41A10AB010.K001-F237
29	Circuit breaker	=41A10AB010.K001-F241
30	Circuit breaker	=41A10AB010.K001-F243
31	Circuit breaker	=41A10AB010.K001-F245
32	Circuit breaker	=41A10AB010.K001-F247
33	Circuit breaker	=41A10AB010.K001-F251
34	Circuit breaker	=41A10AB010.K001-F253
35	Circuit breaker	=41A10AB010.K001-F255
36	Circuit breaker	=41A10AB010.K001-F257
37	Circuit breaker	=41A10AB010.K001-F261
38	Circuit breaker	=41A10AB010.K001-F263
39	Circuit breaker	=41A10AB010.K001-F265
40	Circuit breaker	=41A10AB010.K001-F267
41	Circuit breaker	=41A10AB010.K001-F271
42	Circuit breaker	=41A10AB010.K001-F273
43	Circuit breaker	=41A10AB010.K001-F275
44	Circuit breaker	=41A10AB010.K001-F277
45	Circuit breaker	=41A10AB010.K001-F281
46	Circuit breaker	=41A10AB010.K001-F283
47	Circuit breaker	=41A10AB010.K001-F285
48	Circuit breaker	=41A10AB010.K001-F287
49	Circuit breaker	=41A10AB010.K001-F291
50	Circuit breaker	=41A10AB010.K001-F293
51	Circuit breaker	=41A10AB010.K001-F295
52	Circuit breaker	=41A10AB010.K001-F297
53	Universal switch socket	=41A10AB010.E003-S12
54	Digital output module	=41A10AM010.M010-K122
55	Base unit	=41A10AM010.M010-K122

Enclosure legend

+GENERAL_PLC		
Item number	Description	Device tag
Front Mounting Plate		
56	Digital output module	=41A10AM010.M010-K123
57	Base unit	=41A10AM010.M010-K123
58	Digital output module	=41A10AM010.M010-K124
59	Base unit	=41A10AM010.M010-K124
60	Base unit	=41A10AM010.M010-K125
61	Digital output module	=41A10AM010.M010-K125
62	Analog input module	=41A10AM010.M010-K126
63	Base unit	=41A10AM010.M010-K126
64	Base unit	=41A10AM010.M010-K127
65	Analog input module	=41A10AM010.M010-K127
66	Base unit	=41A10AM010.M010-K128
67	Output module	=41A10AM010.M010-K128
68	Base unit	=41A10AM010.M011-K122
69	Input module	=41A10AM010.M011-K122
70	Input module	=41A10AM010.M011-K123
71	Base unit	=41A10AM010.M011-K123
72	Base unit	=41A10AM010.M011-K124
73	Input module	=41A10AM010.M011-K124
74	Base unit	=41A10AM010.M011-K125
75	Input module	=41A10AM010.M011-K125
76	Base unit	=41A10AM010.M011-K126
77	Output module	=41A10AM010.M011-K126
78	Base unit	=41A10AM010.M012-K122
79	Input module	=41A10AM010.M012-K122
80	Base unit	=41A10AM010.M012-K123
81	Input module	=41A10AM010.M012-K123

82	Base unit	=41A10AM010.M012-K124
83	Input module	=41A10AM010.M012-K124
84	Base unit	=41A10AM010.M012-K125
85	Output module	=41A10AM010.M012-K125
86	Output module	=41A10AM010.M012-K126
87	Base unit	=41A10AM010.M012-K126
88	Rack	=41A10AM010.M001-K120
89	Central processing unit	=41A10AM010.M001-K122
90	Communication processor	=41A10AM010.M001-K124
91	Power supply	=41A10AM010.M001-K121
92	PN bundle IM 155-6PN ST	=41A10AM010.M010-K120
93	PN bundle IM 155-6PN ST	=41A10AM010.M011-K120
94	PN bundle IM 155-6PN ST	=41A10AM010.M012-K120
95	Profinet Comm. module	=41A10AM010.M001-K123
96	Input module	=41A10AM010.M013-K122
97	Base unit	=41A10AM010.M013-K122
98	Input module	=41A10AM010.M013-K123
99	Base unit	=41A10AM010.M013-K123
100	Base unit	=41A10AM010.M013-K124
101	Input module	=41A10AM010.M013-K124
102	Output module	=41A10AM010.M013-K125
103	Base unit	=41A10AM010.M013-K125
104	Output module	=41A10AM010.M013-K126
105	Base unit	=41A10AM010.M013-K126
106	Base unit	=41A10AM010.M013-K127
107	Output module	=41A10AM010.M013-K127
108	Input module	=41A10AM010.M014-K122
109	Base unit	=41A10AM010.M014-K122
110	Output module	=41A10AM010.M014-K123

Enclosure legend

+GENERAL_PLC		
Item number	Description	Device tag
Front Mounting Plate		
111	Base unit	=41A10AM010.M014-K123
112	Digital output module	=41A10AM010.M014-K124
113	Base unit	=41A10AM010.M014-K124
114	Base unit	=41A10AM010.M014-K125
115	Digital output module	=41A10AM010.M014-K125
116	Analog input module	=41A10AM010.M014-K126
117	Base unit	=41A10AM010.M014-K126
118	Output module	=41A10AM010.M014-K127
119	Base unit	=41A10AM010.M014-K127
120	Base unit	=41A10AM010.M014-K128
121	Counter module	=41A10AM010.M014-K128
122	Base unit	=41A10AM010.M015-K122
123	Input module	=41A10AM010.M015-K122
124	Input module	=41A10AM010.M015-K123
125	Base unit	=41A10AM010.M015-K123
126	Base unit	=41A10AM010.M015-K124
127	Input module	=41A10AM010.M015-K124
128	Base unit	=41A10AM010.M015-K125
129	Output module	=41A10AM010.M015-K125
130	Base unit	=41A10AM010.M015-K126
131	Analog input module	=41A10AM010.M015-K126
132	Base unit	=41A10AM010.M015-K127
133	Analog input module	=41A10AM010.M015-K127
134	Base unit	=41A10AM010.M015-K128
135	Analog input module	=41A10AM010.M015-K128
136	Base unit	=41A10AM010.M015-K130
137	Analog input module	=41A10AM010.M015-K130
138	Analog input module	=41A10AM010.M015-K131
139	Base unit	=41A10AM010.M015-K131
140	Output module	=41A10AM010.M015-K132
141	Base unit	=41A10AM010.M015-K132
142	Digital input module	=41A10AM010.M016-K122
143	Base unit	=41A10AM010.M016-K122
144	Output module	=41A10AM010.M016-K123
145	Base unit	=41A10AM010.M016-K123
146	Analog input module	=41A10AM010.M016-K124
147	Base unit	=41A10AM010.M016-K124
148	Analog input module	=41A10AM010.M016-K125
149	Base unit	=41A10AM010.M016-K125
150	Output module	=41A10AM010.M016-K126
151	Base unit	=41A10AM010.M016-K126
152	PN bundle IM 155-6PN ST	=41A10AM010.M013-K120
153	PN bundle IM 155-6PN ST	=41A10AM010.M014-K120
154	PN bundle IM 155-6PN ST	=41A10AM010.M015-K120
155	PN bundle IM 155-6PN ST	=41A10AM010.M016-K120

Terminal diagram

Terminal strip

+GENERAL_PLC-X1

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												PE_BAR			PE	=41A10AM010.M001-K121									==GENERAL_PLC=41A10AM010.M001/50.2

=43A10AZ010.Y001/22

2

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 1
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Proposed cable gland

Cable no

Terminal strip

+GENERAL_PLC-X2

Cable no

Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
			+UPSDB-X?	?	1			1	=41A10AB010.E001-F11		==GENERAL_PLC=41A10AB010.E001/1.1
			+UPSDB-X?	?	4			1	=41A10AB010.E001-F13		==GENERAL_PLC=41A10AB010.E001/1.3
			+UPSDB-X?	?	2			3	=41A10AB010.E001-F11		==GENERAL_PLC=41A10AB010.E001/1.1
			+UPSDB-X?	?	5			3	=41A10AB010.E001-F13		==GENERAL_PLC=41A10AB010.E001/1.3
			+UPSDB-X?	?	3/PE						==GENERAL_PLC=41A10AB010.E001/1.1
			+UPSDB-X?	?	6/PE						==GENERAL_PLC=41A10AB010.E001/1.4
			+UPSDB-X?	?	9/PE						==GENERAL_PLC=41A10AB010.E001/1.6
			+UPSDB-X?	?	12/PE						==GENERAL_PLC=41A10AB010.E001/1.8
			+UPSDB-X?	?	7			1	=41A10AB010.E001-F15		==GENERAL_PLC=41A10AB010.E001/1.5
			+UPSDB-X?	?	8			3	=41A10AB010.E001-F15		==GENERAL_PLC=41A10AB010.E001/1.6
			+UPSDB-X?	?	10			1	=41A10AB010.E001-F18		==GENERAL_PLC=41A10AB010.E001/1.8
			+UPSDB-X?	?	11			3	=41A10AB010.E001-F18		==GENERAL_PLC=41A10AB010.E001/1.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X2	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 2
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X2.1

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			P1	=41A10AM010.M010-K122									==GENERAL_PLC=41A10AB010.E001/2.1
												2			P2	=41A10AM010.M010-K122									==GENERAL_PLC=41A10AB010.E001/2.1
												5			P1	=41A10AM010.M010-K124									==GENERAL_PLC=41A10AB010.E001/2.3
												6			P2	=41A10AM010.M010-K124									==GENERAL_PLC=41A10AB010.E001/2.3
												13													==GENERAL_PLC=41A10AB010.E001/2.7
												14			1-	-X3N1K122									==GENERAL_PLC=41A10AB010.E001/2.8
												3			P1	=41A10AM010.M010-K123									==GENERAL_PLC=41A10AB010.E001/2.2
												4			P2	=41A10AM010.M010-K123									==GENERAL_PLC=41A10AB010.E001/2.2
												7			P1	=41A10AM010.M010-K125									==GENERAL_PLC=41A10AB010.E001/2.4
												8			P2	=41A10AM010.M010-K125									==GENERAL_PLC=41A10AB010.E001/2.4
												9			P1	=41A10AM010.M014-K124									==GENERAL_PLC=41A10AB010.E001/2.5
												10			P2	=41A10AM010.M014-K124									==GENERAL_PLC=41A10AB010.E001/2.6
												11			P1	=41A10AM010.M014-K125									==GENERAL_PLC=41A10AB010.E001/2.6
												12			P2	=41A10AM010.M014-K125									==GENERAL_PLC=41A10AB010.E001/2.7

Terminal diagram

Proposed cable gland

Cable no

Terminal strip

+GENERAL_PLC-X2.6

Cable no

Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1			1	=41A10AB010.E003-F11		==GENERAL_PLC=41A10AB010.E003/1.1
					2			3	=41A10AB010.E003-F11		==GENERAL_PLC=41A10AB010.E003/1.1
					3/PE						==GENERAL_PLC=41A10AB010.E003/1.1

Terminal diagram

Proposed cable gland

Cable no

Terminal strip

+GENERAL_PLC-X3M2

Cable no

Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1	●		1-	-X3N2K122		==GENERAL_PLC=41A10AB010.K001/29.1
						●		6	-X3N7M1		
					2	●		5-	-X3N7K122		==GENERAL_PLC=41A10AB010.K001/29.1
					3	●		1-	-X3N2K126		==GENERAL_PLC=41A10AB010.K001/29.3
					4	●		5-	-X3N7K123		==GENERAL_PLC=41A10AB010.K001/29.3
					5	●		1-	-X5N1K126		==GENERAL_PLC=41A10AB010.K001/29.6
					6	●		5-	-X5N7K126		==GENERAL_PLC=41A10AB010.K001/29.6
					7	●		1-	-X8N5K128		==GENERAL_PLC=41A10AB010.K001/29.8
					8	●		1-	-X8N5K128		==GENERAL_PLC=41A10AB010.K001/29.8
					9	●		2	-X3N1M1		==GENERAL_PLC=41A10AB010.K001/29.8

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N1K122

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1L			1	=41A10AM010.M010-K122									==GENERAL_PLC=41A10AM010.M010/400.1
												2L			2	=41A10AM010.M010-K122									==GENERAL_PLC=41A10AM010.M010/400.2
												3L			3	=41A10AM010.M010-K122									==GENERAL_PLC=41A10AM010.M010/400.3
												4L			4	=41A10AM010.M010-K122									==GENERAL_PLC=41A10AM010.M010/400.4
												1-			14	-X2.1									==GENERAL_PLC=41A10AM010.M010/400.1
															1-	-X3N1K123									

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N1K122	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 6
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N1K123

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1L			1	=41A10AM010.M010-K123									==GENERAL_PLC=41A10AM010.M010/401.1
												2L			2	=41A10AM010.M010-K123									==GENERAL_PLC=41A10AM010.M010/401.2
												3L			3	=41A10AM010.M010-K123									==GENERAL_PLC=41A10AM010.M010/401.3
												4L			4	=41A10AM010.M010-K123									==GENERAL_PLC=41A10AM010.M010/401.4
												1-			1-	-X3N1K122									==GENERAL_PLC=41A10AM010.M010/401.1
															1-	-X3N1K124									

6 8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N1K123	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 7
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Proposed cable gland | Cable no | Terminal strip +GENERAL_PLC-X3N1K124 | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1L			1	=41A10AM010.M010-K124		==GENERAL_PLC=41A10AM010.M010/402.1
					2L			2	=41A10AM010.M010-K124		==GENERAL_PLC=41A10AM010.M010/402.2
					3L			3	=41A10AM010.M010-K124		==GENERAL_PLC=41A10AM010.M010/402.3
					4L			4	=41A10AM010.M010-K124		==GENERAL_PLC=41A10AM010.M010/402.4
					1-			1-	-X3N1K123		==GENERAL_PLC=41A10AM010.M010/402.1
								1-	-X3N1K125		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N1K124	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 8
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Proposed cable gland | Cable no | Terminal strip +GENERAL_PLC-X3N1K125 | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1L			1	=41A10AM010.M010-K125		==GENERAL_PLC=41A10AM010.M010/403.1
					2L			2	=41A10AM010.M010-K125		==GENERAL_PLC=41A10AM010.M010/403.2
					3L			3	=41A10AM010.M010-K125		==GENERAL_PLC=41A10AM010.M010/403.3
					4L			4	=41A10AM010.M010-K125		==GENERAL_PLC=41A10AM010.M010/403.4
					1-			1-	-X3N1K124		==GENERAL_PLC=41A10AM010.M010/403.1
								1-	-X3N5K124		

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N1K125	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 9
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Proposed cable gland

Cable no

Terminal strip

+GENERAL_PLC-X3N1M1

Cable no

Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1	●		X80:1M	=41A10AM010.M010-K120		==GENERAL_PLC=41A10AB010.K001/20.1
					2	●		-	=41A10AB010.K001-T13		==GENERAL_PLC=41A10AB010.K001/20.1
								-	=41A10AB010.K001-T15		
								9	-X3M2		
					3	●		M	=41A10AM010.M010-K126		==GENERAL_PLC=41A10AB010.K001/20.3
					4	●		M	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AB010.K001/20.6
					5	●		1	-X3N2M1		==GENERAL_PLC=41A10AB010.K001/20.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N1M1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 10
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N2K122

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			1	-X3P2									==GENERAL_PLC=41A10AM010.M011/300.1
												5+													==GENERAL_PLC=41A10AM010.M011/300.5
												9+													==GENERAL_PLC=41A10AM010.M011/301.1
												13+			1+	-X3N2K123									==GENERAL_PLC=41A10AM010.M011/301.5
												1			1	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.1
												1-			1	-X3M2									==GENERAL_PLC=41A10AM010.M011/300.1
												2			2	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.2
												3			3	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.3
												4			4	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.4
												5			5	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.5
												5-													==GENERAL_PLC=41A10AM010.M011/300.6
												6			6	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.6
												7			7	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.7
												8			8	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/300.9
												9			9	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.1
												9-													==GENERAL_PLC=41A10AM010.M011/301.1
												10			10	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.2
												11			11	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.3
												12			12	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.4
												13			13	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.5
												13-			1-	-X3N2K123									==GENERAL_PLC=41A10AM010.M011/301.6
												14			14	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.6
												15			15	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.7
												16			16	=41A10AM010.M011-K122									==GENERAL_PLC=41A10AM010.M011/301.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N2K123

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			13+	-X3N2K122		==GENERAL_PLC=41A10AM010.M011/302.1
					5+						==GENERAL_PLC=41A10AM010.M011/302.5
					9+						==GENERAL_PLC=41A10AM010.M011/303.1
					13+			1+	-X3N2K124		==GENERAL_PLC=41A10AM010.M011/303.5
					1			1	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.1
					1-			13-	-X3N2K122		==GENERAL_PLC=41A10AM010.M011/302.1
					2			2	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.2
					3			3	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.3
					4			4	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.4
					5			5	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.5
					5-						==GENERAL_PLC=41A10AM010.M011/302.6
					6			6	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.6
					7			7	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.7
					8			8	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/302.9
					9			9	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.1
					9-						==GENERAL_PLC=41A10AM010.M011/303.1
					10			10	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.2
					11			11	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.3
					12			12	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.4
					13			13	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.5
					13-			1-	-X3N2K124		==GENERAL_PLC=41A10AM010.M011/303.6
					14			14	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.6
					15			15	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.7
					16			16	=41A10AM010.M011-K123		==GENERAL_PLC=41A10AM010.M011/303.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N2K124

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N2K125

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N2K124									==GENERAL_PLC=41A10AM010.M011/306.1
												5+													==GENERAL_PLC=41A10AM010.M011/306.5
												9+													==GENERAL_PLC=41A10AM010.M011/307.1
												13+			1+	-X3N3K122									==GENERAL_PLC=41A10AM010.M011/307.5
												1			1	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.1
												1-			13-	-X3N2K124									==GENERAL_PLC=41A10AM010.M011/306.1
												2			2	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.2
												3			3	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.3
												4			4	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.4
												5			5	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.5
												5-													==GENERAL_PLC=41A10AM010.M011/306.6
												6			6	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.6
												7			7	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.7
												8			8	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/306.9
												9			9	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.1
												9-													==GENERAL_PLC=41A10AM010.M011/307.1
												10			10	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.2
												11			11	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.3
												12			12	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.4
												13			13	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.5
												13-			1-	-X3N3K122									==GENERAL_PLC=41A10AM010.M011/307.6
												14			14	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.6
												15			15	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.7
												16			16	=41A10AM010.M011-K125									==GENERAL_PLC=41A10AM010.M011/307.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N2K126

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.1
												2			2	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.2
												3			3	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.3
												4			4	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.4
												5			5	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.5
												6			6	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.6
												7			7	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.7
												8			8	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/400.9
												1-			3	-X3M2									==GENERAL_PLC=41A10AM010.M011/400.1
												5-													==GENERAL_PLC=41A10AM010.M011/400.5
												9			9	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.1
												10			10	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.2
												11			11	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.3
												12			12	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.4
												13			13	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.5
												14			14	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.6
												15			15	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.7
												16			16	=41A10AM010.M011-K126									==GENERAL_PLC=41A10AM010.M011/401.9
												9-													==GENERAL_PLC=41A10AM010.M011/401.1
												13-			1-	-X3N3K125									==GENERAL_PLC=41A10AM010.M011/401.5

Terminal diagram

Proposed cable gland

Cable no

Terminal strip

+GENERAL_PLC-X3N2M1

Cable no

Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1	●		X80:1M	=41A10AM010.M011-K120		==GENERAL_PLC=41A10AB010.K001/21.1
						●		5	-X3N1M1		
					2	●		M	=41A10AM010.M011-K122		==GENERAL_PLC=41A10AB010.K001/21.3
					3	●		M	=41A10AM010.M011-K126		==GENERAL_PLC=41A10AB010.K001/21.6
					4	●		1	-X3N3M1		==GENERAL_PLC=41A10AB010.K001/21.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N2M1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 16
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N3K122

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N2K125									==GENERAL_PLC=41A10AM010.M012/300.1
												5+													==GENERAL_PLC=41A10AM010.M012/300.5
												9+													==GENERAL_PLC=41A10AM010.M012/301.1
												13+			1+	-X3N3K123									==GENERAL_PLC=41A10AM010.M012/301.5
												1			1	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.1
												1-			13-	-X3N2K125									==GENERAL_PLC=41A10AM010.M012/300.1
												2			2	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.2
												3			3	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.3
												4			4	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.4
												5			5	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.5
												5-													==GENERAL_PLC=41A10AM010.M012/300.6
												6			6	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.6
												7			7	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.7
												8			8	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/300.9
												9			9	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.1
												9-													==GENERAL_PLC=41A10AM010.M012/301.1
												10			10	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.2
												11			11	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.3
												12			12	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.4
												13			13	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.5
												13-			1-	-X3N3K123									==GENERAL_PLC=41A10AM010.M012/301.6
												14			14	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.6
												15			15	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.7
												16			16	=41A10AM010.M012-K122									==GENERAL_PLC=41A10AM010.M012/301.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N3K123

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N3K122									==GENERAL_PLC=41A10AM010.M012/302.1
												5+													==GENERAL_PLC=41A10AM010.M012/302.5
												9+													==GENERAL_PLC=41A10AM010.M012/303.1
												13+			1+	-X3N3K124									==GENERAL_PLC=41A10AM010.M012/303.5
												1			1	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.1
												1-			13-	-X3N3K122									==GENERAL_PLC=41A10AM010.M012/302.1
												2			2	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.2
												3			3	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.3
												4			4	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.4
												5			5	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.5
												5-													==GENERAL_PLC=41A10AM010.M012/302.6
												6			6	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.6
												7			7	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.7
												8			8	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/302.9
												9			9	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.1
												9-													==GENERAL_PLC=41A10AM010.M012/303.1
												10			10	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.2
												11			11	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.3
												12			12	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.4
												13			13	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.5
												13-			1-	-X3N3K124									==GENERAL_PLC=41A10AM010.M012/303.6
												14			14	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.6
												15			15	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.7
												16			16	=41A10AM010.M012-K123									==GENERAL_PLC=41A10AM010.M012/303.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N3K124

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N3K123									==GENERAL_PLC=41A10AM010.M012/304.1
												5+													==GENERAL_PLC=41A10AM010.M012/304.5
												9+													==GENERAL_PLC=41A10AM010.M012/305.1
												13+			1+	-X3N4K122									==GENERAL_PLC=41A10AM010.M012/305.5
												1			1	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.1
												1-			13-	-X3N3K123									==GENERAL_PLC=41A10AM010.M012/304.1
												2			2	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.2
												3			3	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.3
												4			4	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.4
												5			5	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.5
												5-													==GENERAL_PLC=41A10AM010.M012/304.6
												6			6	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.6
												7			7	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.7
												8			8	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/304.9
												9			9	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.1
												9-													==GENERAL_PLC=41A10AM010.M012/305.1
												10			10	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.2
												11			11	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.3
												12			12	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.4
												13			13	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.5
												13-			1-	-X3N4K122									==GENERAL_PLC=41A10AM010.M012/305.6
												14			14	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.6
												15			15	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.7
												16			16	=41A10AM010.M012-K124									==GENERAL_PLC=41A10AM010.M012/305.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N3K125

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.1
												2			2	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.2
												3			3	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.3
												4			4	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.4
												5			5	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.5
												6			6	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.6
												7			7	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.7
												8			8	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/400.9
												1-			13-	-X3N2K126									==GENERAL_PLC=41A10AM010.M012/400.1
												5-													==GENERAL_PLC=41A10AM010.M012/400.5
												9			9	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.1
												10			10	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.2
												11			11	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.3
												12			12	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.4
												13			13	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.5
												14			14	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.6
												15			15	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.7
												16			16	=41A10AM010.M012-K125									==GENERAL_PLC=41A10AM010.M012/401.9
												9-													==GENERAL_PLC=41A10AM010.M012/401.1
												13-			1-	-X3N3K126									==GENERAL_PLC=41A10AM010.M012/401.5

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N3K126

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.1
												2			2	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.2
												3			3	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.3
												4			4	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.4
												5			5	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.5
												6			6	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.6
												7			7	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.7
												8			8	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/402.9
												1-			13-	-X3N3K125									==GENERAL_PLC=41A10AM010.M012/402.1
												5-													==GENERAL_PLC=41A10AM010.M012/402.5
												9			9	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.1
												10			10	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.2
												11			11	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.3
												12			12	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.4
												13			13	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.5
												14			14	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.6
												15			15	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.7
												16			16	=41A10AM010.M012-K126									==GENERAL_PLC=41A10AM010.M012/403.9
												9-													==GENERAL_PLC=41A10AM010.M012/403.1
												13-			1-	-X3N4K125									==GENERAL_PLC=41A10AM010.M012/403.5

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N3M1

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4K122

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N3K124									==GENERAL_PLC=41A10AM010.M013/300.1
												5+													==GENERAL_PLC=41A10AM010.M013/300.5
												9+													==GENERAL_PLC=41A10AM010.M013/301.1
												13+			1+	-X3N4K123									==GENERAL_PLC=41A10AM010.M013/301.5
												1			1	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.1
												1-			13-	-X3N3K124									==GENERAL_PLC=41A10AM010.M013/300.1
												2			2	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.2
												3			3	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.3
												4			4	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.4
												5			5	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.5
												5-													==GENERAL_PLC=41A10AM010.M013/300.6
												6			6	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.6
												7			7	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.7
												8			8	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/300.9
												9			9	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.1
												9-													==GENERAL_PLC=41A10AM010.M013/301.1
												10			10	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.2
												11			11	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.3
												12			12	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.4
												13			13	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.5
												13-			1-	-X3N4K123									==GENERAL_PLC=41A10AM010.M013/301.6
												14			14	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.6
												15			15	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.7
												16			16	=41A10AM010.M013-K122									==GENERAL_PLC=41A10AM010.M013/301.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4K123

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N4K122									==GENERAL_PLC=41A10AM010.M013/302.1
												5+													==GENERAL_PLC=41A10AM010.M013/302.5
												9+													==GENERAL_PLC=41A10AM010.M013/303.1
												13+			1+	-X3N4K124									==GENERAL_PLC=41A10AM010.M013/303.5
												1			1	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.1
												1-			13-	-X3N4K122									==GENERAL_PLC=41A10AM010.M013/302.1
												2			2	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.2
												3			3	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.3
												4			4	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.4
												5			5	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.5
												5-													==GENERAL_PLC=41A10AM010.M013/302.6
												6			6	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.6
												7			7	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.7
												8			8	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/302.9
												9			9	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.1
												9-													==GENERAL_PLC=41A10AM010.M013/303.1
												10			10	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.2
												11			11	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.3
												12			12	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.4
												13			13	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.5
												13-			1-	-X3N4K124									==GENERAL_PLC=41A10AM010.M013/303.6
												14			14	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.6
												15			15	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.7
												16			16	=41A10AM010.M013-K123									==GENERAL_PLC=41A10AM010.M013/303.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4K124

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N4K123									==GENERAL_PLC=41A10AM010.M013/304.1
												5+													==GENERAL_PLC=41A10AM010.M013/304.5
												9+													==GENERAL_PLC=41A10AM010.M013/305.1
												13+			1+	-X3N5K122									==GENERAL_PLC=41A10AM010.M013/305.5
												1			1	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.1
												1-			13-	-X3N4K123									==GENERAL_PLC=41A10AM010.M013/304.1
												2			2	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.2
												3			3	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.3
												4			4	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.4
												5			5	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.5
												5-													==GENERAL_PLC=41A10AM010.M013/304.6
												6			6	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.6
												7			7	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.7
												8			8	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/304.9
												9			9	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.1
												9-													==GENERAL_PLC=41A10AM010.M013/305.1
												10			10	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.2
												11			11	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.3
												12			12	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.4
												13			13	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.5
												13-			1-	-X3N5K122									==GENERAL_PLC=41A10AM010.M013/305.6
												14			14	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.6
												15			15	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.7
												16			16	=41A10AM010.M013-K124									==GENERAL_PLC=41A10AM010.M013/305.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4K125

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.1
												2			2	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.2
												3			3	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.3
												4			4	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.4
												5			5	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.5
												6			6	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.6
												7			7	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.7
												8			8	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/400.9
												1-			13-	-X3N3K126									==GENERAL_PLC=41A10AM010.M013/400.1
												5-													==GENERAL_PLC=41A10AM010.M013/400.5
												9			9	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.1
												10			10	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.2
												11			11	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.3
												12			12	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.4
												13			13	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.5
												14			14	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.6
												15			15	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.7
												16			16	=41A10AM010.M013-K125									==GENERAL_PLC=41A10AM010.M013/401.9
												9-													==GENERAL_PLC=41A10AM010.M013/401.1
												13-			1-	-X3N4K126									==GENERAL_PLC=41A10AM010.M013/401.5

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4K126

Proposed cable gland | Cable no

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1			1	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.1
					2			2	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.2
					3			3	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.3
					4			4	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.4
					5			5	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.5
					6			6	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.6
					7			7	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.7
					8			8	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/402.9
					1-			13-	-X3N4K125		==GENERAL_PLC=41A10AM010.M013/402.1
					5-						==GENERAL_PLC=41A10AM010.M013/402.5
					9			9	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.1
					10			10	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.2
					11			11	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.3
					12			12	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.4
					13			13	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.5
					14			14	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.6
					15			15	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.7
					16			16	=41A10AM010.M013-K126		==GENERAL_PLC=41A10AM010.M013/403.9
					9-						==GENERAL_PLC=41A10AM010.M013/403.1
					13-			1-	-X3N4K127		==GENERAL_PLC=41A10AM010.M013/403.5

Revision	V1-01	Approved	
Department	E&I	Checked	
Edited by	CHRU02	Designed	
Date	28.08.2025		

ACS Amossys Digital Pvt. Ltd

CCM 3 PLC UPGRADATION

TATA STEEL LIMITED, GAMHARIA
GENERAL PLC (PLC Room)

Terminal diagram +GENERAL_PLC-X3N4K126

Ord. - no.:	2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 27
CAD - no.:	ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Client no.:		+GENERAL_PLC	

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4K127

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.1
												2			2	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.2
												3			3	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.3
												4			4	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.4
												5			5	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.5
												6			6	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.6
												7			7	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.7
												8			8	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/404.9
												1-			13-	-X3N4K126									==GENERAL_PLC=41A10AM010.M013/404.1
												5-													==GENERAL_PLC=41A10AM010.M013/404.5
												9			9	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.1
												10			10	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.2
												11			11	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.3
												12			12	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.4
												13			13	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.5
												14			14	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.6
												15			15	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.7
												16			16	=41A10AM010.M013-K127									==GENERAL_PLC=41A10AM010.M013/405.9
												9-													==GENERAL_PLC=41A10AM010.M013/405.1
												13-			1-	-X3N5K123									==GENERAL_PLC=41A10AM010.M013/405.5

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N4M1

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N5K122

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N4K124									==GENERAL_PLC=41A10AM010.M014/300.1
												5+													==GENERAL_PLC=41A10AM010.M014/300.5
												9+													==GENERAL_PLC=41A10AM010.M014/301.1
												13+			1+	-X3N6K122									==GENERAL_PLC=41A10AM010.M014/301.5
												1			1	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.1
												1-			13-	-X3N4K124									==GENERAL_PLC=41A10AM010.M014/300.1
												2			2	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.2
												3			3	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.3
												4			4	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.4
												5			5	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.5
												5-													==GENERAL_PLC=41A10AM010.M014/300.6
												6			6	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.6
												7			7	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.7
												8			8	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/300.9
												9			9	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.1
												9-													==GENERAL_PLC=41A10AM010.M014/301.1
												10			10	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.2
												11			11	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.3
												12			12	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.4
												13			13	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.5
												13-			1-	-X3N6K122									==GENERAL_PLC=41A10AM010.M014/301.6
												14			14	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.6
												15			15	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.7
												16			16	=41A10AM010.M014-K122									==GENERAL_PLC=41A10AM010.M014/301.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N5K123

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1			1	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.1
					2			2	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.2
					3			3	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.3
					4			4	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.4
					5			5	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.5
					6			6	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.6
					7			7	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.7
					8			8	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AM010.M014/400.9
					1-			13-	-X3N4K127		==GENERAL_PLC=41A10AM010.M014/400.1
					5-			1-	-X3N6K125		==GENERAL_PLC=41A10AM010.M014/400.5

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N5K124

Proposed cable gland | Cable no

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1L			1	=41A10AM010.M014-K124		==GENERAL_PLC=41A10AM010.M014/401.1
					2L			2	=41A10AM010.M014-K124		==GENERAL_PLC=41A10AM010.M014/401.2
					3L			3	=41A10AM010.M014-K124		==GENERAL_PLC=41A10AM010.M014/401.3
					4L			4	=41A10AM010.M014-K124		==GENERAL_PLC=41A10AM010.M014/401.4
					1-			1-	-X3N1K125		==GENERAL_PLC=41A10AM010.M014/401.1
								1-	-X3N5K125		

Proposed cable gland

31 33

Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N5K124	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC
Date	28.08.2025						

Page 32 From 58

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N5K125

Proposed cable gland | Cable no

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1L			1	=41A10AM010.M014-K125		==GENERAL_PLC=41A10AM010.M014/402.1
					2L			2	=41A10AM010.M014-K125		==GENERAL_PLC=41A10AM010.M014/402.2
					3L			3	=41A10AM010.M014-K125		==GENERAL_PLC=41A10AM010.M014/402.3
					4L			4	=41A10AM010.M014-K125		==GENERAL_PLC=41A10AM010.M014/402.4
					1-			1-	-X3N5K124		==GENERAL_PLC=41A10AM010.M014/402.1

Cable no | Proposed cable gland

32 34

Revision	V1-01	Approved		CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N5K125	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC
Department	E&I	Checked		TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001
Edited by	CHRU02	Designed		GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC
Date	28.08.2025						

Page 33 From 58

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N5M1

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1	●		X80:1M	=41A10AM010.M014-K120		==GENERAL_PLC=41A10AB010.K001/24.1
								4	-X3N4M1		
					2	●		M	=41A10AM010.M014-K122		==GENERAL_PLC=41A10AB010.K001/24.3
					3	●		M	=41A10AM010.M014-K123		==GENERAL_PLC=41A10AB010.K001/24.6
					4	●		M	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AB010.K001/24.8
					5	●		M	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AB010.K001/25.1
					6	●		M	=41A10AM010.M014-K128		==GENERAL_PLC=41A10AB010.K001/25.3
					7	●					==GENERAL_PLC=41A10AB010.K001/25.6
					8	●		1	-X3N6M1		==GENERAL_PLC=41A10AB010.K001/25.8

33 35

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N5M1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 34
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N6K122

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N5K122									==GENERAL_PLC=41A10AM010.M015/300.1
												5+													==GENERAL_PLC=41A10AM010.M015/300.5
												9+													==GENERAL_PLC=41A10AM010.M015/301.1
												13+			1+	-X3N6K123									==GENERAL_PLC=41A10AM010.M015/301.5
												1			1	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.1
												1-			13-	-X3N5K122									==GENERAL_PLC=41A10AM010.M015/300.1
												2			2	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.2
												3			3	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.3
												4			4	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.4
												5			5	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.5
												5-													==GENERAL_PLC=41A10AM010.M015/300.6
												6			6	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.6
												7			7	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.7
												8			8	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/300.9
												9			9	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.1
												9-													==GENERAL_PLC=41A10AM010.M015/301.1
												10			10	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.2
												11			11	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.3
												12			12	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.4
												13			13	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.5
												13-			1-	-X3N6K123									==GENERAL_PLC=41A10AM010.M015/301.6
												14			14	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.6
												15			15	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.7
												16			16	=41A10AM010.M015-K122									==GENERAL_PLC=41A10AM010.M015/301.9

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N6K122	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 35
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N6K123

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N6K122									==GENERAL_PLC=41A10AM010.M015/302.1
												5+													==GENERAL_PLC=41A10AM010.M015/302.5
												9+													==GENERAL_PLC=41A10AM010.M015/303.1
												13+			1+	-X3N6K124									==GENERAL_PLC=41A10AM010.M015/303.5
												1			1	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.1
												1-			13-	-X3N6K122									==GENERAL_PLC=41A10AM010.M015/302.1
												2			2	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.2
												3			3	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.3
												4			4	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.4
												5			5	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.5
												5-													==GENERAL_PLC=41A10AM010.M015/302.6
												6			6	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.6
												7			7	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.7
												8			8	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/302.9
												9			9	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.1
												9-													==GENERAL_PLC=41A10AM010.M015/303.1
												10			10	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.2
												11			11	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.3
												12			12	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.4
												13			13	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.5
												13-			1-	-X3N6K124									==GENERAL_PLC=41A10AM010.M015/303.6
												14			14	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.6
												15			15	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.7
												16			16	=41A10AM010.M015-K123									==GENERAL_PLC=41A10AM010.M015/303.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N6K124

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			13+	-X3N6K123									==GENERAL_PLC=41A10AM010.M015/304.1
												5+													==GENERAL_PLC=41A10AM010.M015/304.5
												9+													==GENERAL_PLC=41A10AM010.M015/305.1
												13+			1+	-X3N7K122									==GENERAL_PLC=41A10AM010.M015/305.5
												1			1	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.1
												1-			13-	-X3N6K123									==GENERAL_PLC=41A10AM010.M015/304.1
												2			2	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.2
												3			3	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.3
												4			4	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.4
												5			5	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.5
												5-													==GENERAL_PLC=41A10AM010.M015/304.6
												6			6	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.6
												7			7	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.7
												8			8	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/304.9
												9			9	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.1
												9-													==GENERAL_PLC=41A10AM010.M015/305.1
												10			10	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.2
												11			11	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.3
												12			12	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.4
												13			13	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.5
												13-			1-	-X3N7K122									==GENERAL_PLC=41A10AM010.M015/305.6
												14			14	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.6
												15			15	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.7
												16			16	=41A10AM010.M015-K124									==GENERAL_PLC=41A10AM010.M015/305.9

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N6K125

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N6M1

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1	●		X80:1M	=41A10AM010.M015-K120		==GENERAL_PLC=41A10AB010.K001/26.1
								8	-X3N5M1		
					2	●		M	=41A10AM010.M015-K122		==GENERAL_PLC=41A10AB010.K001/26.3
					3	●		M	=41A10AM010.M015-K125		==GENERAL_PLC=41A10AB010.K001/26.6
					4	●		M	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AB010.K001/26.8
					5	●		M	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AB010.K001/27.1
					6	●		1	-X3N7M1		==GENERAL_PLC=41A10AB010.K001/27.3

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N6M1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 39
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N7K122

Proposed cable gland | Cable no

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			13+	-X3N6K124		==GENERAL_PLC=41A10AM010.M016/300.1
					5+			2	-X3P2		==GENERAL_PLC=41A10AM010.M016/300.5
					1			1	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.1
					1-			13-	-X3N6K124		==GENERAL_PLC=41A10AM010.M016/300.1
					2			2	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.2
					3			3	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.3
					4			4	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.4
					5			5	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.5
					5-			2	-X3M2		==GENERAL_PLC=41A10AM010.M016/300.6
					6			6	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.6
					7			7	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.7
					8			8	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AM010.M016/300.9

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N7K122	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 40
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3N7K123

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.1
												2			2	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.2
												3			3	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.3
												4			4	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.4
												5			5	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.5
												6			6	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.6
												7			7	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.7
												8			8	=41A10AM010.M016-K123									==GENERAL_PLC=41A10AM010.M016/400.9
												1-			13-	-X3N6K125									==GENERAL_PLC=41A10AM010.M016/400.1
												5-			4	-X3M2									==GENERAL_PLC=41A10AM010.M016/400.5

Terminal diagram

Proposed cable gland

Cable no

Terminal strip

+GENERAL_PLC-X3N7M1

Cable no

Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1	●		X80:1M	=41A10AM010.M016-K120		==GENERAL_PLC=41A10AB010.K001/27.6
								6	-X3N6M1		
					2	●		M	=41A10AM010.M016-K122		==GENERAL_PLC=41A10AB010.K001/27.8
					3	●		M	=41A10AM010.M016-K123		==GENERAL_PLC=41A10AB010.K001/28.1
					4	●		M	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AB010.K001/28.3
					5	●		M	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AB010.K001/28.6
					6	●		1	-X3M2		==GENERAL_PLC=41A10AB010.K001/28.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X3N7M1	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 42
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X3P2

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1			1+	-X3N2K122									==GENERAL_PLC=41A10AB010.K001/29.1
															2	=41A10AB010.K001-F291									
												2			5+	-X3N7K122									==GENERAL_PLC=41A10AB010.K001/29.1
												3			1+	-X5N1K126									==GENERAL_PLC=41A10AB010.K001/29.5
															2	=41A10AB010.K001-F295									
												4			5+	-X5N7K126									==GENERAL_PLC=41A10AB010.K001/29.5
												5			1+	-X8N5K128									==GENERAL_PLC=41A10AB010.K001/29.7
															2	=41A10AB010.K001-F297									
												6			1+	-X8N5K128									==GENERAL_PLC=41A10AB010.K001/29.8

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N1K126

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N1K127

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N1K126		==GENERAL_PLC=41A10AM010.M010/501.1
					1-			5-	-X5N1K126		==GENERAL_PLC=41A10AM010.M010/501.1
					1			13	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.1
					2			9	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.1
					3			14	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.3
					4			10	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.3
					5+			1+	-X5N1K128		==GENERAL_PLC=41A10AM010.M010/501.6
					5-			1-	-X5N1K128		==GENERAL_PLC=41A10AM010.M010/501.6
					5			15	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.5
					6			11	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.5
					7			16	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.7
					8			12	=41A10AM010.M010-K127		==GENERAL_PLC=41A10AM010.M010/501.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N1K127	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 45
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N1K128

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N1K127		==GENERAL_PLC=41A10AM010.M010/600.1
					1-			5-	-X5N1K127		==GENERAL_PLC=41A10AM010.M010/600.1
					1			1	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.1
					2			5	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.1
					3			2	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.3
					4			6	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.3
					5+			1+	-X5N5K126		==GENERAL_PLC=41A10AM010.M010/600.6
					5-			1-	-X5N5K126		==GENERAL_PLC=41A10AM010.M010/600.6
					5			3	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.5
					6			7	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.5
					7			4	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.7
					8			8	=41A10AM010.M010-K128		==GENERAL_PLC=41A10AM010.M010/600.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N1K128	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 46
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N5K126

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N1K128		==GENERAL_PLC=41A10AM010.M014/500.1
					1-			5-	-X5N1K128		==GENERAL_PLC=41A10AM010.M014/500.1
					1			13	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.1
					2			9	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.1
					3			14	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.3
					4			10	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.3
					5+			1+	-X5N5K127		==GENERAL_PLC=41A10AM010.M014/500.6
					5-			1-	-X5N5K127		==GENERAL_PLC=41A10AM010.M014/500.6
					5			15	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.5
					6			11	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.5
					7			16	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.7
					8			12	=41A10AM010.M014-K126		==GENERAL_PLC=41A10AM010.M014/500.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N5K126	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 47
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N5K127

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N5K126		==GENERAL_PLC=41A10AM010.M014/600.1
					1-			5-	-X5N5K126		==GENERAL_PLC=41A10AM010.M014/600.1
					1			1	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.1
					2			5	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.1
					3			2	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.3
					4			6	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.3
					5+			1+	-X5N6K126		==GENERAL_PLC=41A10AM010.M014/600.6
					5-			1-	-X5N6K126		==GENERAL_PLC=41A10AM010.M014/600.6
					5			3	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.5
					6			7	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.5
					7			4	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.7
					8			8	=41A10AM010.M014-K127		==GENERAL_PLC=41A10AM010.M014/600.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N5K127	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 48
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N6K126

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N5K127		==GENERAL_PLC=41A10AM010.M015/500.1
					1-			5-	-X5N5K127		==GENERAL_PLC=41A10AM010.M015/500.1
					1			13	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.1
					2			9	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.1
					3			14	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.3
					4			10	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.3
					5+			1+	-X5N6K127		==GENERAL_PLC=41A10AM010.M015/500.6
					5-			1-	-X5N6K127		==GENERAL_PLC=41A10AM010.M015/500.6
					5			15	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.5
					6			11	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.5
					7			16	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.7
					8			12	=41A10AM010.M015-K126		==GENERAL_PLC=41A10AM010.M015/500.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N6K126	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 49
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N6K127

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N6K126		==GENERAL_PLC=41A10AM010.M015/501.1
					1-			5-	-X5N6K126		==GENERAL_PLC=41A10AM010.M015/501.1
					1			13	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.1
					2			9	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.1
					3			14	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.3
					4			10	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.3
					5+			1+	-X5N6K128		==GENERAL_PLC=41A10AM010.M015/501.6
					5-			1-	-X5N6K128		==GENERAL_PLC=41A10AM010.M015/501.6
					5			15	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.5
					6			11	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.5
					7			16	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.7
					8			12	=41A10AM010.M015-K127		==GENERAL_PLC=41A10AM010.M015/501.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N6K127	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 50
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Proposed cable gland

Terminal strip

+GENERAL_PLC-X5N6K128

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N6K127		==GENERAL_PLC=41A10AM010.M015/502.1
					1-			5-	-X5N6K127		==GENERAL_PLC=41A10AM010.M015/502.1
					1			13	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.1
					2			9	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.1
					3			14	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.3
					4			10	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.3
					5+			1+	-X5N6K130		==GENERAL_PLC=41A10AM010.M015/502.6
					5-			1-	-X5N6K130		==GENERAL_PLC=41A10AM010.M015/502.6
					5			15	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.5
					6			11	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.5
					7			16	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.7
					8			12	=41A10AM010.M015-K128		==GENERAL_PLC=41A10AM010.M015/502.8

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N6K130

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N6K131

| Proposed cable gland | | Cable no | | |

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N6K132

Proposed cable gland | Cable no

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N6K131		==GENERAL_PLC=41A10AM010.M015/600.1
					1-			5-	-X5N6K131		==GENERAL_PLC=41A10AM010.M015/600.1
					1			1	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.1
					2			5	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.1
					3			2	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.3
					4			6	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.3
					5+			1+	-X5N7K124		==GENERAL_PLC=41A10AM010.M015/600.6
					5-			1-	-X5N7K124		==GENERAL_PLC=41A10AM010.M015/600.6
					5			3	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.5
					6			7	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.5
					7			4	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.7
					8			8	=41A10AM010.M015-K132		==GENERAL_PLC=41A10AM010.M015/600.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N6K132	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 54
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N7K124

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N6K132		==GENERAL_PLC=41A10AM010.M016/500.1
					1-			5-	-X5N6K132		==GENERAL_PLC=41A10AM010.M016/500.1
					1			13	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.1
					2			9	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.1
					3			14	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.3
					4			10	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.3
					5+			1+	-X5N7K125		==GENERAL_PLC=41A10AM010.M016/500.6
					5-			1-	-X5N7K125		==GENERAL_PLC=41A10AM010.M016/500.6
					5			15	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.5
					6			11	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.5
					7			16	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.7
					8			12	=41A10AM010.M016-K124		==GENERAL_PLC=41A10AM010.M016/500.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N7K124	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 55
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N7K125

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N7K124		==GENERAL_PLC=41A10AM010.M016/501.1
					1-			5-	-X5N7K124		==GENERAL_PLC=41A10AM010.M016/501.1
					1			13	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.1
					2			9	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.1
					3			14	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.3
					4			10	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.3
					5+			1+	-X5N7K126		==GENERAL_PLC=41A10AM010.M016/501.6
					5-			1-	-X5N7K126		==GENERAL_PLC=41A10AM010.M016/501.6
					5			15	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.5
					6			11	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.5
					7			16	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.7
					8			12	=41A10AM010.M016-K125		==GENERAL_PLC=41A10AM010.M016/501.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N7K125	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 56
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X5N7K126

Proposed cable gland | Cable no | Cable no | Proposed cable gland

Remark	M&C-Position	Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type	Page / path
					1+			5+	-X5N7K125		==GENERAL_PLC=41A10AM010.M016/600.1
					1-			5-	-X5N7K125		==GENERAL_PLC=41A10AM010.M016/600.1
					1			1	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.1
					2			5	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.1
					3			2	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.3
					4			6	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.3
					5+			4	-X3P2		==GENERAL_PLC=41A10AM010.M016/600.6
					5-			6	-X3M2		==GENERAL_PLC=41A10AM010.M016/600.6
					5			3	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.5
					6			7	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.5
					7			4	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.7
					8			8	=41A10AM010.M016-K126		==GENERAL_PLC=41A10AM010.M016/600.8

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X5N7K126	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 57
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Terminal diagram

Terminal strip

+GENERAL_PLC-X8N5K128

Proposed cable gland									Cable no								Cable no								Proposed cable gland
Remark	M&C-Position								Cable type	External target designation	Connection point	Terminal	Jumper	Signal	Connection point	Internal target designation	Cable type								Page / path
												1+			5	-X3P2									==GENERAL_PLC=41A10AM010.M014/900.2
															6	-X3P2									
												1-			7	-X3M2									==GENERAL_PLC=41A10AM010.M014/900.3
															8	-X3M2									
												1			1	=41A10AM010.M014-K128									==GENERAL_PLC=41A10AM010.M014/900.1
												2			3	=41A10AM010.M014-K128									==GENERAL_PLC=41A10AM010.M014/900.1
												3			5	=41A10AM010.M014-K128									==GENERAL_PLC=41A10AM010.M014/900.2

Revision	V1-01	Approved		ACS Amossys Digital Pvt. Ltd	CCM 3 PLC UPGRADATION	Terminal diagram +GENERAL_PLC-X8N5K128	Ord. - no.: 2300075403/J11, 09.07.2025	==GENERAL_PLC	Page 58
Department	E&I	Checked			TATA STEEL LIMITED, GAMHARIA		CAD - no.: ADPL/25-26/045/TSLG/01	=43A10AZ000.X001	From 58
Edited by	CHRU02	Designed			GENERAL PLC (PLC Room)		Client no.:	+GENERAL_PLC	
Date	28.08.2025								

Parts list

Quantity	Designation / Description	Producer / Supplier	Order number Type number		Device tag M&C-Position
1 pc.	Circuit breaker	SIEMENS	5SL42067RC BETAGARD 5SL4,10KA		=41A10AB010.E001-F11
1 pc.	Circuit breaker	SIEMENS	5SL42107RC BETAGARD 5SL4,10KA		=41A10AB010.E001-F13
1 pc.	Circuit breaker	SIEMENS	5SL42107RC BETAGARD 5SL4,10KA		=41A10AB010.E001-F15
1 pc.	Circuit breaker	SIEMENS	5SL42107RC BETAGARD 5SL4,10KA		=41A10AB010.E001-F18
1 pc.	Position switch	SIEMENS	3SE5250-0BC05 SIRIUS 3SE5		=41A10AB010.E003-B15
1 pc.	Position switch	SIEMENS	3SE5250-0BC05 SIRIUS 3SE5		=41A10AB010.E003-B21
1 pc.	LED Batten	REPUTED			=41A10AB010.E003-E15
1 pc.	LED Batten	REPUTED			=41A10AB010.E003-E21
1 pc.	Circuit breaker	SIEMENS	5SL42207RC BETAGARD 5SL4,10KA		=41A10AB010.E003-F11
1 pc.	Universal switch socket	ANCHOR ELECTRICALS			=41A10AB010.E003-S12
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F201
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F203
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F205
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F207
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F211
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F213
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F215
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F217
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F221
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F223
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F225
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F227
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F231
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F233
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F235
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F237
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F241
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F243
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F245

Parts list

Quantity	Designation / Description	Producer / Supplier	Order number Type number		Device tag M&C-Position
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F247
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F251
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F253
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F255
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F257
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F261
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F263
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F265
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F267
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F271
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F273
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F275
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F277
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F281
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F283
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F285
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F287
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F291
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F293
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F295
1 pc.	Circuit breaker	SIEMENS	5SL41067RC BETAGARD 5SL4,10KA		=41A10AB010.K001-F297
1 pc.	Power supply	SIEMENS	6EP1336-1LB00 SITOP PSU100L		=41A10AB010.K001-T13
1 pc.	Redundancy module	SIEMENS	6EP4347-7RB00-0AX0 SITOP RED1200		=41A10AB010.K001-T14
1 pc.	Power supply	SIEMENS	6EP1336-1LB00 SITOP PSU100L		=41A10AB010.K001-T15
1 pc.	Rack	SIEMENS	6ES7400-1JA01-0AA0 S7-400 UR2	TSL SCOPE	=41A10AM010.M001-K120
1 pc.	Power supply	SIEMENS	6ES7407-0DA02-0AA0 S7-400 PS407	TSL SCOPE	=41A10AM010.M001-K121
1 pc.	Central processing unit	SIEMENS	6ES7414-3XM05-0AB0 S7-400 CPU414-3	TSL SCOPE	=41A10AM010.M001-K122
1 pc.	Bus adapter	SIEMENS	6ES7193-6AR00-0AA0 SIMATIC ET200SP BA	TSL SCOPE	=41A10AM010.M001-K122
1 pc.	Memory card	SIEMENS	6ES7952-1AP00-0AA0 S7-400	TSL SCOPE	=41A10AM010.M001-K122

Parts list

Quantity	Designation / Description	Producer / Supplier	Order number Type number		Device tag M&C-Position
1 pc.	Profinet Comm. module	SIEMENS	6GK7443-1EX20-0XE0 S7-400 CP443-1	TSL SCOPE	=41A10AM010.M001-K123
1 pc.	Communication processor	SIEMENS	6GK7443-1GX30-0XE0 S7-400 CP443-1 ADVANCED	TSL SCOPE	=41A10AM010.M001-K124
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M010-K120
1 pc.	Digital output module	SIEMENS	6ES7132-6FD00-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP20-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K122
1 pc.	Digital output module	SIEMENS	6ES7132-6FD00-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP20-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K123
1 pc.	Digital output module	SIEMENS	6ES7132-6FD00-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K124
1 pc.	Base unit	SIEMENS	6ES7193-6BP20-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K124
1 pc.	Digital output module	SIEMENS	6ES7132-6FD00-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP20-0BB1 SIMATIC ET 200SP		=41A10AM010.M010-K125
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M010-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M010-K126
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M010-K127
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M010-K127
1 pc.	Output module	SIEMENS	6ES7135-6HD00-0BA1 SIMATIC ET200SP		=41A10AM010.M010-K128
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M010-K128
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M011-K120
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M011-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M011-K122
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M011-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M011-K123
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M011-K124
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M011-K124
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M011-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M011-K125
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M011-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M011-K126
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M012-K120

Parts list

Quantity	Designation / Description	Producer / Supplier	Order number Type number		Device tag M&C-Position
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M012-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M012-K122
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M012-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M012-K123
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M012-K124
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M012-K124
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M012-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M012-K125
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M012-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M012-K126
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M013-K120
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M013-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M013-K122
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M013-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M013-K123
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M013-K124
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M013-K124
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M013-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M013-K125
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M013-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M013-K126
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M013-K127
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M013-K127
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M014-K120
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M014-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M014-K122
1 pc.	Output module	SIEMENS	6ES7132-6BF01-0BA0 SIMATIC ET200SP 132		=41A10AM010.M014-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M014-K123
1 pc.	Digital output module	SIEMENS	6ES7132-6FD00-0BB1 SIMATIC ET 200SP		=41A10AM010.M014-K124

Parts list

Quantity	Designation / Description	Producer / Supplier	Order number Type number		Device tag M&C-Position
1 pc.	Base unit	SIEMENS	6ES7193-6BP20-0BB1 SIMATIC ET 200SP		=41A10AM010.M014-K124
1 pc.	Digital output module	SIEMENS	6ES7132-6FD00-0BB1 SIMATIC ET 200SP		=41A10AM010.M014-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP20-0BB1 SIMATIC ET 200SP		=41A10AM010.M014-K125
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M014-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M014-K126
1 pc.	Output module	SIEMENS	6ES7135-6HD00-0BA1 SIMATIC ET200SP		=41A10AM010.M014-K127
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M014-K127
1 pc.	Counter module	SIEMENS	6ES7138-6AA01-0BA0 SIMATIC ET 200SP		=41A10AM010.M014-K128
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M014-K128
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M015-K120
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M015-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M015-K122
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M015-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M015-K123
1 pc.	Input module	SIEMENS	6ES7131-6BH01-0BA0 SIMATIC ET200SP		=41A10AM010.M015-K124
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M015-K124
1 pc.	Output module	SIEMENS	6ES7132-6BH01-0BA0 SIMATIC ET 200SP		=41A10AM010.M015-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M015-K125
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M015-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M015-K126
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M015-K127
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M015-K127
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M015-K128
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M015-K128
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M015-K130
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M015-K130
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M015-K131
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M015-K131
1 pc.	Output module	SIEMENS	6ES7135-6HD00-0BA1 SIMATIC ET200SP		=41A10AM010.M015-K132

Parts list

Quantity	Designation / Description	Producer / Supplier	Order number Type number		Device tag M&C-Position
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M015-K132
1 pc.	PN bundle IM 155-6PN ST	SIEMENS	6ES7155-6AA02-0BN0 SIMATIC ET200SP IM155-6PN ST		=41A10AM010.M016-K120
1 pc.	Digital input module	SIEMENS	6ES7131-6BF01-0BA0 SIMATIC ET200SP 131		=41A10AM010.M016-K122
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M016-K122
1 pc.	Output module	SIEMENS	6ES7132-6BF01-0BA0 SIMATIC ET200SP 132		=41A10AM010.M016-K123
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M016-K123
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M016-K124
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M016-K124
1 pc.	Analog input module	SIEMENS	6ES7134-6HD01-0BA1 SIMATIC ET 200SP		=41A10AM010.M016-K125
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0BA0 DP ET200SP 193		=41A10AM010.M016-K125
1 pc.	Output module	SIEMENS	6ES7135-6HD00-0BA1 SIMATIC ET200SP		=41A10AM010.M016-K126
1 pc.	Base unit	SIEMENS	6ES7193-6BP00-0DA0 DP ET200SP 193		=41A10AM010.M016-K126