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HELLER	
H 10000 MC	
OEM JOB NO.: M54793	YEAR OF MANUFACT.: 2016
PO NO.: XXXXXXXXX	BRASS TAG NO.: BT P????????? OP NO.: OP5.13
ELECTRICAL DRAWINGS:	xxxxxxxxxE
HYDRAULIC DRAWINGS:	xxxxxxxxxH
PNEUMATIC DRAWINGS:	xxxxxxxxxP
LUBE DRAWINGS:	xxxxxxxxxL
COOLANT DRAWINGS:	xxxxxxxxxC
LINE VOLTAGE:	480Y/277VAC 3PHASE, 4w, 60Hz
CONTROL VOLTAGE:	24VDC
FULL LOAD CURRENT:	72 A
LARGEST MOTOR OR LOAD:	19.5 A
MAXIMUM INTERRUPTING CAPACITY (RMS):	?? kA
MAIN FUSE (J-CLASS):	80 A
PANEL SCCR:	65 kA
ENCLOSURE TYPE:	12
INDUSTRIEL CONTROL PANEL FOR INDUSTRIAL MACHINERY	

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	08.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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		+GI		2	table of contents	05.08.2016	AHP1/HAS
		+GI		2.a	table of contents	05.08.2016	AHP1/HAS
		+GI		2.b	table of contents	05.08.2016	AHP1/HAS
		+GI		2.c	table of contents	05.08.2016	AHP1/HAS
		+GI		2.d	table of contents	05.08.2016	AHP1/HAS
		+GI		2.e	table of contents	05.08.2016	AHP1/HAS
		+GI		2.f	table of contents	05.08.2016	AHP1/HAS
		+GI		2.g	table of contents	05.08.2016	AHP1/HAS
		+GI		2.h	table of contents	05.08.2016	AHP1/HAS
		+GI		2.i	table of contents	05.08.2016	AHP1/HAS
		+GI		3	Short circuit current rating, evaluation	05.04.2016	AHP3/RIG
		+GI		4	Short circuit current rating, evaluation	26.01.2016	AHP3/RIG
		+GI		5	Short circuit current rating, evaluation	26.01.2016	AHP3/RIG
		+GI		6	Short circuit current rating, evaluation	26.01.2016	AHP3/RIG
		+GI		7	Short circuit current rating, evaluation	05.04.2016	AHP5/EWD
		+GI		8	Reserve page 8-10	26.01.2016	AHP3/RIG
		+GI		11	Machine data sheet	27.06.2016	AHP3/RIG
		+GI		12	Overview fuses and note	04.04.2016	AHP1/HAS
		+GI		13	Machine overview	04.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	14	Bus topology DRIVE-CLiQ	18.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	15	Bus topology Ethernet	26.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	16	Bus topology Profibus	19.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	17	Overview of power circuits	22.03.2016	AHP5/EWD
		+EC1	Control cabinet mounting panel	18	Overview of power circuits	24.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	19	Overview of power circuits	05.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	20	Supply480V AC main switch	27.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	21	power supply 480V AC (E1)	15.06.2016	AHP3/RIG

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
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54793	&E	+EC1 Control cabinet mounting panel	22		power supply 480V AC (E1)	05.04.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	23		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	24		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	25		PE distribution	04.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	26		PE distribution options	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	27		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	28		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	29		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	30		Auxiliary drives	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	31		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	32		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	33		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	34		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	35		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	36		Auxiliary drives	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	37		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	38		Auxiliary drives	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	39		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	40		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	41		Reserve page 41-57	10.02.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	58		Safety door drive, workpiece loading station	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	60		Drive circuit feed in/feed back module	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	61		Drive circuit C1-axis	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	62		Drive circuit X-axis	22.03.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	63		Drive circuit Y-axis	22.03.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	64		Drive circuit Z1-axis	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	65		Drive circuit Z2-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	66		Drive circuit CT1axis	15.06.2016	AHP3/RIG

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54793	&E	+EC1 Control cabinet mounting panel	67		Drive circuit ZT1-axis	22.03.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	68		Drive circuit B-axis	22.03.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	69		Drive circuit CM-axis	22.03.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	70		Drive circuit XM-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	71		Reserve Drive circuit YM-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	72		Reserve Drive circuit ZM-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	73		Reserve Drive circuit BM-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	74		Reserve Drive circuit BP-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	75		Reserve Drive circuit BR-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	76		Reserve Drive circuit U-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	77		reserve drive circuit C-axis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	78		Reserve drive switching	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	79		Drive circuit Voltage Sensing Module	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	80		Reserve Drive circuit, temperature evaluation, F-series torque motor	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	81		Reserve Drive circuit, external encoder evaluation (measuring scales), Fanuc only	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	82		Reserve HPC/PSC gear shifting	22.01.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	83		Reserve Monitoring: Reference point / Ext. encoder for gear unit	31.05.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	84		Brake and lock control	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	85		Unclamp tool in spindle	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	86		Expansion assembly NC	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	87		Drive circuit NC	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	88		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	89		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	90		power supply 120V AC	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	91		Temperature display Rittal reserve 120V AC supply	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	92		power supply 120V AC	27.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	93		Reserve Supply 120V AC	22.03.2016	AHP5/EWD

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54793	&E	+EC1 Control cabinet mounting panel	94		power supply 120V AC	27.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	95		MENCOM - interface	09.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	96		Reserve page 96-99	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	100		power supply 24V DC	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	101		power supply 24V DC	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	102		power supply 24V DC	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	103		power supply 24V DC	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	104		power supply 24V DC	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	105		power supply 24V DC	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	106		power supply 24V DC	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	107		power supply 24V DC options	03.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	108		Reserve page 108-119	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	120		measuring probe	31.05.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	121		drill fracture sensing	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	122		Tool coding	31.05.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	123		Tool cleaning device, interface runtime/quantity recording	26.01.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	124		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	125		Vibration analysis	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	126		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	127		Control cabinet door lock	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	128		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	129		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	130		Reserve	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	131		work condition emergency stop/work area	11.02.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	132		work condition workpiece handling	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	133		Reserve operating precondition	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	134		Reserve Operating precondition rack-type tool magazine, release additional brake Y-axis	19.04.2016	AHP3/RIG

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
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54793	&E	+EC1	Control cabinet mounting panel	135	Reserve Operating precondition, pallet changer, rotary magazine, rotary magazine, rotary plate	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	136	work condition external loading	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	137	work condition external loading	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	138	Reserve page 137-139	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	140	Master Relais	04.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	141	Controls	03.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	142	Controls	03.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	143	Two-handed operation tool magazine	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	144	Reserve page 144 selection	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	145	Volume sensor for pallet clamping check	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	146	Volume sensor, attachment head clamping, interface adapter	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	147	Interface coolant system, interface cooling unit	09.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	148	Volume sensor, spindle extension	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	149	Reserve Interface for coolant mist extraction unit	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	150	Reserve Interface for coolant mist extraction unit	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	151	Reserve Minimal quantity lubrication interface	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	152	Rack-type magazine measurement	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	153	Work area safety door tool setting station	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	154	Workpiece loading station (front) safety door, light curtain	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	155	Reserve, Workpiece loading station safety door operating side, work area / workpiece loading station rotary plate	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	156	Safety door of work area/tool setting station, rack-type tool magazine maintenance door	22.03.2016	AHP5/EWD
		+EC1	Control cabinet mounting panel	157	Reserve, Rotary magazine maintenance door, workpiece setting station/rotary magazine safety door closed (CMS)	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	158	Safety door loading top loader	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	159	Safety door maintenance area 1 + 2 media supply / maintenance area	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	160	Reserve page 160-163	20.01.2016	AHP1/HAS

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		+EC1	Control cabinet mounting panel	165	Reserve	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	166	Tool drawer 1 + 2, rack-type tool magazine	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	167	Reserve page 167-169	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	170	Interface external loading	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	171	Reserve page 171	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	172	Emergency stop to external loading	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	173	Safety door work area/workpiece setting station to external loading	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	174	Loading safety door	22.01.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	175	Profibus DP external loading	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	176	Reserve page 176 - 183	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	184		04.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	185	Industrial Ethernet	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	186	Profibus DP Field bus coupling	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	187	Profibus DP diagnostics repeater	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	188	Reserve Barcode reader, handheld scanner with Ethernet	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	189	Reserve	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	190	Reserve	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	191	OP012/TCU main operating panel	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	192	Machine operating panel, main operating panel	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	193	Machine operating panel, main operating panel	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	194	Approval main operator panel	27.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	195	Operating mode selection, main operating panel	06.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	196	Hand-held operating unit main operating unit	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	197	Reserve, control panel rear wall media supply	20.01.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	198	Tool setting station magazine control panel	02.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	199	Tool setting station magazine control panel	04.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	200	Interface for rack-type magazine handheld operating unit	20.01.2016	AHP1/HAS

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		+EC1 Control cabinet mounting panel	202		Reserve Workpiece setting station operator panel	09.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	203		Reserve workpiece loading station operating panel preset start	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	204		Workpiece setting station operator panel	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	205		Workpiece setting station operator panel	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	206		Reserve PICK32-X300	04.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	207		Overview of inputs/outputs control cabinet	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	208		Overview of inputs/outputs control cabinet	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	209		Reserve Overview of inputs/outputs control cabinet	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	210		Profibus interface	09.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	211		Reserve page 211-218 Profibus-Interface	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	219		Reserve Powermodul 24V DC	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	220		Power module 24V DC	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	221		INSE1 - INSE4 INSE5 - INSE12	06.06.2016	OE1/SMC
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		+EC1 Control cabinet mounting panel	223		INSE21 - INSE24 INSE25 - INSE28	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	224		INSE29 - INSE32	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	225		Reserve page 225-230	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	226		Reserve page 225-230	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	231		OUTSE1 - OUTSE3 OUTSE4 - OUTSE6	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	232		OUTSE7 - OUTSE9 OUTSE10 - OUTSE12	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	233		OUTSE13 - OUTSE15 OUTSE16 - OUTSE17	18.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	234		OUTSE18 - OUTSE19	18.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	235		OUTSE20 - OUTSE22	04.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	236		Reserve page 236-240	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	241		Reserve page 241-318	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	319		Power module 24V DC	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	320		I20.0 - I20.7 I21.0 - I21.7	15.06.2016	AHP3/RIG

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	05.08.2016	AHP1/HAS			
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		+EC1 Control cabinet mounting panel	322		I24.0 - I24.7 I25.0 - I25.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	323		I26.0 - I26.7 I27.0 - I27.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	324		Reserve I28.0 - I28.7 I29.0 - I29.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	325		I30.0 - I30.7 I31.0 - I31.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	326		Reserve I32.0 - I32.7 I33.0 - I33.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	327		Reserve I34.0 - I34.7 I35.0 - I35.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	328		I36.0 - I36.7 I37.0 - I37.7	10.02.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	329		I38.0 - I38.7 Reserve I39.0 - I39.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	330		Reserve I212.0 - I212.7 I213.0 - I213.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	331		Reserve I214.0 - I214.7 I215.0 - I215.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	332		Reserve I216.0 - I216.7 Reserve I217.0 - I217.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	333		Reserve I218.0 - I218.7 I219.0 - I219.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	334		Reserve I220.0 - I220.7 I221.0 - I221.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	335		Reserve page 335-336	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	337		IW308 - IW310 IW312 - IW314	26.01.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	338		Reserve IW372 - IW374 IW376 - IW378	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	339		Reserve IW379 - IW381 IW382 - IW384	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	340		Q40.0 - Q40.7 Q41.0 - Q41.7	09.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	341		Q42.0 - Q42.7 Reserve Q43.0 - Q43.7	24.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	342		Reserve Q44.0 - Q44.7 Q45.0 - Q45.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	343		Reserve Q46.0 - Q46.7 Q47.0 - Q47.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	344		Reserve Q48.0 - Q48.7 Q49.0 - Q49.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	345		Q50.0 - Q50.7 Q51.0 - Q51.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	346		Q52.0 - Q52.7 Q53.0 - Q53.7	04.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	347		Reserve Q54.0 - Q54.7 Q55.0 - Q55.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	348		Reserve Q56.0 - Q56.7 Q57.0 - Q57.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	349		Reserve Q58.0 - Q58.7 Q59.0 - Q59.7	20.01.2016	AHP1/HAS

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	05.08.2016	AHP1/HAS			
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		+EC1 Control cabinet mounting panel	351		Reserve Q214.0 - Q214.7 Q215.0 - Q215.7	06.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	352		Reserve Q216.0 - Q216.7 Q217.0 - Q217.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	353		Reserve Q218.0 - Q218.7 Q219.0 - Q219.7	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	354		Reserve Q220.0 - Q220.7 Q221.0 - Q221.7	20.01.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	355		Reserve page 355-359	20.01.2016	AHP1/HAS
		+H1 HELP1	360		Overview of inputs/outputs, HELP 1/1	04.04.2016	AHP1/HAS
		+H1 HELP1	361		Q61.0 - Q61.7	02.06.2016	AHP3/RIG
		+H1 HELP1	362		Reserve I/Q62.x I/Q63.x	02.06.2016	AHP3/RIG
		+H1 HELP1	363		I64.0 - I64.7 I65.0 - I65.7	02.03.2016	AHP3/RIG
		+H1 HELP1	364		I66.0 - I66.7 I67.0 - I67.7	22.03.2016	AHP5/EWD
		+H1 HELP1	365		IW300 - IW306 I/Q69.0 - I/Q69.7	04.04.2016	AHP1/HAS
		+H1 HELP1	366		Reserve I/Q70.x	02.06.2016	AHP3/RIG
		+H1 HELP1	367		Q71.0 - Q71.7 I72.0 - I72.7	04.04.2016	AHP1/HAS
		+H1 HELP1	368		Q73.0 - Q73.7 Reserve I/Q74.n	04.04.2016	AHP1/HAS
		+H1 HELP1	369		Reserve IW120 - IW123 QW120 - QW123	20.01.2016	AHP1/HAS
		+H1 HELP1	370		Reserve Q216.0 - Q216.7	04.04.2016	AHP1/HAS
		+H1 HELP1	371		Reserve page 371-376	20.01.2016	AHP1/HAS
		+H1 HELP1	377		Overview of inputs/outputs, HELP 1/2	04.04.2016	AHP1/HAS
		+H1 HELP1	378		Reserve Q78.0 - Q78.7	06.06.2016	OE1/SMC
		+H1 HELP1	379		I79.0 - I79.7 I/Q80.0 - I/Q80.7	04.04.2016	AHP1/HAS
		+H1 HELP1	380		I/Q81.0 - I/Q81.7 I/Q82.0 - I/Q82.7	04.04.2016	AHP1/HAS
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		+H1 HELP1	382		I/Q85.0 - I/Q85.7 I/Q86.0 - I86.7	04.04.2016	AHP1/HAS
		+H1 HELP1	384		I/Q87.0 - I/Q87.7 I/Q88.0 - I88.7	04.04.2016	AHP1/HAS
		+H1 HELP1	385		I/Q89.0 - I/Q89.7 Q90.0 - Q90.7	04.04.2016	AHP1/HAS
		+H1 HELP1	386		I217.0 - I217.7 I218.0 - I218.7	31.05.2016	AHP3/RIG
		+H1 HELP1	387		I/Q90.0 - I/Q90.7	04.04.2016	AHP1/HAS

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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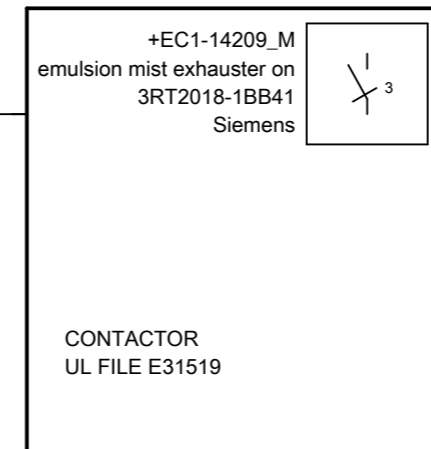
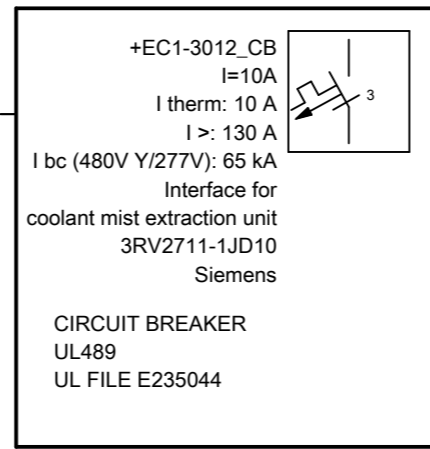
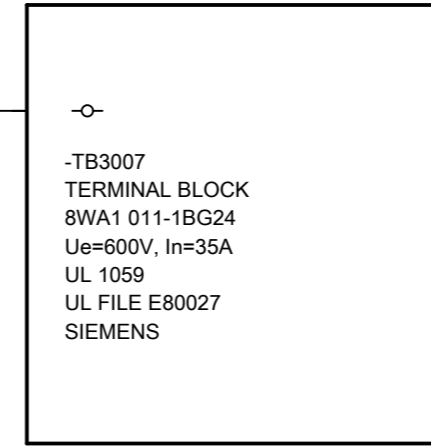
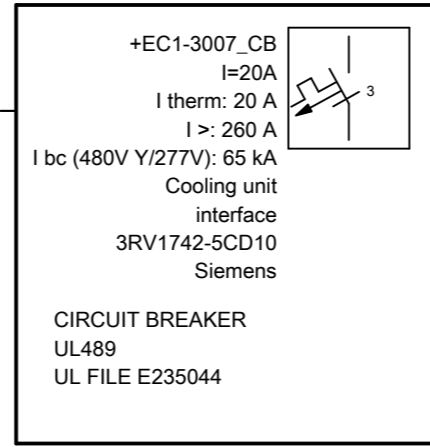
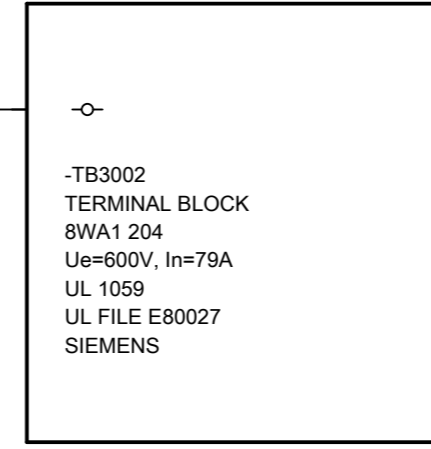
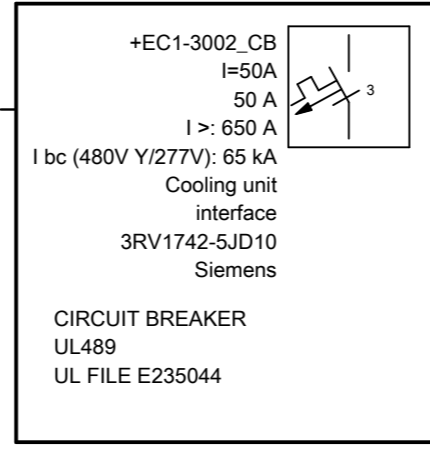
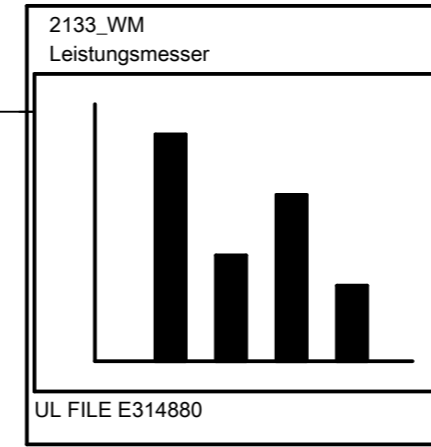
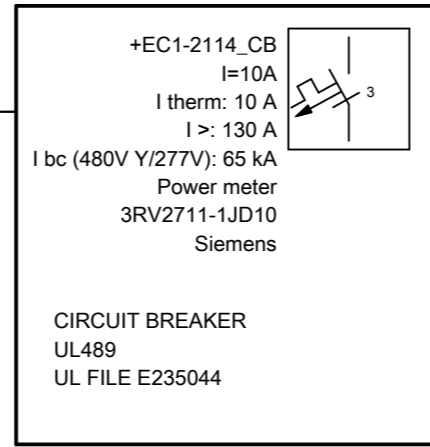
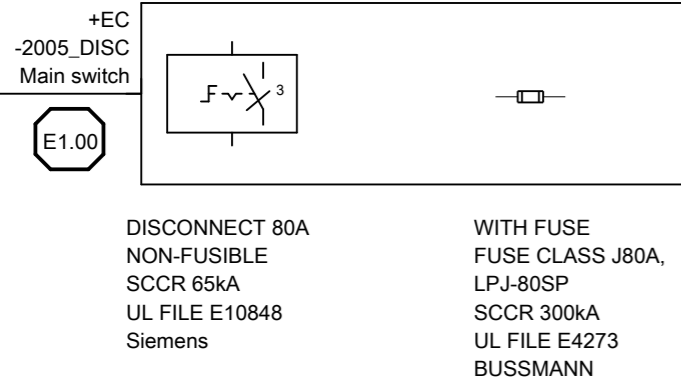
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		+H2 HELP2	428		Overview of inputs/outputs, HELP 2	04.04.2016	AHP1/HAS
		+H2 HELP2	429		Reserve I/Q129.0 - I/Q129.7	02.06.2016	AHP3/RIG
		+H2 HELP2	430		Reserve I/Q131.0 - I/Q131.7	06.06.2016	OE1/SMC
		+H2 HELP2	431		Reserve I/Q132.x I/Q133.0 -I/Q133.7	20.01.2016	AHP1/HAS
		+H2 HELP2	432		Reserve I/Q134.x	20.01.2016	AHP1/HAS
		+H2 HELP2	433		Reserve Q135.0 - Q135.7 Reserve I136.0 - I136.7	31.05.2016	AHP3/RIG
		+H2 HELP2	434		Reserve I/Q137.x I/Q138.x	22.03.2016	AHP5/EWD
		+H2 HELP2	435		Reserve QW324 - QW330 IW332 - IW338	20.01.2016	AHP1/HAS
		+H2 HELP2	436		IW340 - IW346	04.04.2016	AHP1/HAS
		+H2 HELP2	437		Reserve page 437-499	20.01.2016	AHP1/HAS
		+H	700		Mounting panel structure	07.06.2016	OE1/SMC
		+H	701		Control cabinet housing	22.03.2016	AHP3/RIG
		+H	702		Heat calculation in control cabinet	20.01.2016	AHP1/HAS
		+H	703		Main operating unit OP12	22.03.2016	AHP3/RIG
		+H	704		Tool setting station magazine control panel	10.02.2016	AHP3/RIG
		+H	705		Workpiece setting station operator panel	04.04.2016	AHP1/HAS
		+H	706		Labelling of control cabinet housing	04.04.2016	AHP1/HAS

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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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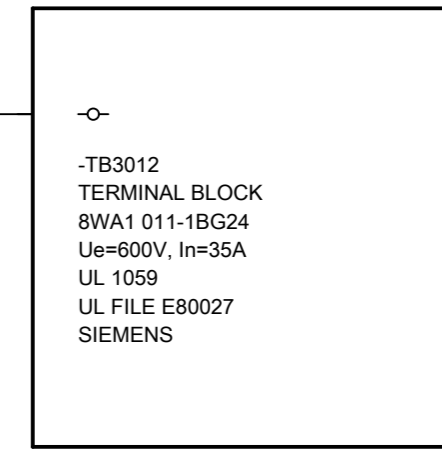
PLANT SUPPLIED 3 PHASE 480VAC 60HZ (CUSTOMER SCOPE)

BASED ON MAXIMUM THRESHOLD OF 65kA
IF PANEL FUSED AT 80A OR LESS $I_p=10kA$
REFERENCE UL508A TABLE SB4.2

I_p =PEAK LET THROUGHOUT CURRENT

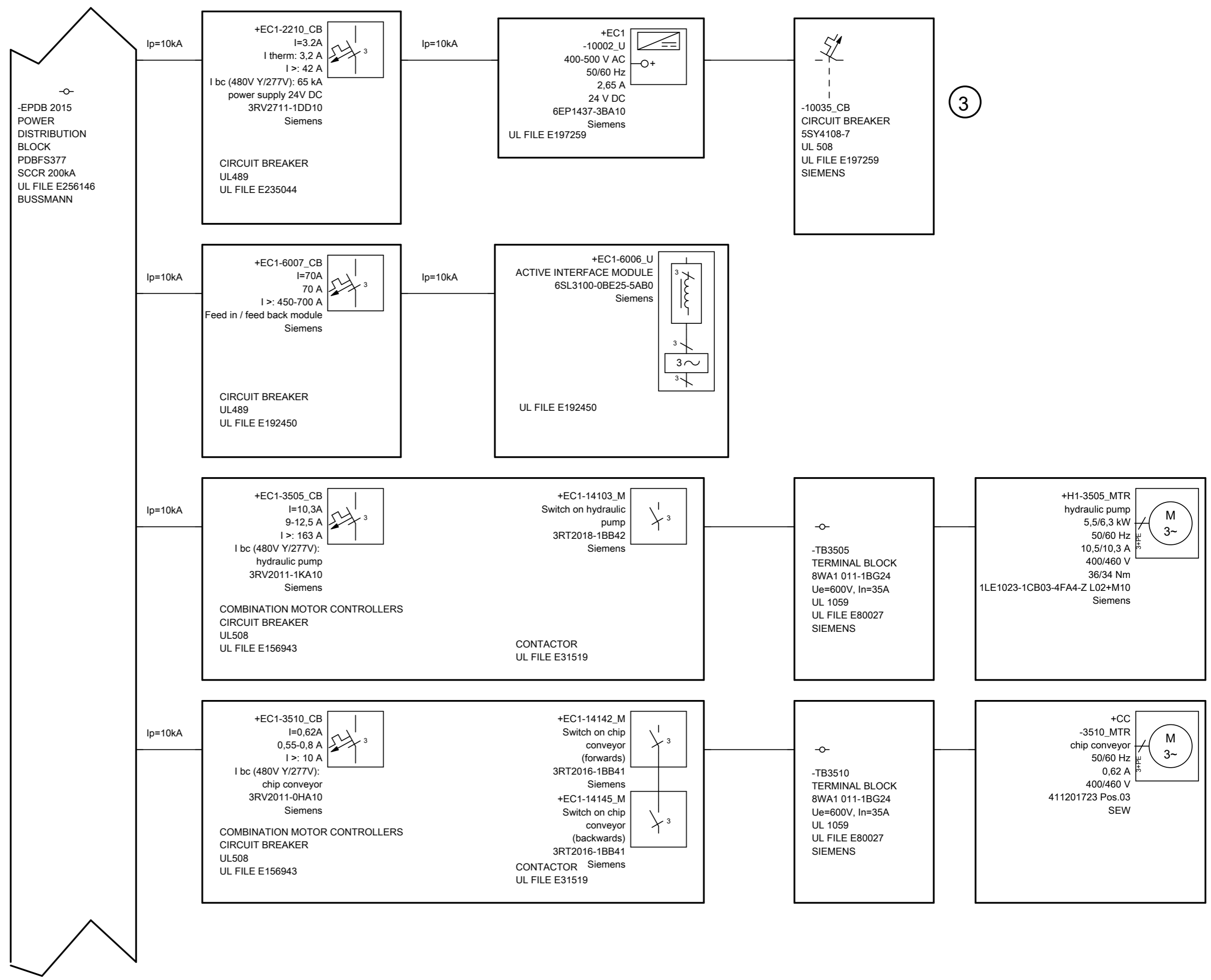


FROM SB4.3.1
A POWER TRANSFORMER WITH AN ISOLATED SECONDARY
WINDING IS ABLE TO LIMIT THE SHORT CIRCUIT CURRENT
IN THE ISOLATED SECONDARY CIRCUIT AS FOLLOWS.
B) FOR A POWER TRANSFORMER RATED NOT MORE THAN
5 KVA AND A 120V MAXIMUM SECONDARY VOLTAGE.
THE MAXIMUM AVAILABLE SHORT IRCUIT CURRENT
ON THE SECONDARY CIRCUIT IS LIMITED TO 2kA.



3ph
480VAC

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 3	
=54793				Sheet 4	



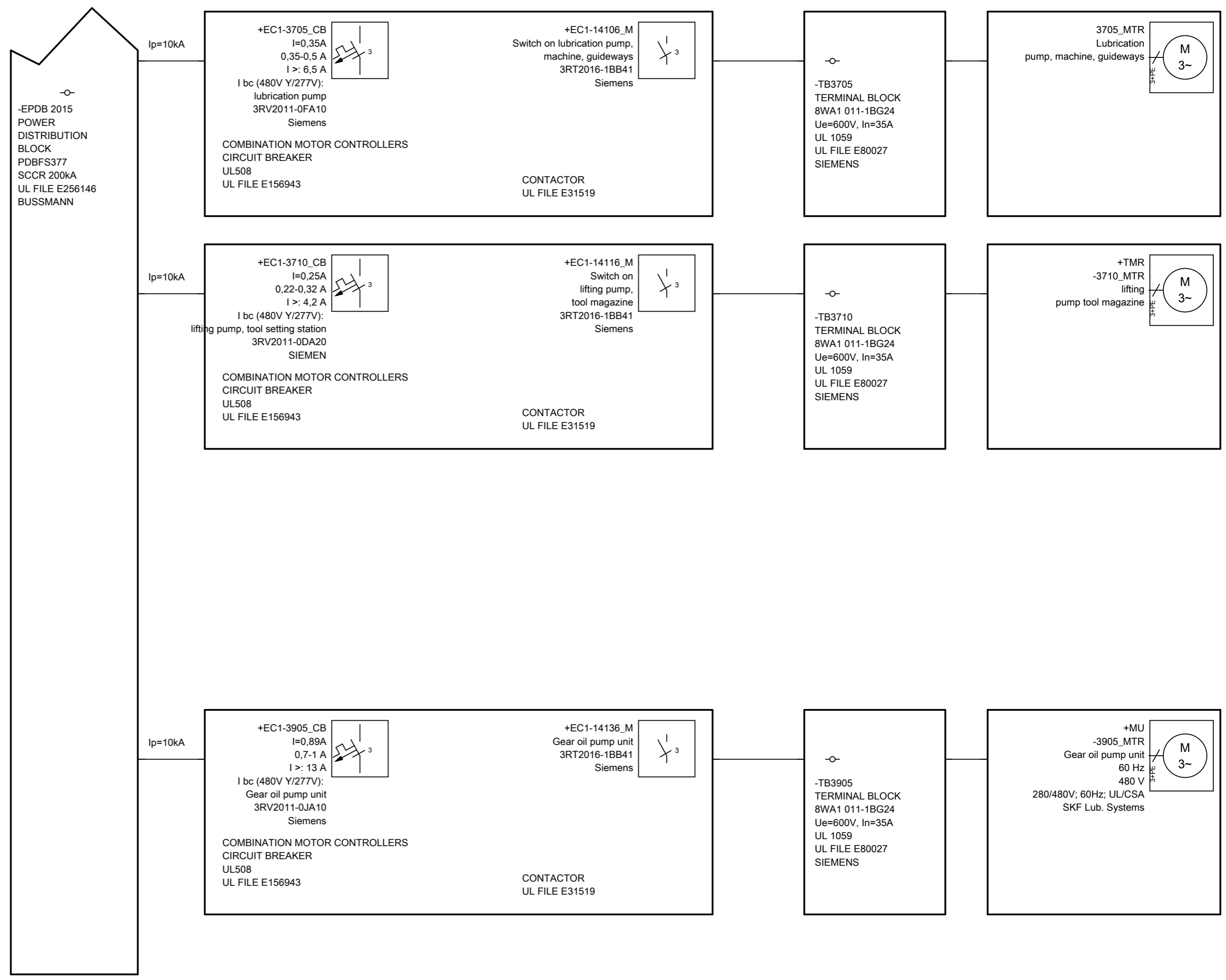
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FROM SB4.2
 SHORT CIRCUIT CURRENT RATINGS OF INDIVIDUAL POWER CIRCUITS COMPONENTS.
 SB4.2.1 ALL POWER CIRCUIT COMPONENTS INCLUDING DISCONNECT SWITCHES, BRANCH CIRCUIT PROTECTIVE DEVICES, BRANCH CIRCUIT FUSE HOLDERS, LOAD CONTROLLERS, MOTOR OVERLOAD RELAYS, TERMINAL BLOCKS AND BUS BARS SHALL HAVE A SHORT CIRCUIT CURRENT RATING EXPRESSED IN AMPERES OR KILOAMPERES AND VOLTAGE.

EXCEPTION: POWER TRANSFORMER, REACTORS, CURRENT TRANSFORMERS, DRY-TYPE CAPACITORS, RESISTORS, VARISTORS AND VOLTMETERS ARE NOT TO HAVE A SHORT CIRCUIT CURRENT RATING.

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
ePLAN P8 2.2.5 =54793				Number of sheets 265 Sheet 4	
				3 Sheet 5	

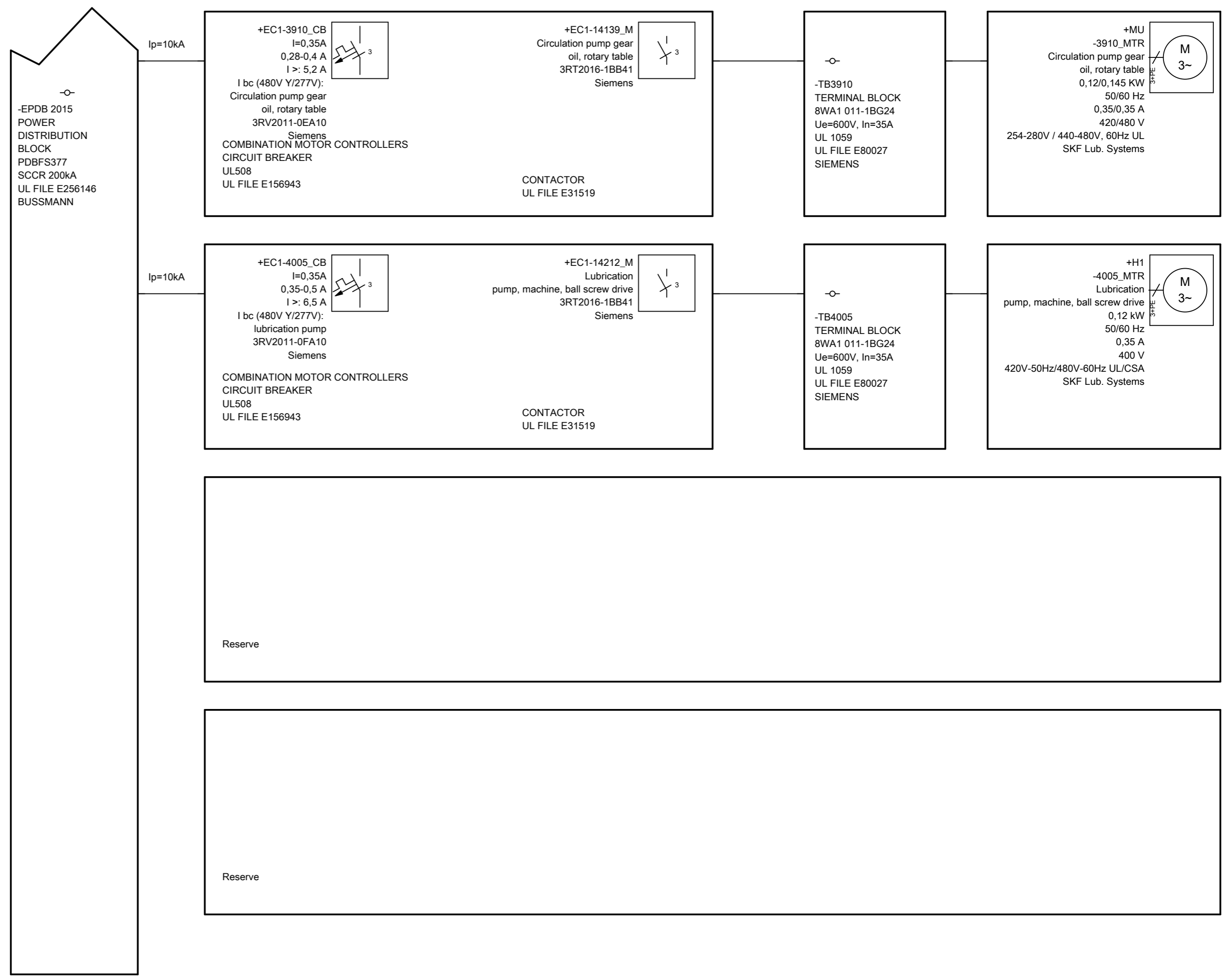
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480VAC 3ph
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5 14
5 15
5 16
5 17
5 18
5 19
5 20
3ph 480VAC
6 00



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	26.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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Number of sheets				265	Sheet 5
◀ 4				Sheet	6

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6 01
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6 17
6 18
6 19
6 20

5 20
480VAC 3ph
480VAC 3ph
7 00



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	26.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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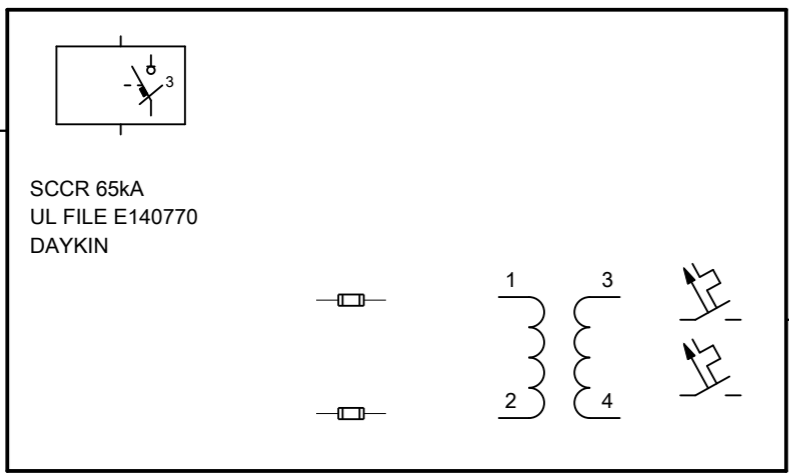
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6 20

480VAC
3ph

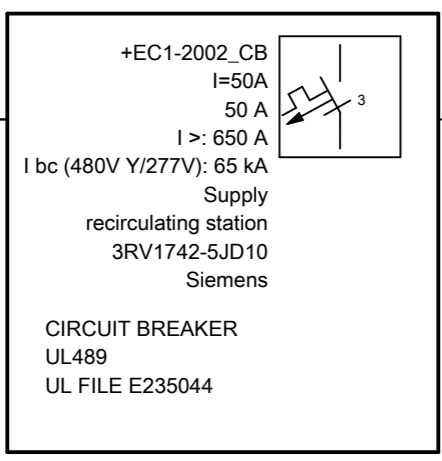
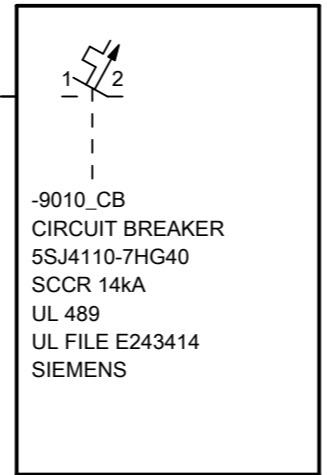
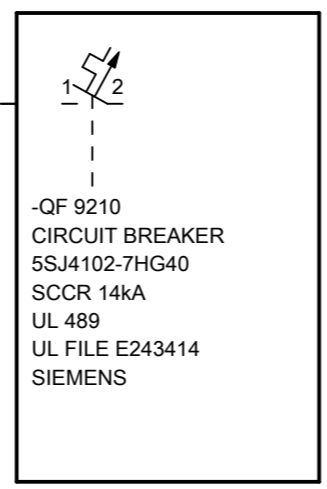
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+EC1
-9202_T
GPFB-1-DG
Fa. Daykin



I_p=65kA

1



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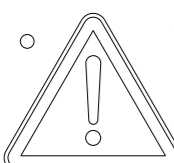
FROM SB4.3.1
A POWER TRANSFORMER WITH AN ISOLATED SECONDARY WINDING IS ABLE TO LIMIT THE SHORT CIRCUIT CURRENT IN THE ISOLATED SECONDARY CIRCUIT AS FOLLOWS.
B) FOR A POWER TRANSFORMER RATED NOT MORE THAN 5 KVA AND A 120V MAXIMUM SECONDARY VOLTAGE. THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT ON THE SECONDARY CIRCUIT IS LIMITED TO 2kA.

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	26.01.2016	AHP3/RIG	H 10000 MC			
DRAWN	16.07.2015	AHP3/RIG		Inv.No.		
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ePLAN P8 2.2.5		=54793		7 Sheet 11		

Machine data sheet



WARNING

Qualified Persons Only

Arc Flash and Shock Hazard
Appropriate PPE Required

When exposed to energized components

NFPA 70E Hazard Level 0
8 INCH Flash Protection Boundary

480 VAC Shock Hazard when PANEL DOOR IS OPEN
USE CLASS "00" insulated gloves when working within
1.0 FOOT of exposed energized components

20.007 647

workpiece	6-Cylinderblock	<h1 style="margin: 0;">HELLER</h1>
OP-Folge	M54793, M54794, M54795	
Control	SIEMENS 840D sl	

HELLER

Gebr. Heller
Maschinenfabrik GmbH
72622 Nürtingen - Germany

Type	H 10000 MC
Control	SIEMENS 840D_sl
order number. Order-No.	54793
Year of construction	2016
Voltage	3- 480Y/277, 4w V
Frequency:	60 Hz
Rated current	72 A
Short-circuit current	65 kA
Short Circuit Current Rating	65 kA
Größter Motor / Last Largest Motor (FLA)	19.5 A
Größte Heizung Largest Heater (FLA)	- A
Elektroplan Zeichnungsnr. Circuit diagramm Number	EP05479300
Schutzart Schaltschrankgehäuse Enclosure Type	NEMA 12

00.945034

Plate basic language EN

Conductor colours

AHEAD OF MAIN SWITCH

black with orange tracer	MAIN CIRCUIT FOR ALTERNATING CURRENT	151 - 575 VAC
ORANGE/ RED	CONTROL CIRCUIT FOR ALTERNATING CURRENT 120V	120 VAC
white with orange tracer	control circuit for al alternating current 0V grounded	0 VAC
blue with orange tracer	control circuit for direct current 24V	24 VDC
Orange/White	control circuit for direct current 0V grounded	0 VDC

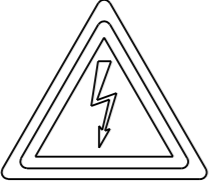
AFTER MAIN SWITCH ON

Black	MAIN CIRCUIT FOR ALTERNATING CURRENT	151 - 575 VAC
Red	CONTROL CIRCUIT FOR ALTERNATING CURRENT 120V	120 VAC
white	control circuit for al alternating current 0V grounded	0 VAC
Blue	control circuit for direct current 24V	24 VDC
white/ blue	control circuit for direct current 0V grounded	0 VDC
GREEN/ YELLOW	Protective conductor	

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Machine data sheet					
Number of sheets				265	Sheet 11
ePLAN P8 2.2.5		=54793		8	Sheet 12

Overview fuses and reference text

e.g.

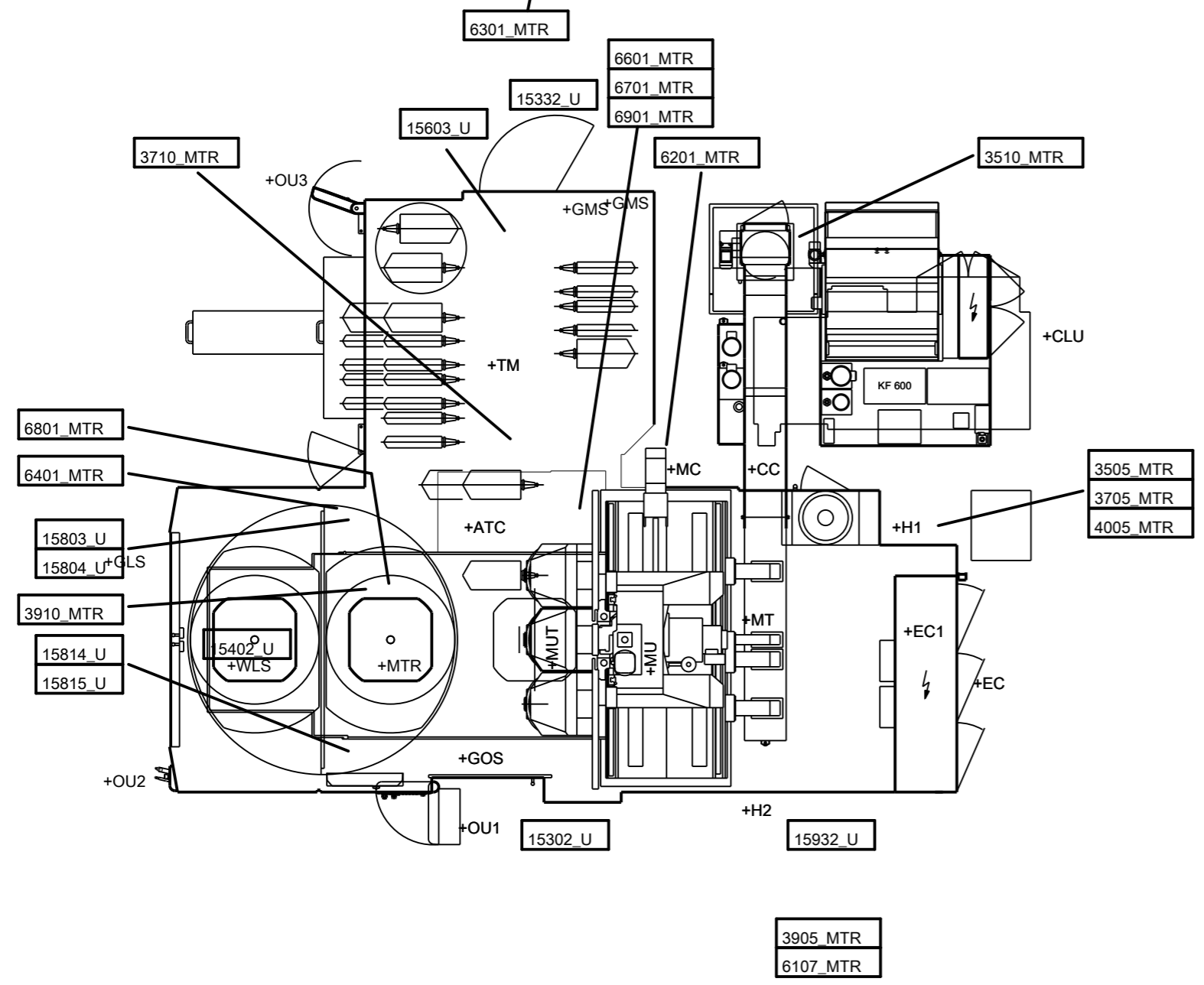
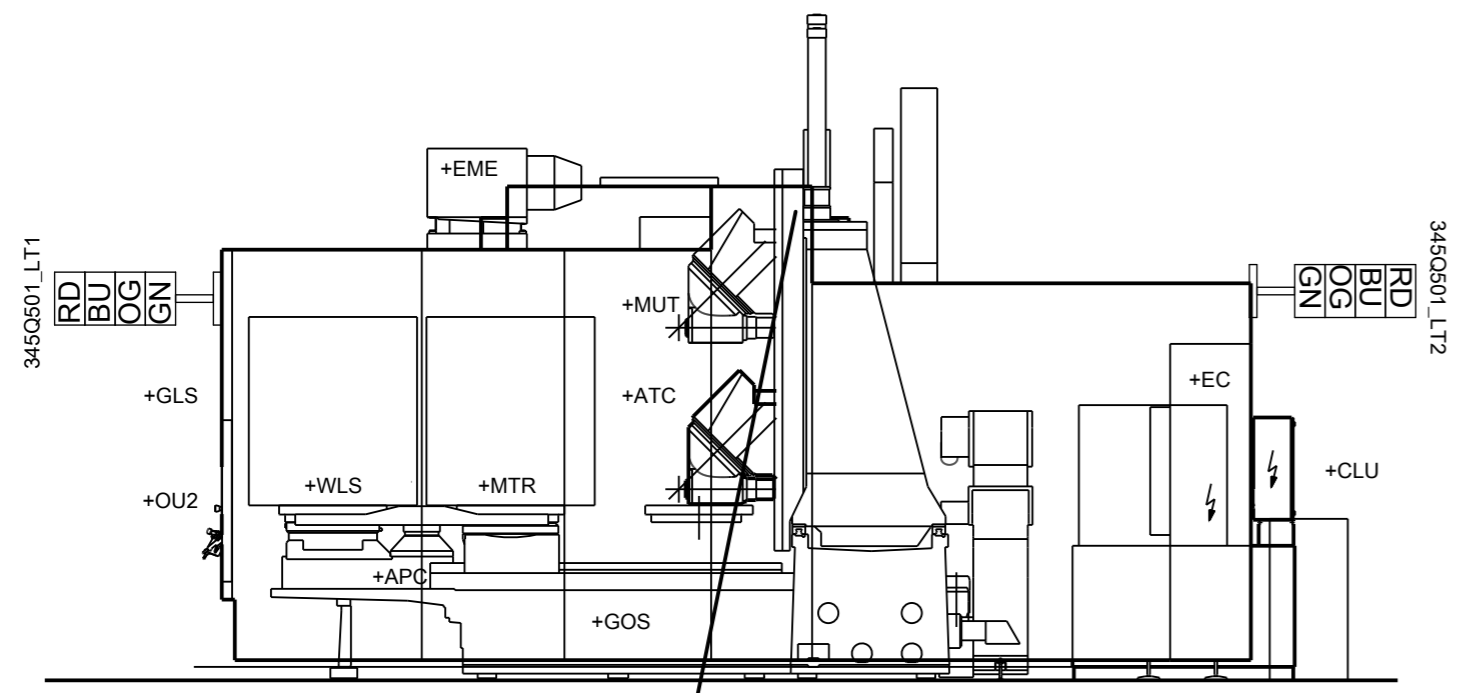
FUSES		 CAUTION Replace Fuses With Same Type and Rating		
LOCATION	TYPE	CLASS	SIZE (A)	QTY
2009_FU	LPJ-80SP Bussmann	J	80	5

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Overview fuses and note				Number of sheets 265 Sheet 12	
ePLAN P8 2.2.5		=54793		◀ 11 Sheet 13	

NOTES

BMK-Motor:	designation:
3505_MTR	hydraulic pump
3510_MTR	chip conveyer (transverse chip conveyer)
3705_MTR	Lubrication pump, machine, guideways
3710_MTR	lifting pump tool magazine
3905_MTR	Gear oil pump unit
3910_MTR	Circulation pump gear oil, rotary table
4005_MTR	Lubrication pump, machine, ball screw drive
6107_MTR	C1-axis (spindle)
6201_MTR	X-axis
6301_MTR	Y-axis
6401_MTR	Z1-axis
6601_MTR	CT1-axis
6701_MTR	ZT1-axis
6801_MTR	B-axis
6901_MTR	CM-axis

Safety switch:	designation:	
15302_U	CET3	Work area safety door
15332_U		Tool loading station safety door
15402_U		Workpiece loading station safety door
15932_U		Safety door media supply / maintenance area
15803_U	CES	Safety door loading top loader 1
15804_U		Safety door loading top loader 1
15814_U		Safety door loading top loader 2
15815_U		Safety door loading top loader 2



Ortsbezeichnung:

+ATC	tool changer
+APC	
+CC	chip conveyer
+CF	workpiece clamping fixture
+CLU	
+EC	Control cabinet
+EC1	Control cabinet mounting panel
+EME	Emulsion mist extraction
+GLS	Guard panels setting station
+GMS	Guard panels magazine/maintenance side
+GOS	Guard panels operating side
+H1	HELP1
+H2	HELP2
+MC	column
+M	Machine in general
+MQL	minimal quantity lubrication
+MT	Table
+MTR	Rotary axis
+MU	unit
+MUT	unit
+MU	unit
+OU1	Main operator panel work area
+OU2	
+OU3	
+TM	tool magazine
+WLS	

HELP1	Adresse:
36101_U	Interface-Modul
36131_U	Q61.0 - .7
36231_U	Q63.0 - .7
36301_U	I64.0 - .7
36331_U	I65.0 - .7
36401_U	I66.0 - .7
36431_U	I67.0 - .7
36501_U	IW300 - 306
36635_U	Powermodul
36701_U	Q71.0 - .7
36731_U	I72.0 - .7
36801_U	Q73.0 - .7
36831_U	Q216.0 - .7

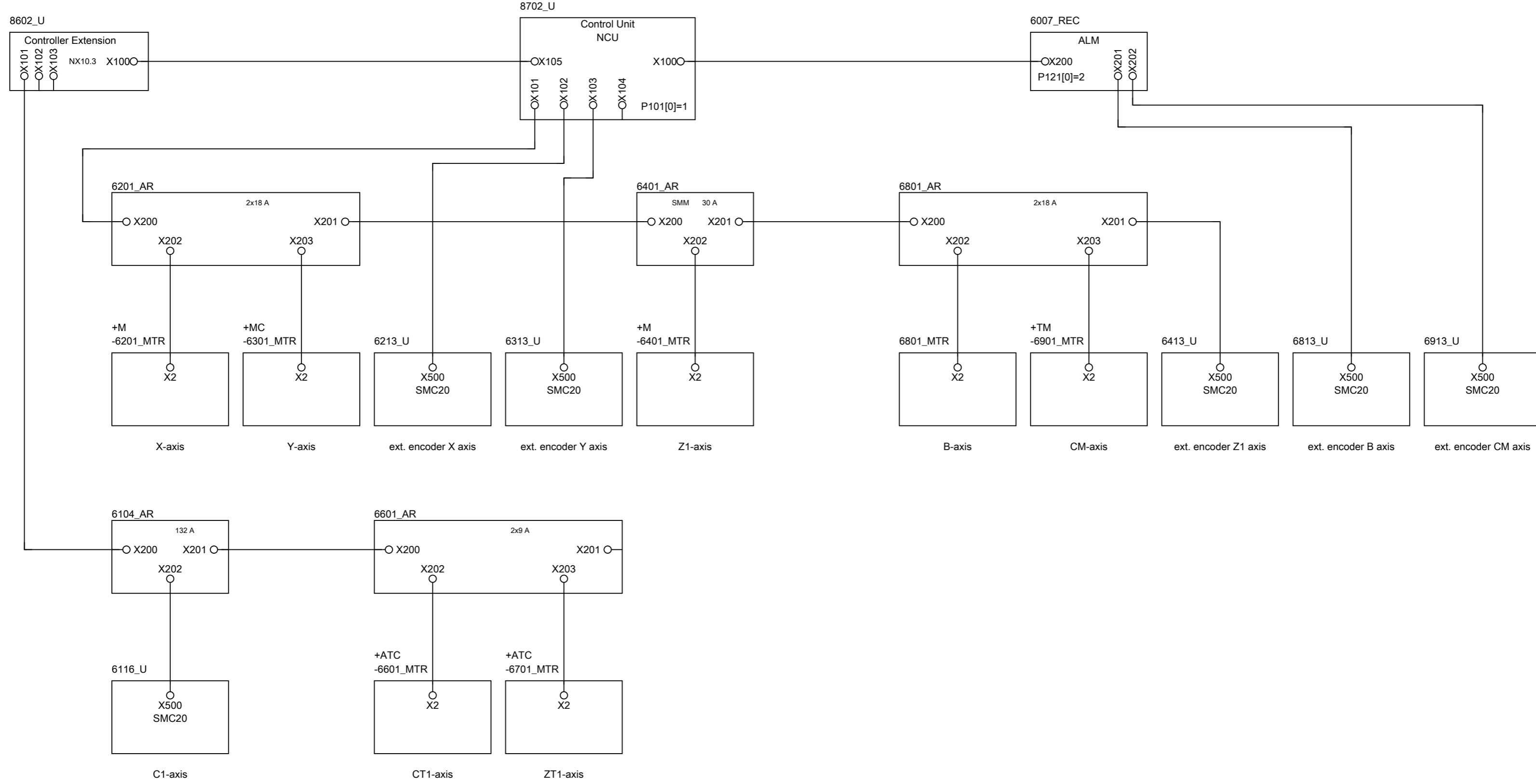
HELP1/2	Adresse:
37801_U	Interface-Modul
37831_U	Q78.0 - .7
37901_U	I79.0 - .7
38005_U	Powermodul
38131_U	I84.0 - .7
38505_U	Powermodul
38531_U	Q78.0 - .7
38601_U	I217.0 - .7
38631_U	I218.0 - .7
38705_U	Powermodul
38731_U	Q/193.0 - .7

HELP1/5	Adresse:
44601_U	Interface-Modul
44701_U	OUTSE31 - 34
44801_U	OUTSE35 - 38
44901_U	OUTSE39 - 42
45001_U	OUTSE43 - 46
45201_U	I155.0 - .7
45805_U	Powermodul
45831_U	I157.0 - .7

HELP2	Adresse:
42901_U	Interface-Modul
43401_U	I137.0 - .7

Project description P-009084			Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Machine overview			Inv.No.			
ePLAN P8 2.2.5		=54793	Number of sheets	265	Sheet	13

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	18.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology DRIVE-CLiQ				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 14	
=54793				+GI/13 Sheet 15	

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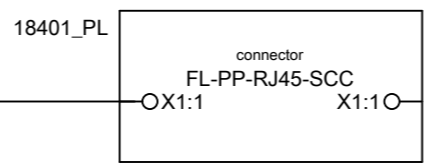
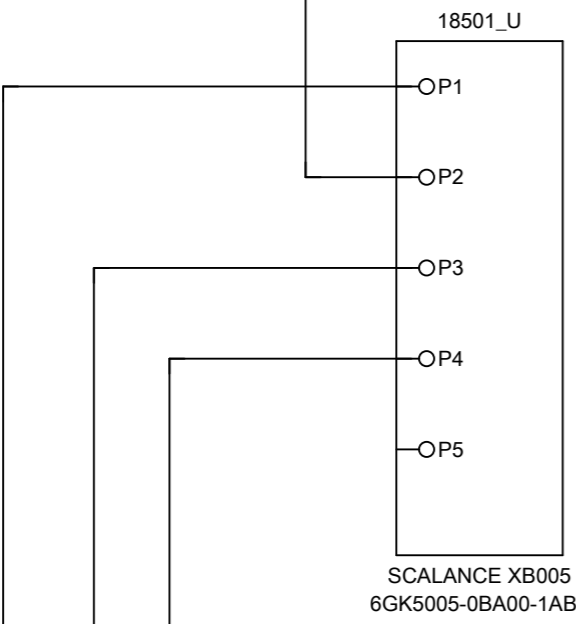
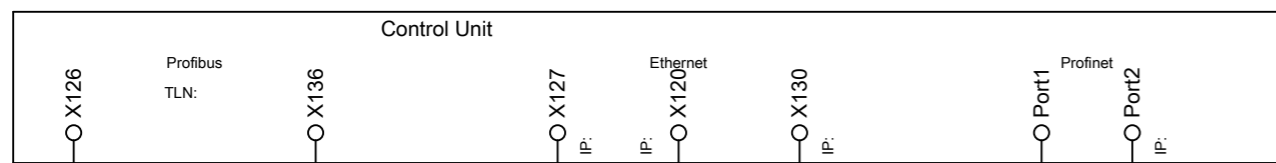
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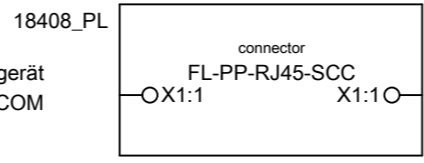
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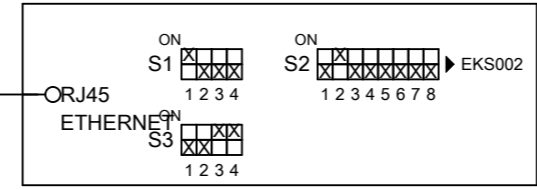
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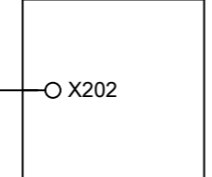
Service Steckdose am Hauptbediengerät
MENCOM

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+OU1
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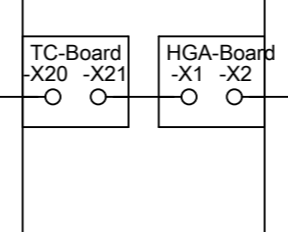


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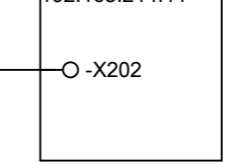
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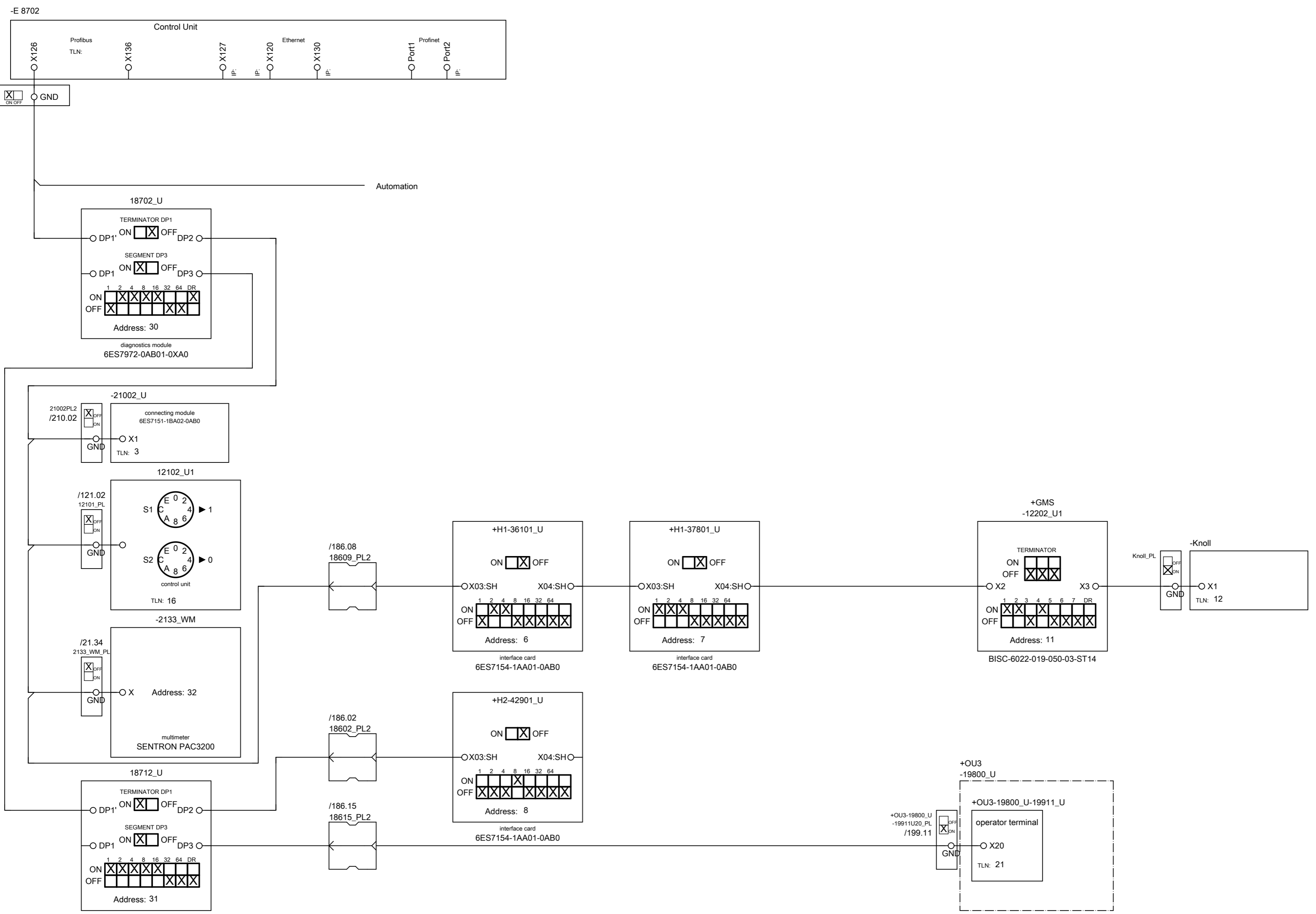


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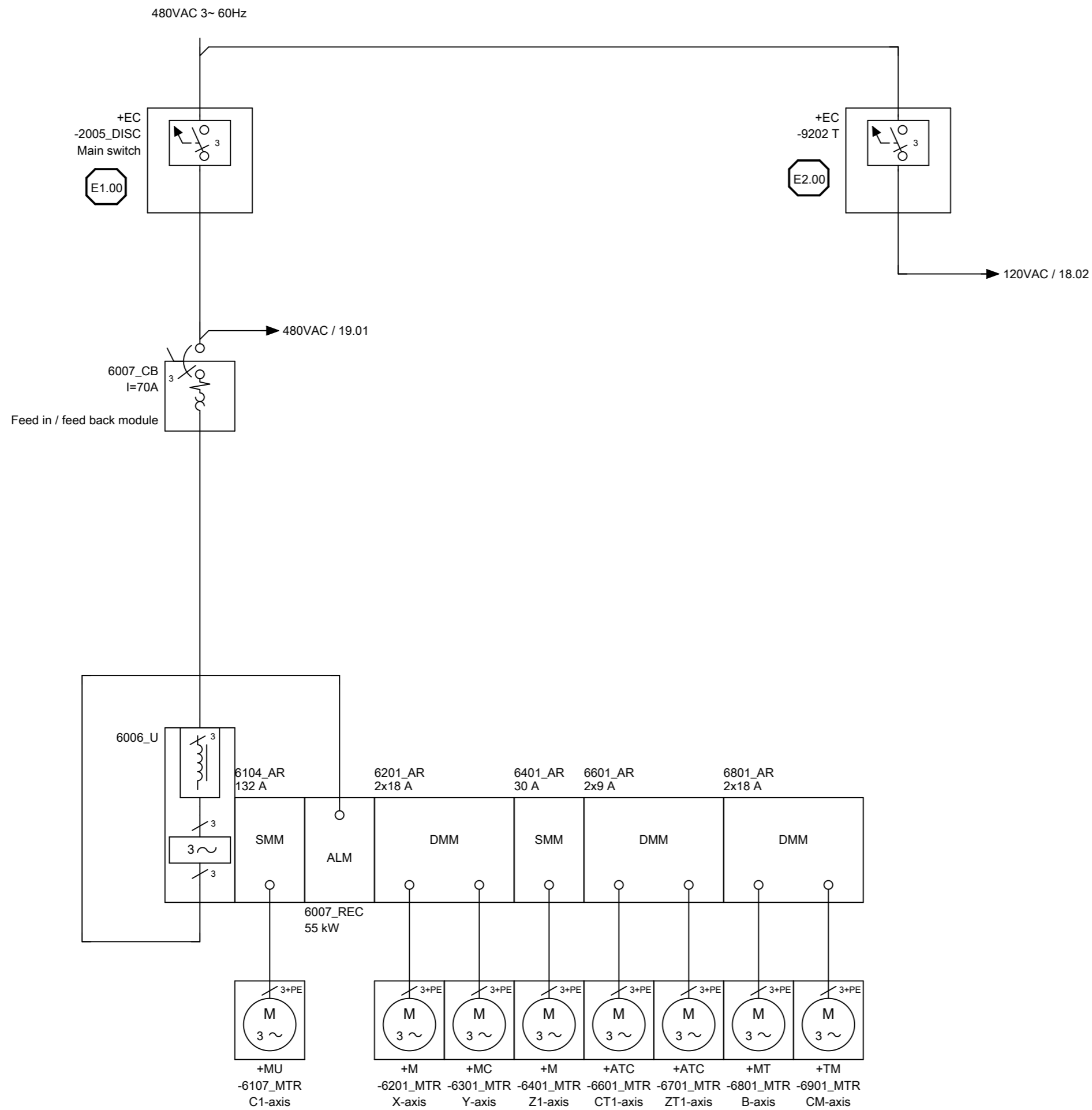


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	29.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology Ethernet				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 15	
=54793				14 Sheet 16	

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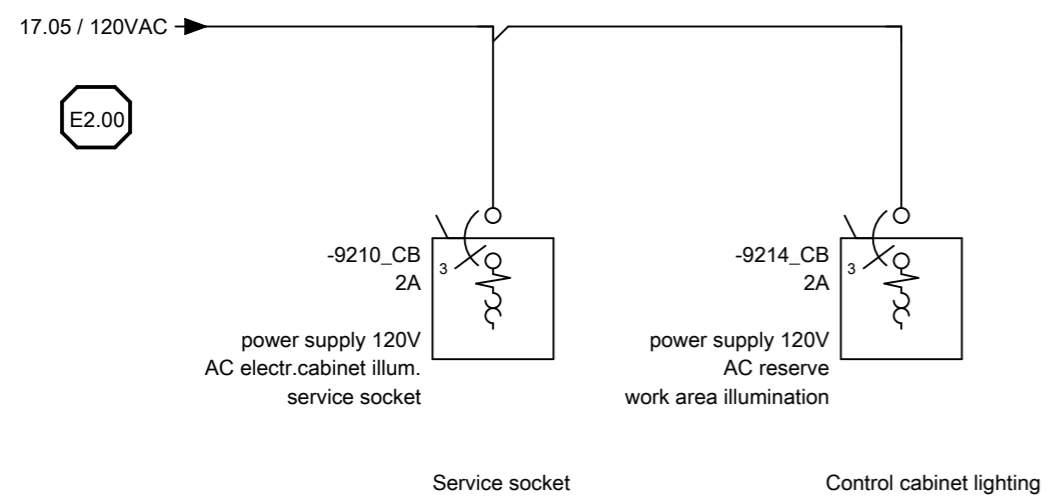


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology Profibus				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 16	
=54793				15 Sheet 17	



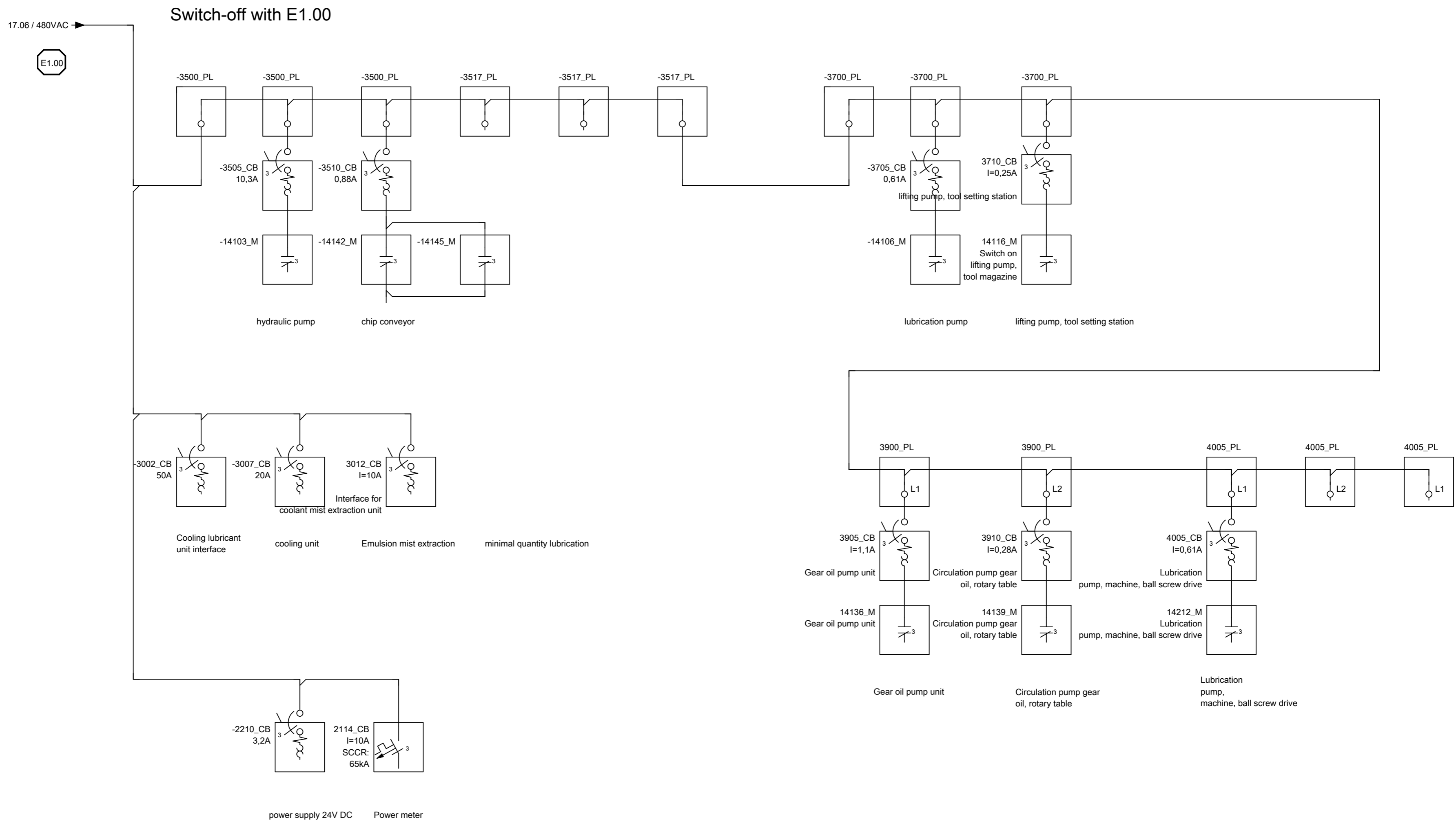
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
				Number of sheets 265 Sheet 17	
ePLAN P8 2.2.5		=54793		◀ 16 Sheet 18 ▶	

Switch-off with E2.00

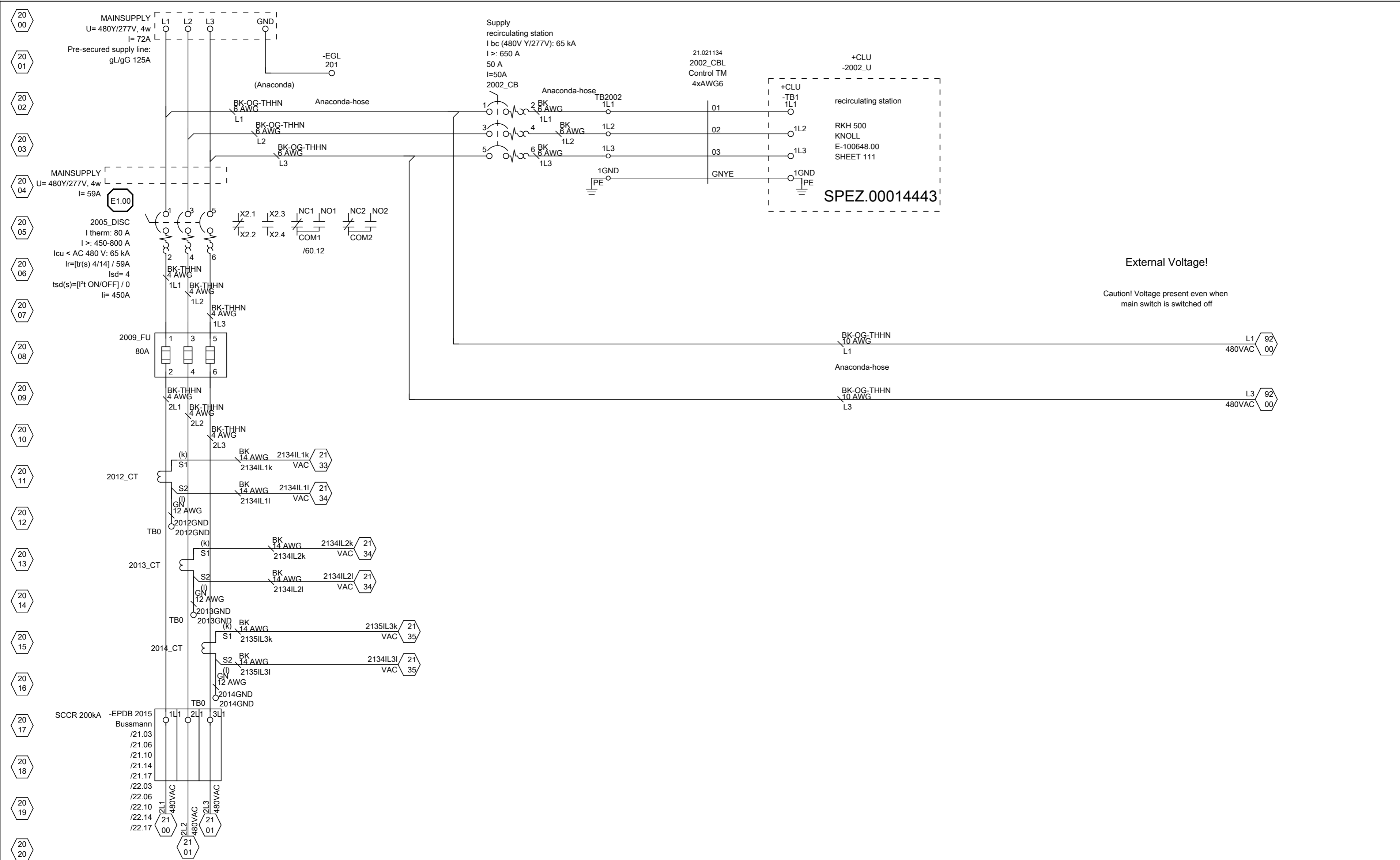


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	24.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
				Number of sheets 265 Sheet 18	
ePLAN P8 2.2.5		=54793		◀ 17 Sheet 19 ▶	

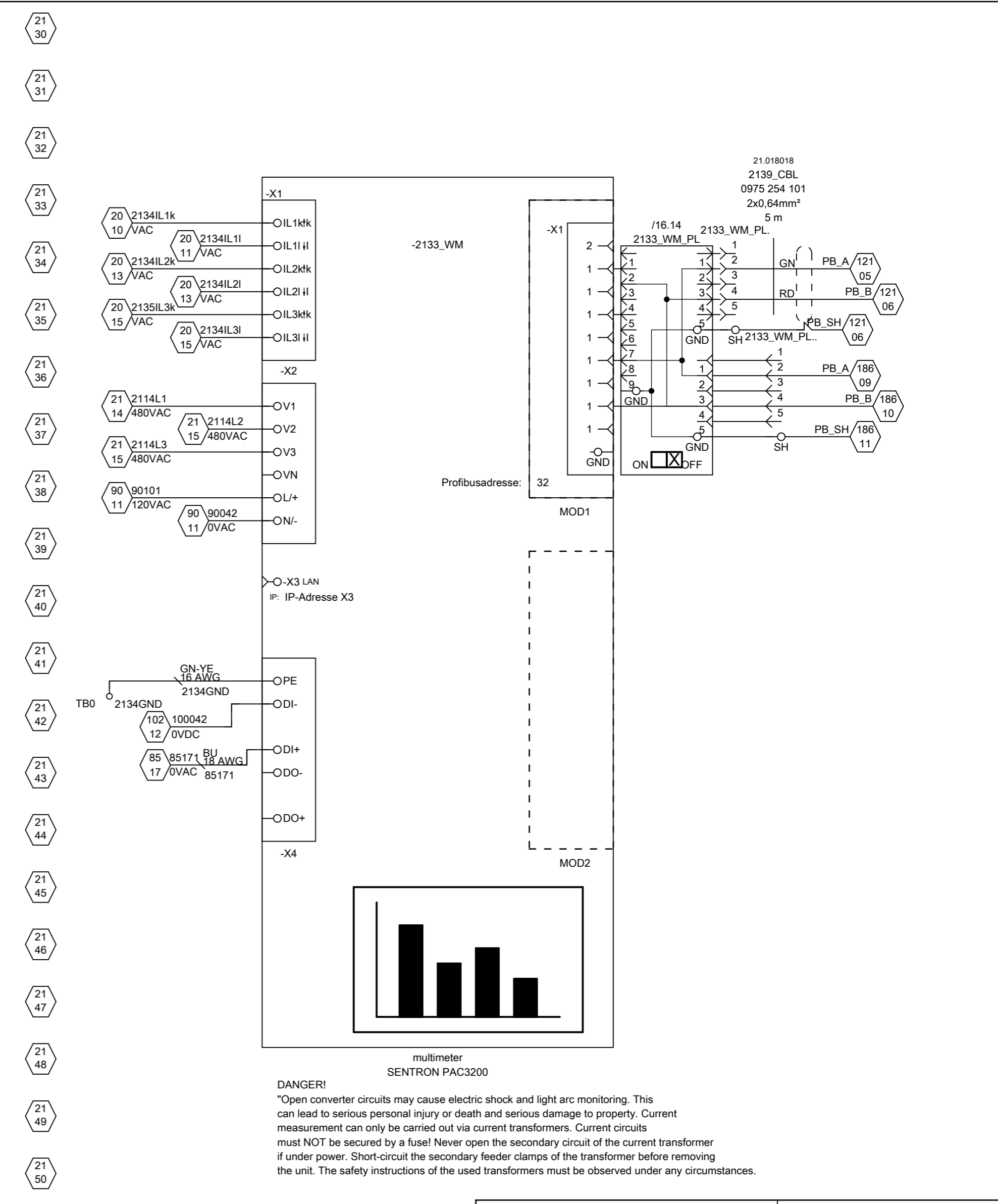
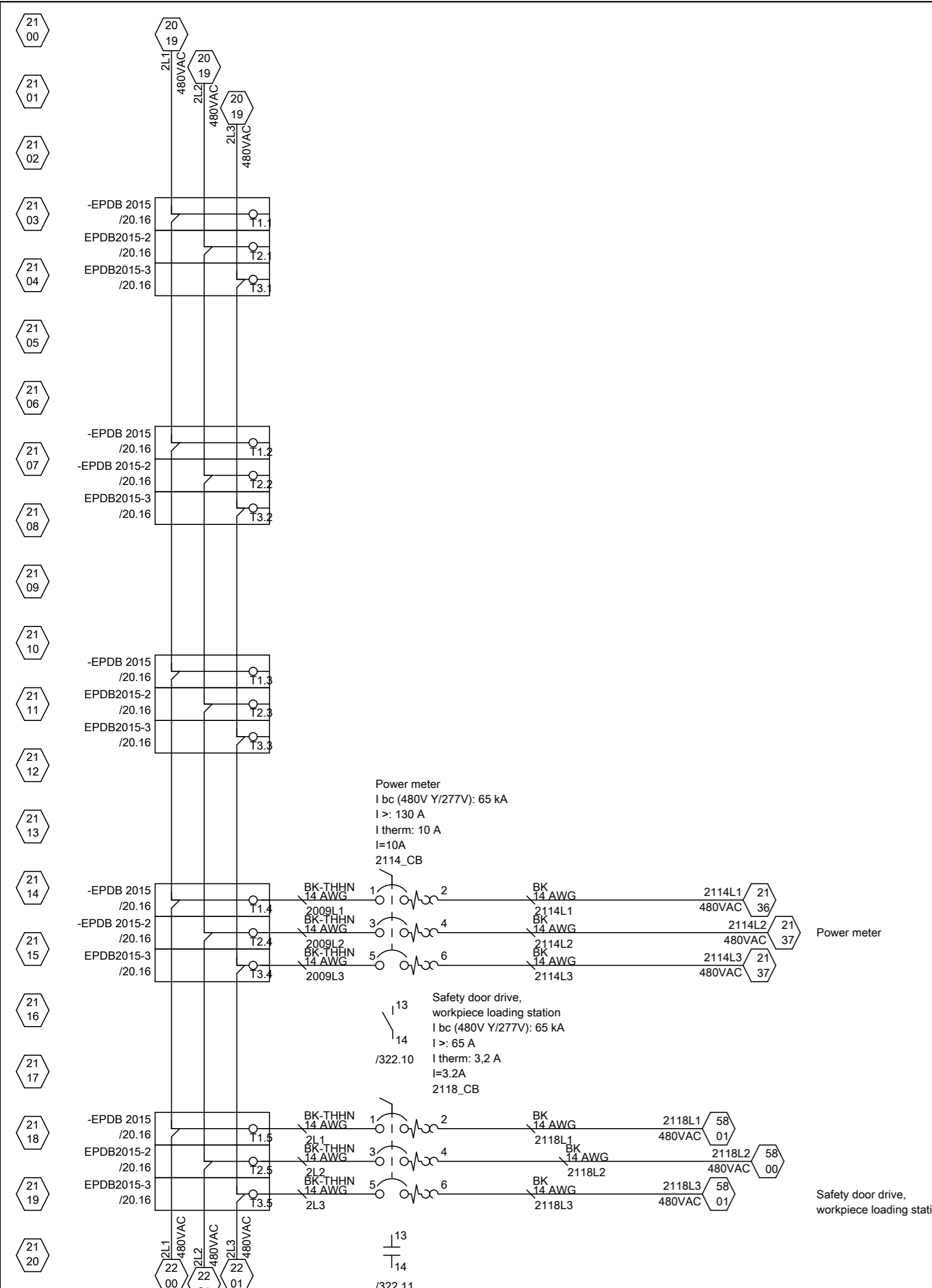
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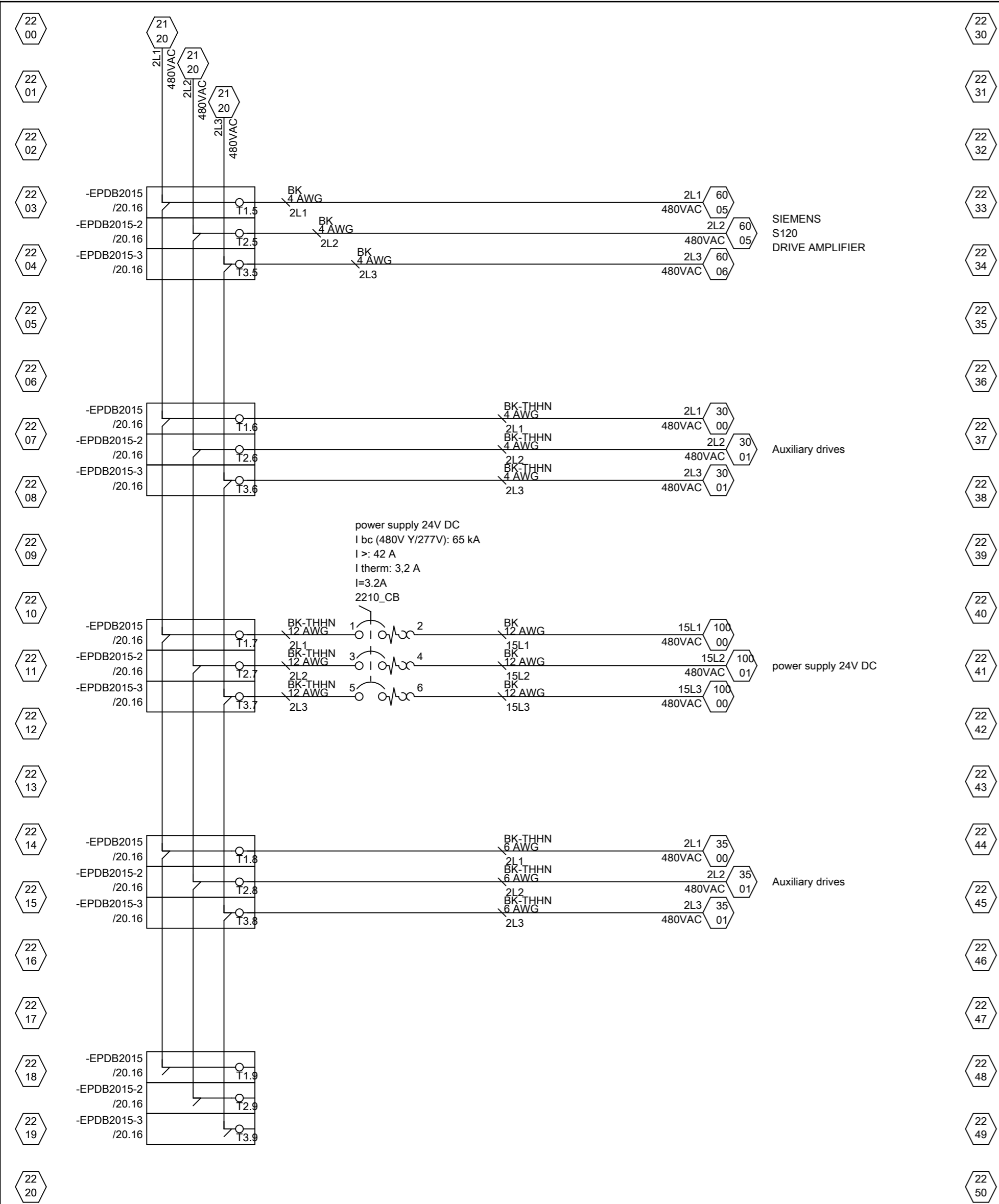
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet 19
18				Sheet	20



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Supply480V AC main switch				Inv.No.	
				Number of sheets 265 Sheet 20	
ePLAN P8 2.2.5		=54793		19 Sheet 21	



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 480V AC (E1)				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 21	
=54793				20 Sheet 22	



Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.04.2016	AHP5/EWD	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 480V AC (E1)				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
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Reserve

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 23	
ePLAN P8 2.2.5		=54793		◀ 22 Sheet 24 ▶	

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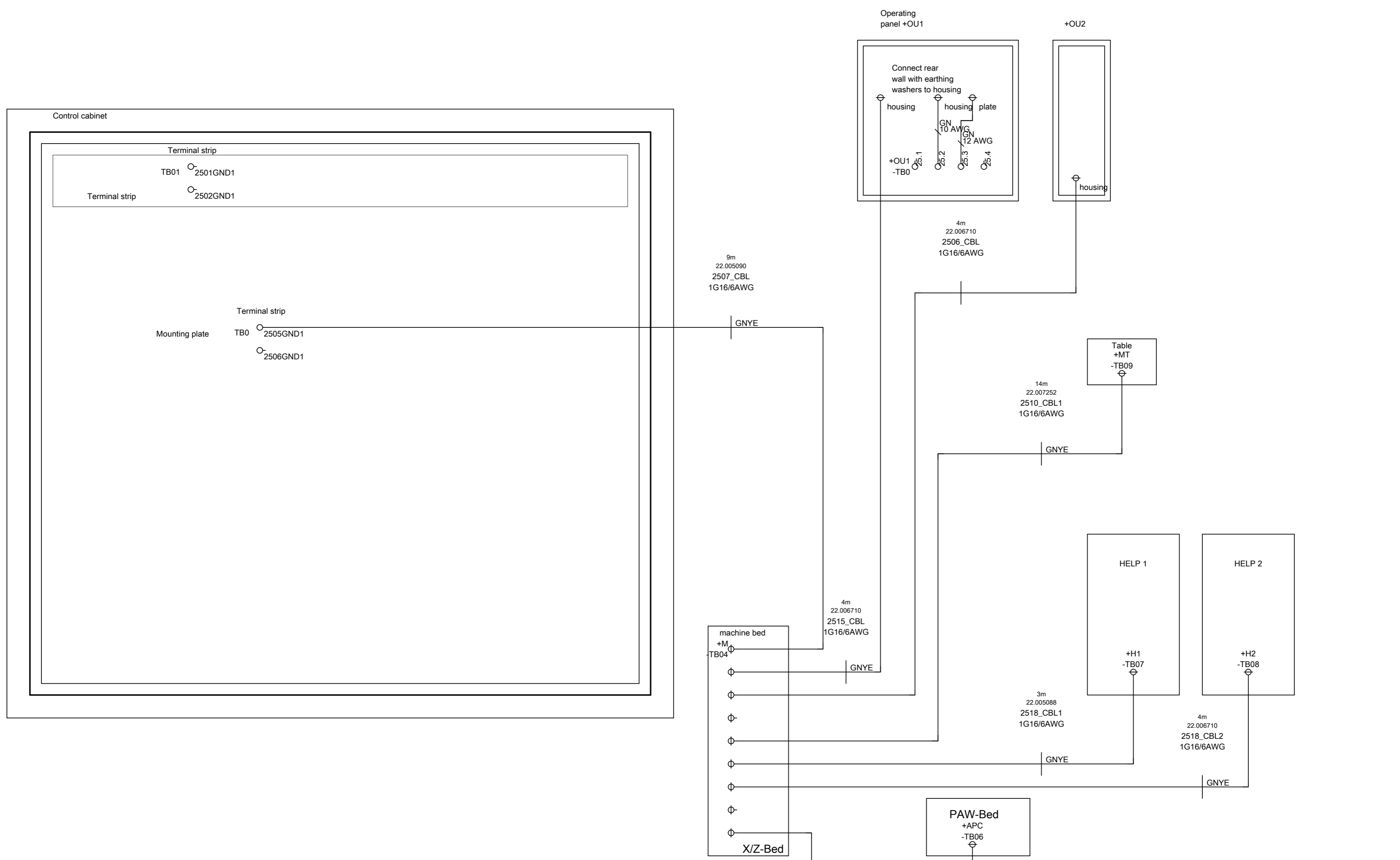
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				265	Sheet
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
PE distribution				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
PE distribution options				Number of sheets	
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ePLAN P8 2.2.5				=54793	25
				Sheet	27

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 27	
ePLAN P8 2.2.5		=54793		26	Sheet 28

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 28	
ePLAN P8 2.2.5		=54793		◀ 27 Sheet 29 ▶	

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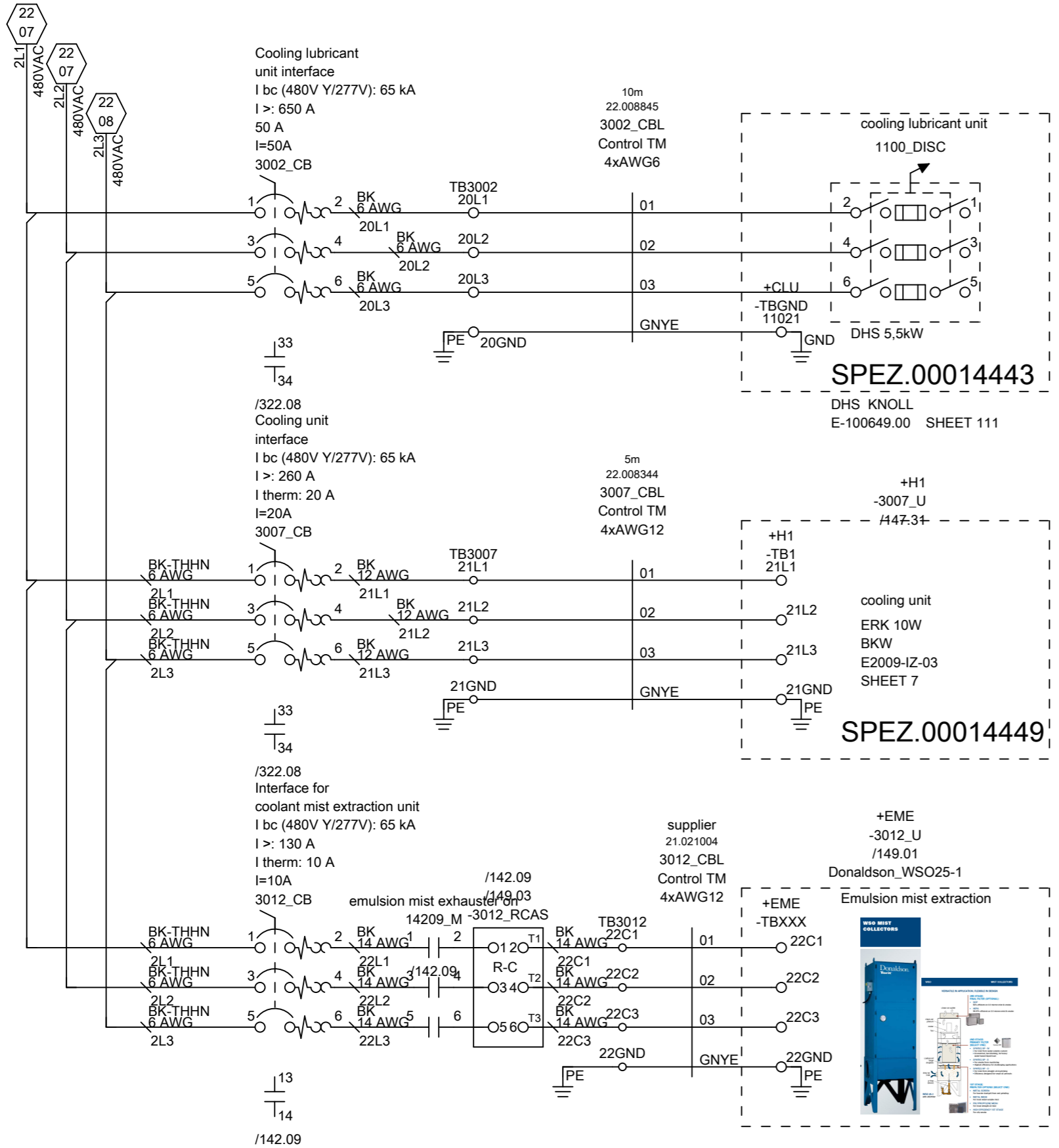
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 265 Sheet 29	
ePLAN P8 2.2.5		=54793		◀ 28 Sheet 30 ▶	



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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 30	
=54793				29 Sheet 31	

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Reserve Auxiliary drives

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 31	
ePLAN P8 2.2.5		=54793		30	Sheet 32

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Reserve Auxiliary drives

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				265	Sheet
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Reserve Auxiliary drives

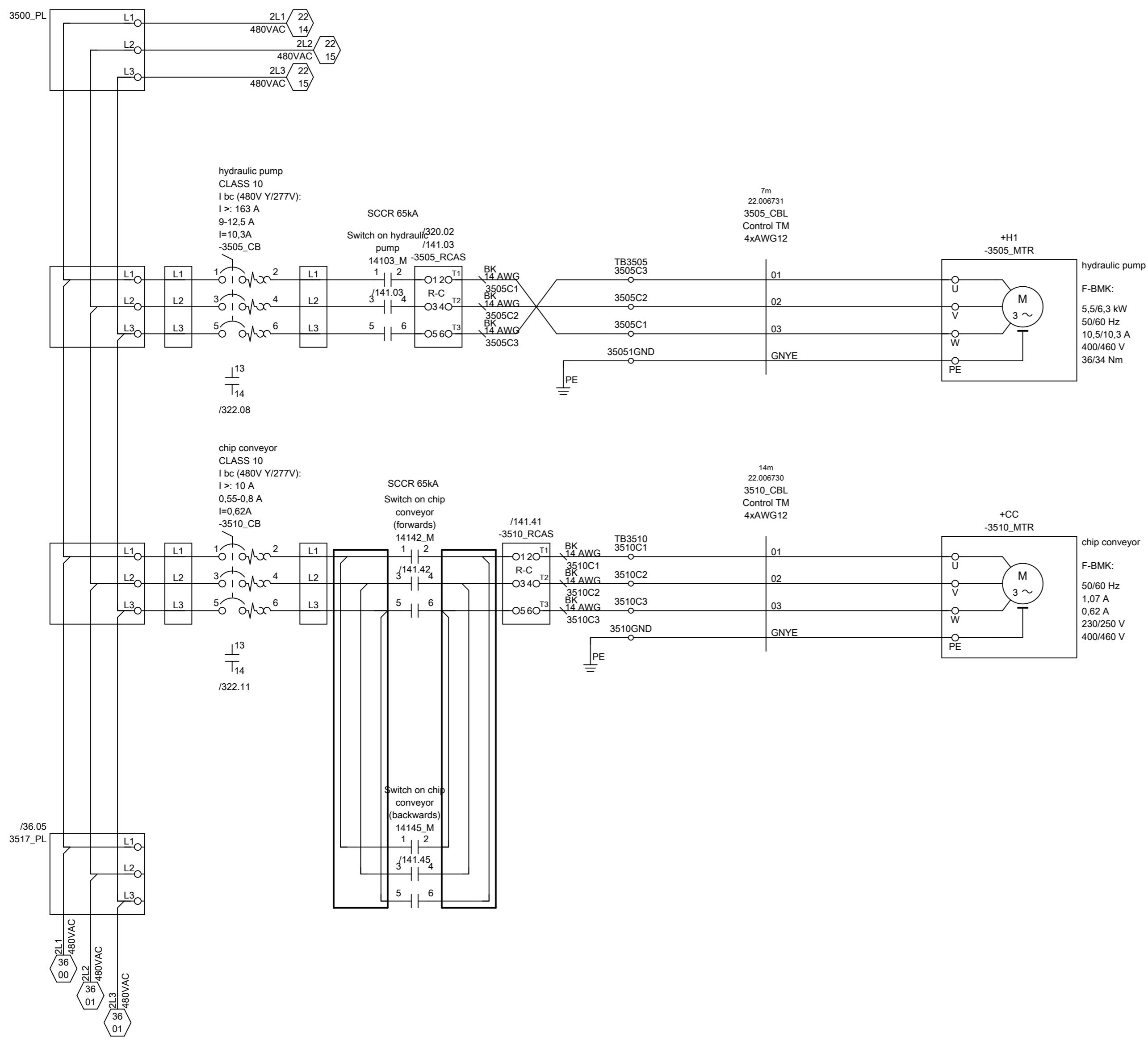
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				265	Sheet
=54793				32	Sheet
				34	Sheet

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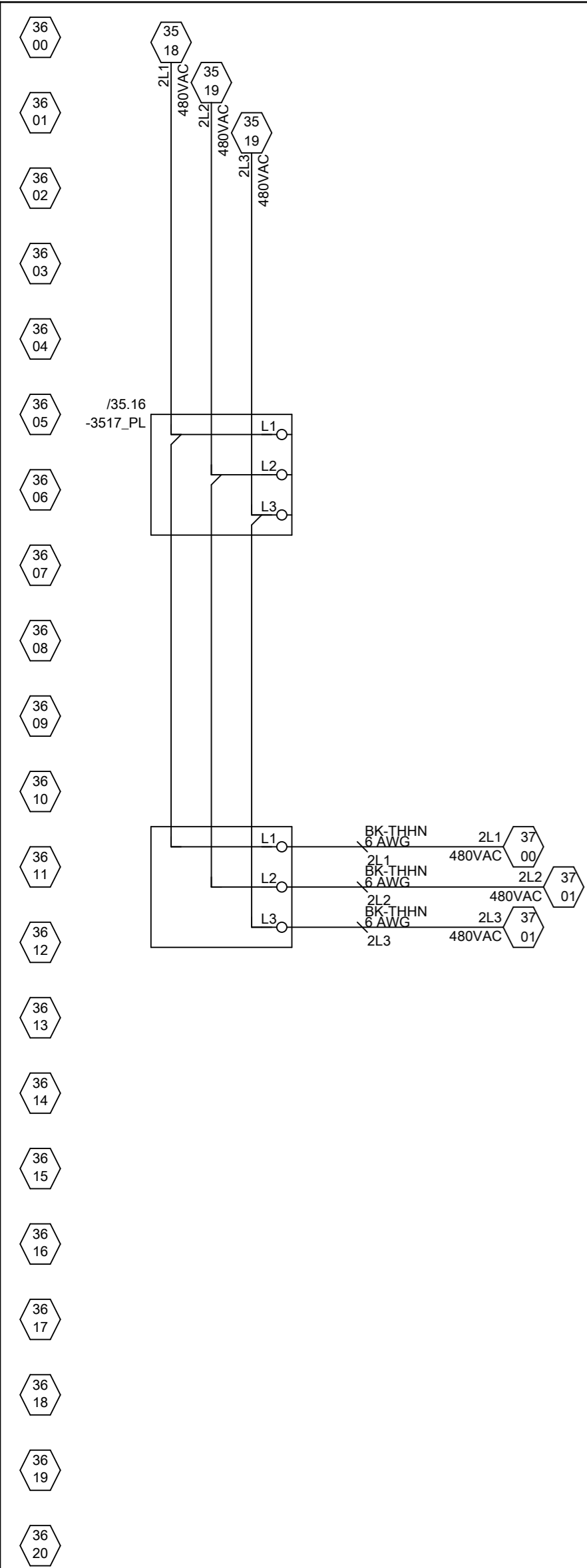
Reserve
Auxiliary drives

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 34	
ePLAN P8 2.2.5		=54793		33	Sheet 35

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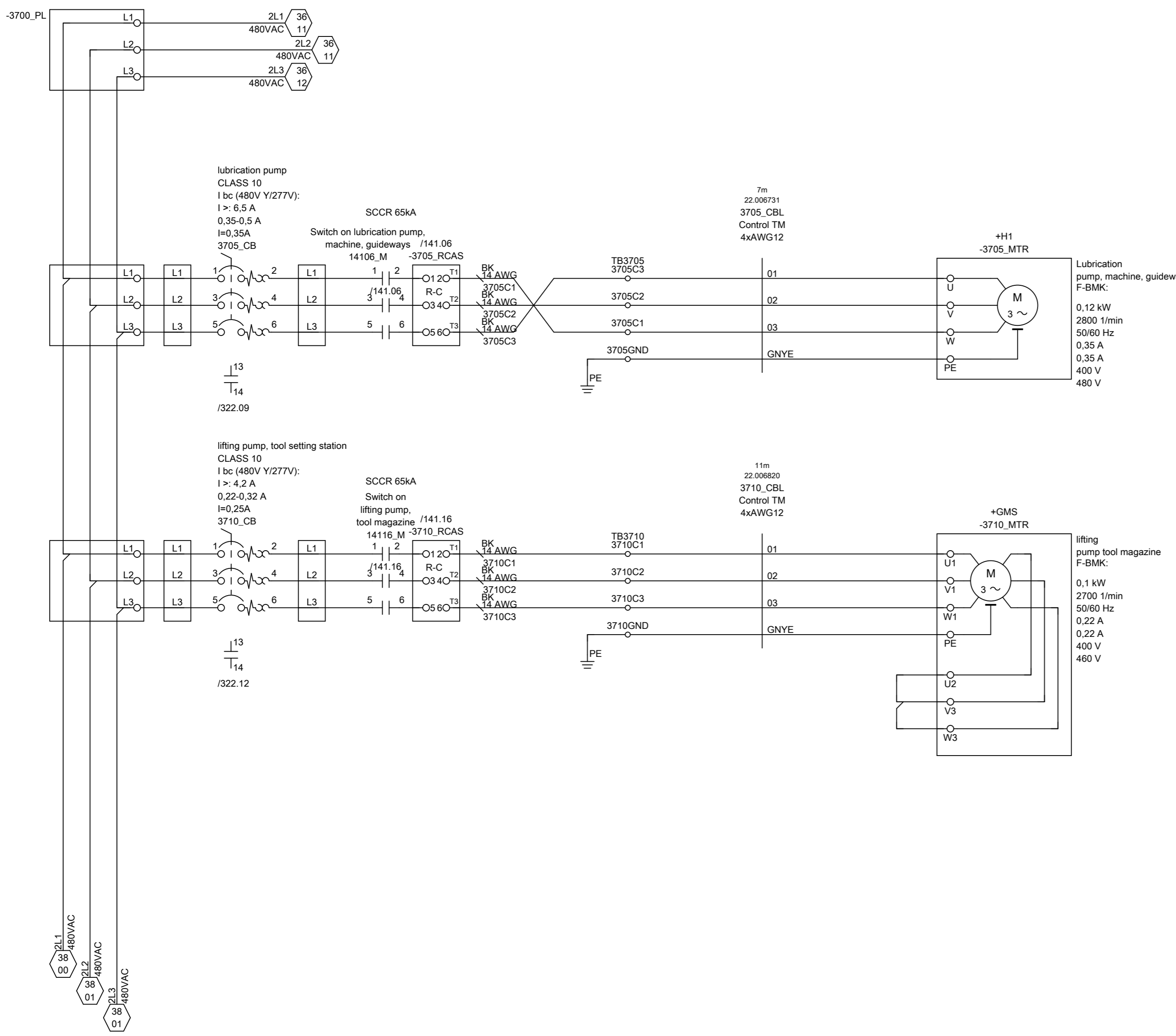


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	29.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet
34				Sheet	36



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Auxiliary drives				Inv.No.	
				Number of sheets 265 Sheet 36	
ePLAN P8 2.2.5		=54793		◀ 35 Sheet 37 ▶	

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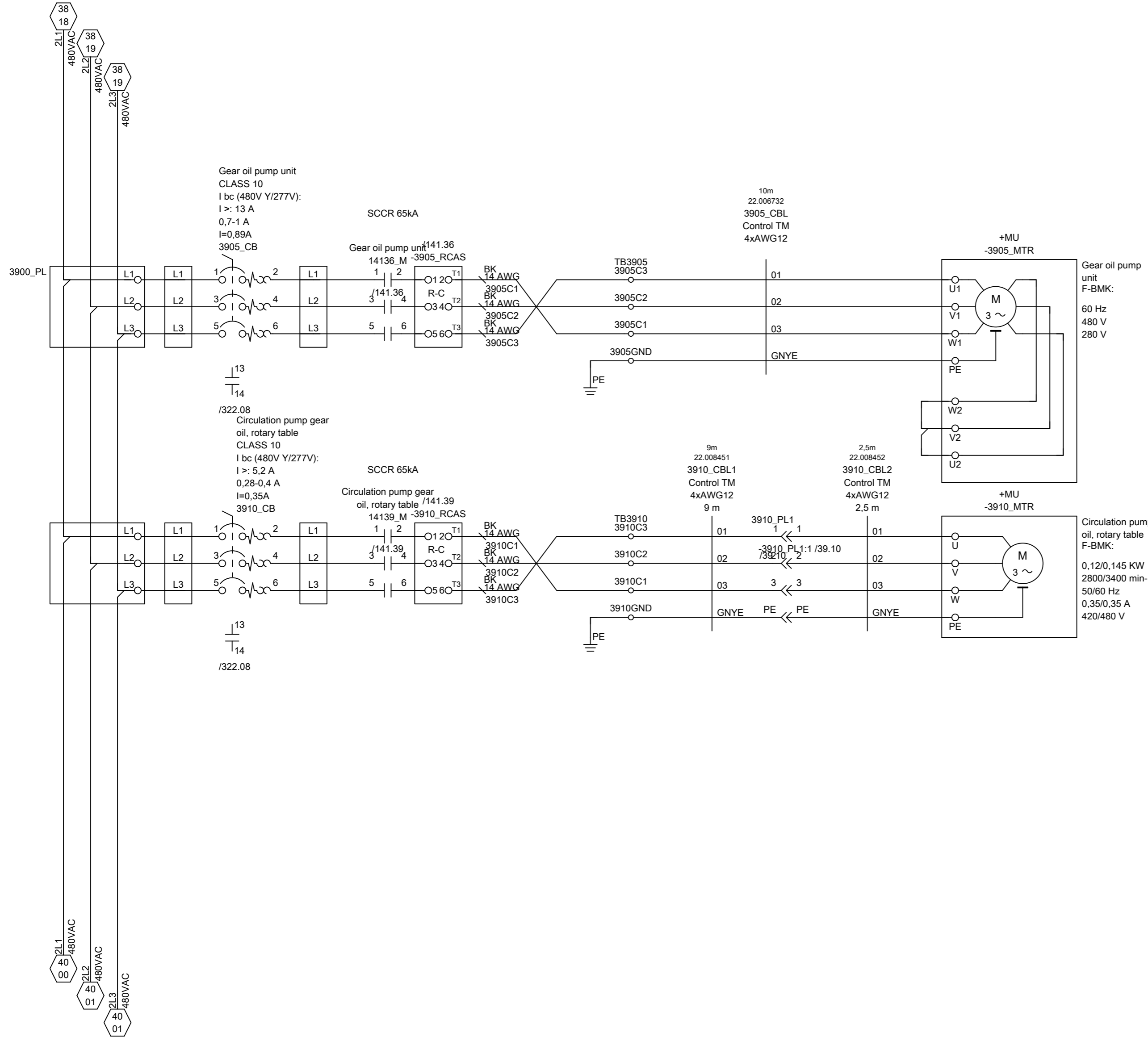


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet
◀ 36				Sheet	38 ▶



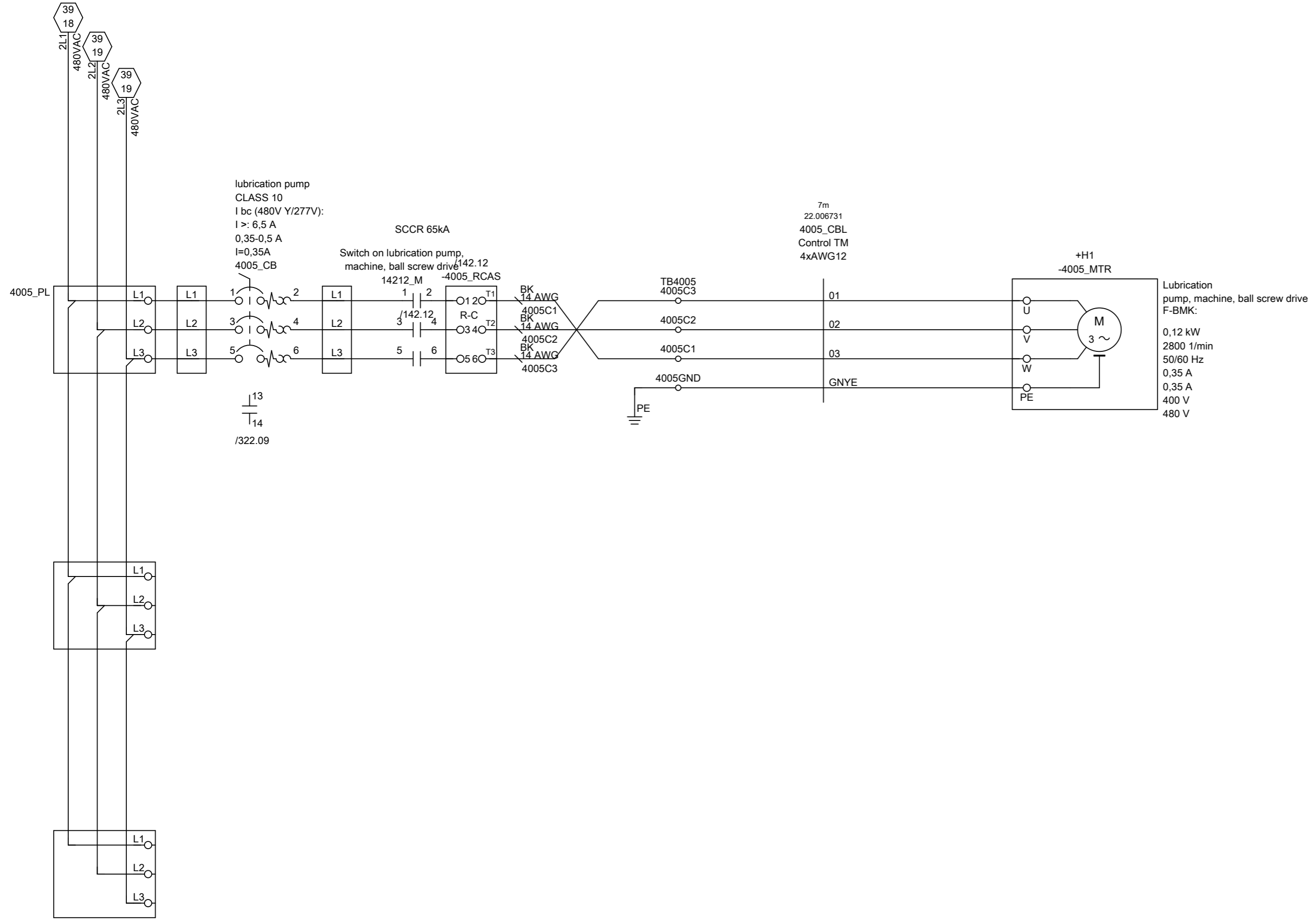
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Auxiliary drives				Number of sheets	
				265	Sheet
ePLAN P8 2.2.5				=54793	37
				Sheet	39

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	29.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 39	
=54793				38 Sheet 40	

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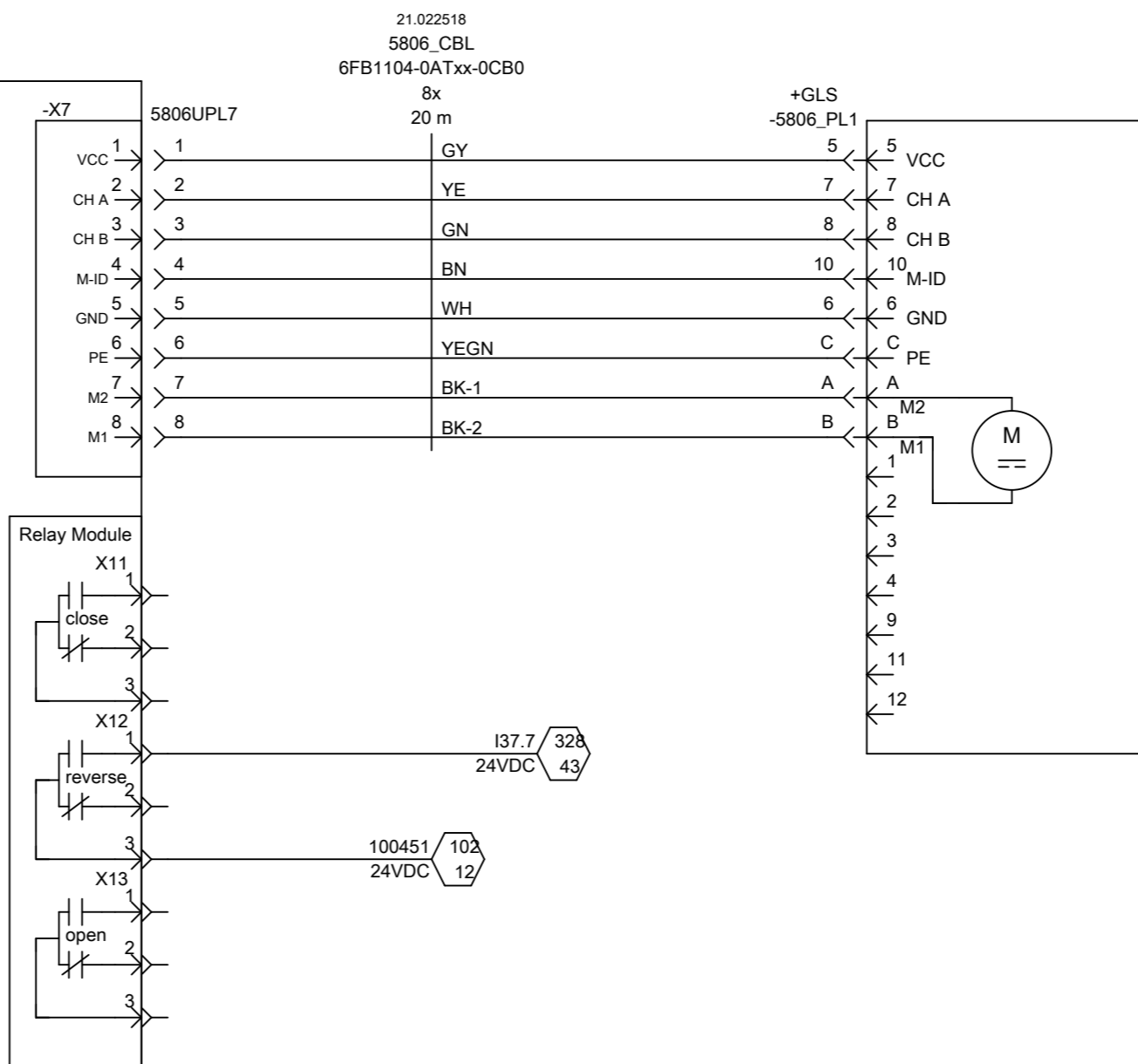
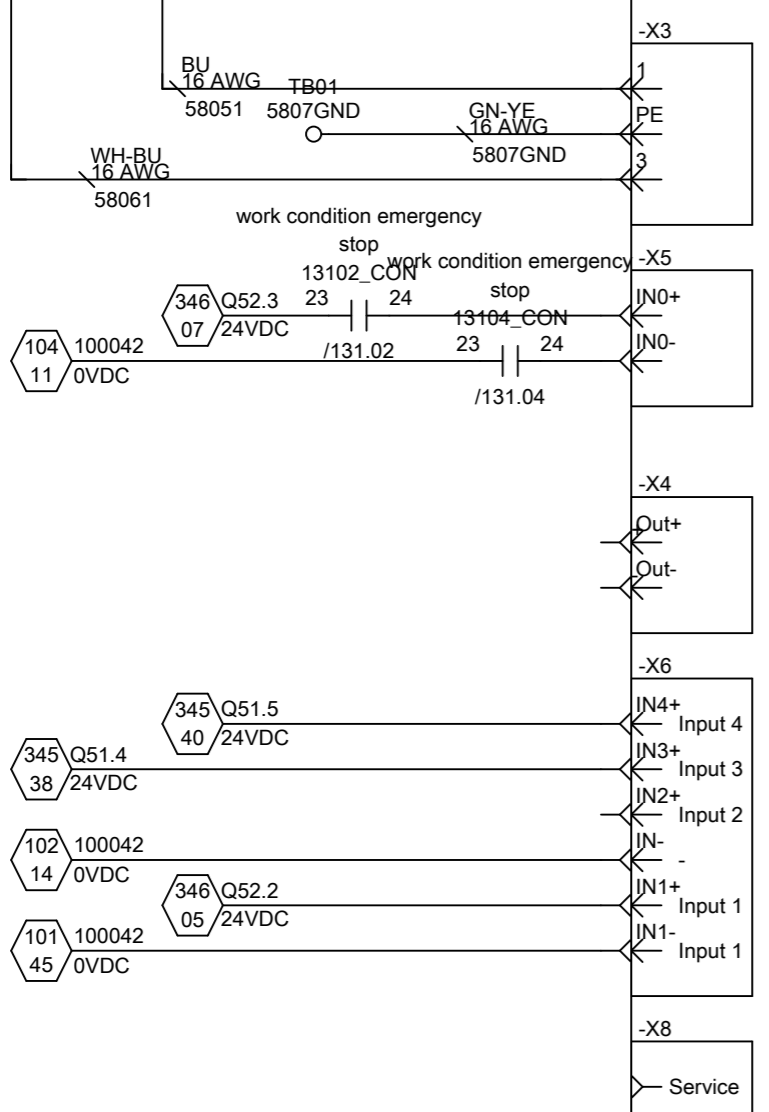
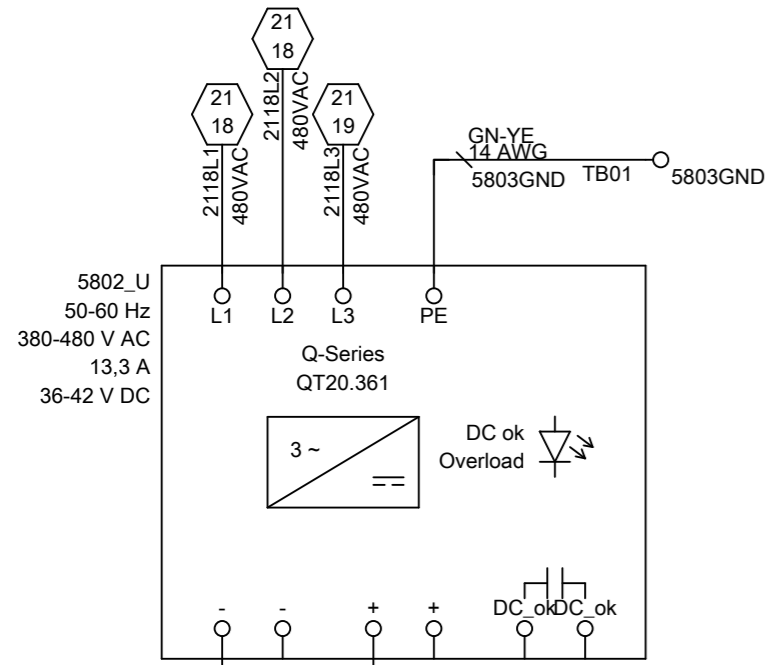


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/RIG			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 40	
=54793				◀ 39 Sheet 41	

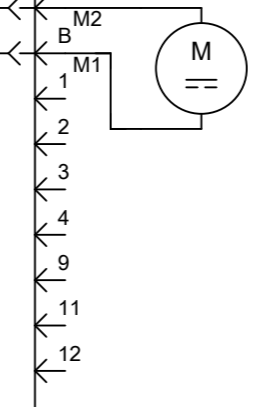
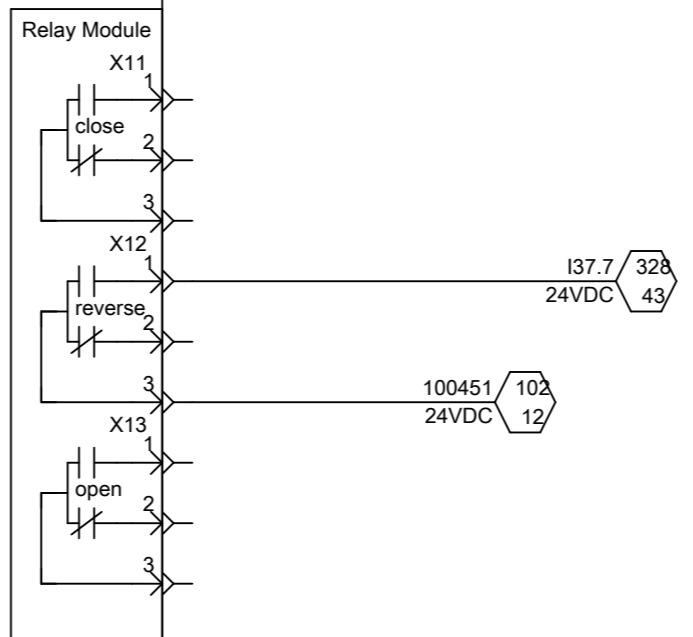
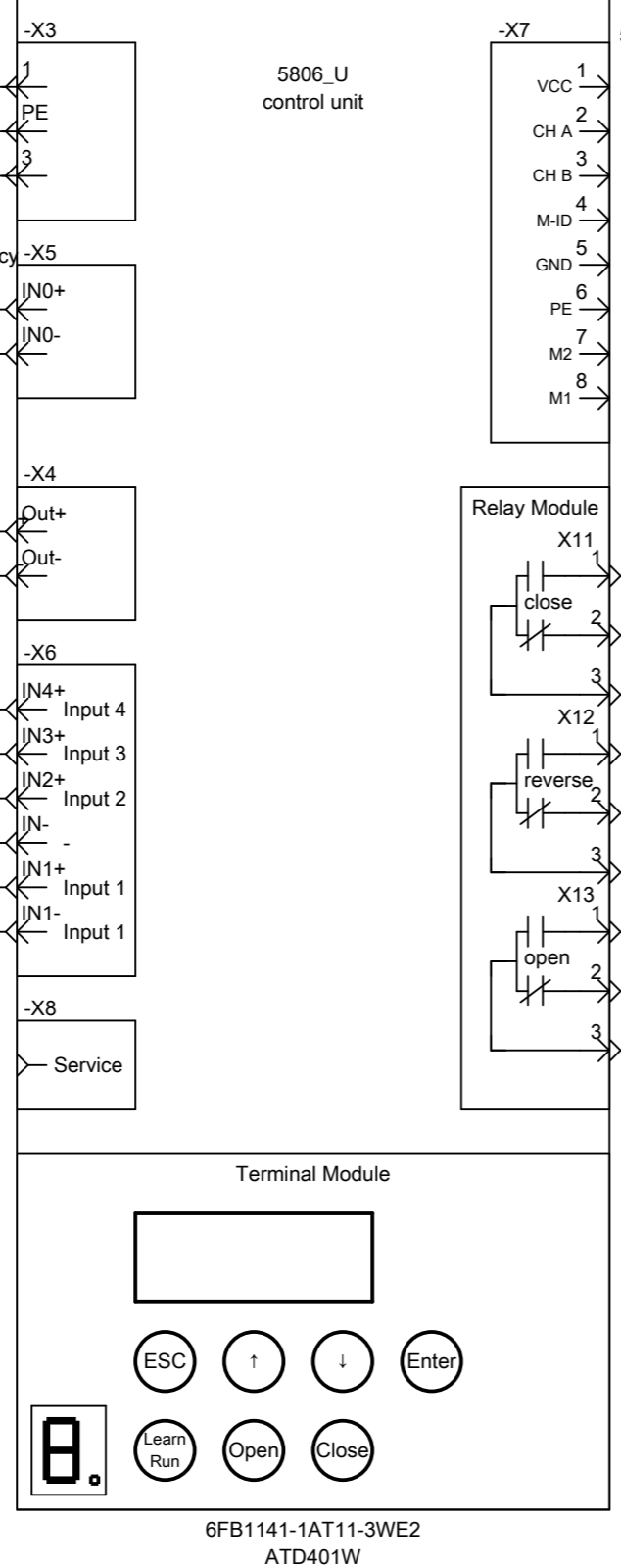
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Reserve page 41-57

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.02.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve page 41-57				Inv.No.	
				Number of sheets 265 Sheet 41	
ePLAN P8 2.2.5		=54793		◀ 40 Sheet 58 ▶	

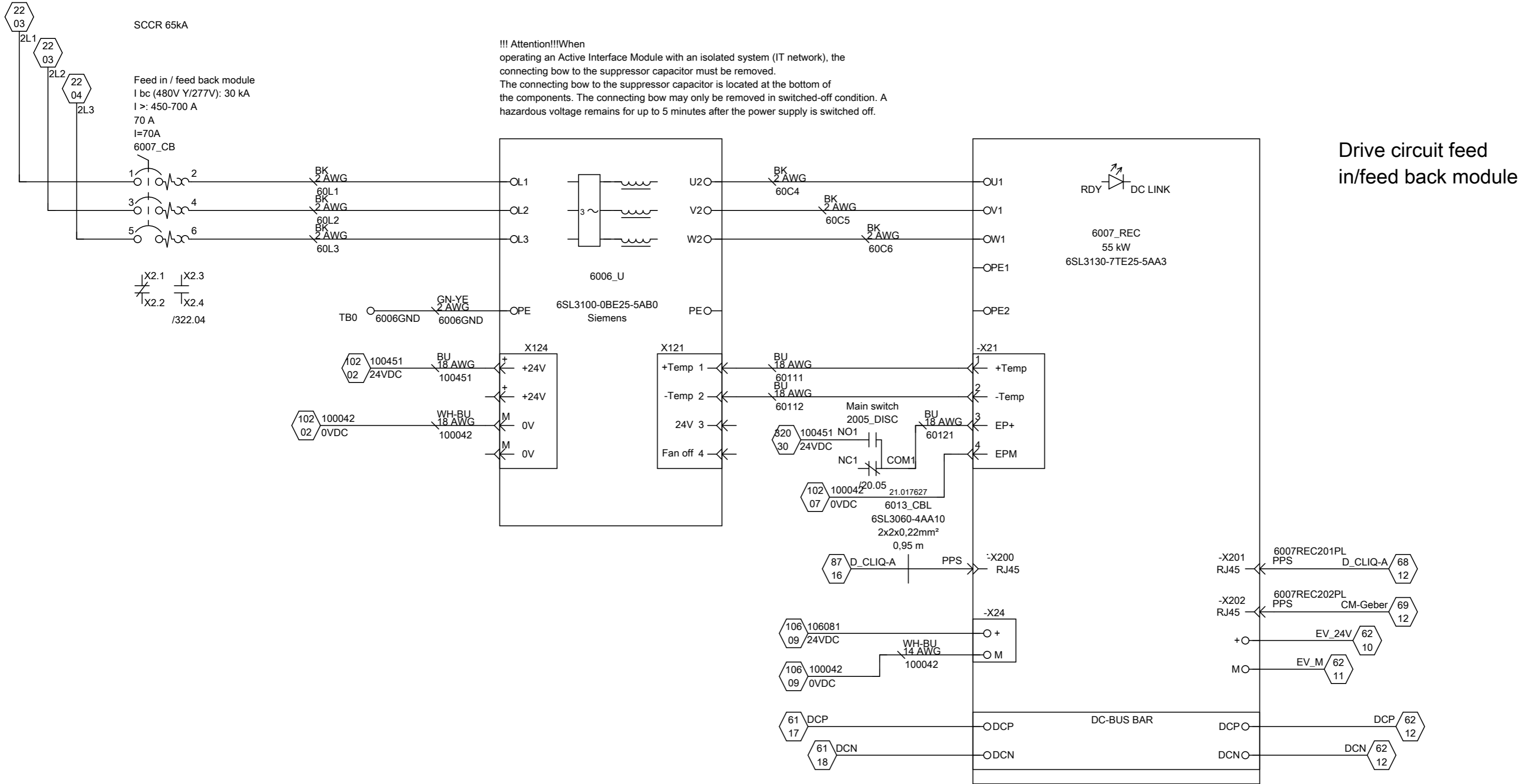


+GLS
-5806_MTR
30 V DC
4 A
80 W
0,75 m/s
SIDOOR MDG180 L
6FB1103-0AT14-4MB0



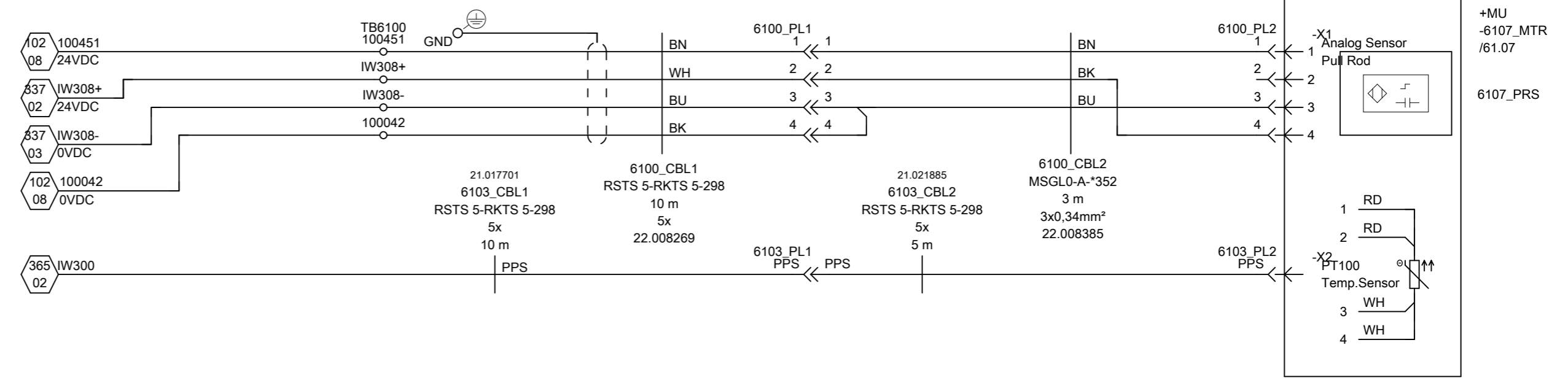
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	10.02.2016	AHP3/RIG			
Safety door drive, workpiece loading station				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 58	
=54793				41 Sheet 60	

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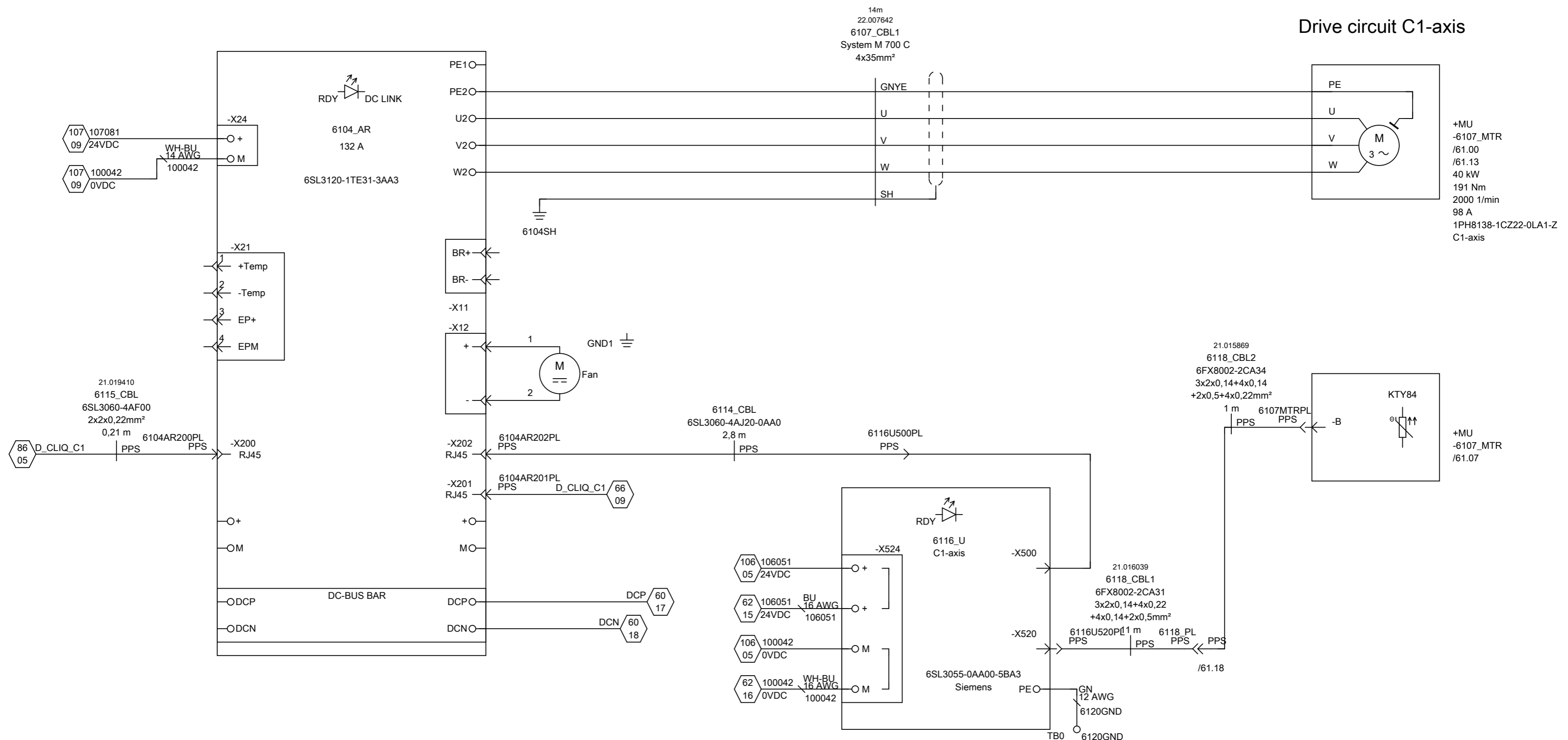


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit feed in/feed back module				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet 60
58				Sheet	61

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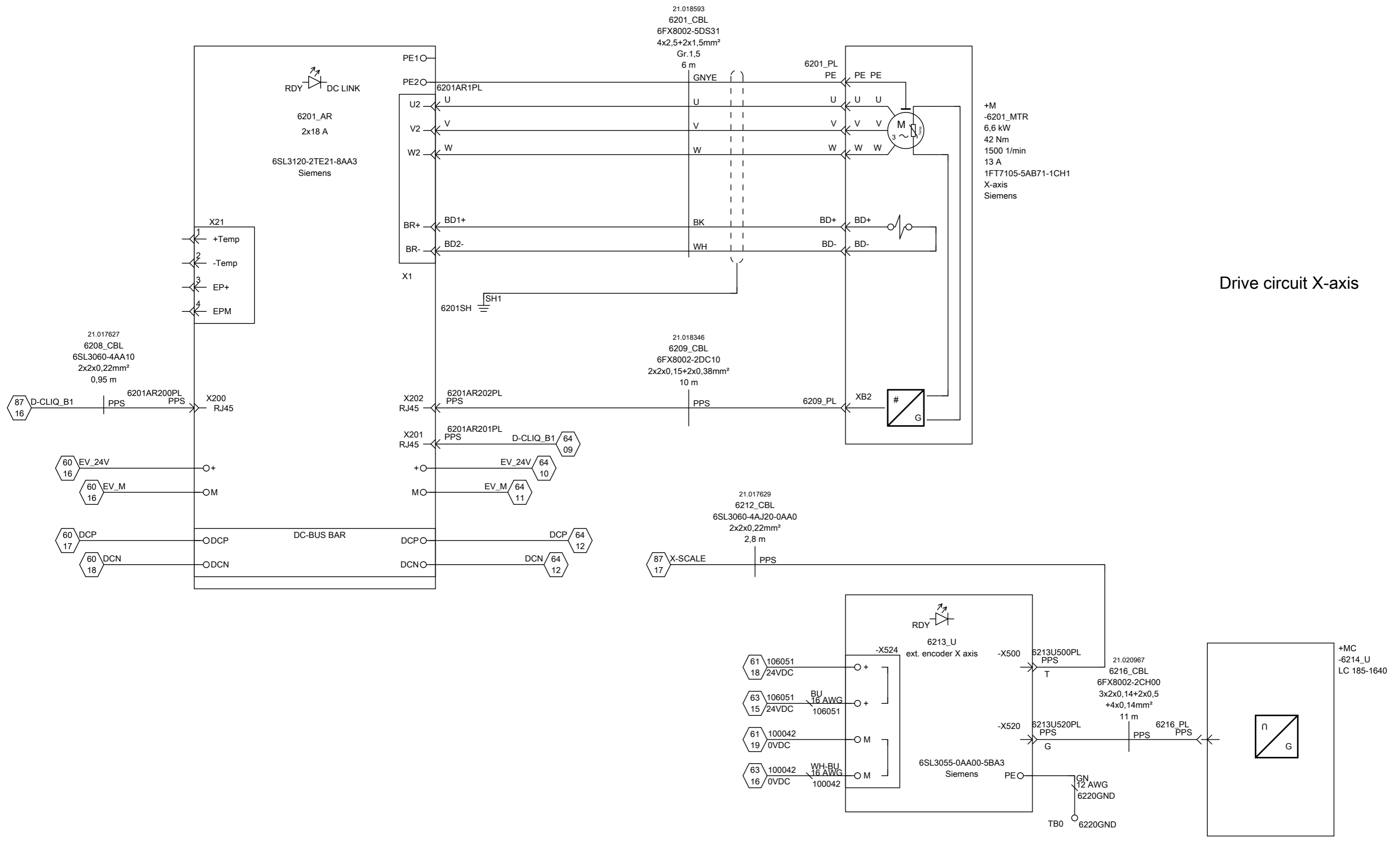


Drive circuit C1-axis



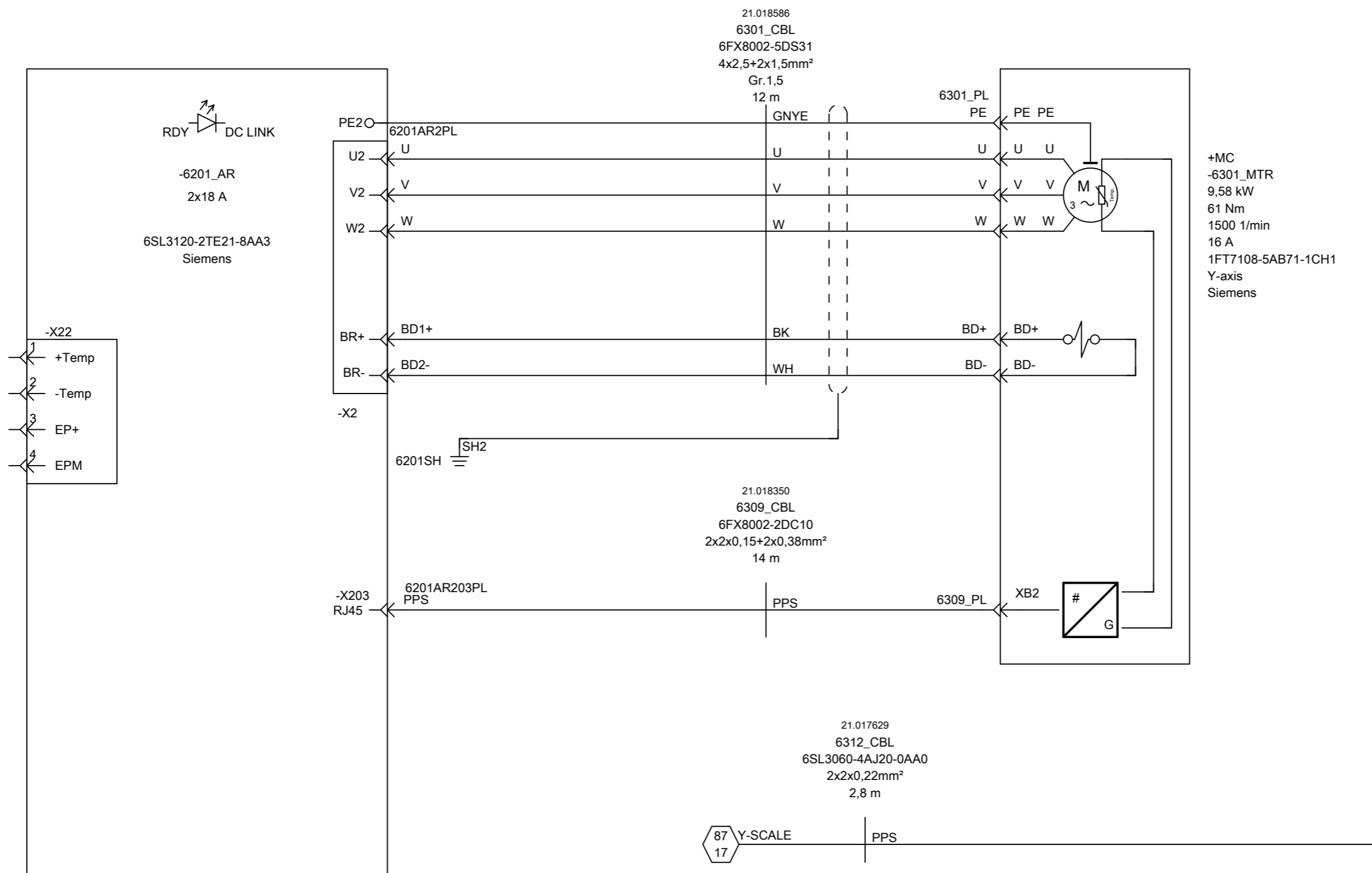
Project description P-009084				Project JIC_EP05479300	
				Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit C1-axis				Number of sheets 265 Sheet 61	
ePLAN P8 2.2.5		=54793		60	Sheet 62

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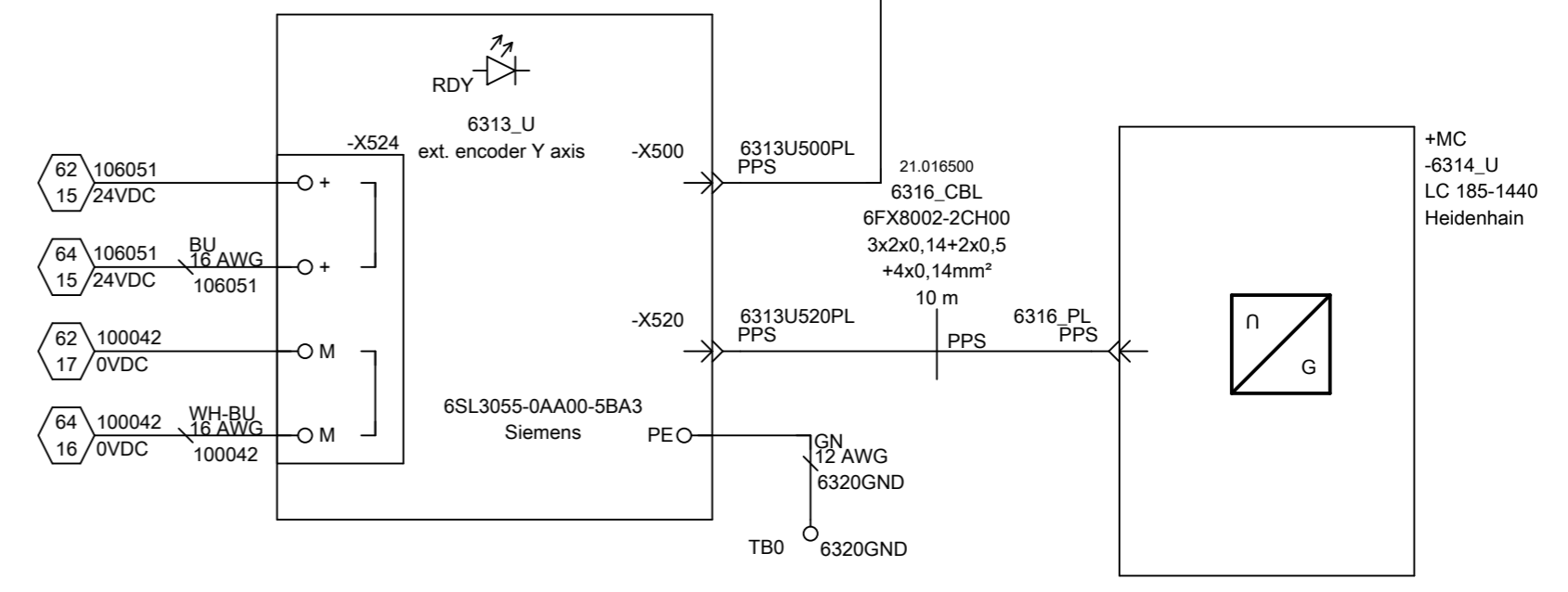


Drive circuit X-axis

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit X-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 62	
=54793				61 Sheet 63	

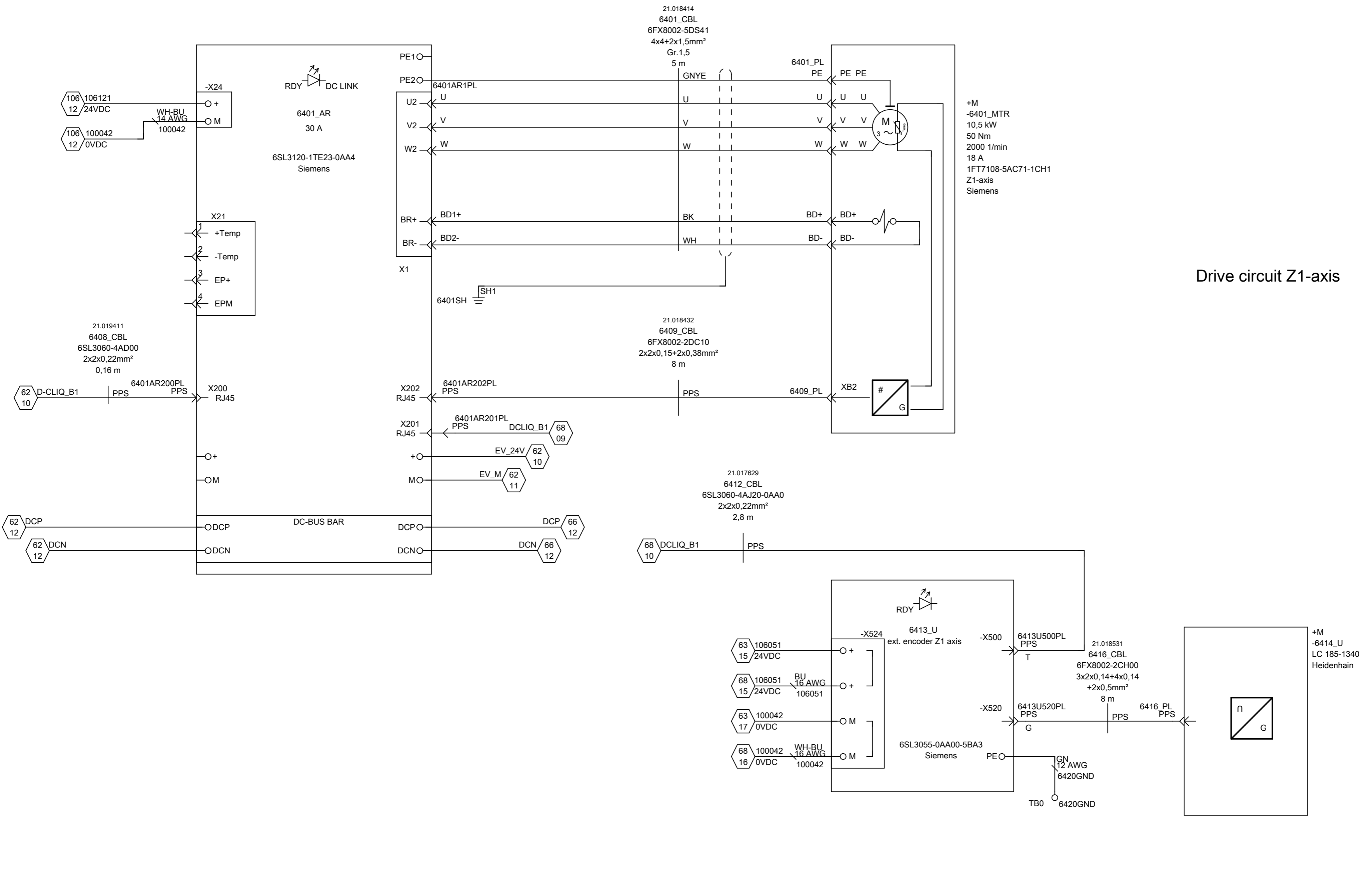


Drive circuit Y-axis



Project description P-009084			Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Y-axis			Inv.No.		
ePLAN P8 2.2.5			=54793		
Number of sheets			265	Sheet	63
62			Sheet 64		

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Drive circuit Z1-axis

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-6414_U
LC 185-1340
Heidenhain

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Z1-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265 Sheet	
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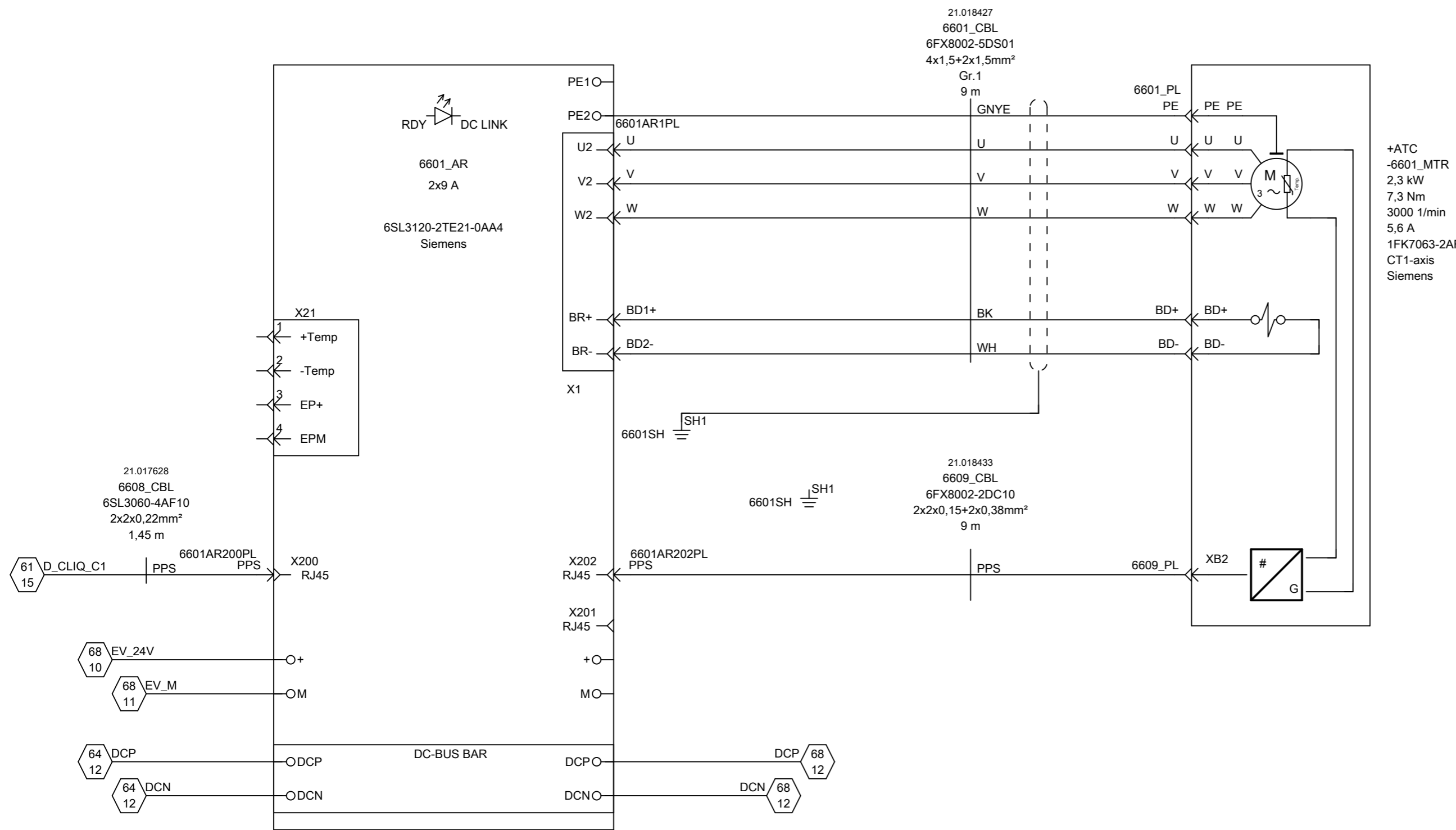
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Z2-axis				Inv.No.	
				Number of sheets 265 Sheet 65	
ePLAN P8 2.2.5		=54793		◀ 64 Sheet 66 ▶	

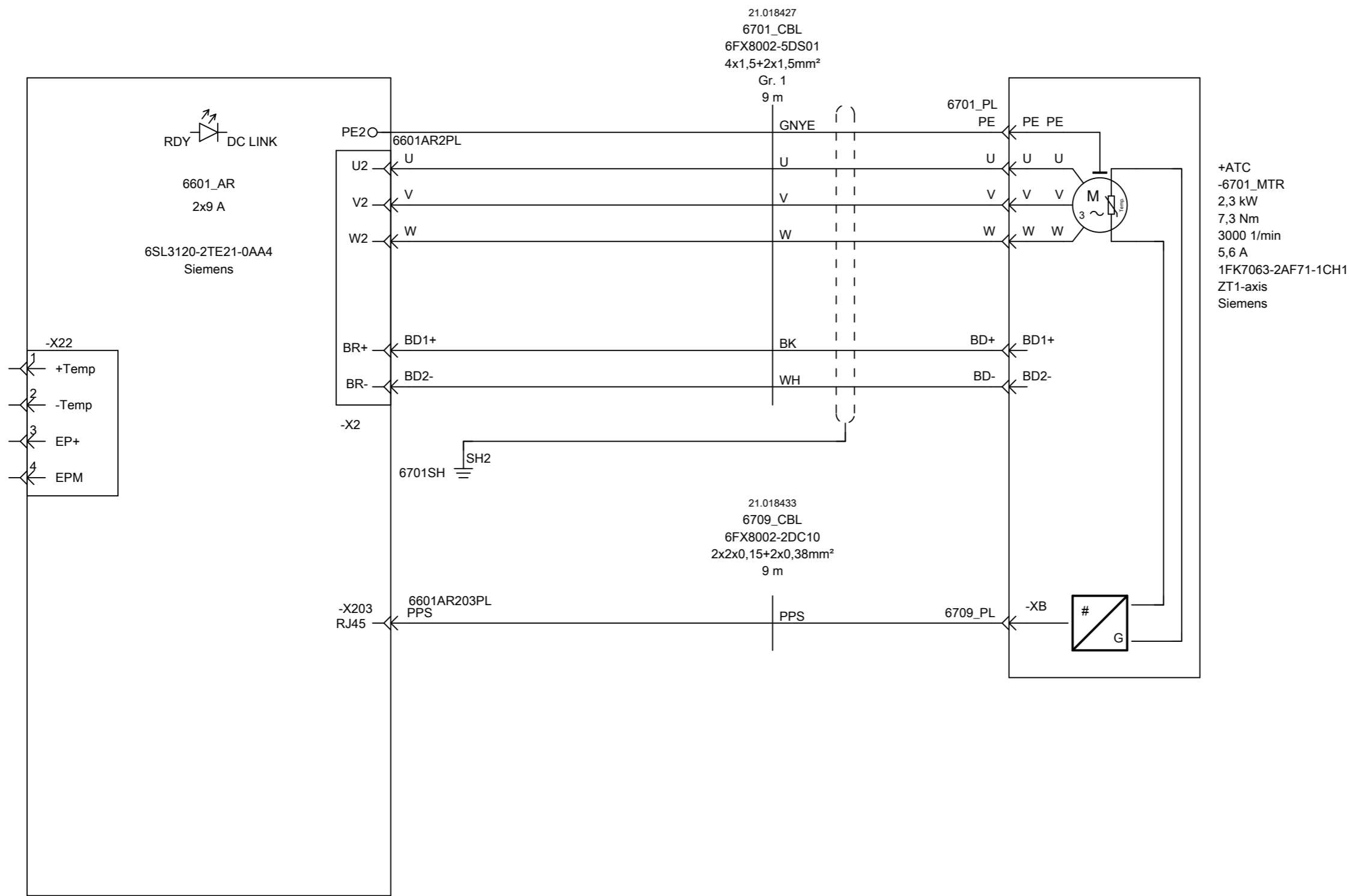
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CT1-axis
Siemens

Drive circuit CT1-axis

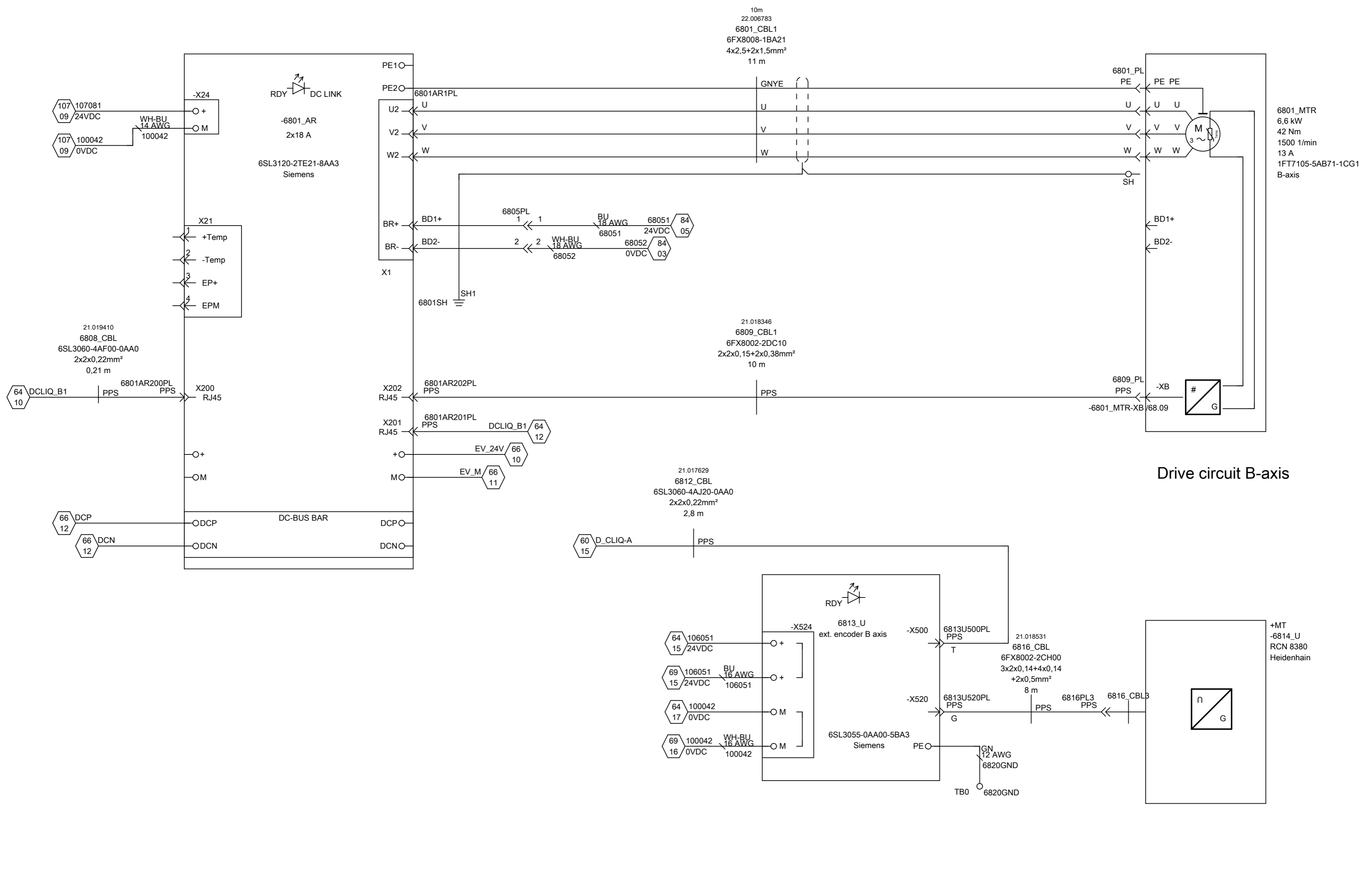
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit CT1-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 66	
=54793				65 Sheet 67	



Drive circuit ZT1-axis

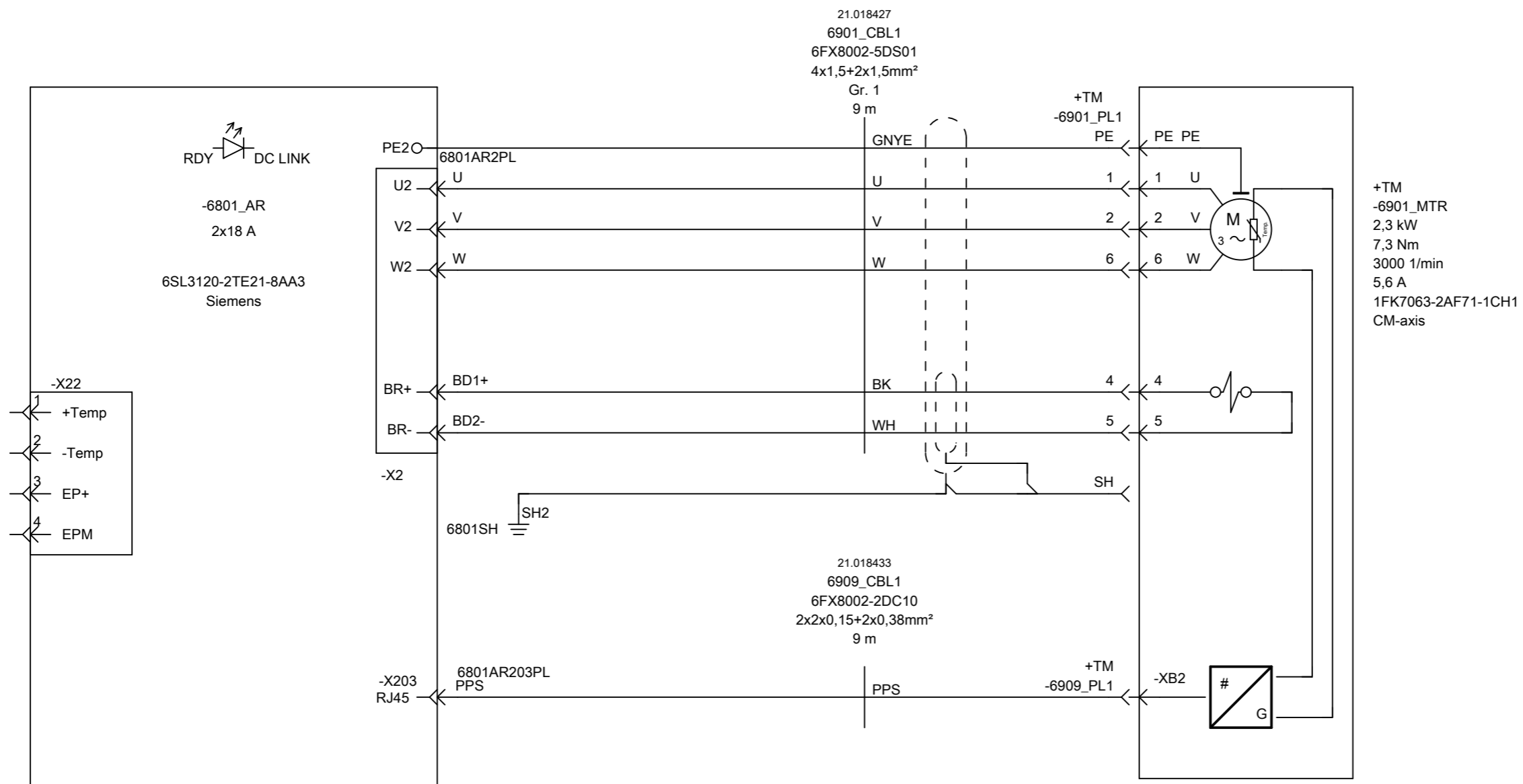
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit ZT1-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 67	
=54793				66 Sheet 68	

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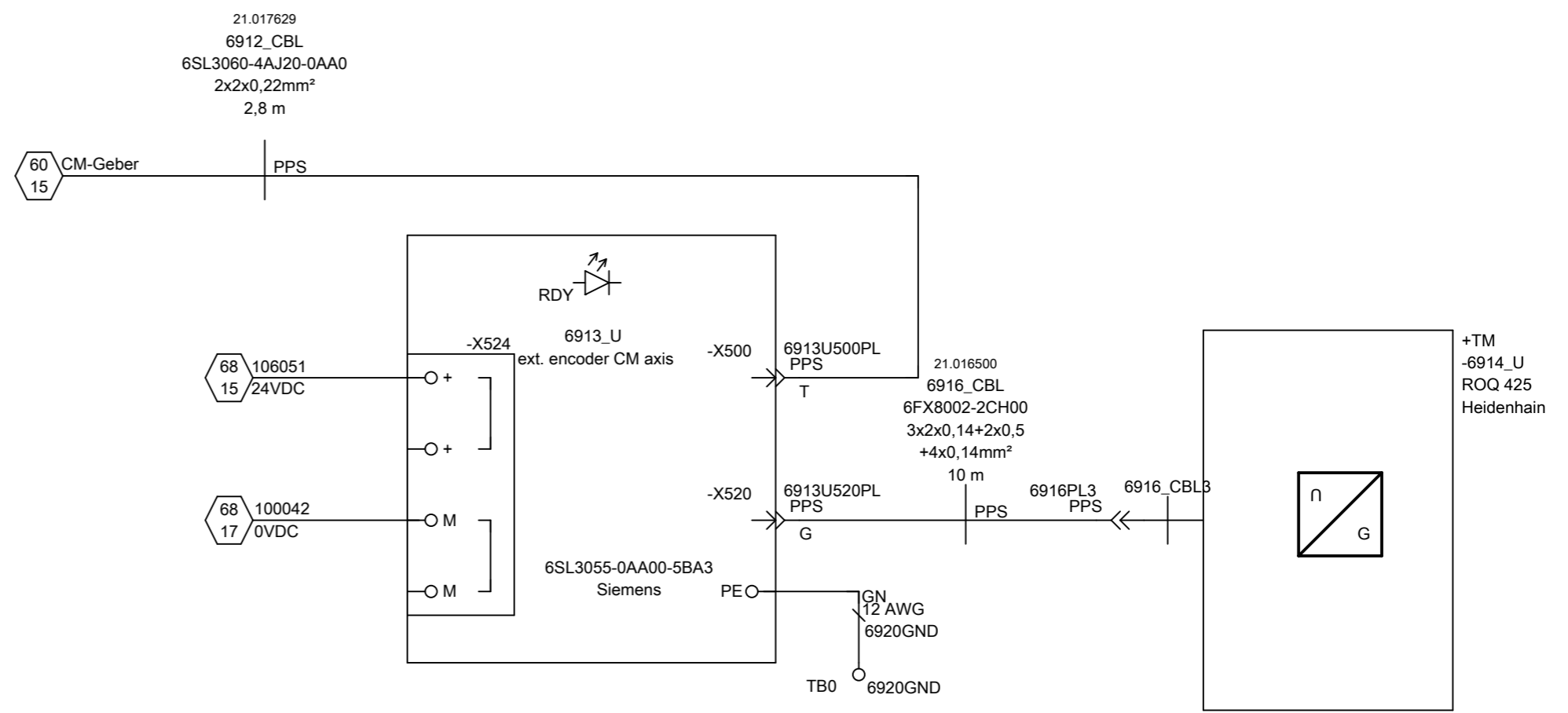


Drive circuit B-axis

Project description P-009084				Project JIC_EP05479300	
				Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit B-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				67	69



Drive circuit CM-axis



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit CM-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 69	
=54793				68 Sheet 70	

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit XM-axis				Inv.No.	
				Number of sheets 265 Sheet 70	
ePLAN P8 2.2.5		=54793		◀ 69 Sheet 71 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit YM-axis				Number of sheets 265 Sheet 71	
ePLAN P8 2.2.5		=54793		70	Sheet 72

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit ZM-axis				Number of sheets 265 Sheet 72	
ePLAN P8 2.2.5		=54793		71	Sheet 73

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit BM-axis				Number of sheets 265 Sheet 73	
ePLAN P8 2.2.5		=54793		72	Sheet 74

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit BP-axis				Number of sheets 265 Sheet 74	
ePLAN P8 2.2.5		=54793		73	Sheet 75

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit BR-axis				Number of sheets 265 Sheet 75	
ePLAN P8 2.2.5		=54793		74	Sheet 76

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Drive circuit U-axis				Inv.No.	
				Number of sheets	265
ePLAN P8 2.2.5				=54793	Sheet
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
reserve drive circuit C-axis					
				Number of sheets	265
ePLAN P8 2.2.5				=54793	Sheet
				76	78

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve drive switching				Number of sheets 265 Sheet 78	
ePLAN P8 2.2.5		=54793		77	Sheet 79

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Voltage Sensing Module				Inv.No.	
				Number of sheets	265
ePLAN P8 2.2.5				=54793	Sheet
				78	80

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit, temperature evaluation, F-series torque motor				Number of sheets 265 Sheet 80	
ePLAN P8 2.2.5		=54793		79	Sheet 81

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Reserve

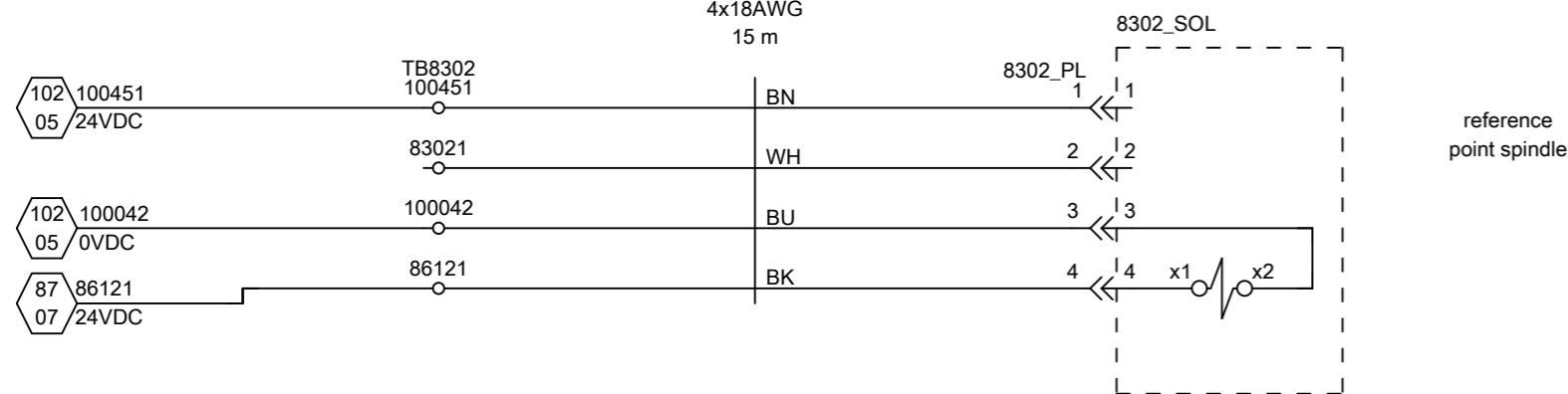
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Drive circuit, external encoder evaluation (measuring scales), Fanuc only				Inv.No.	
ePLAN P8 2.2.5				=54793	Number of sheets
				80	Sheet
					265
					Sheet
					81
					82

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	22.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve HPC/PSC gear shifting				Number of sheets 265 Sheet 82	
ePLAN P8 2.2.5		=54793		81	Sheet 83

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15m
22.005494
8302_CBL
RST4-RKWT4-637
4x18AWG
15 m

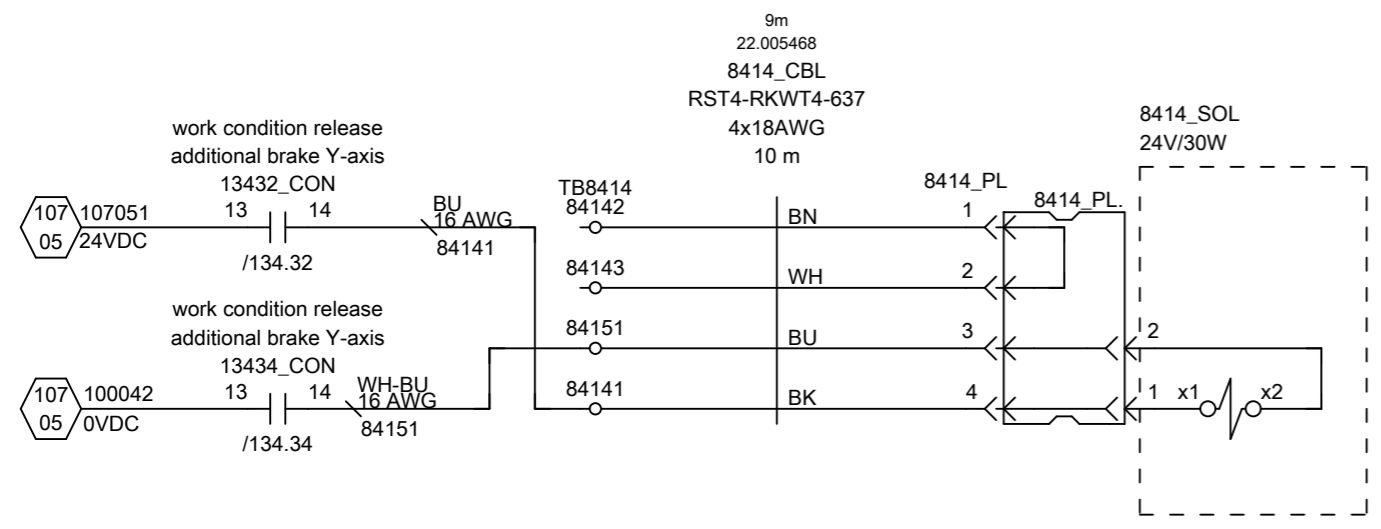
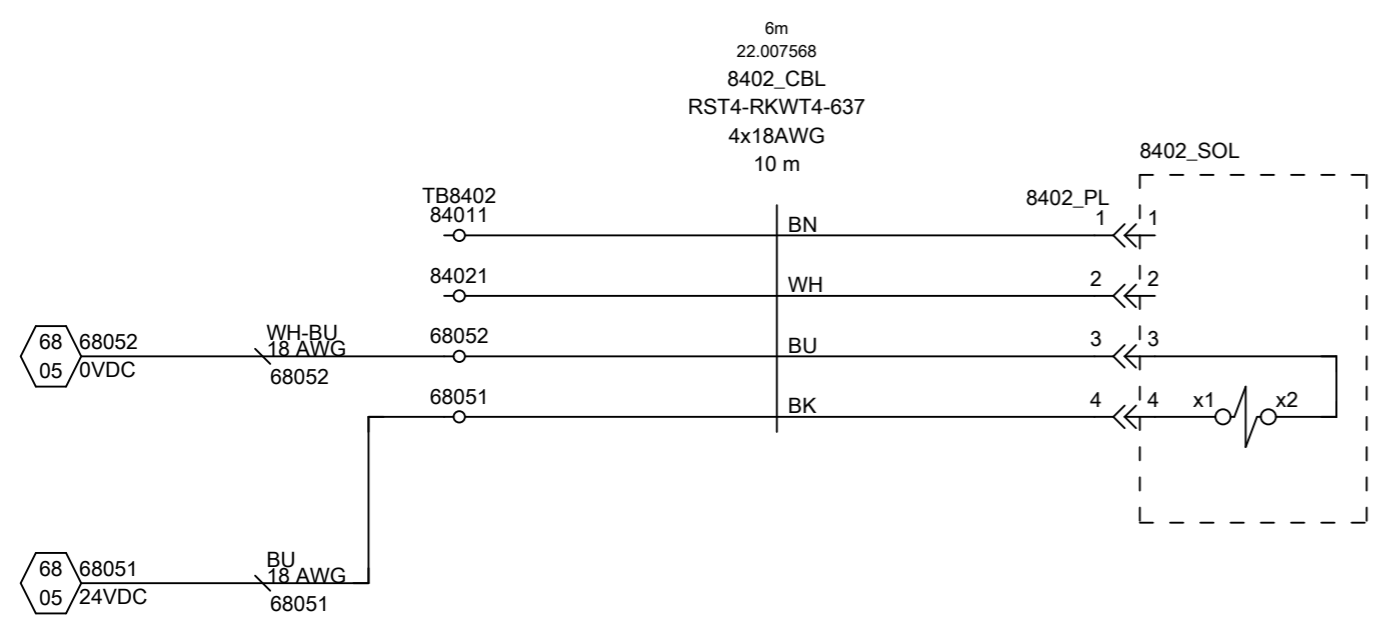


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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	01.12.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Monitoring: Reference point / Ext. encoder for gear unit				Number of sheets 265 Sheet 83	
ePLAN P8 2.2.5		=54793		82	Sheet 84

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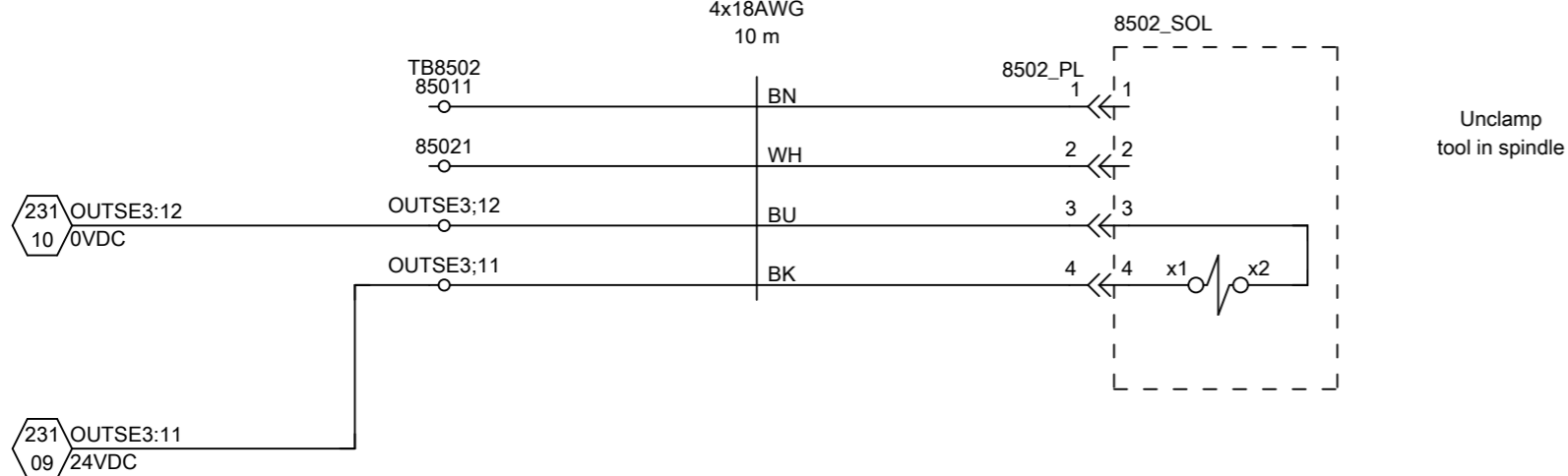
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	06.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Brake and lock control				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 84	
=54793				83 Sheet 85	

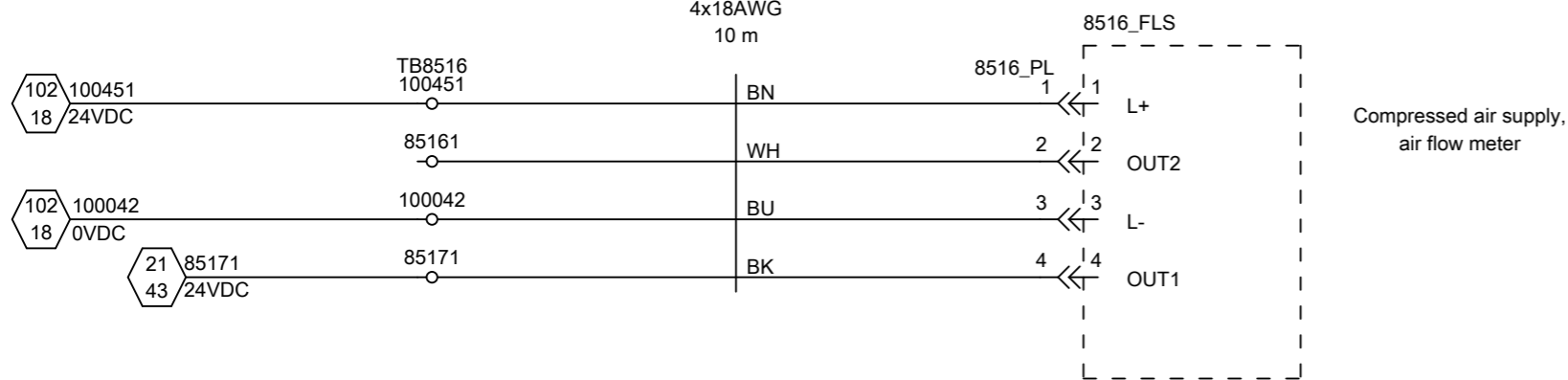
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10m
22.007689
8502_CBL
RST4-RKWT4-637
4x18AWG
10 m



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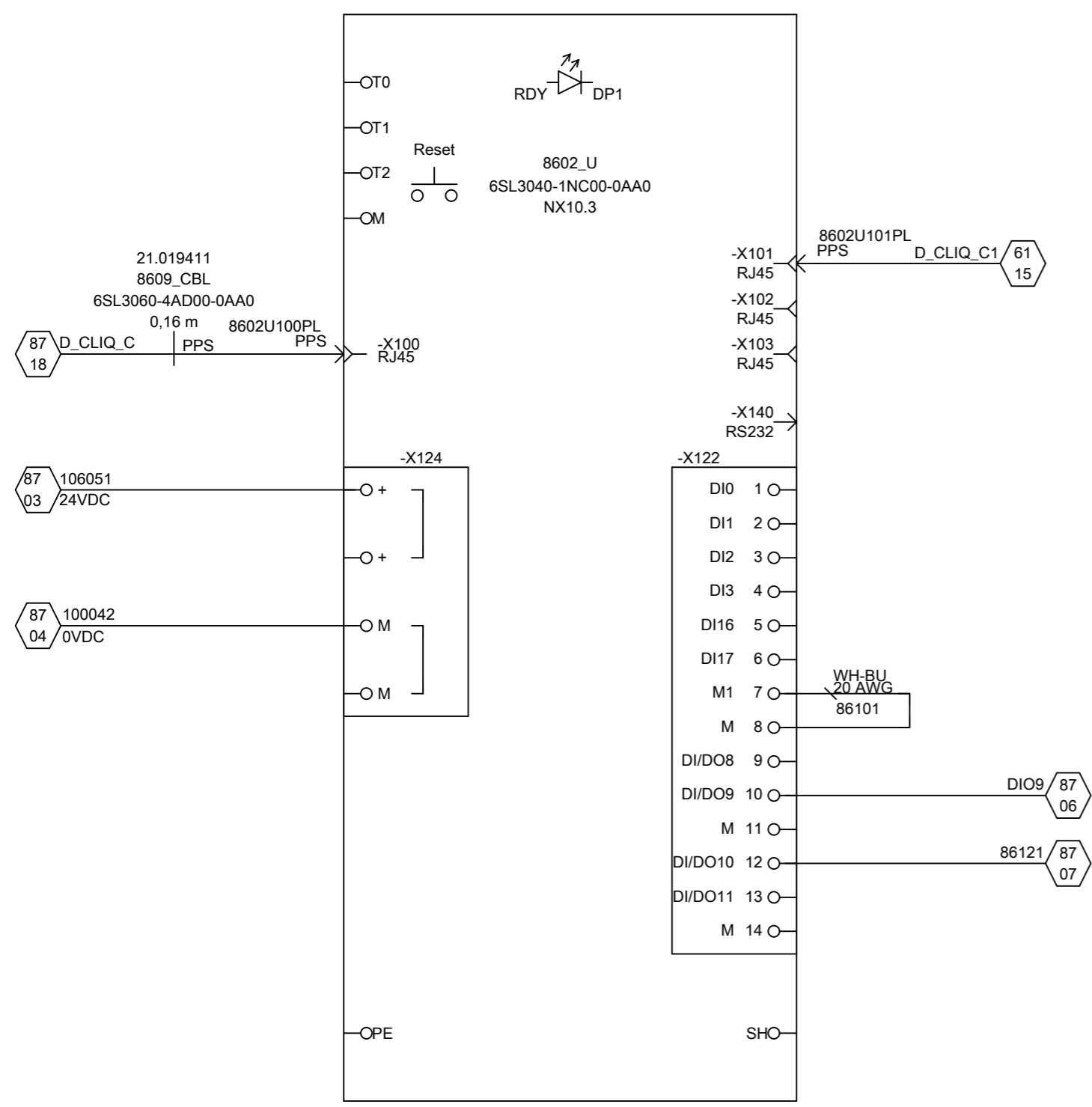
6m
22.007568
8516_CBL
RST4-RKWT4-637
4x18AWG
10 m



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Unclamp tool in spindle				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 85
				84	Sheet	86

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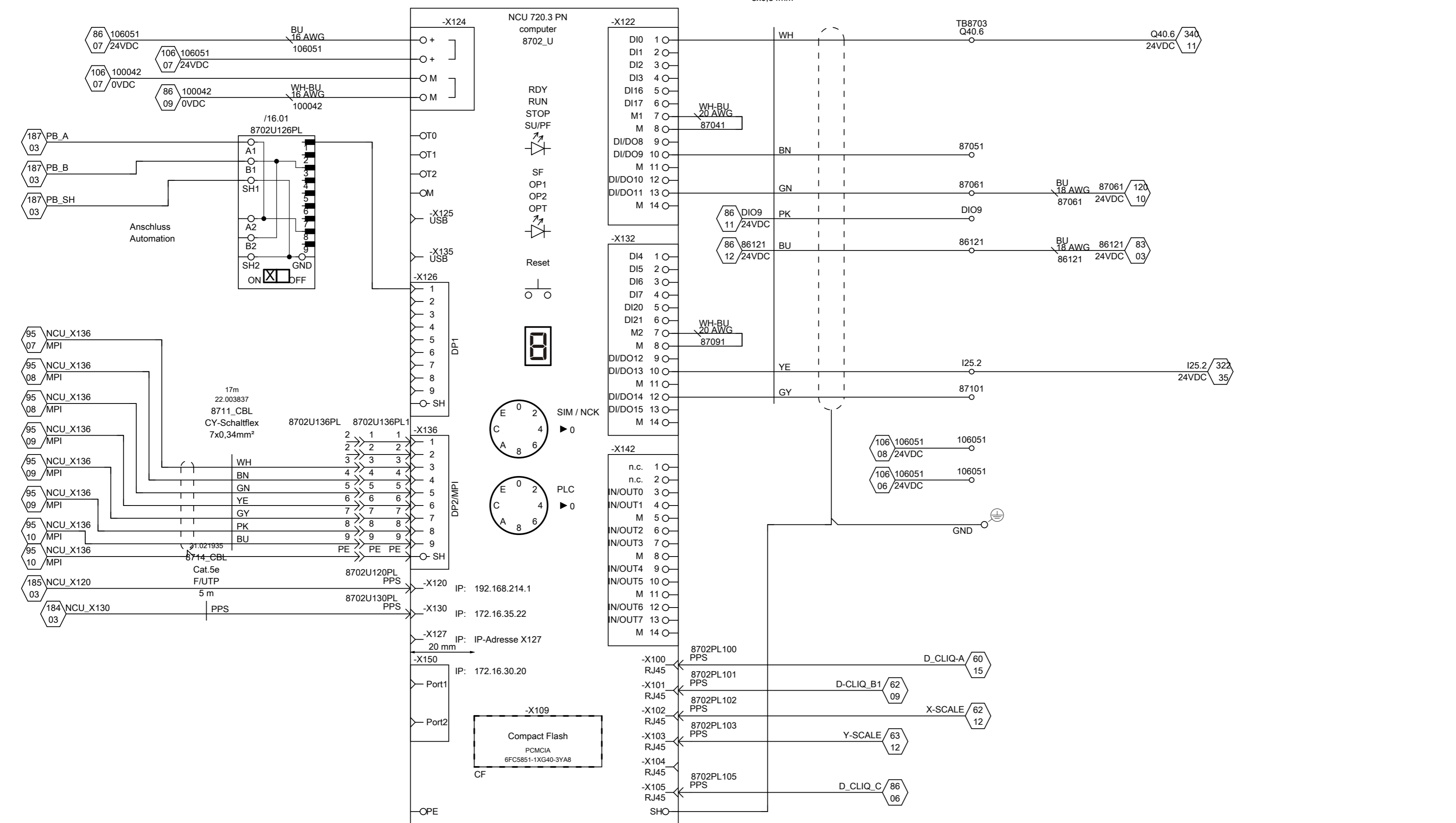
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Expansion assembly NC				Inv.No.	
				Number of sheets 265 Sheet 86	
ePLAN P8 2.2.5		=54793		85 Sheet 87	

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4m
22.007950
8702_CBL
CY-Schaltflex
8x0,34mm²



X120: 192.168.214.1
X130: 172.16.35.22
Profinet X150: 172.16.30.20

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit NC				Inv.No.	
Number of sheets				265	Sheet 87
ePLAN P8 2.2.5		=54793	86		Sheet 88

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 265 Sheet 88	
ePLAN P8 2.2.5		=54793		◀ 87 Sheet 89 ▶	

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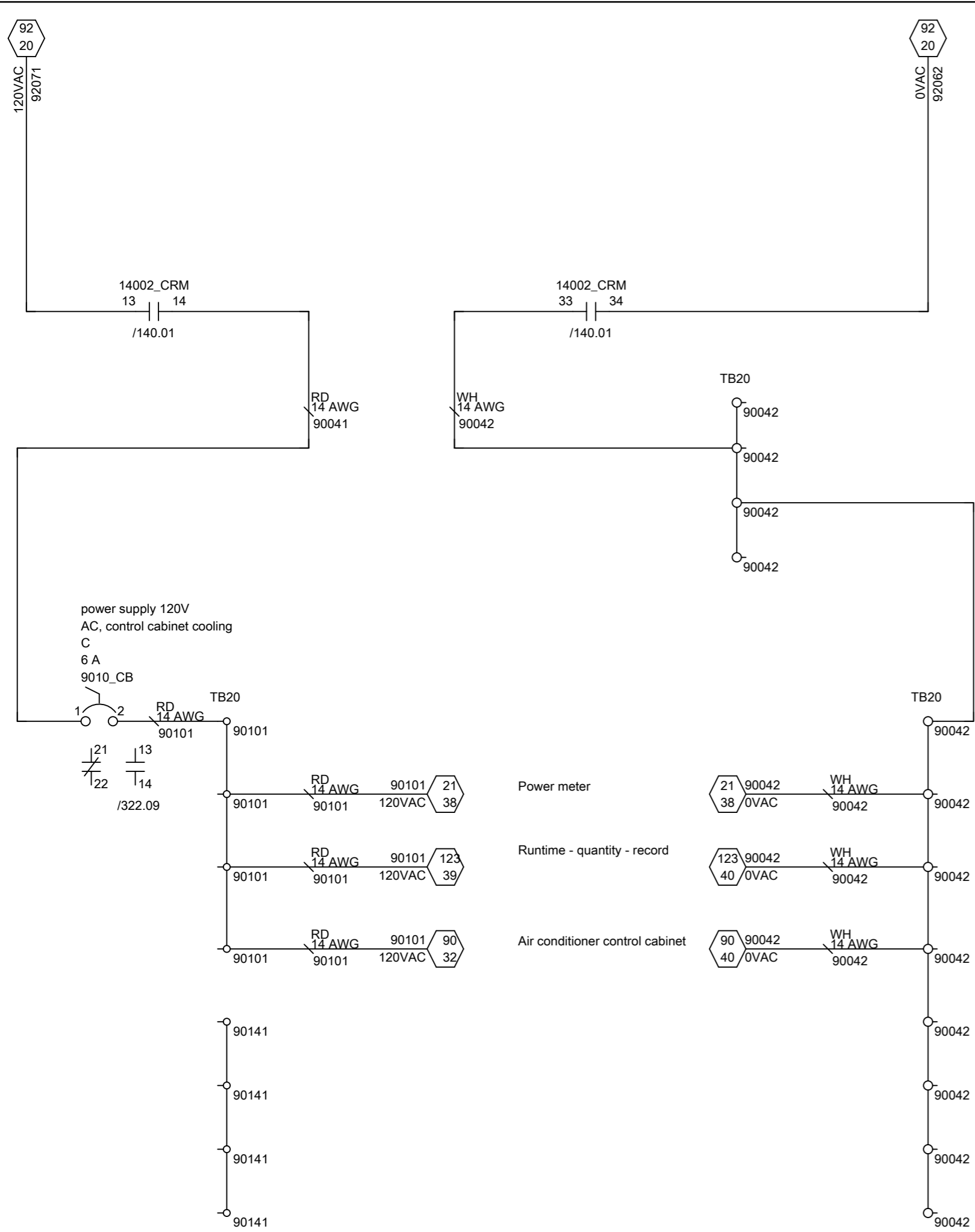
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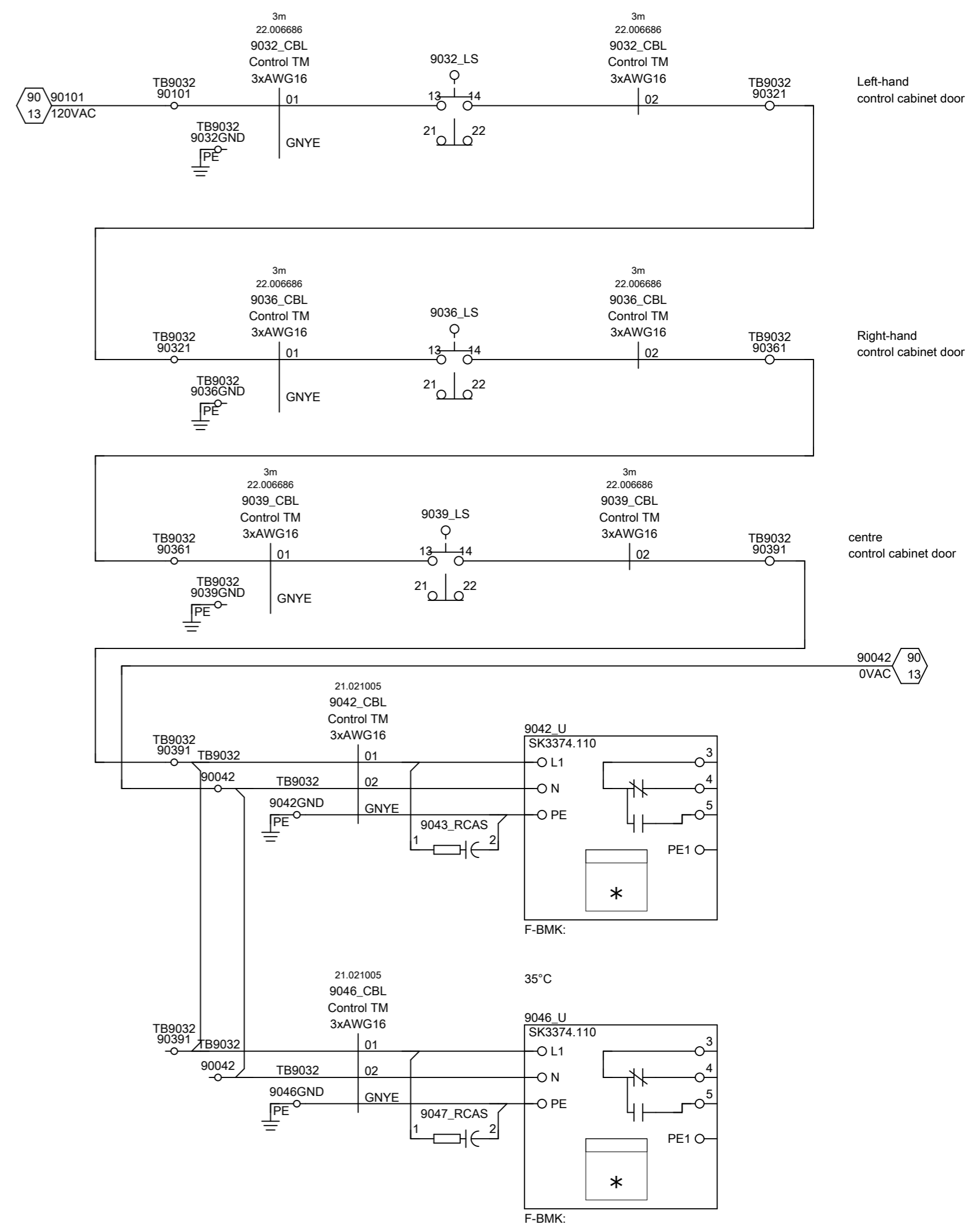
Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 265 Sheet 89	
ePLAN P8 2.2.5		=54793		◀ 88 Sheet 90 ▶	

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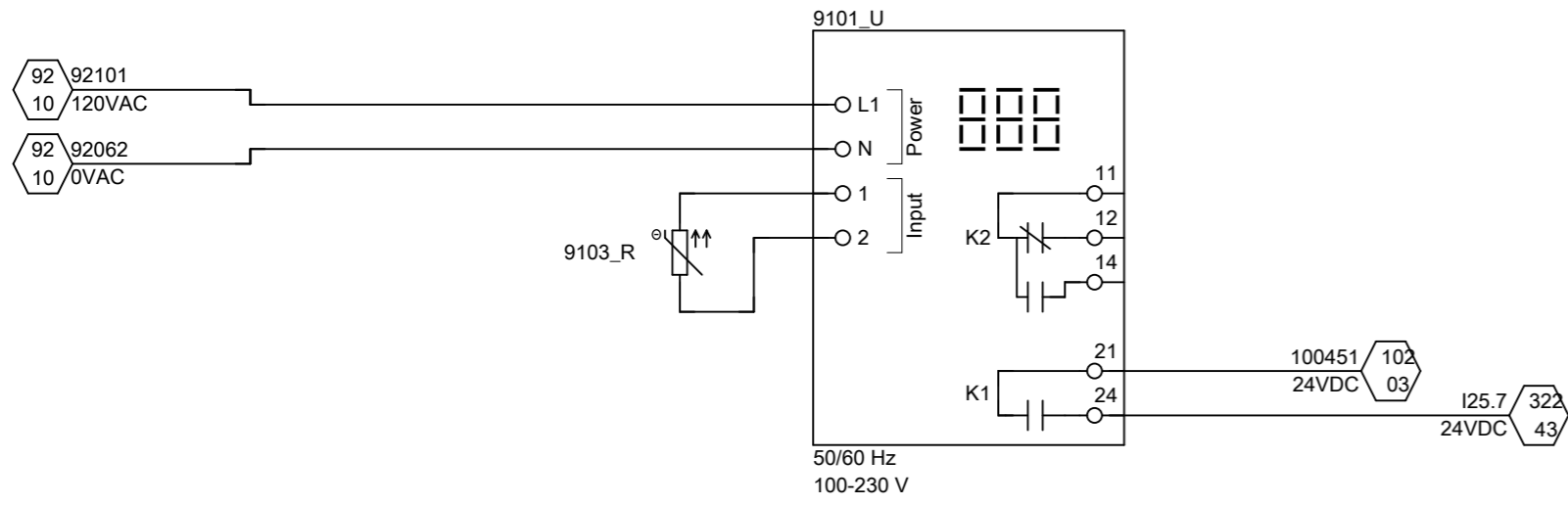
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of sheets 265 Sheet 90	
power supply 120V AC				Inv.No.	
ePLAN P8 2.2.5		=54793		Number of sheets 265 Sheet 90	

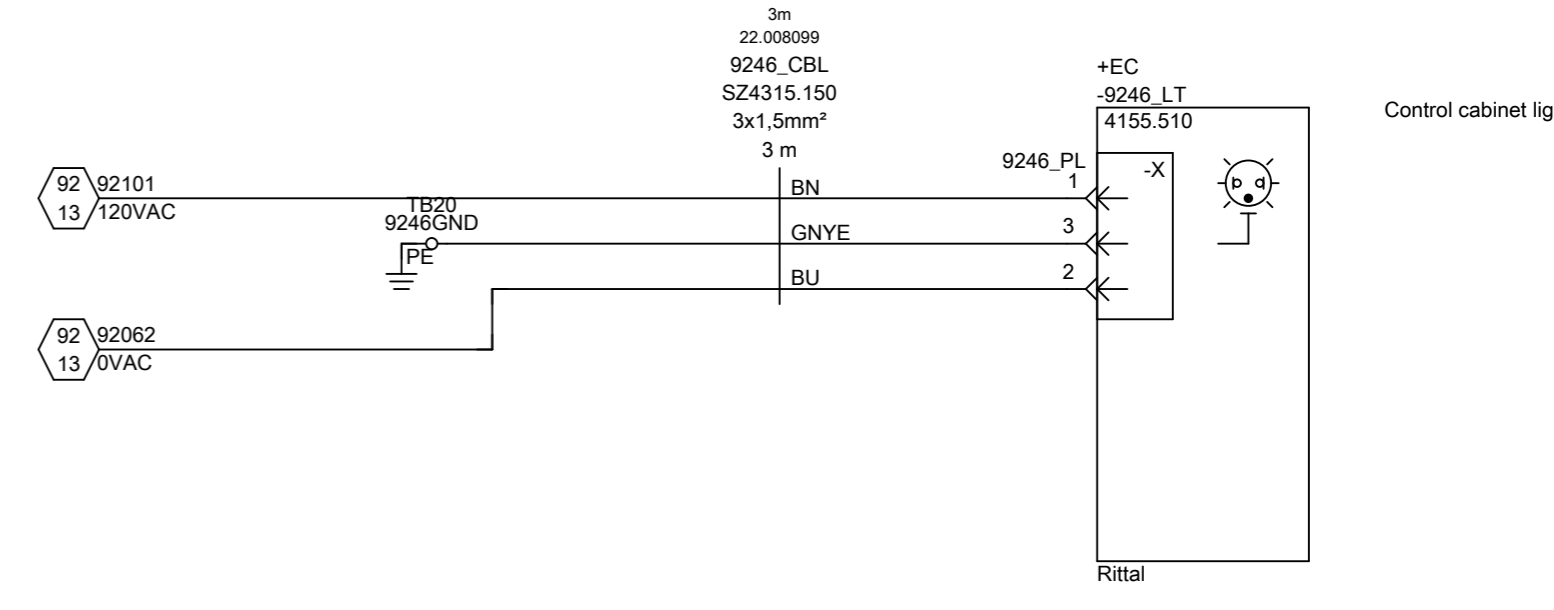
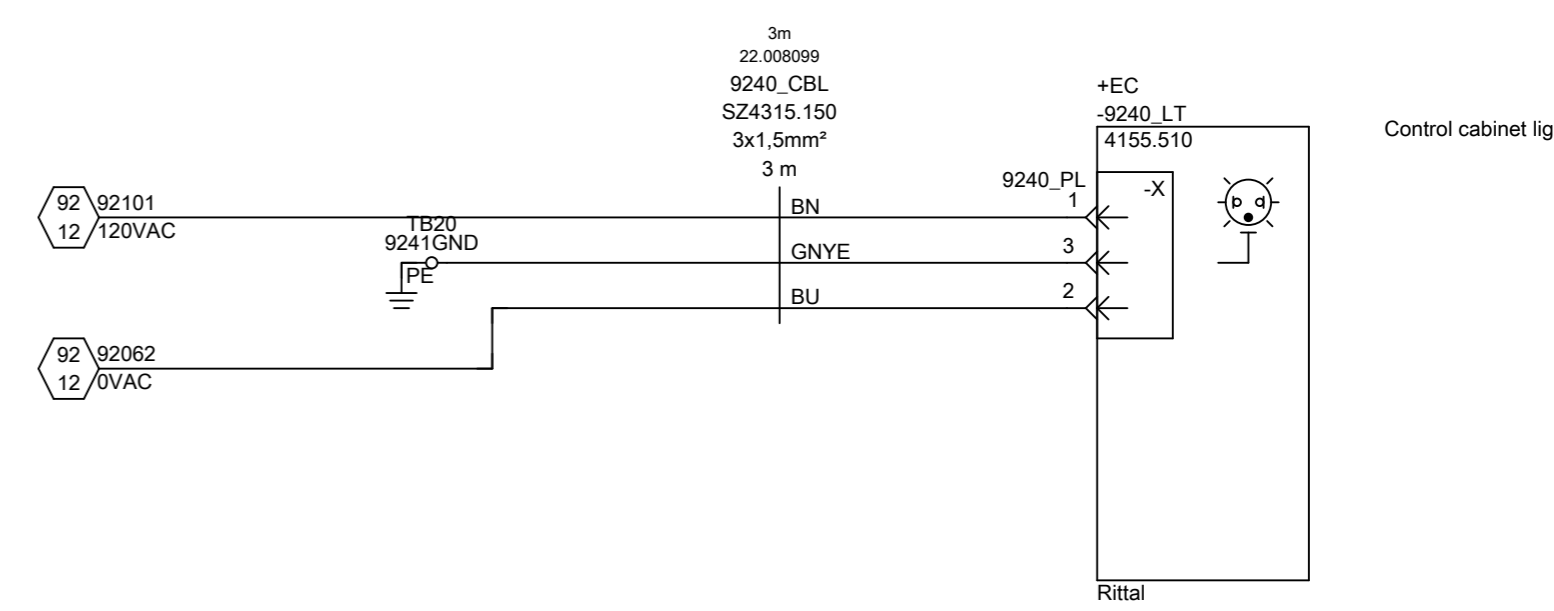
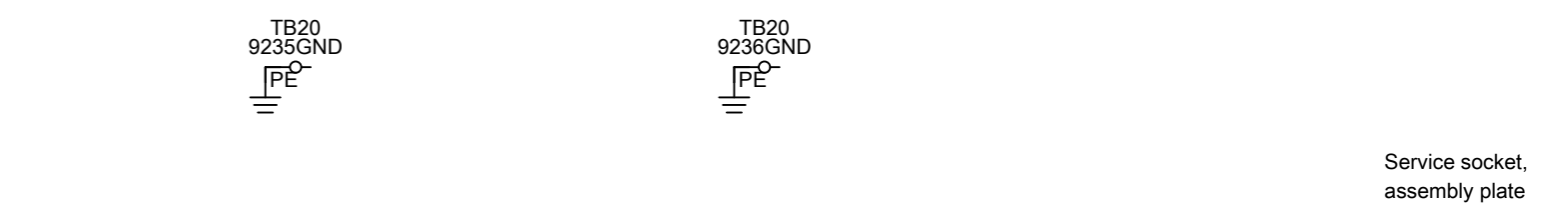
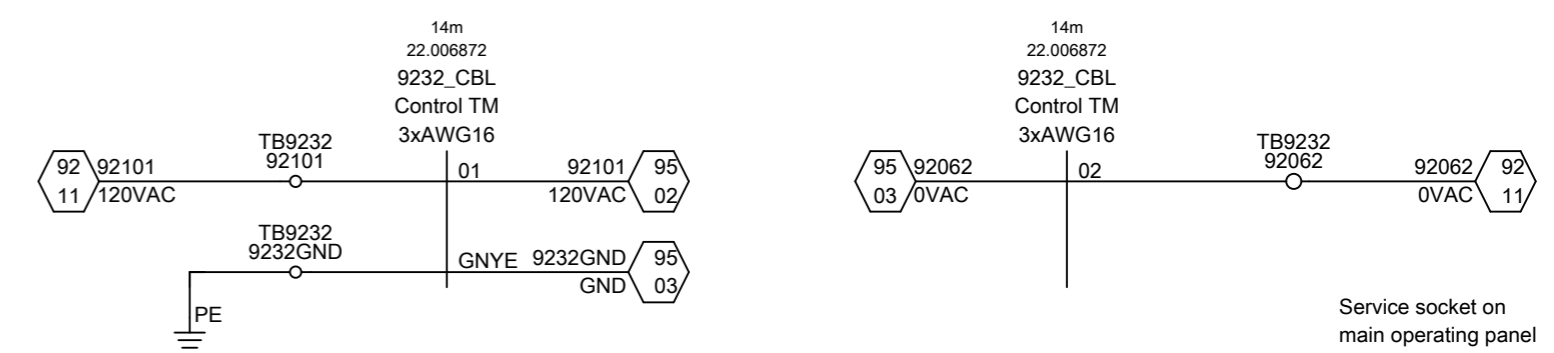
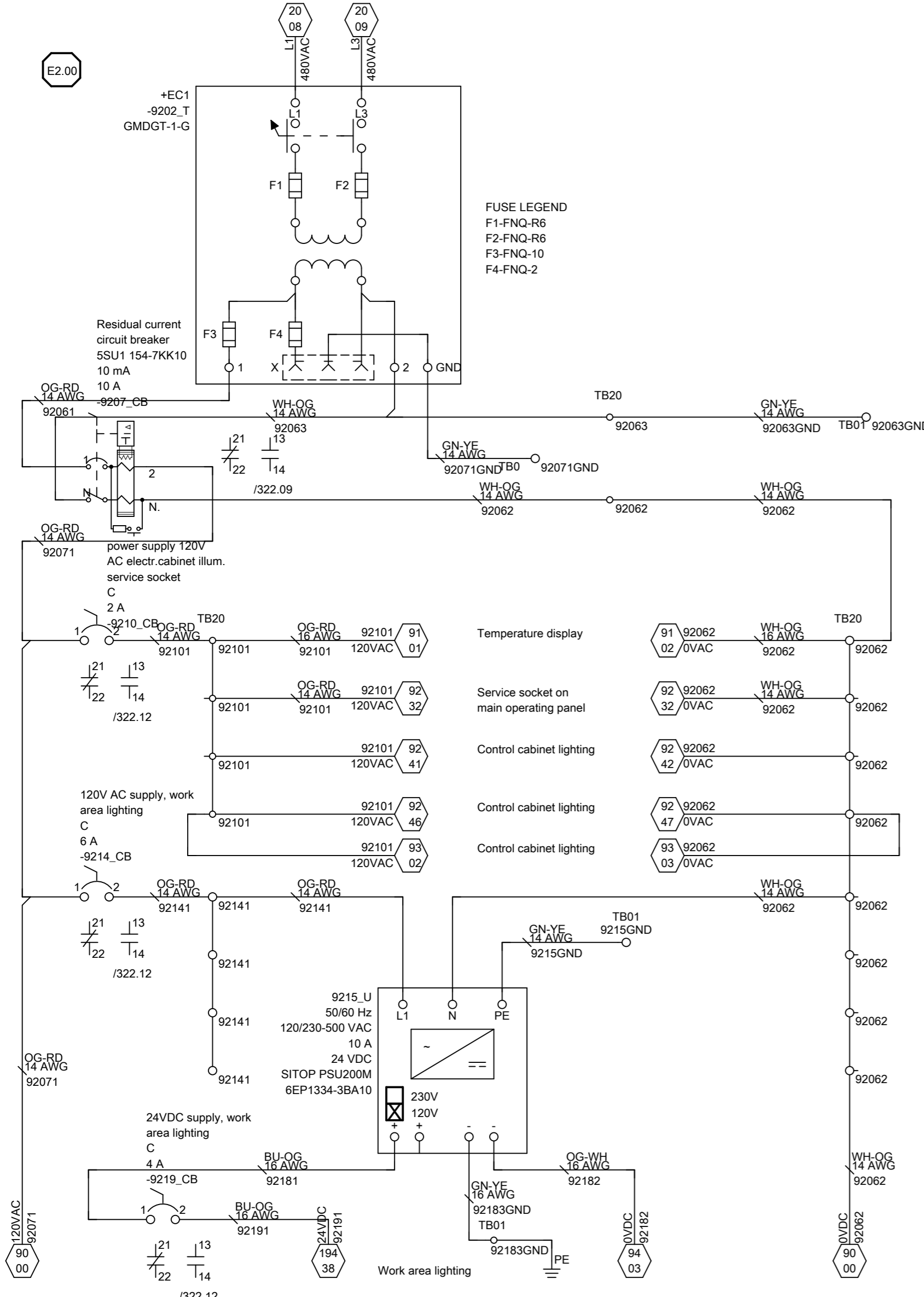
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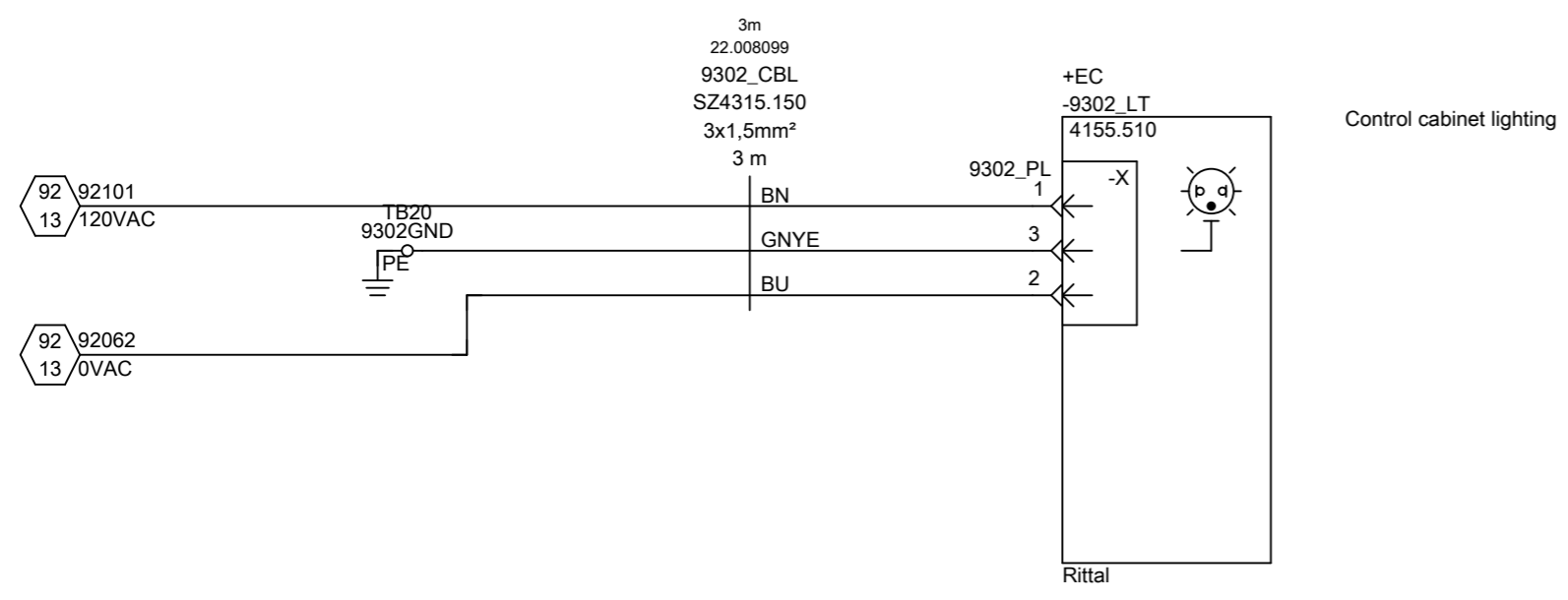
Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	03.06.2016	OE1/SMC	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Temperature display Rittal reserve 120V AC supply				Inv.No.			
				Number of sheets	265	Sheet	91
ePLAN P8 2.2.5		=54793		90	Sheet	92	



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of sheets 265 Sheet 92	
power supply 120V AC				Inv.No.	
ePLAN P8 2.2.5		=54793	91		Sheet 93

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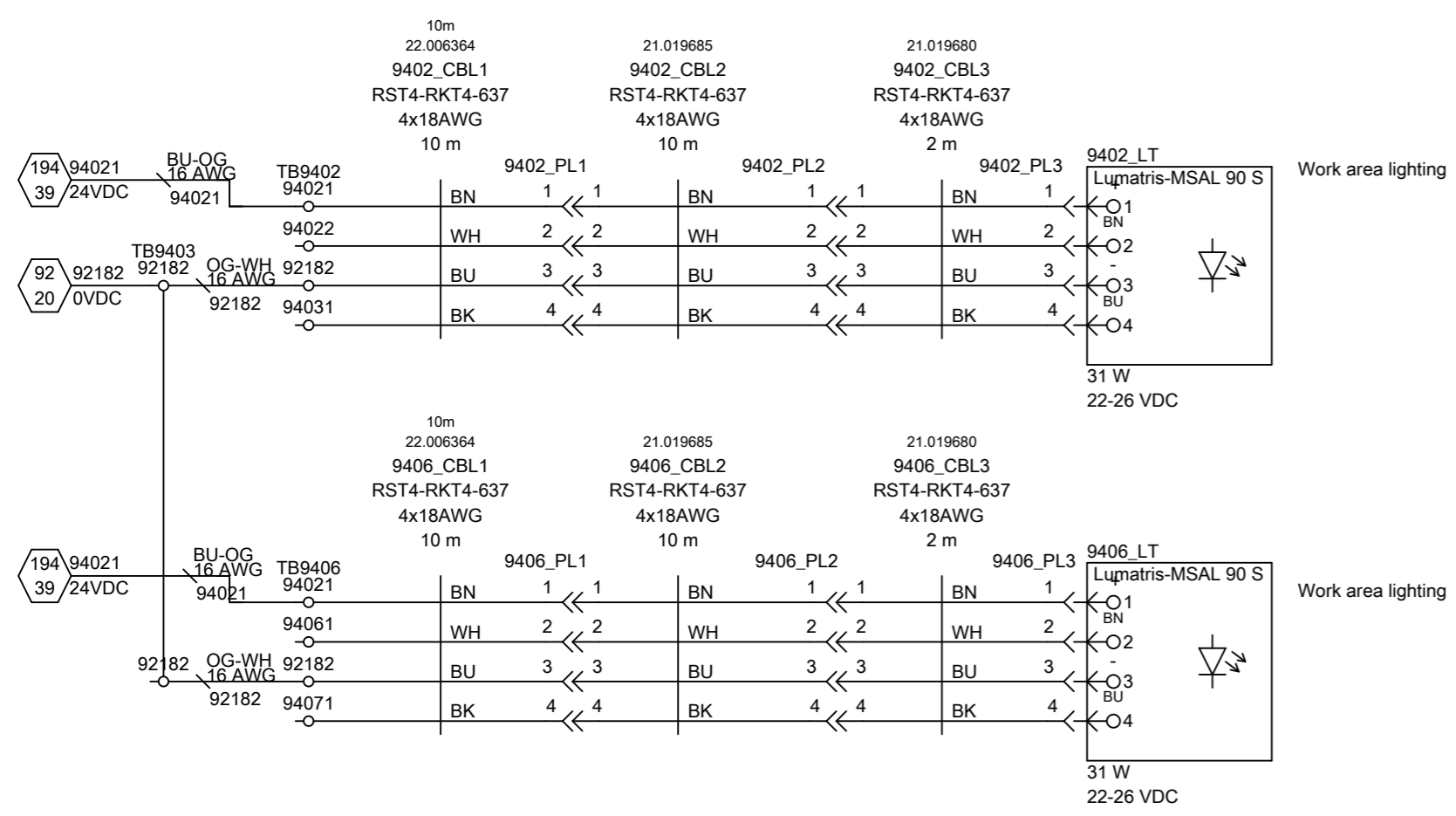


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Reserve
power supply 120V AC

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	22.03.2016	AHP5/EWD	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Supply 120V AC				Inv.No.	
				Number of sheets 265 Sheet 93	
ePLAN P8 2.2.5		=54793		◀ 92 Sheet 94 ▶	

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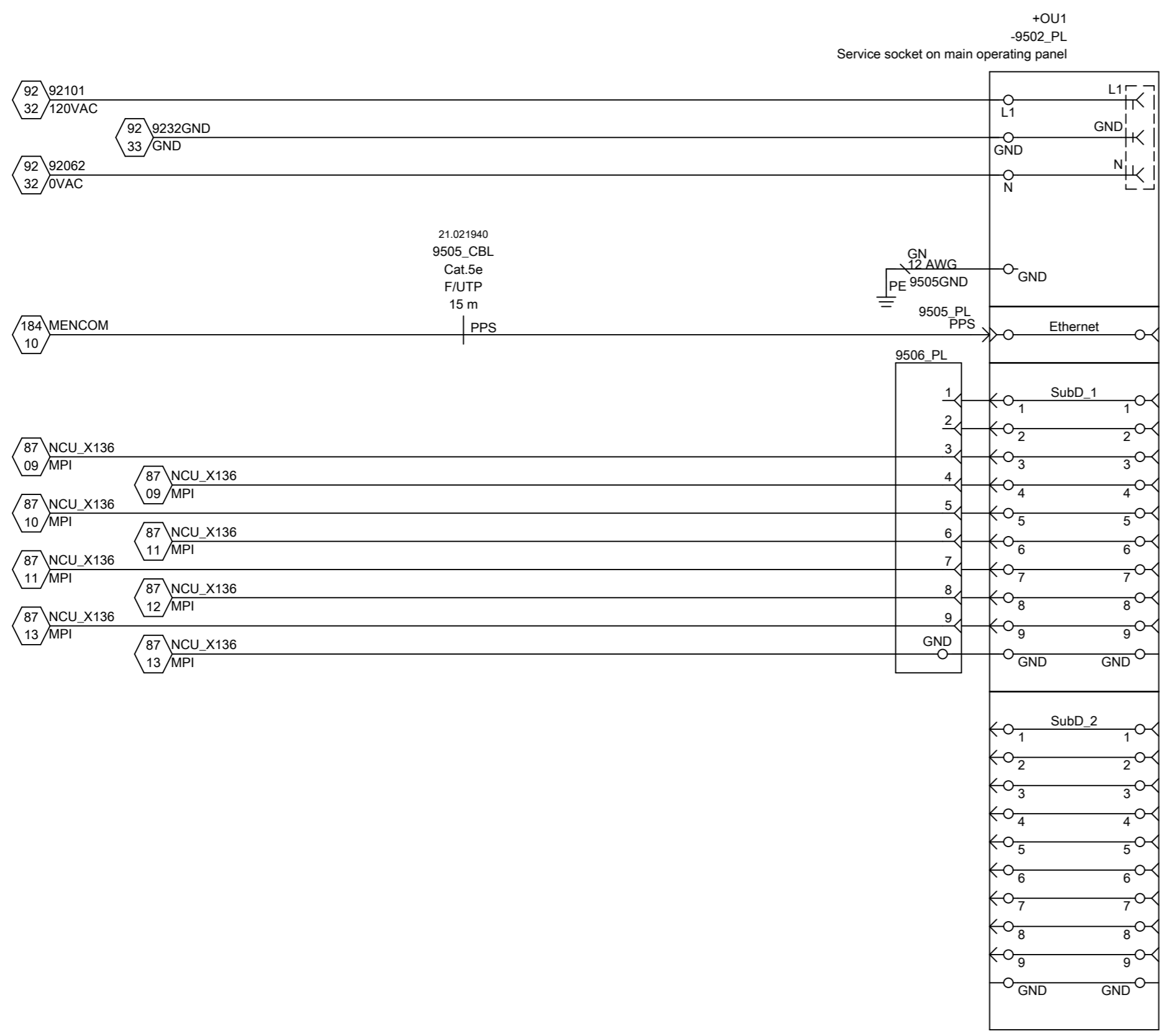


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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	27.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 120V AC				Inv.No.	
				Number of sheets 265 Sheet 94	
ePLAN P8 2.2.5		=54793		93	95

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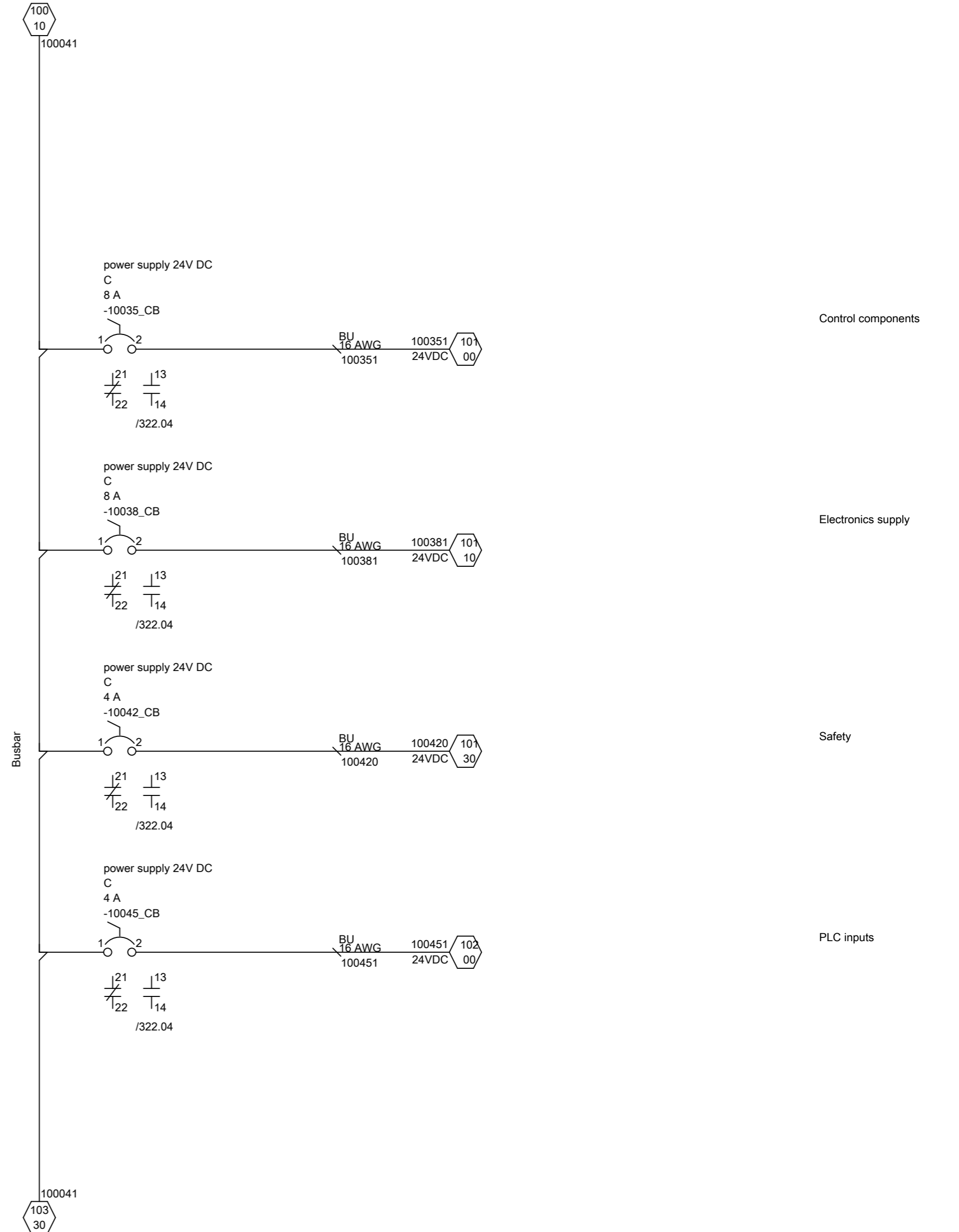
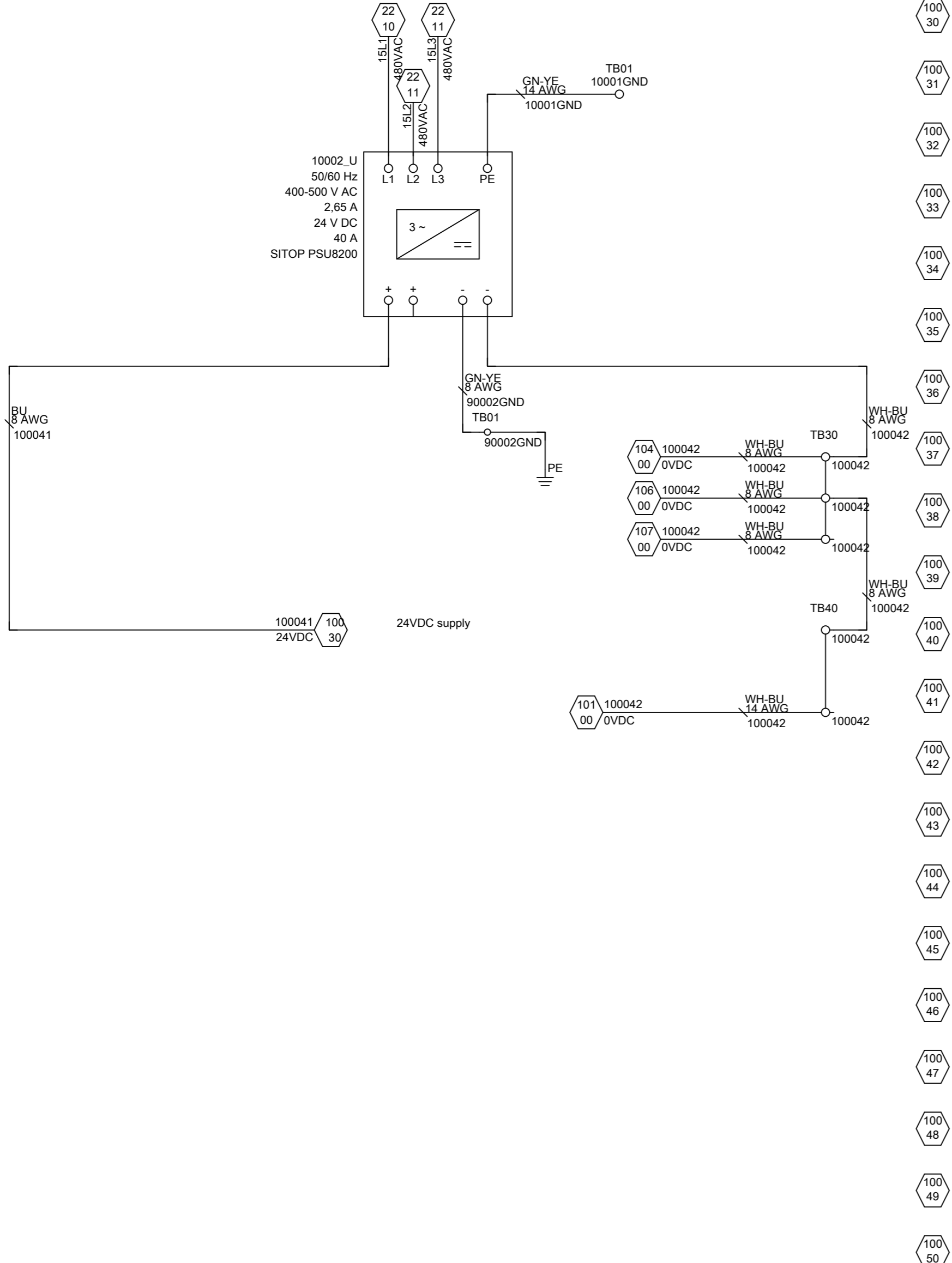


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
MENCOM - interface				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 95	
=54793				94 Sheet 96	

Reserve
page 96-99

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	29.06.2015	AHP3/RIG			
Reserve page 96-99				Inv.No.	
				Number of sheets 265 Sheet 96	
ePLAN P8 2.2.5		=54793		◀ 95 Sheet 100 ▶	

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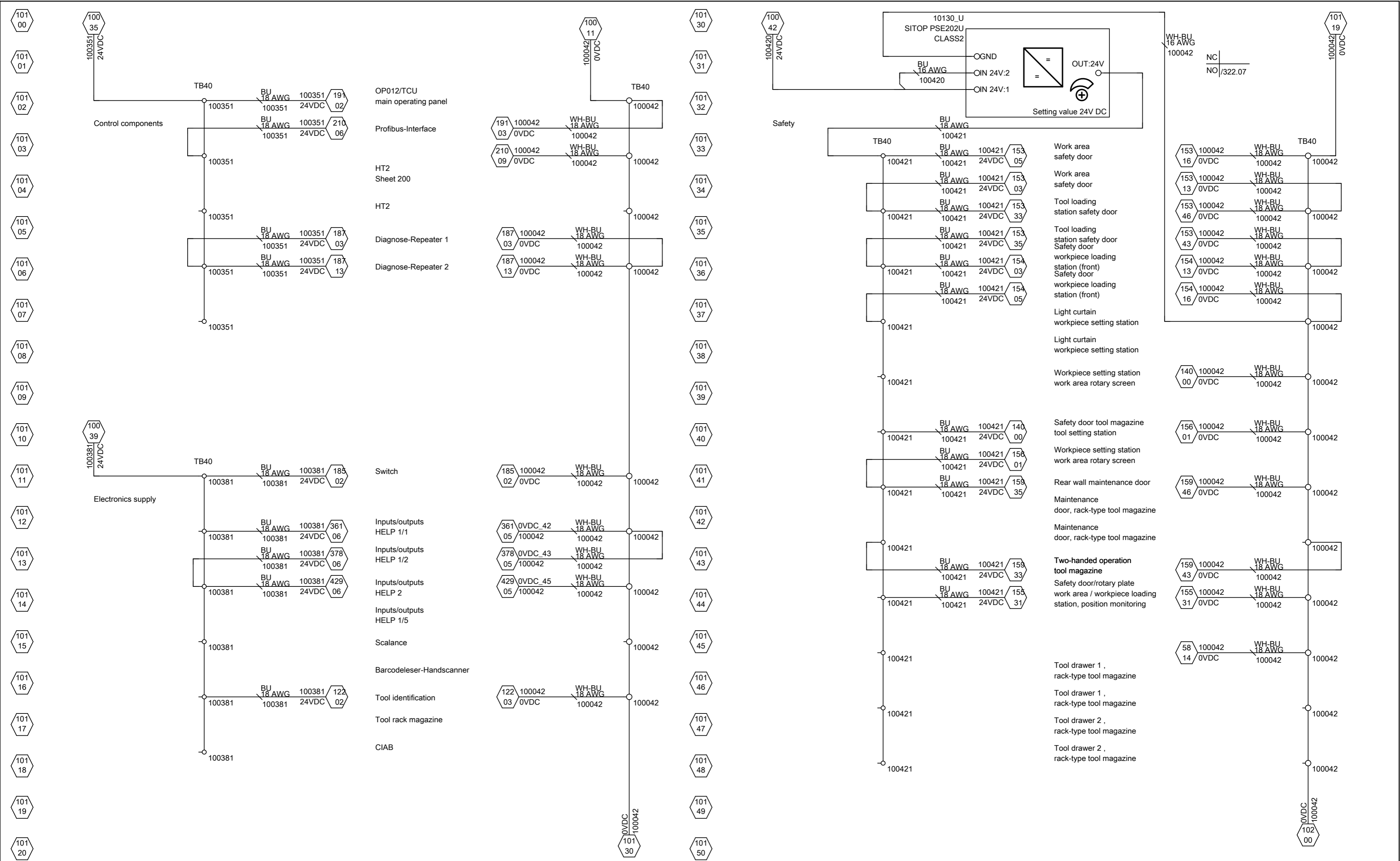
Control components

Electronics supply

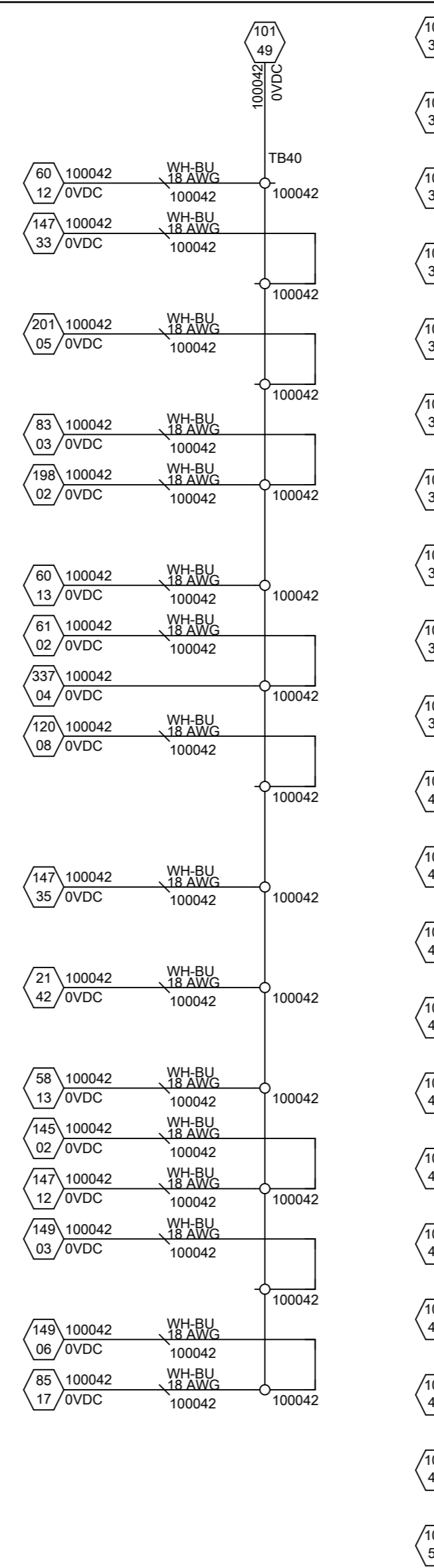
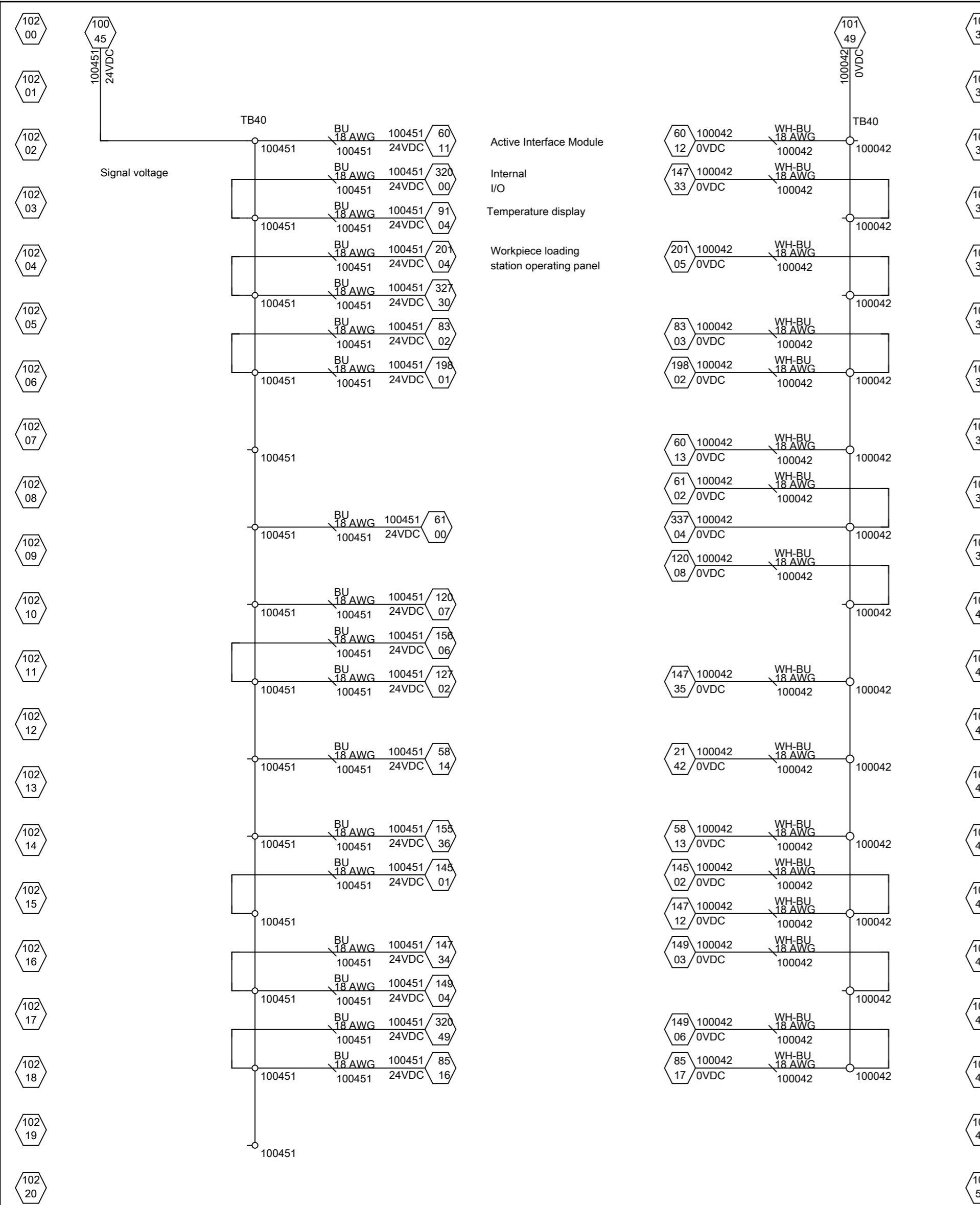
Safety

PLC inputs

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	06.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 100	
=54793				96 Sheet 101	



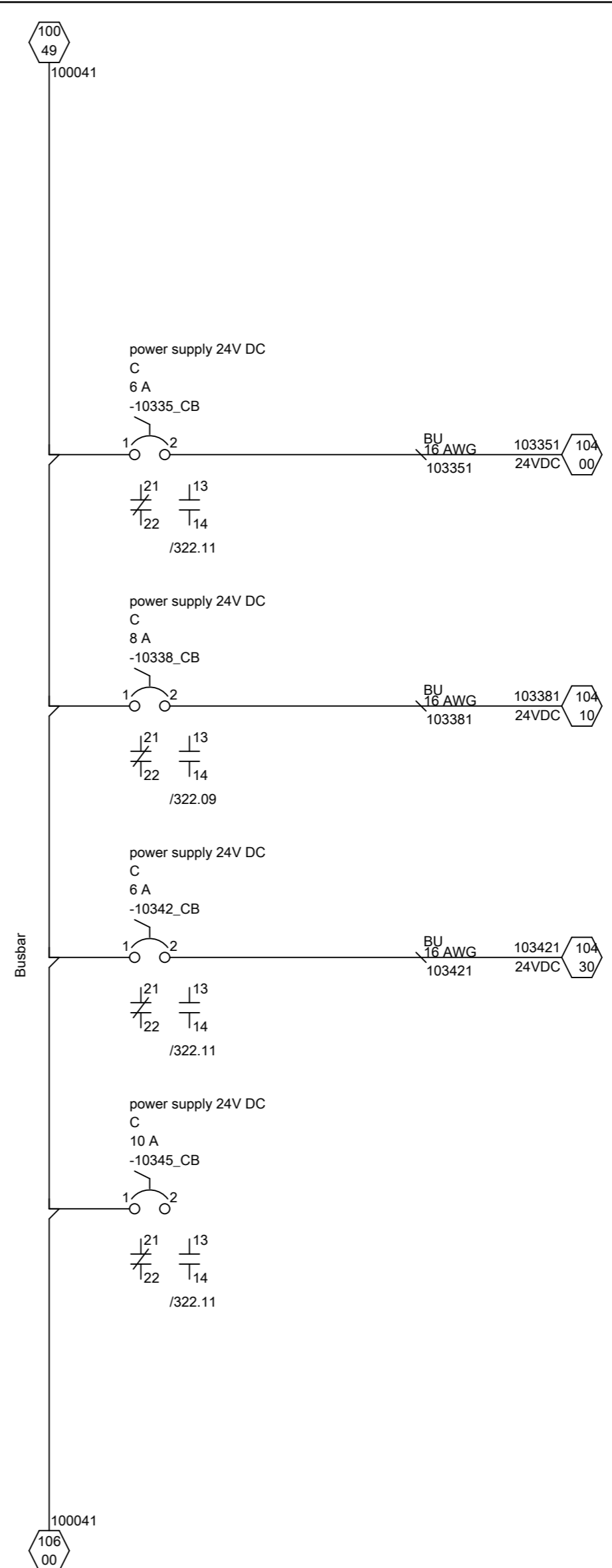
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
ePLAN P8 2.2.5			=54793	Number of sheets	265
				Sheet	101
				Sheet	102



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
◀ 101				Sheet	103

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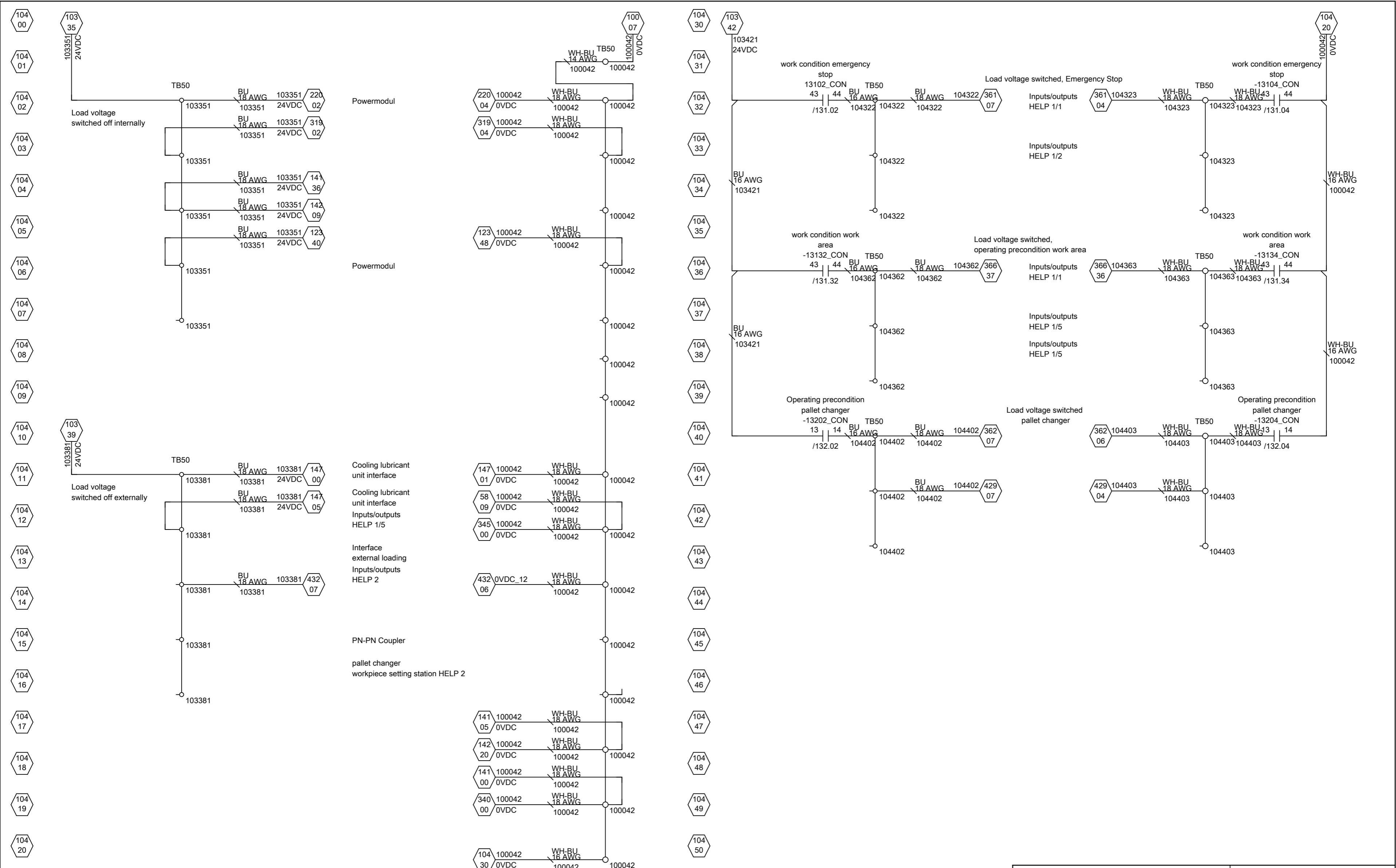
Load voltage
switched off internally

Load voltage
switched off externally

Load voltage
switched

Load voltage
switched

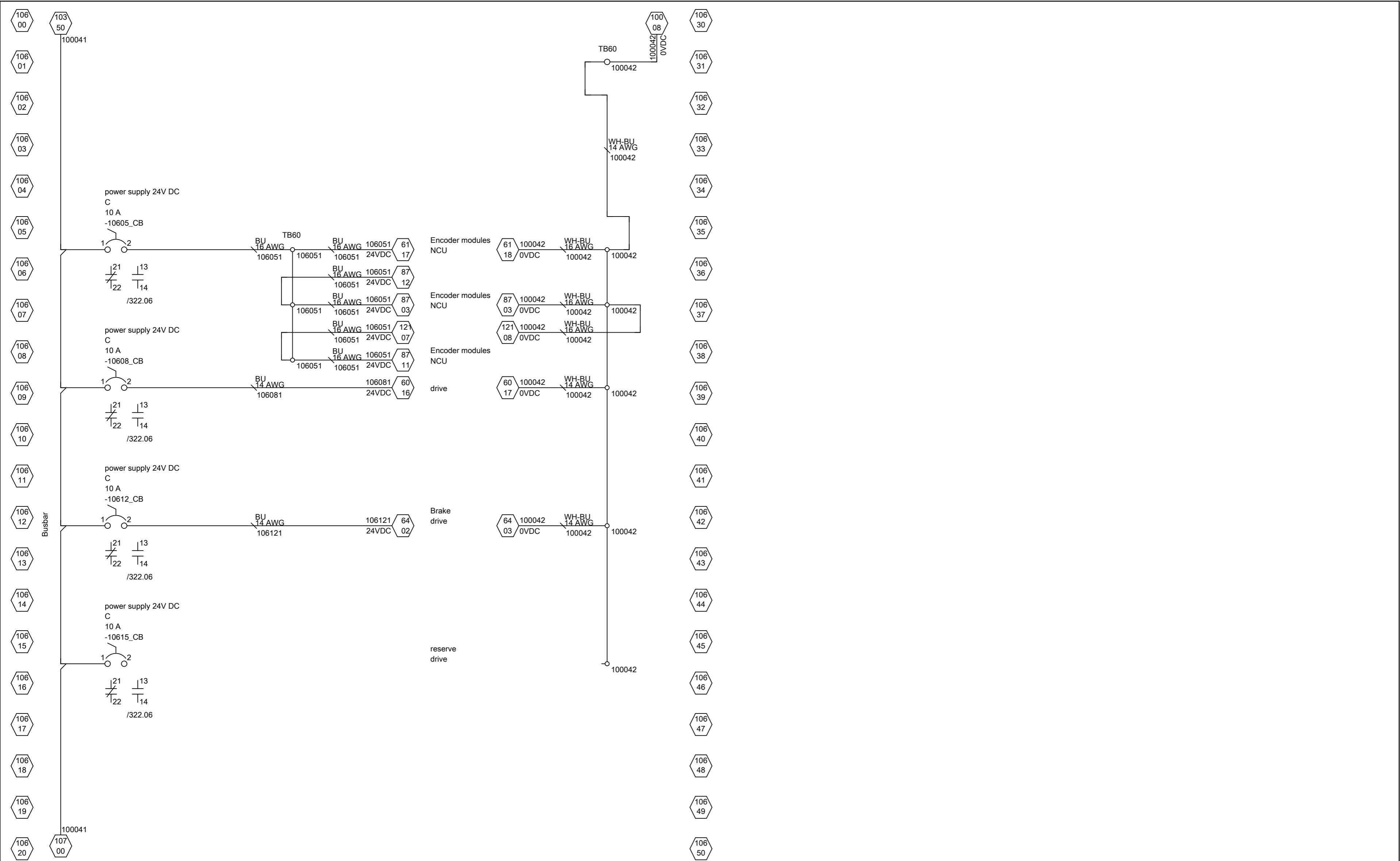
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	03.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet 103
				102	Sheet 104



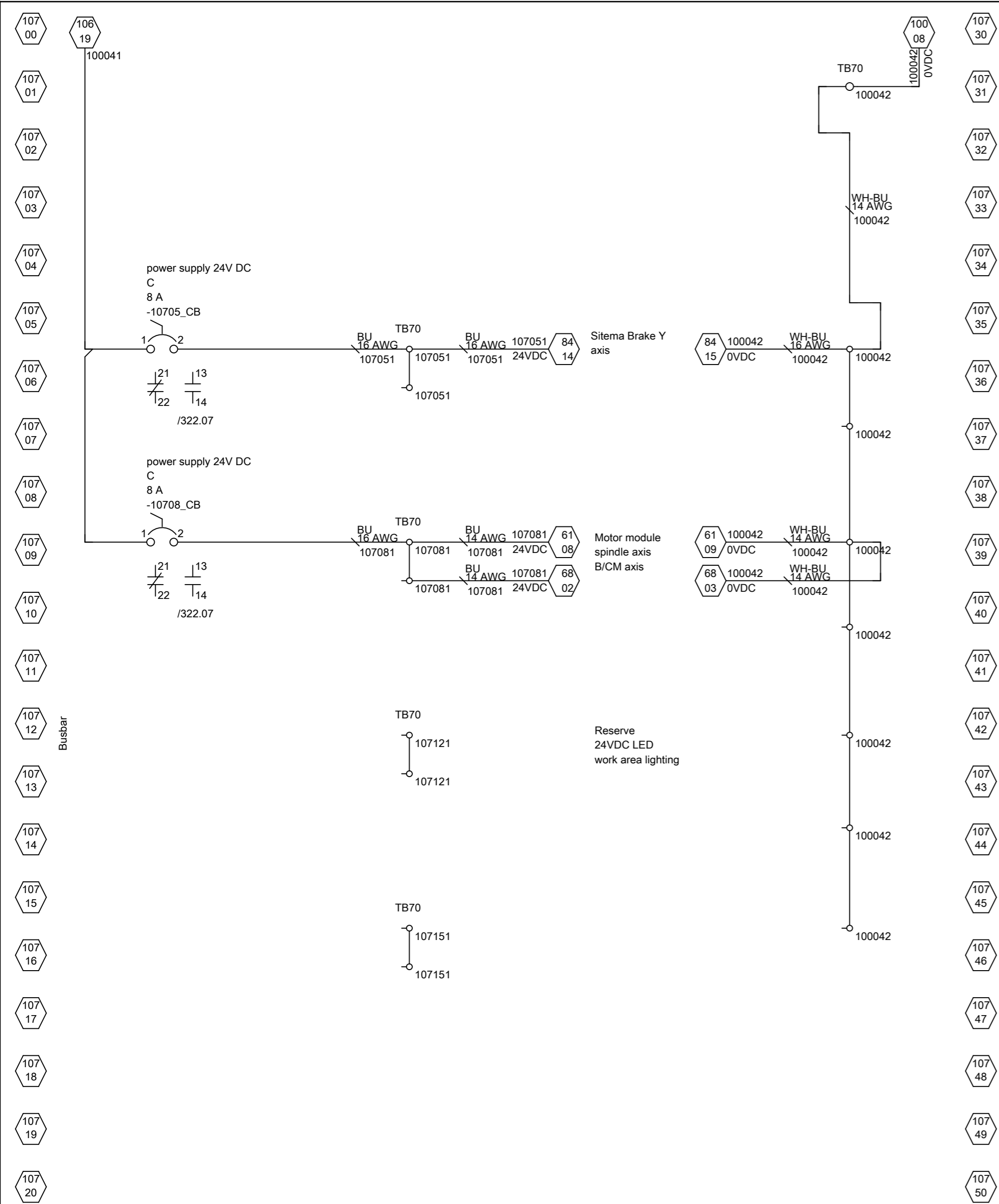
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
power supply 24V DC				Number of sheets	
				265	Sheet 104
ePLAN P8 2.2.5		=54793	103		Sheet 105

Reserve
page 105

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
power supply 24V DC				Number of sheets 265 Sheet 105	
ePLAN P8 2.2.5		=54793		104	Sheet 106



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
				Number of sheets 265 Sheet 106	
ePLAN P8 2.2.5		=54793		◀ 105 Sheet 107	



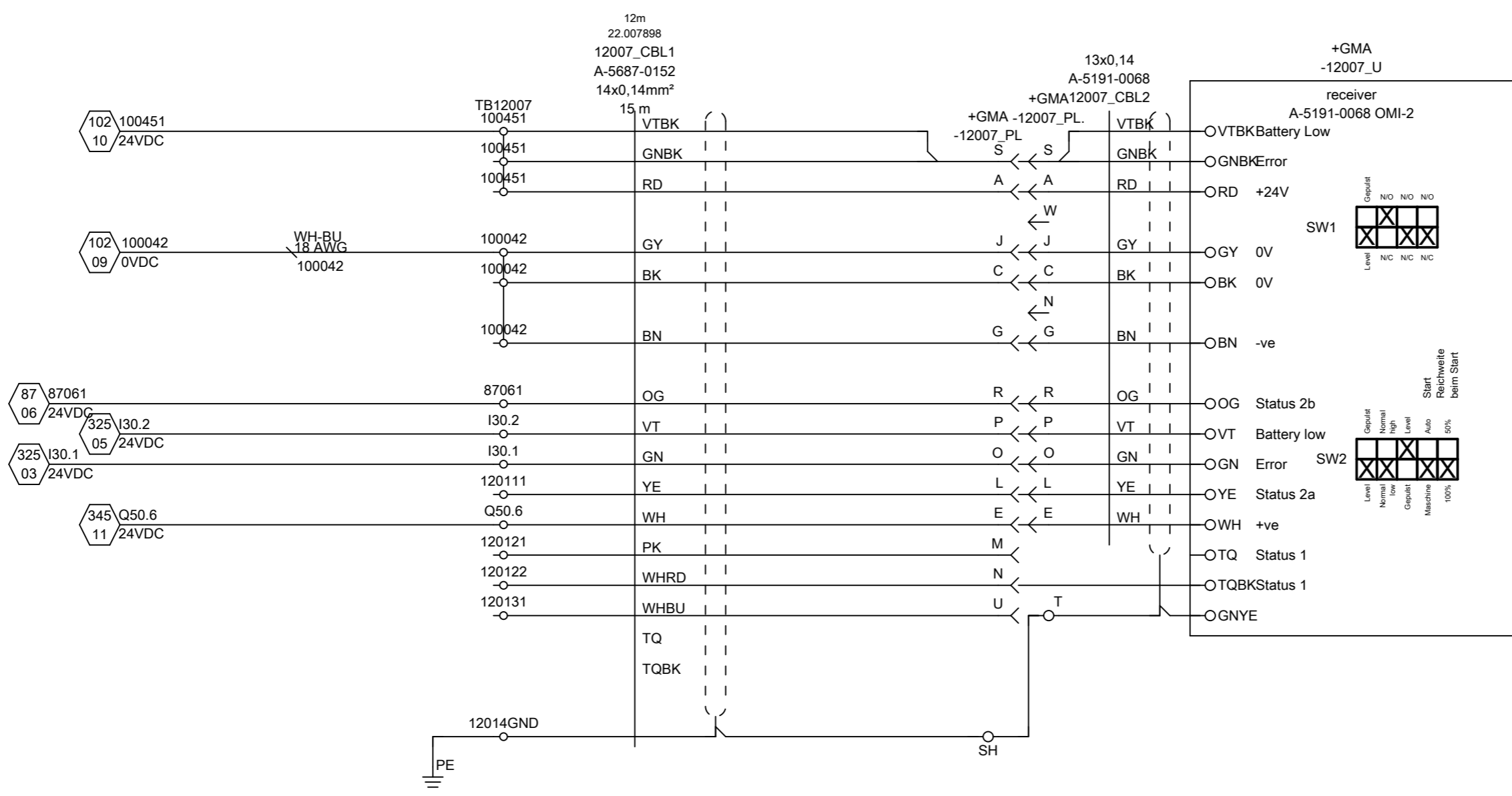
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	03.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC options				Inv.No.	
				Number of sheets	
ePLAN P8 2.2.5				265	
=54793				Sheet	
				107	
				106	
				Sheet	
				108	

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Reserve
page 108-119

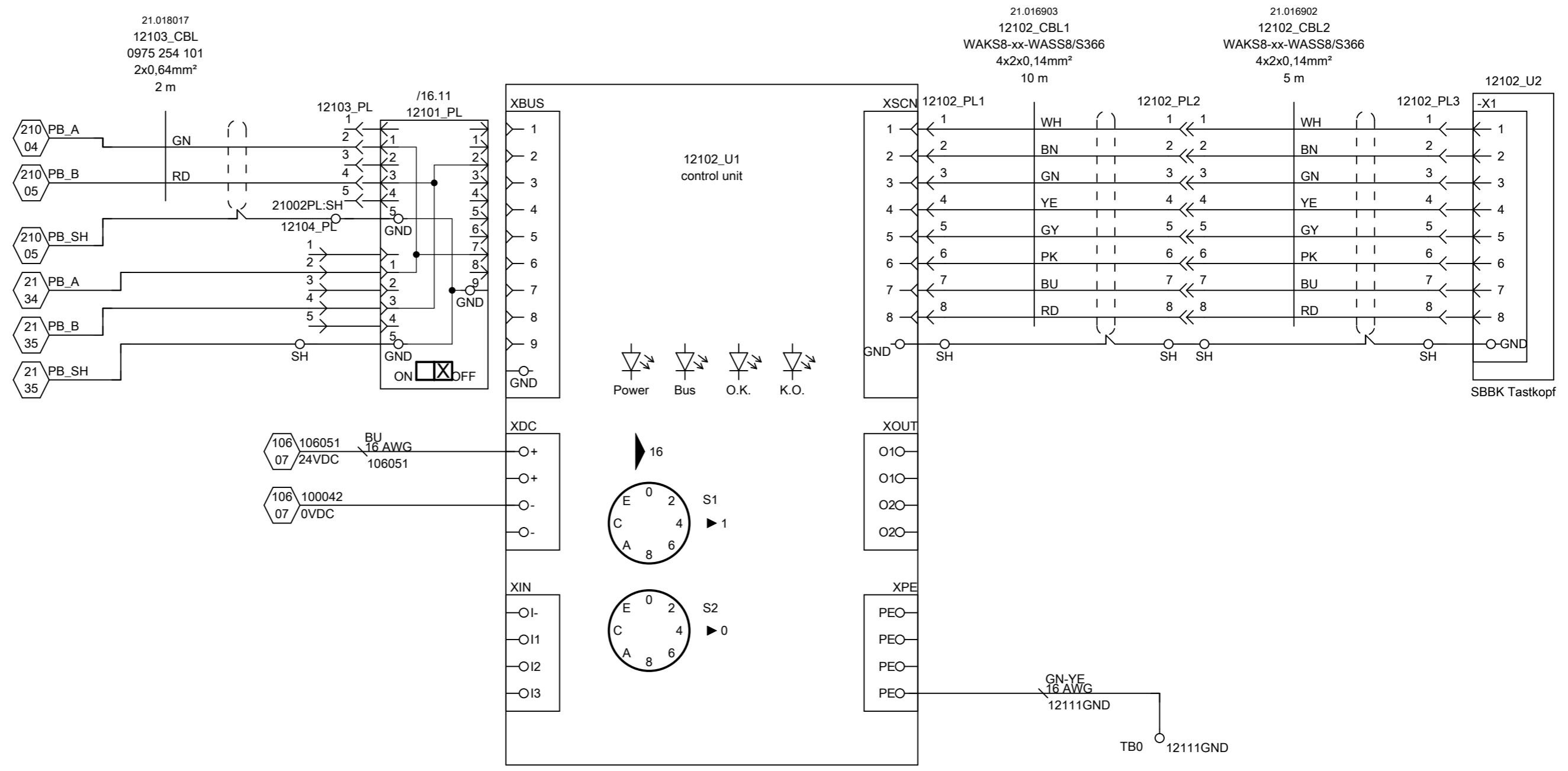
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve page 108-119				Number of sheets			
ePLAN P8 2.2.5				=54793	265	Sheet	108
				107	Sheet	120	

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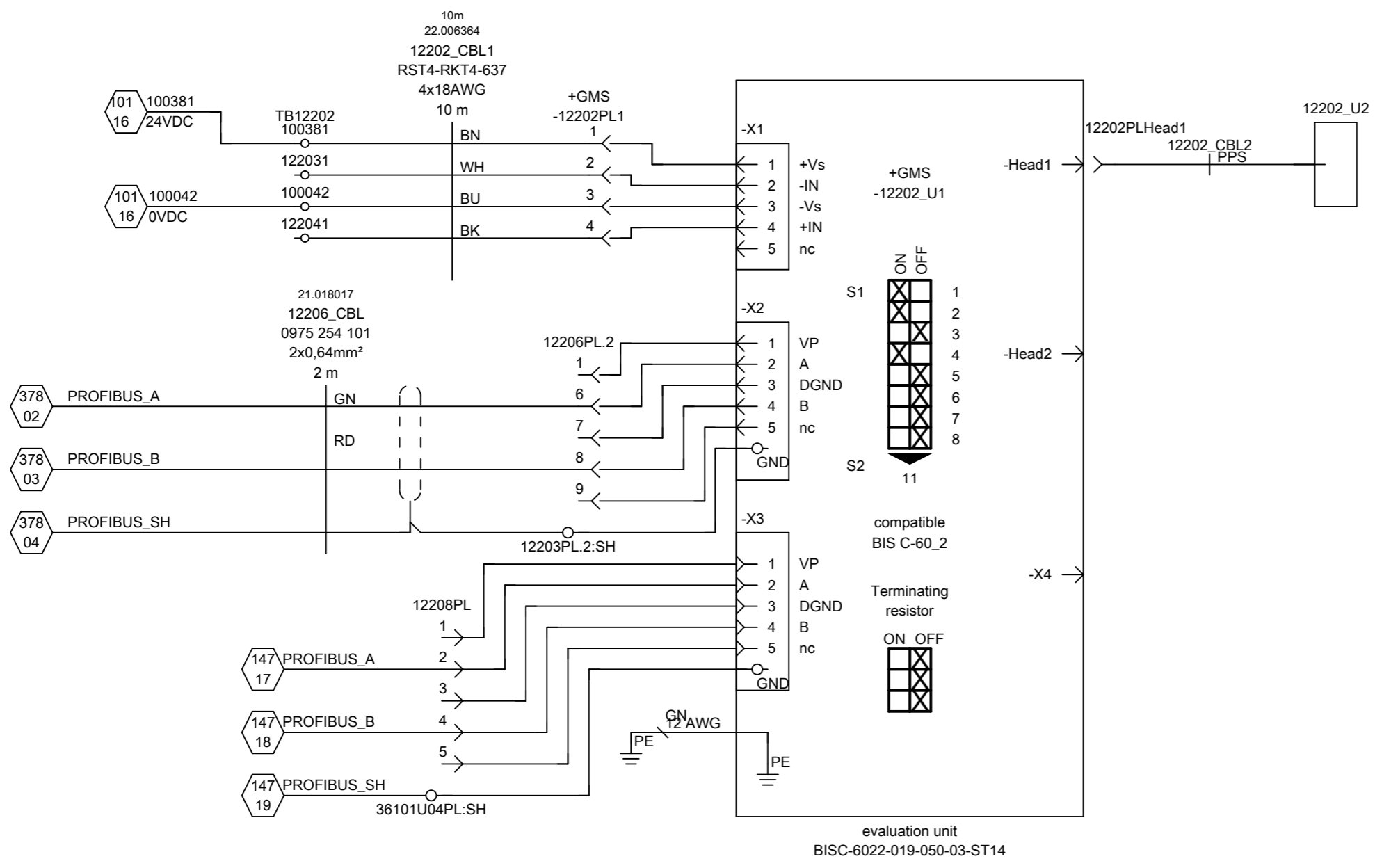


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
measuring probe				Inv.No.		
ePLAN P8 2.2.5				Number of sheets		
=54793				108	Sheet	121

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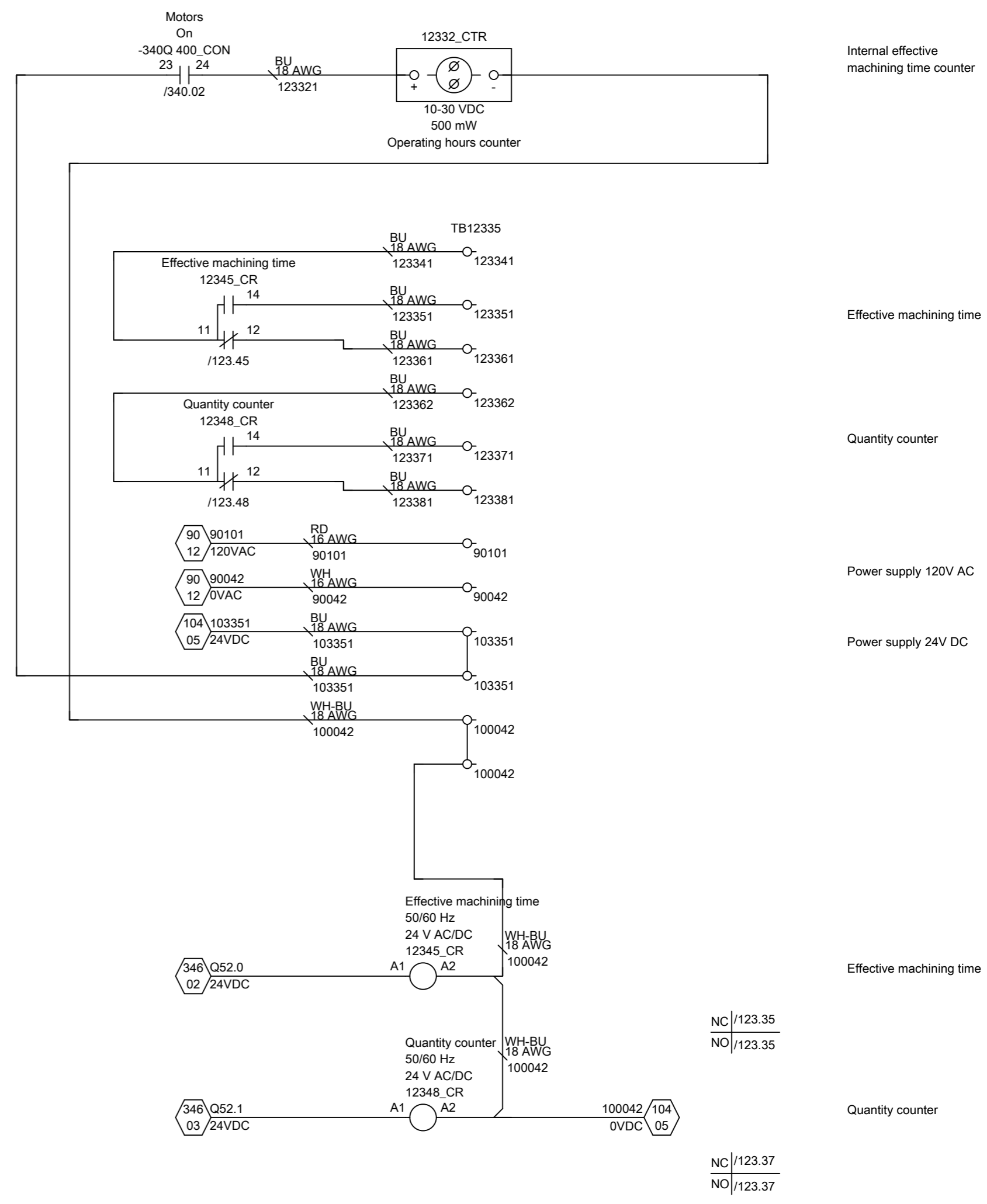
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
drill fracture sensing				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				120	122



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool coding				Inv.No.	
Number of sheets				265	Sheet
ePLAN P8 2.2.5		=54793	121	Sheet	123

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Internal effective machining time counter

Effective machining time

Quantity counter

Power supply 120V AC

Power supply 24V DC

Effective machining time

Quantity counter

Project description P-009084				Project JIC_EP05479300	
				Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	27.10.2015	AHP3/EWD			
Tool cleaning device, interface runtime/quantity recording				Inv.No.	
ePLAN P8 2.2.5				=54793	
				Number of sheets 265 Sheet 123	
				◀ 122 Sheet 124 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				265	Sheet 124
=54793				123	Sheet 125

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Vibration analysis				Number of sheets 265 Sheet 125	
ePLAN P8 2.2.5		=54793		124	Sheet 126

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Reserve				Number of sheets		
ePLAN P8 2.2.5				=54793	265	Sheet
				125	Sheet	127

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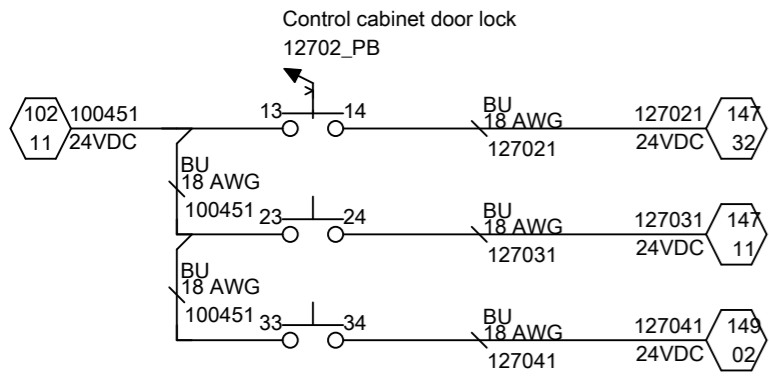
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Control cabinet door lock				Number of sheets 265 Sheet 127	
ePLAN P8 2.2.5		=54793		126	Sheet 128

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 128	
ePLAN P8 2.2.5		=54793		127	Sheet 129

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 129	
ePLAN P8 2.2.5		=54793		128	Sheet 130

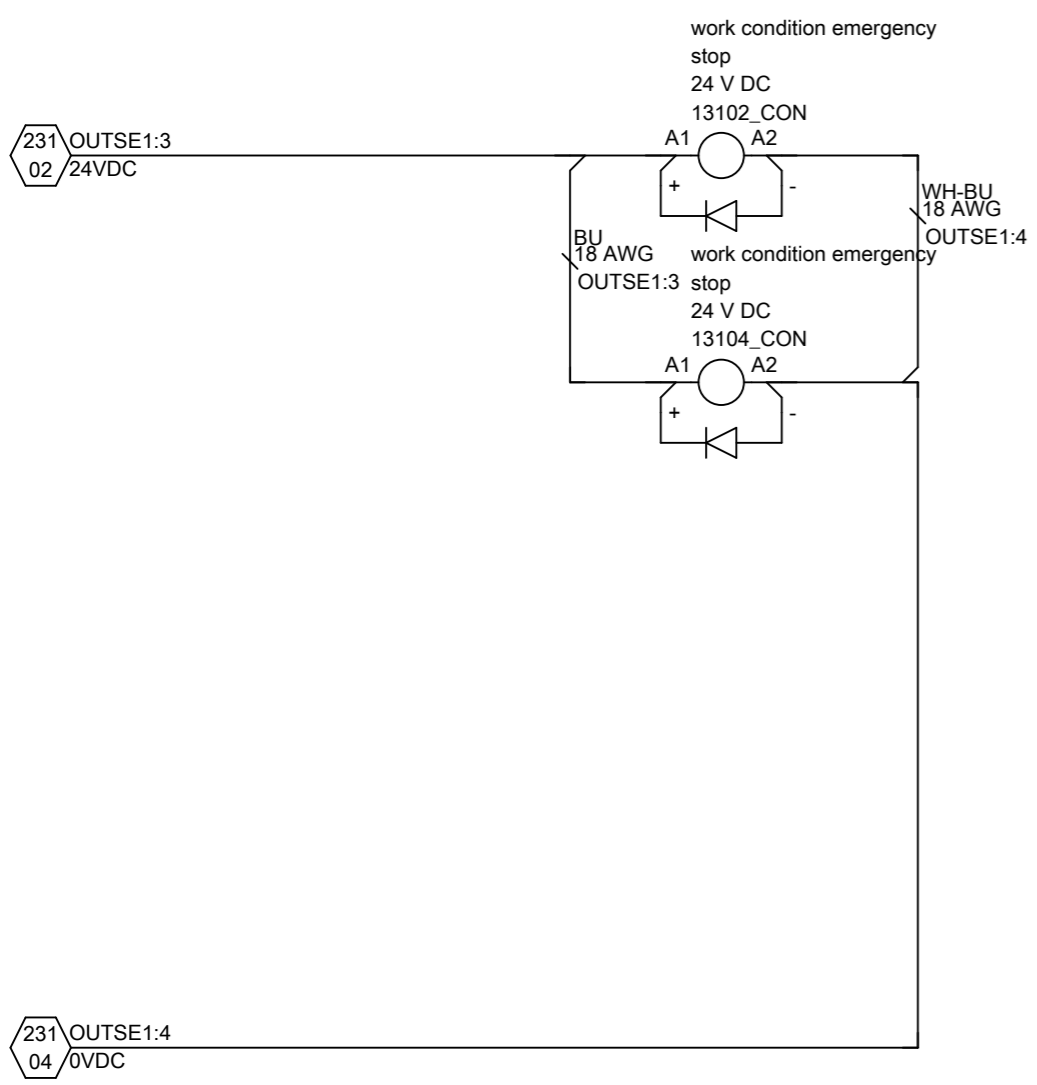
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/RIG		Inv.No.	
Reserve				Number of sheets 265 Sheet 130	
ePLAN P8 2.2.5		=54793		129	Sheet 131

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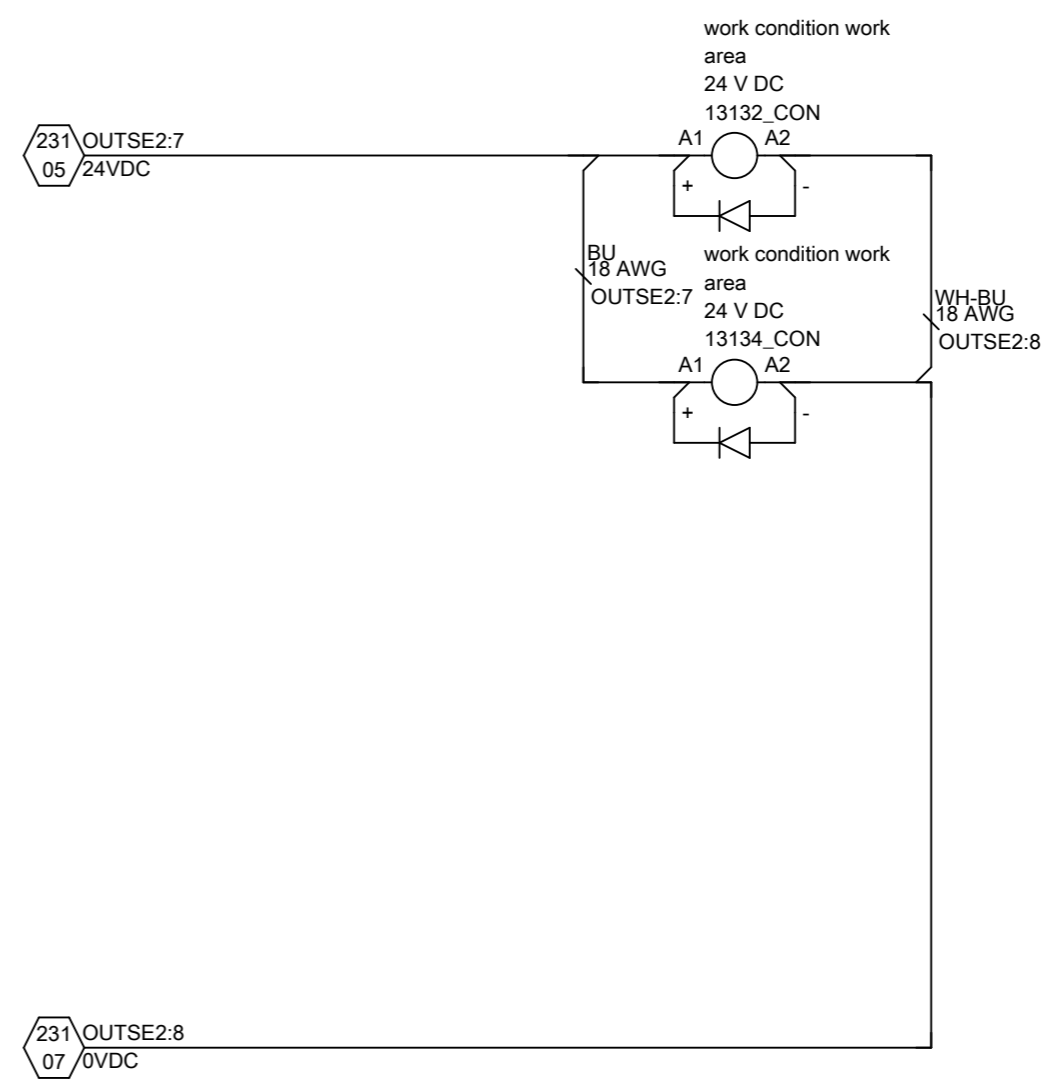


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NO /141.03 /58.09 /147.02 /104.32 /147.07

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NO /141.03 /58.09 /147.02 /104.32 /147.07

work condition emergency stop

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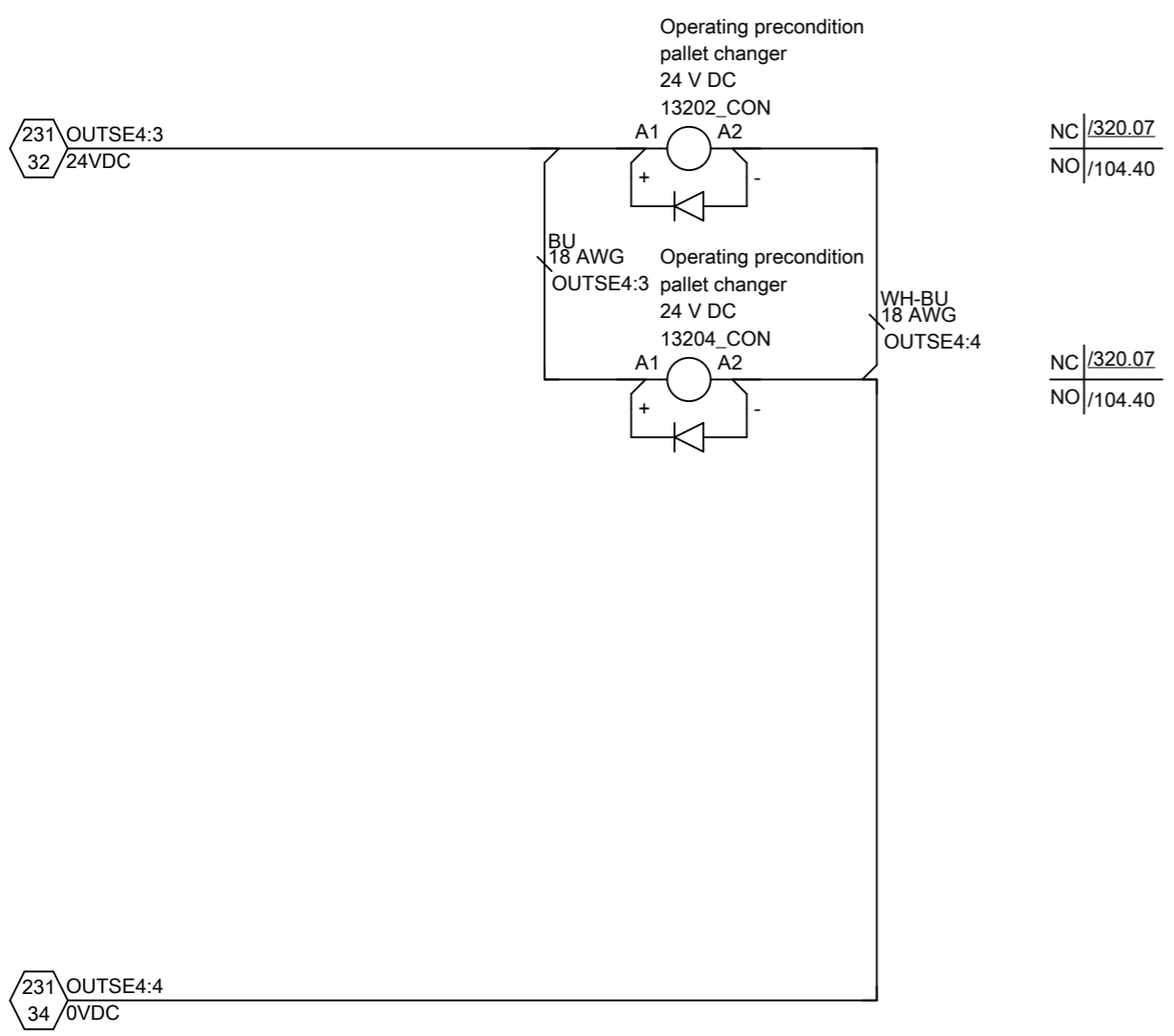
NC /320.03
NO /141.42 /147.03 /147.04 /104.36

work condition work area

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	11.02.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
work condition emergency stop/work area				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 131	
=54793				130 Sheet 132	

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Operating precondition
pallet changer

Operating precondition
pallet changer

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	06.06.2016	OE1/SMC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
work condition workpiece handling				Number of sheets 265 Sheet 132	
ePLAN P8 2.2.5		=54793		131	Sheet 133

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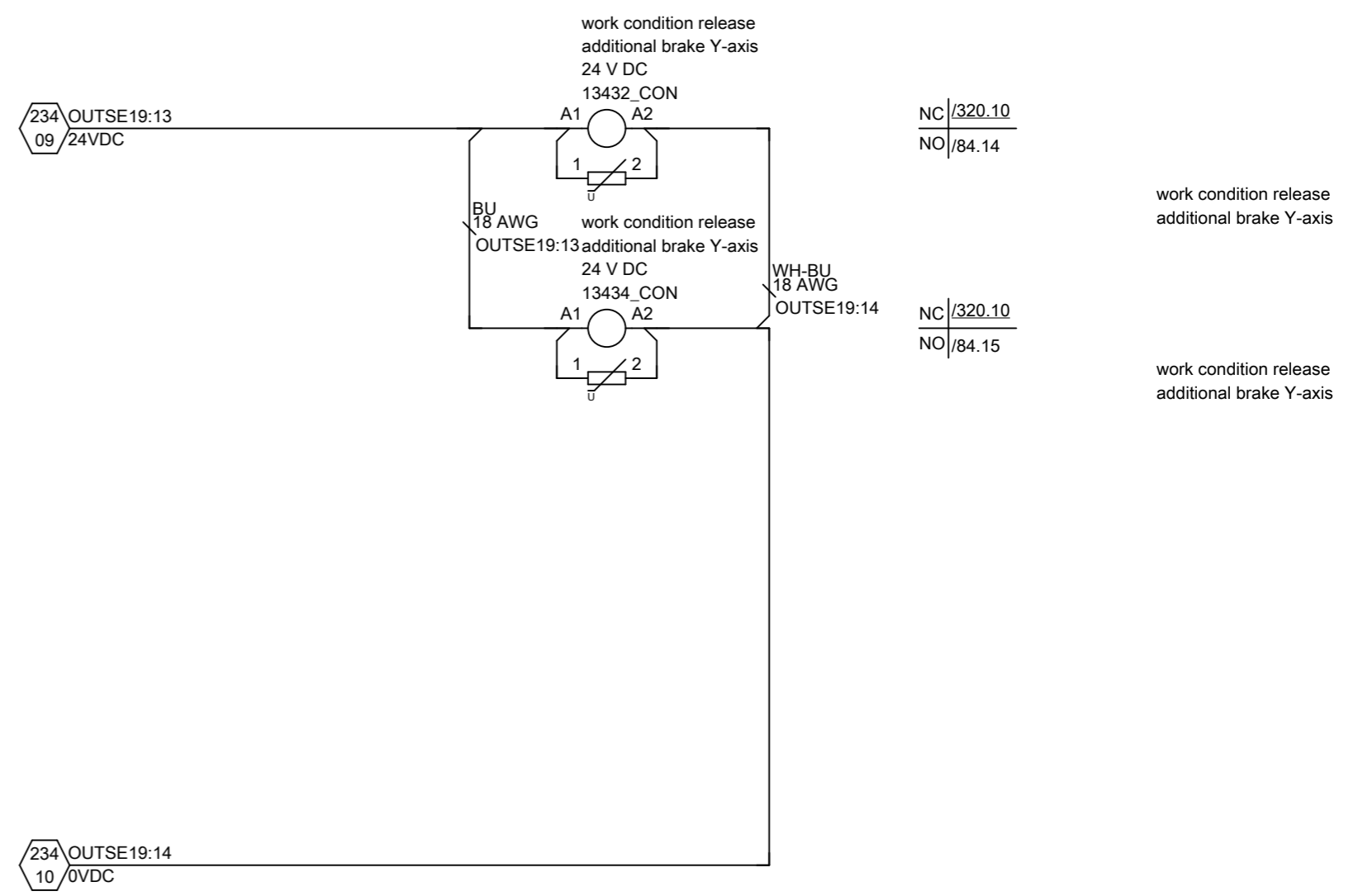
Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve operating precondition				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				132	Sheet
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	19.04.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve Operating precondition rack-type tool magazine, release additional brake Y-axis				Inv.No.			
ePLAN P8 2.2.5 =54793				Number of sheets	265	Sheet	134
				133	Sheet	135	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Operating precondition, pallet changer rotary magazine, rotary magazine ratary plate				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				134	136

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	22.01.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
work condition external loading				Number of sheets 265 Sheet 136	
ePLAN P8 2.2.5		=54793		◀ 135 Sheet 137 ▶	

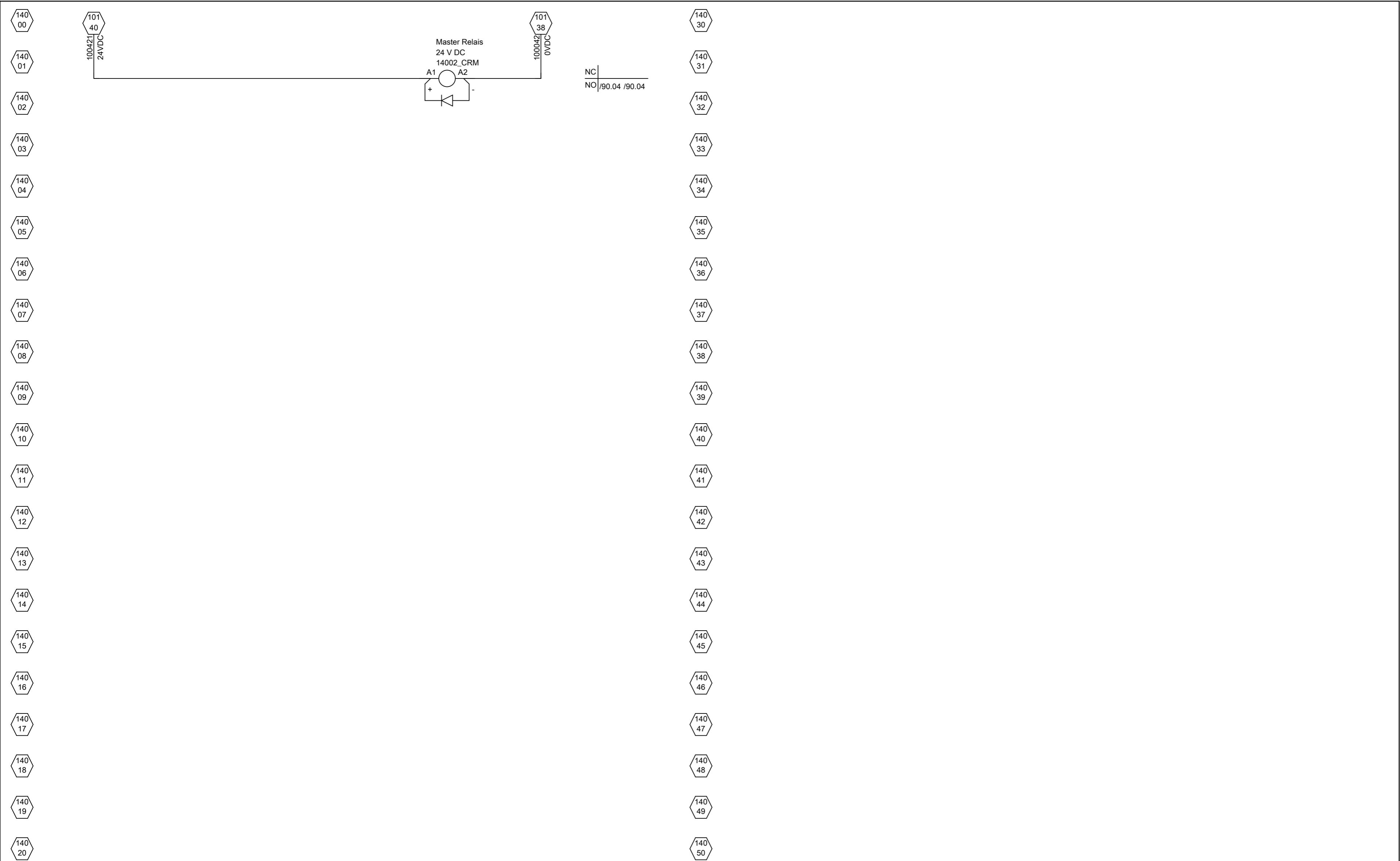
Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	22.01.2016	AHP3/RIG			
DRAWN	10.11.2015	AHP3/EWD		Inv.No.	
work condition external loading				Number of sheets 265 Sheet 137	
ePLAN P8 2.2.5		=54793		136	Sheet 138

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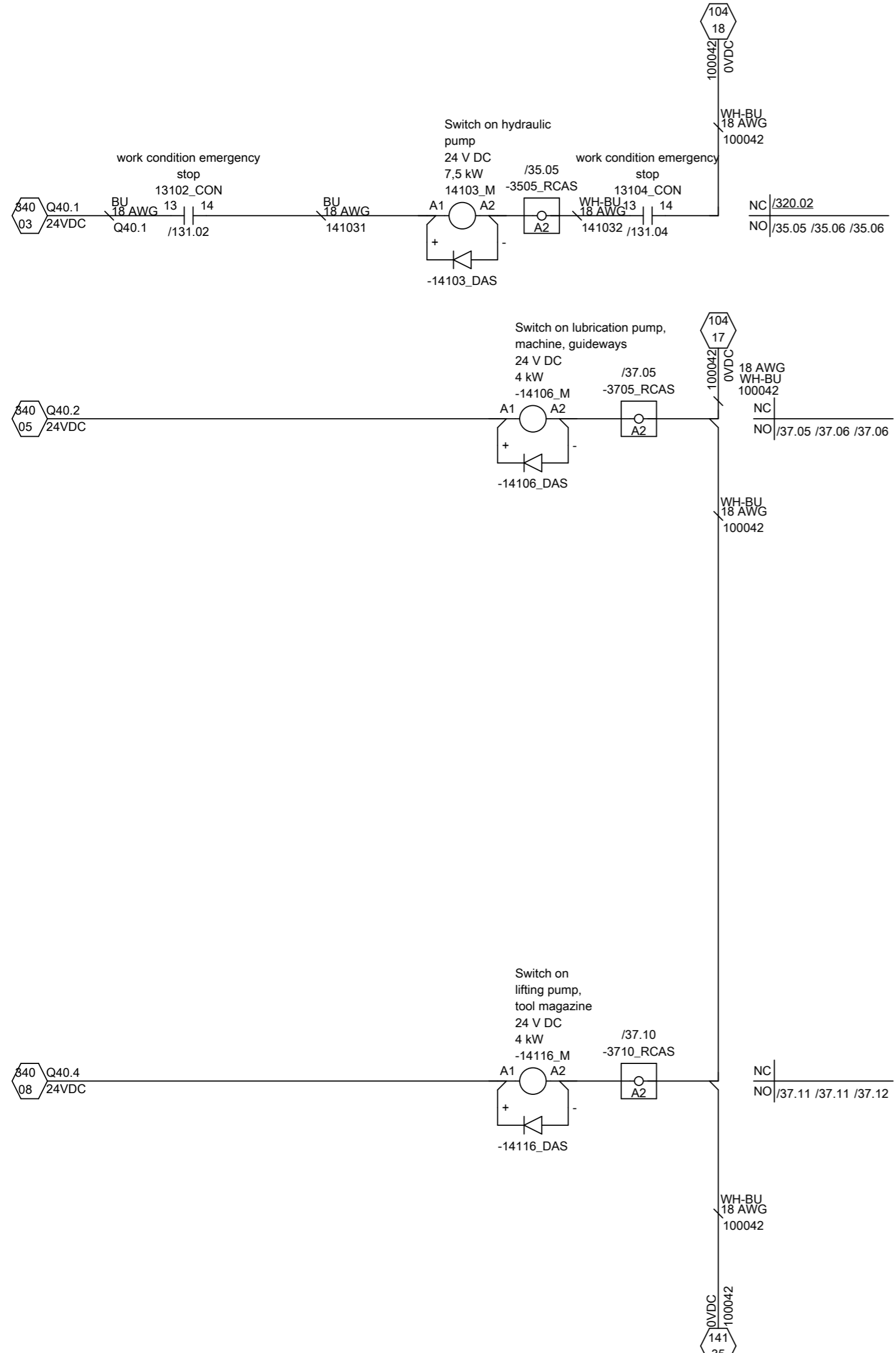
Reserve
page 138-139

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve page 137-139				Inv.No.	
				Number of sheets	
ePLAN P8 2.2.5				=54793	137
				Sheet	140
				Sheet	138

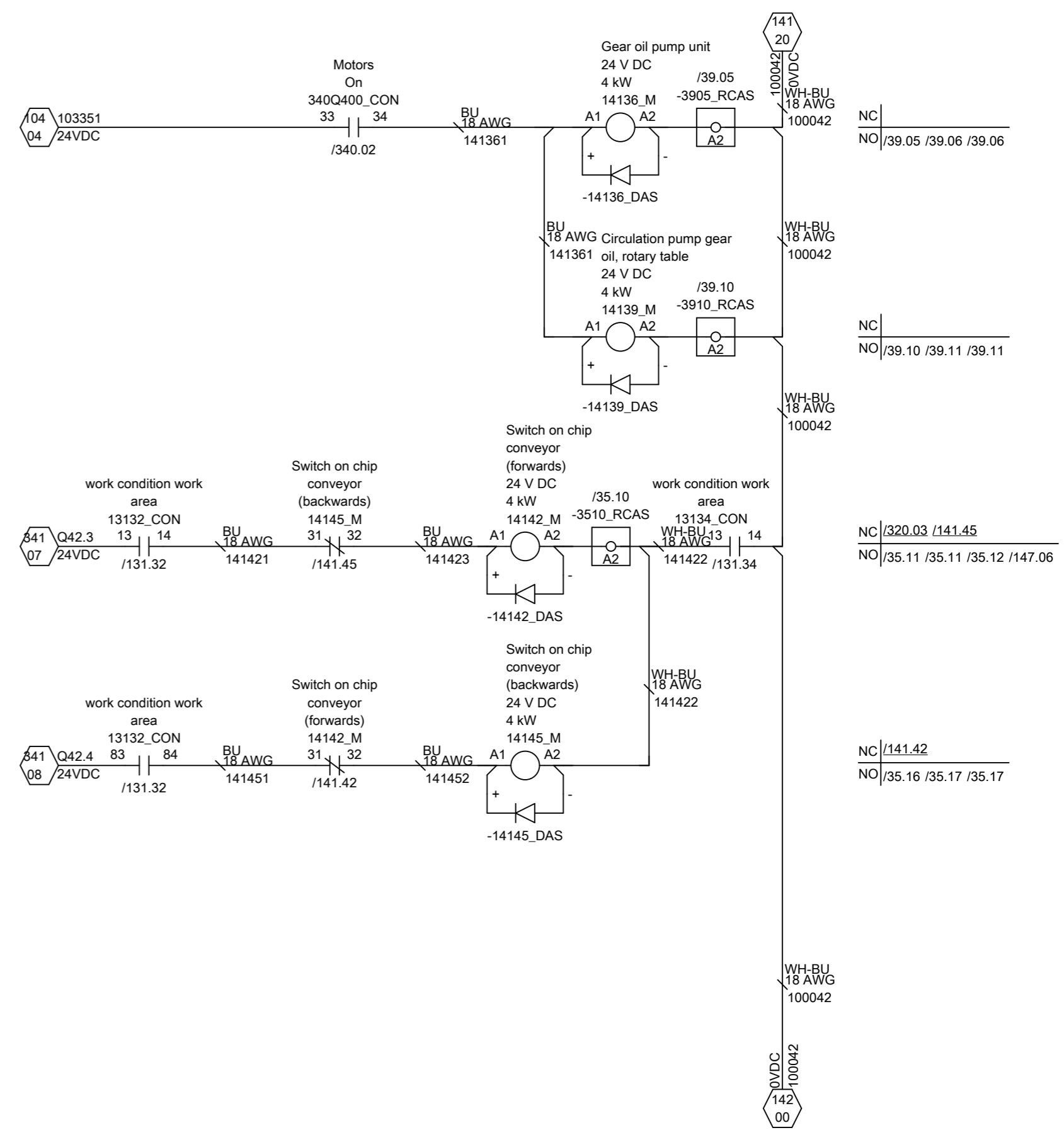


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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				265	Sheet 140
ePLAN P8 2.2.5		=54793		138	Sheet 141

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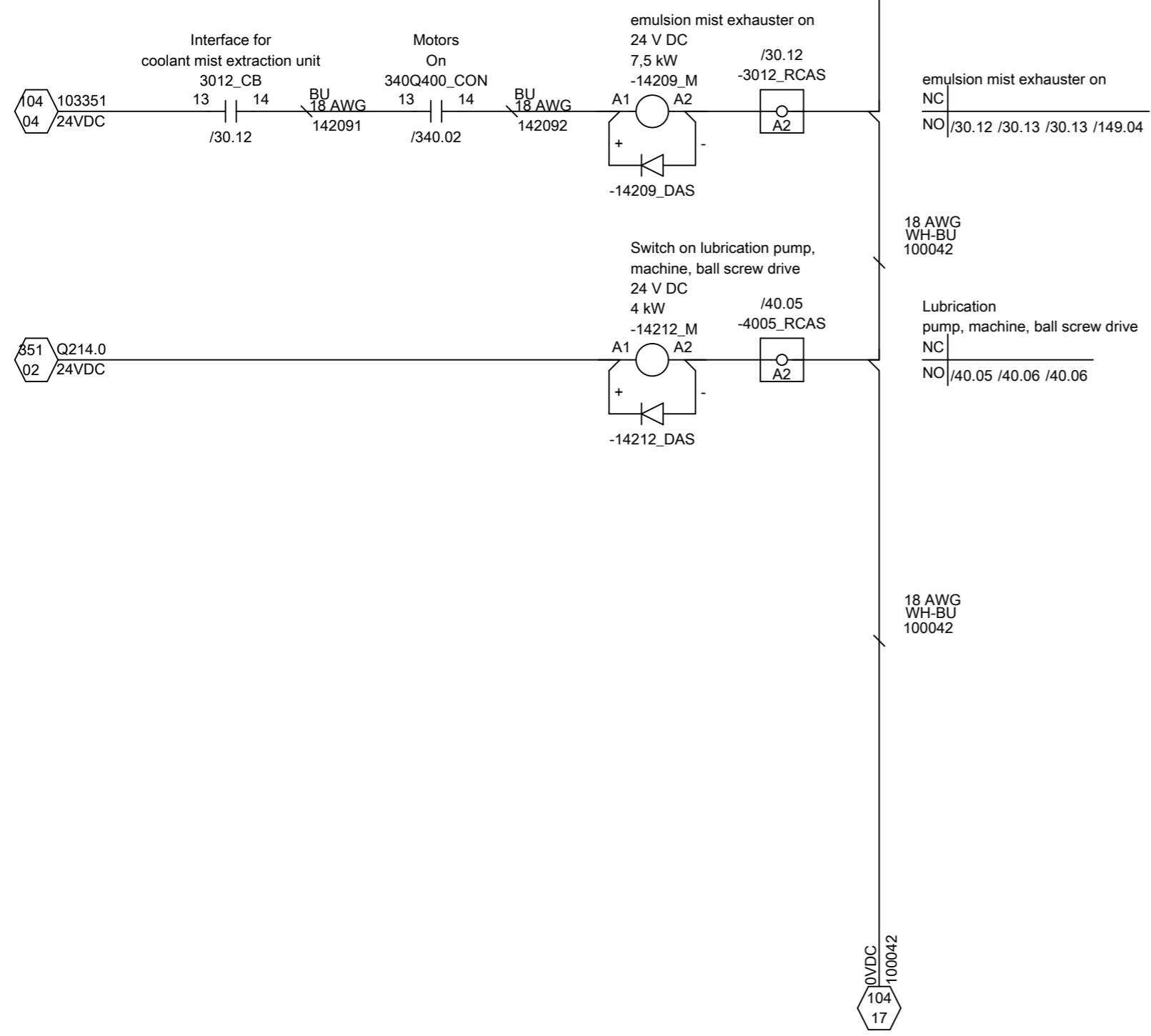
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Project description P-009084				Project JIC_EP05479300	
				Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of sheets 265 Sheet 141	
Controls					
ePLAN P8 2.2.5		=54793	140		Sheet 142

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Controls				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 142	
=54793				141 Sheet 143	

Reserve

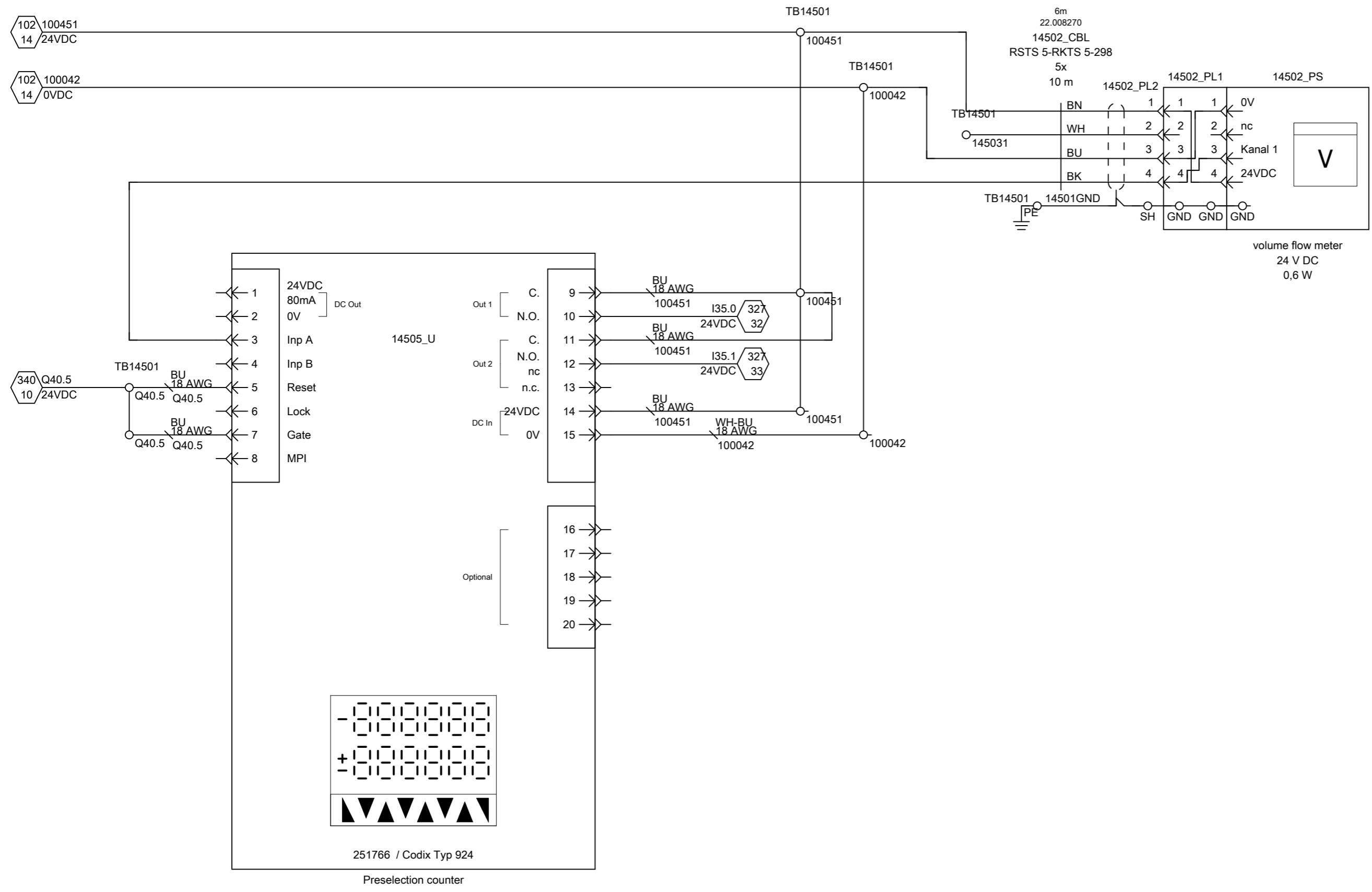
Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Two-handed operation tool magazine				Number of sheets 265 Sheet 143	
ePLAN P8 2.2.5		=54793		◀ 142 Sheet 144 ▶	

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793				
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			Inv.No.	
CHECK								
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC					
DRAWN	26.05.2015	AHP3/GMI						
Reserve page 144 selection				Number of sheets				
ePLAN P8 2.2.5				=54793		143	Sheet	145

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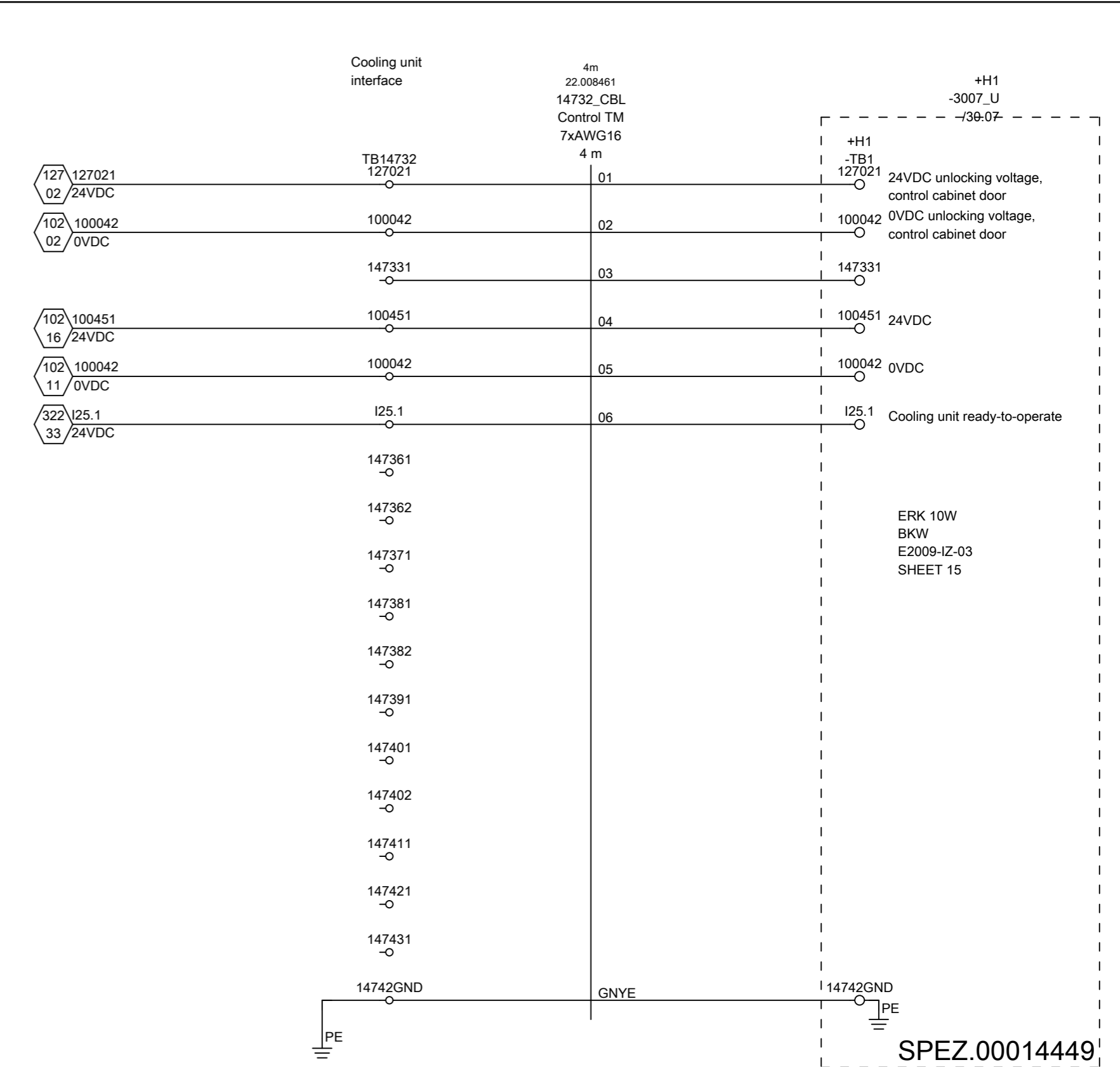
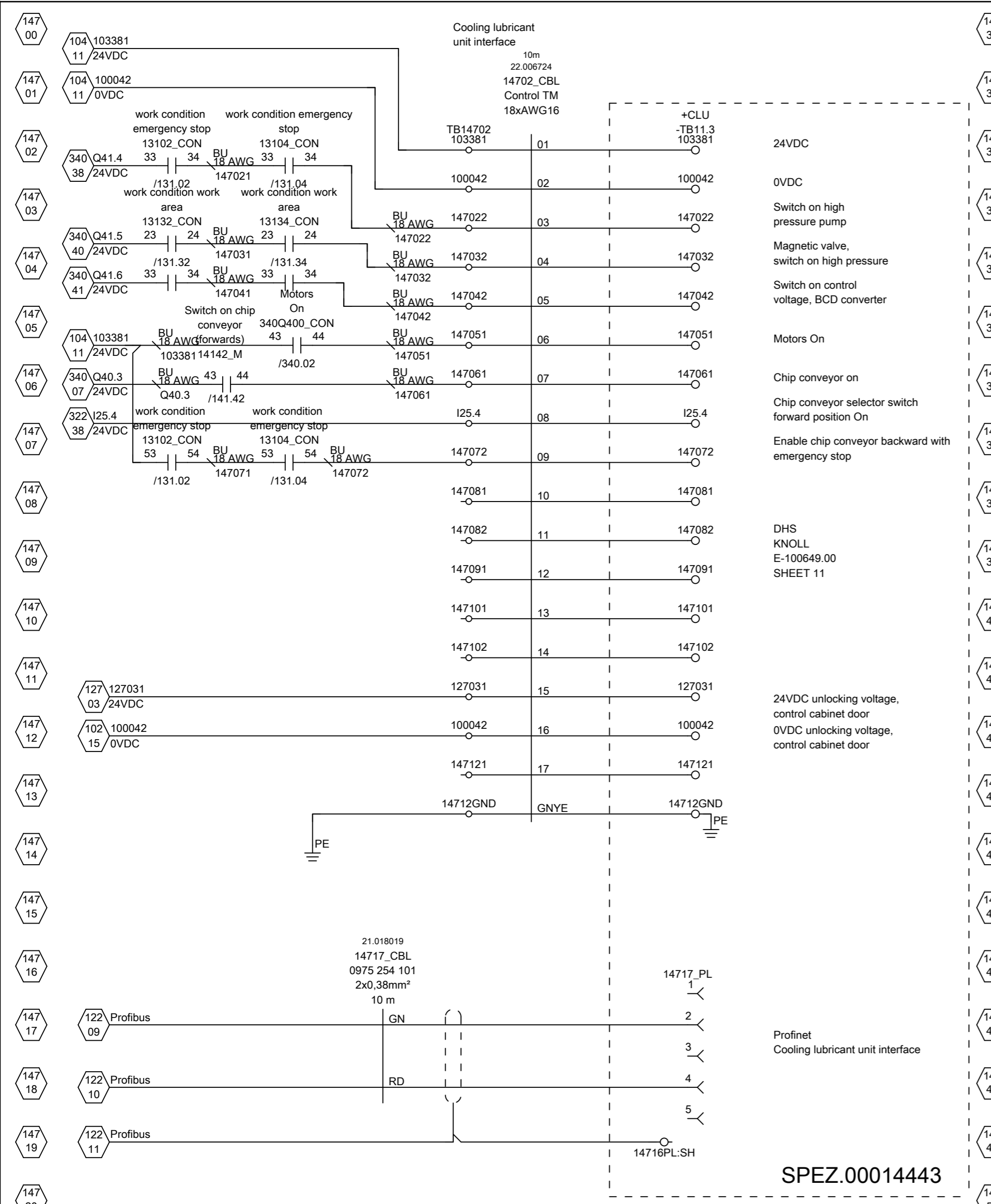


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Volume sensor for pallet clamping check				Inv.No.			
ePLAN P8 2.2.5				Number of sheets	265	Sheet	145
=54793				144	Sheet	146	

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Volume sensor, attachment head clamping, interface adapter				Number of sheets 265 Sheet 146	
ePLAN P8 2.2.5	=54793			◀ 145	Sheet 147 ▶



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Interface coolant system, interface cooling unit				Inv.No.			
ePLAN P8 2.2.5				=54793		Number of sheets 265 Sheet 147	
146				Sheet		148	

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Volume sensor, spindle extension					
				Number of sheets	265
ePLAN P8 2.2.5				=54793	Sheet
				147	148

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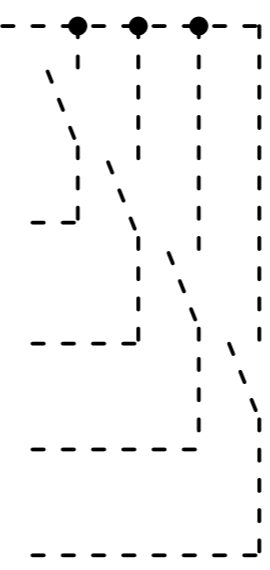
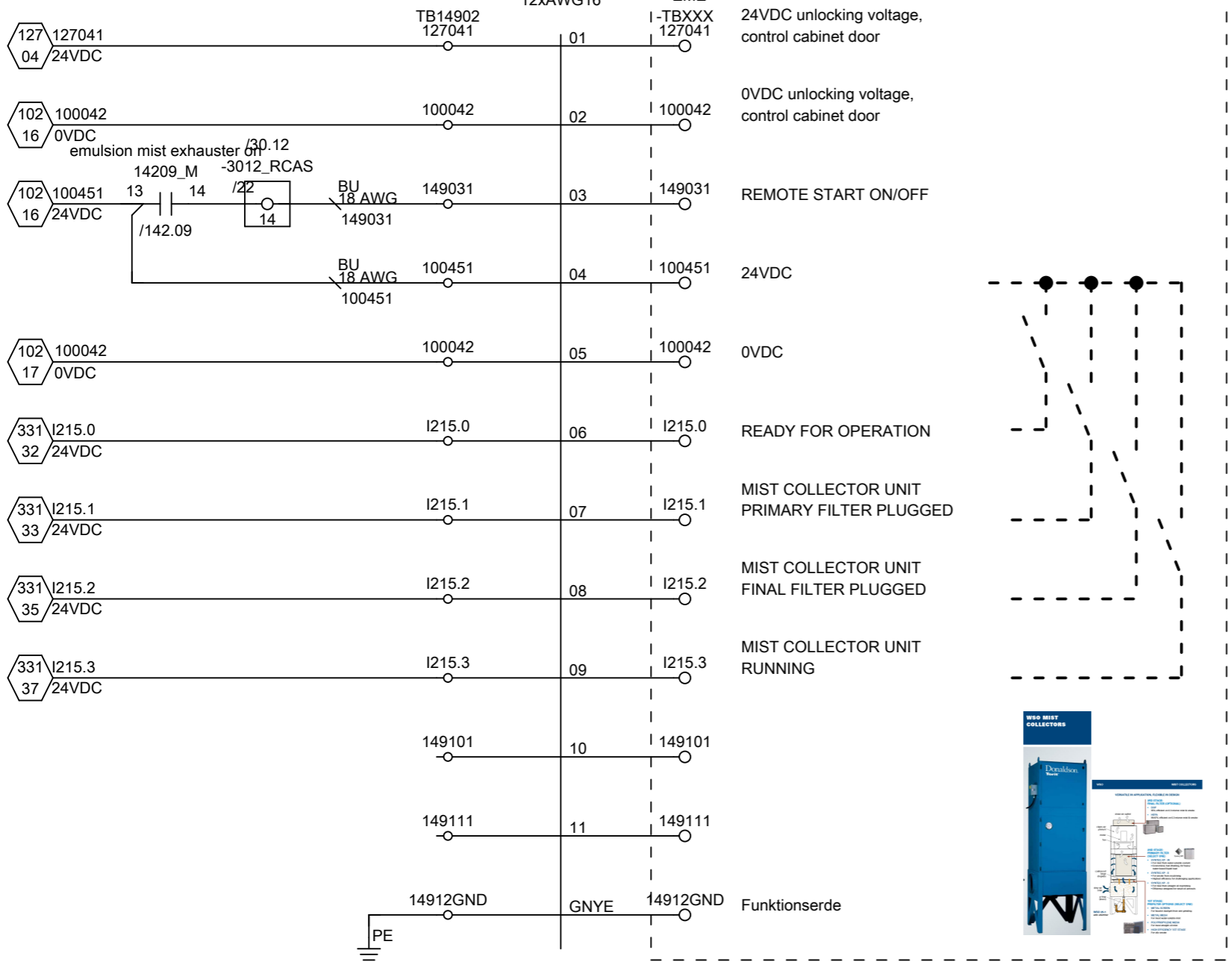
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Interface for coolant mist extraction unit

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Emulsion mist extraction



Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Interface for coolant mist extraction unit				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 149	
=54793				148 Sheet 150	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Interface for coolant mist extraction unit				Number of sheets 265 Sheet 150	
ePLAN P8 2.2.5		=54793		149	Sheet 151

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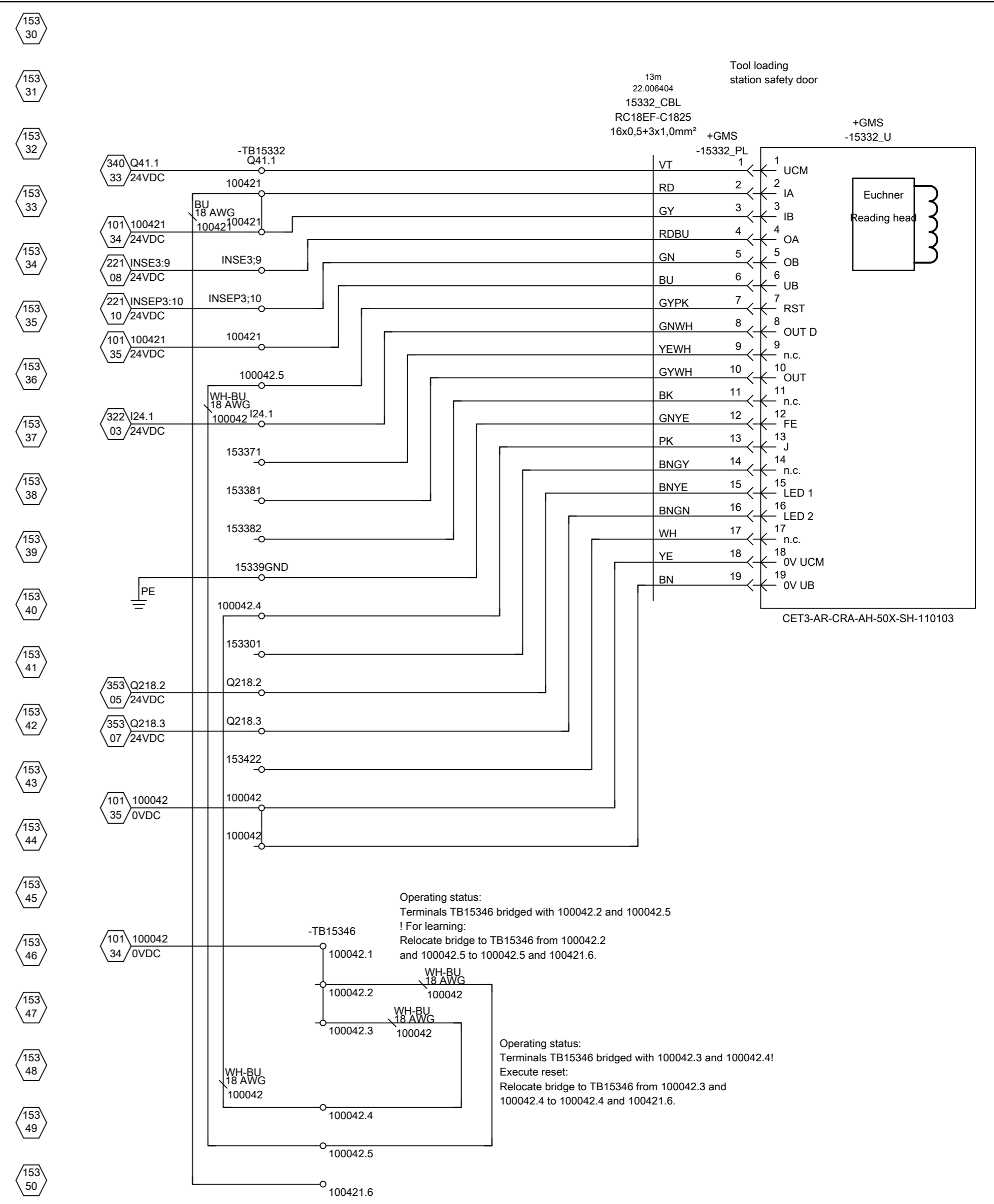
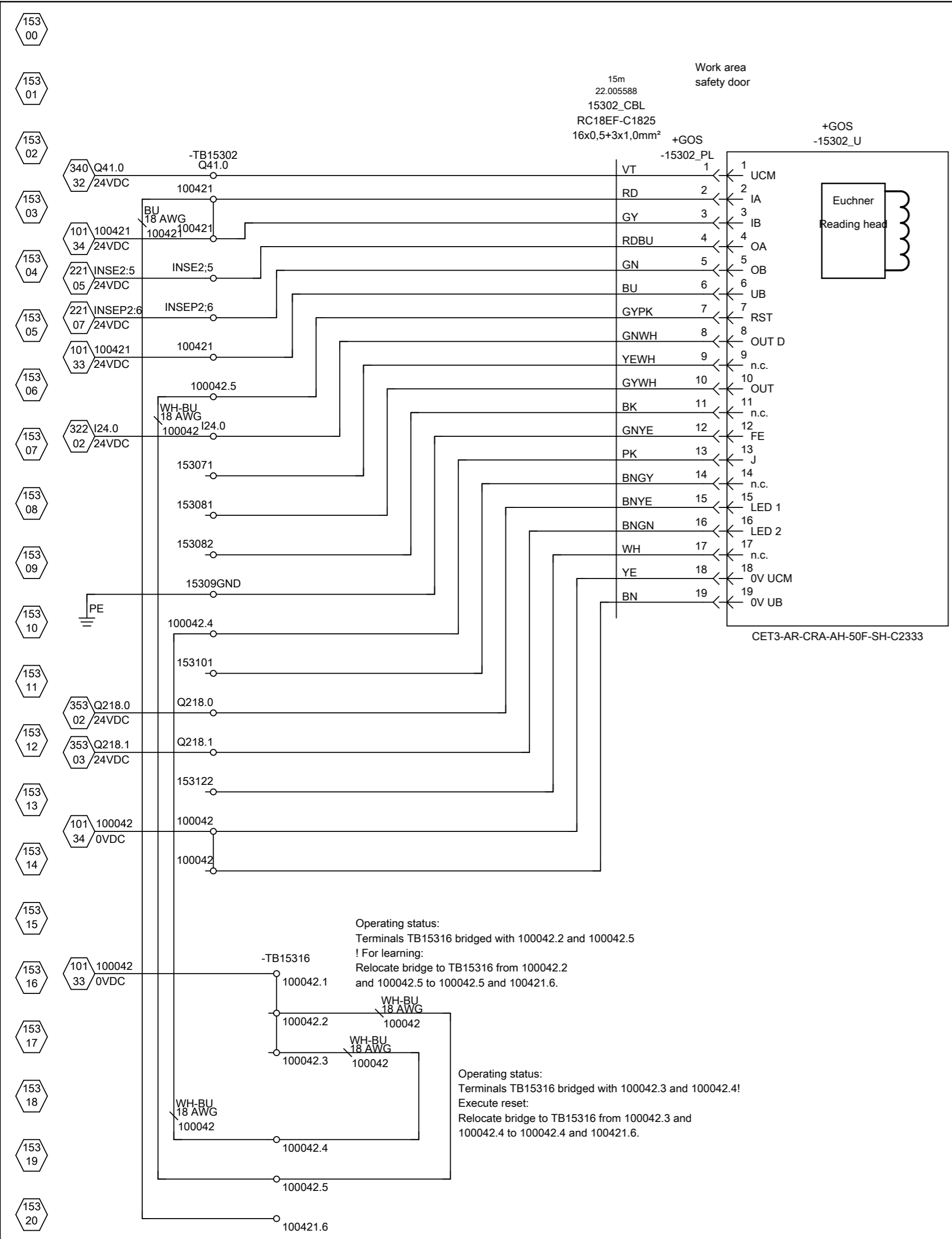
Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Minimal quantity lubrication interface				Number of sheets 265 Sheet 151	
ePLAN P8 2.2.5		=54793		◀ 150 Sheet 152 ▶	

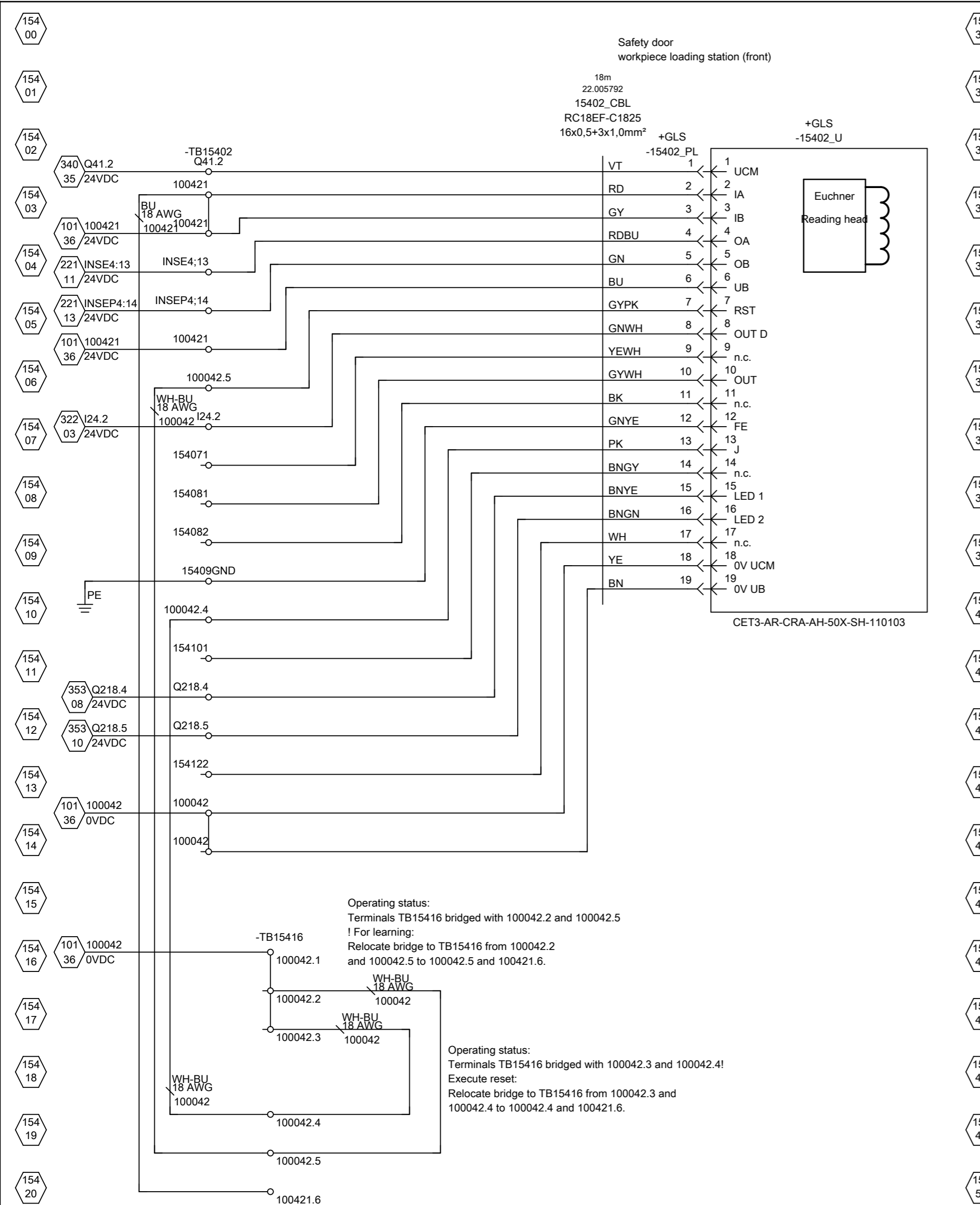
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Rack-type magazine measurement				Number of sheets 265 Sheet 152	
ePLAN P8 2.2.5		=54793		151	Sheet 153



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Work area safety door tool setting station				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				152	154

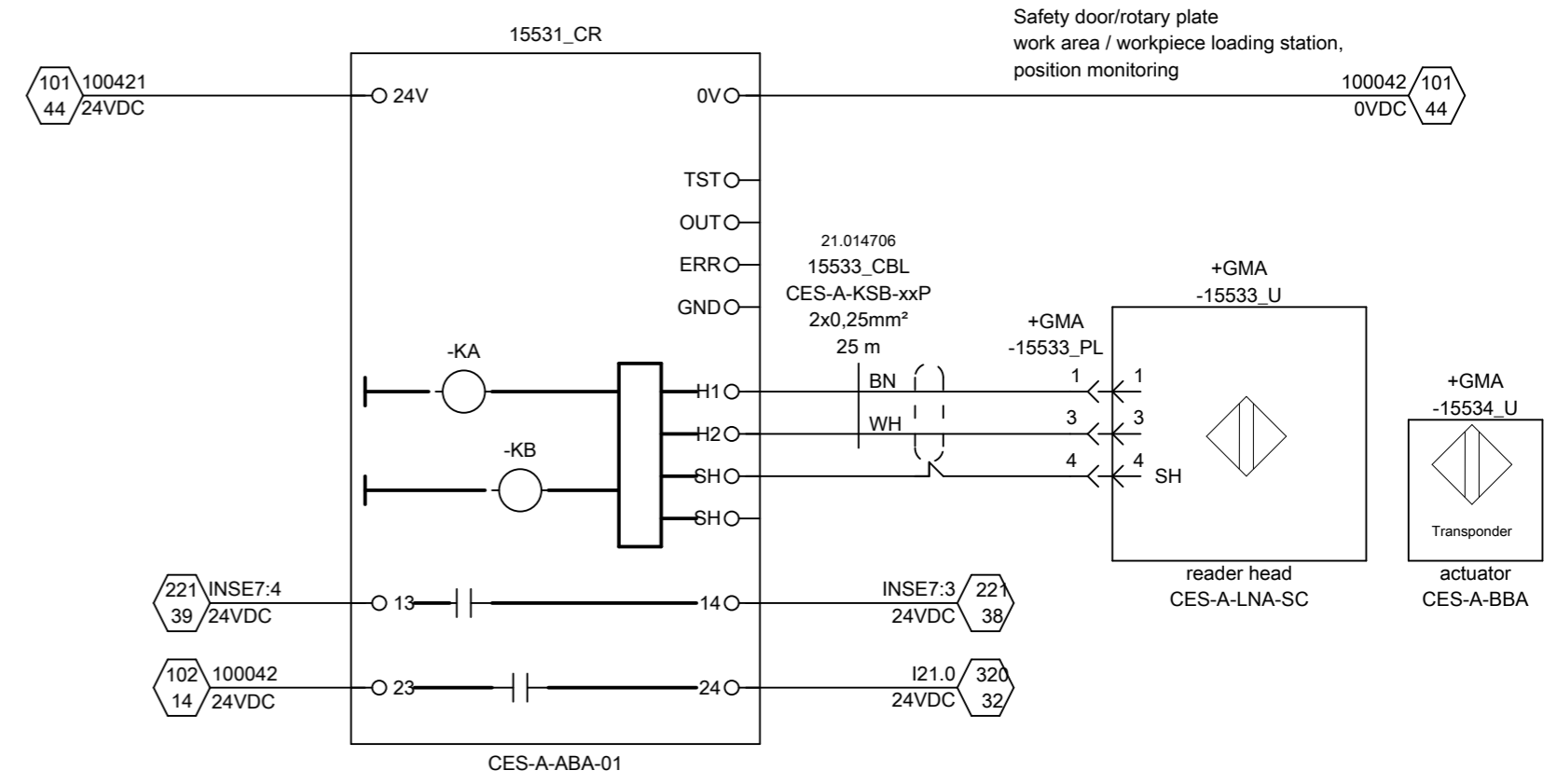


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	05.08.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Workpiece loading station (front) safety door, light curtain				Number of sheets 265 Sheet 154	
ePLAN P8 2.2.5		=54793	153		Sheet 155

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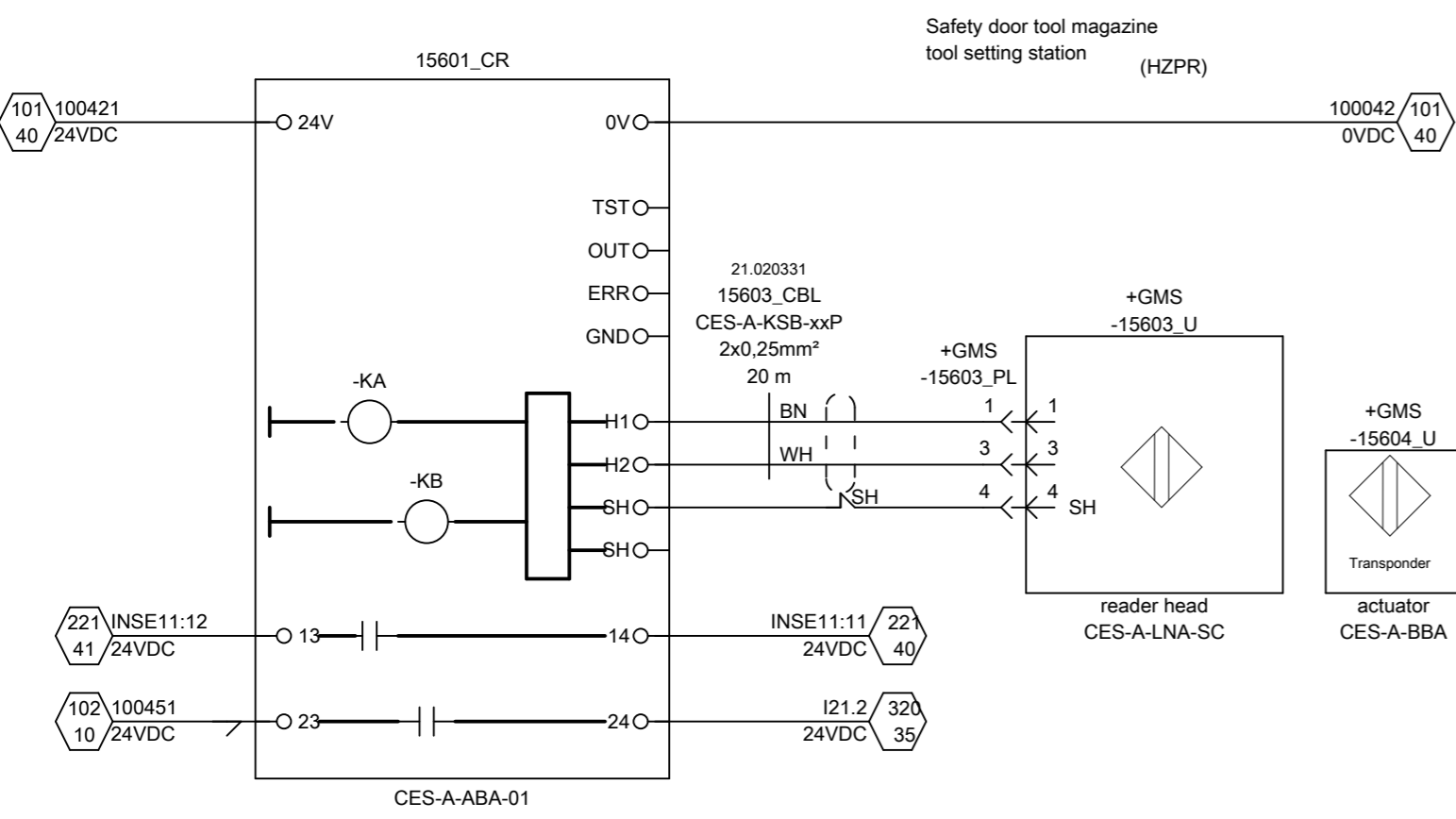
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve, Workpiece loading station safety door operating side, work area / workpiece loading station rotary plate				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 156	
=54793				154 Sheet 156	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Safety door of work area/tool setting station, rack-type tool magazine maintenance door				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 157	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve, Rotary magazine maintenance door, workpiece setting station/rotary magazine safety door closed (CMS)				Number of sheets 265 Sheet 157	
ePLAN P8 2.2.5		=54793		156	Sheet 158

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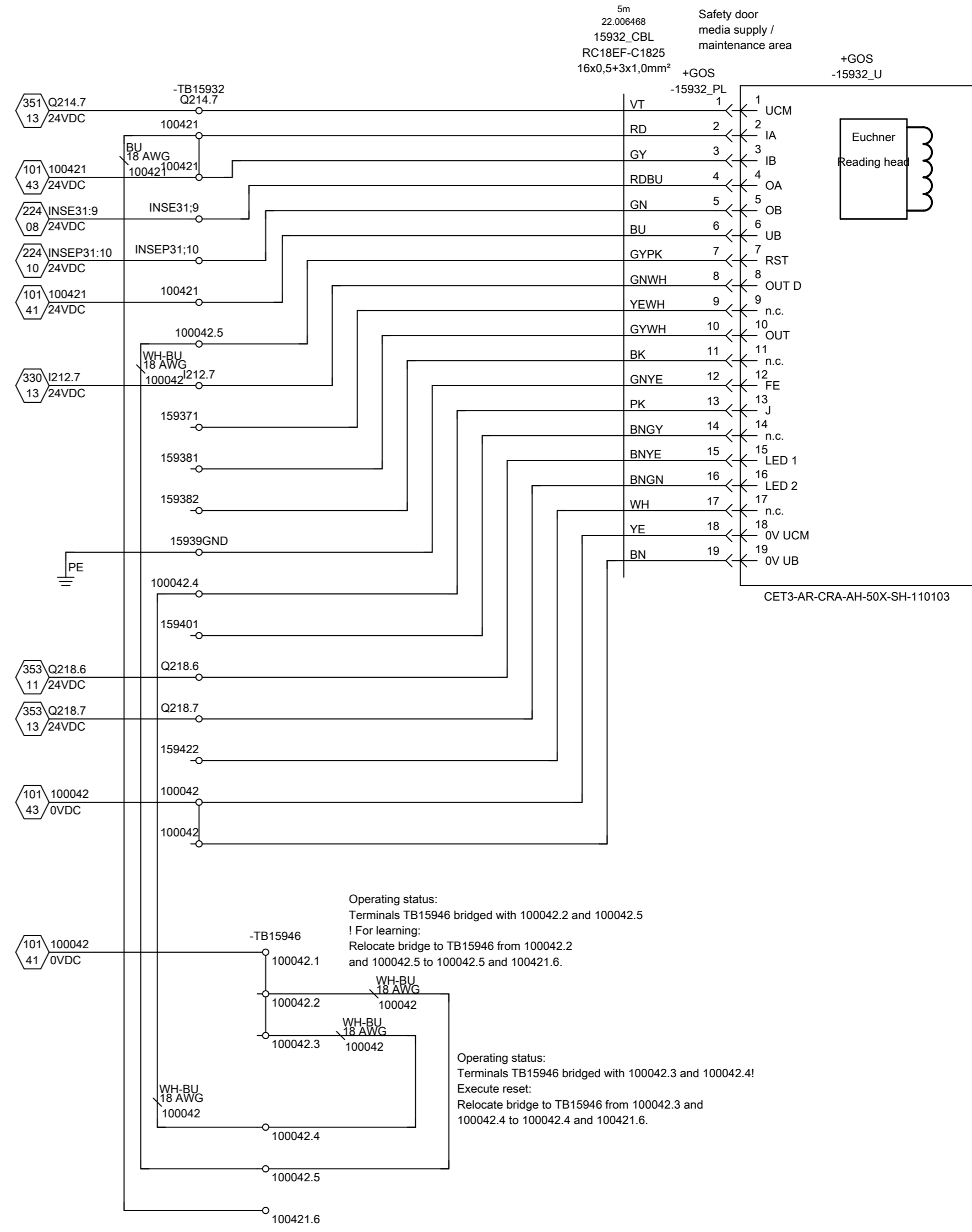
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	22.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Safety door loading top loader					
				Number of sheets 265 Sheet 158	
ePLAN P8 2.2.5		=54793		◀ 157 Sheet 159 ▶	

Reserve



Project description P-009084				Project JIC_EP05479300	
				Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Safety door maintenance area 1 + 2 media supply / maintenance area				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				158	160

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Reserve
page 160-163

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page 160-163

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 160-163					
ePLAN P8 2.2.5				=54793	
				Number of sheets	265
				Sheet	160
				159	164

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Rear wall maintenance door maintenance door media supply				Number of sheets 265 Sheet 164	
ePLAN P8 2.2.5		=54793		160	Sheet 165

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Reserve				Number of sheets		
ePLAN P8 2.2.5				=54793	265	Sheet 165
				164	Sheet	166

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/EWD		Inv.No.	
Tool drawer 1 + 2, rack-type tool magazine				Number of sheets 265 Sheet 166	
ePLAN P8 2.2.5		=54793		◀ 165	Sheet 167 ▶

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page 167-169

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page 167-169

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/EWD		Inv.No.	
Reserve page 167-169				Number of sheets 265 Sheet 167	
ePLAN P8 2.2.5		=54793		◀ 166 Sheet 170 ▶	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	22.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Interface external loading				Number of sheets 265 Sheet 170	
ePLAN P8 2.2.5		=54793		167	Sheet 171

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	22.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 171				Number of sheets 265 Sheet 171	
ePLAN P8 2.2.5		=54793		170	Sheet 172

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Reserve

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	22.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Emergency stop to external loading				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				Sheet	172
				171	173

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Reserve

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Safety door work area/workpiece setting station to external loading				Number of sheets 265 Sheet 173	
ePLAN P8 2.2.5		=54793		172	Sheet 174

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Reserve

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	22.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Loading safety door				Number of sheets	
ePLAN P8 2.2.5				265	Sheet
=54793				173	Sheet
				174	Sheet

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Profibus DP external loading				Number of sheets 265 Sheet 175	
ePLAN P8 2.2.5		=54793		◀ 174	Sheet 176 ▶

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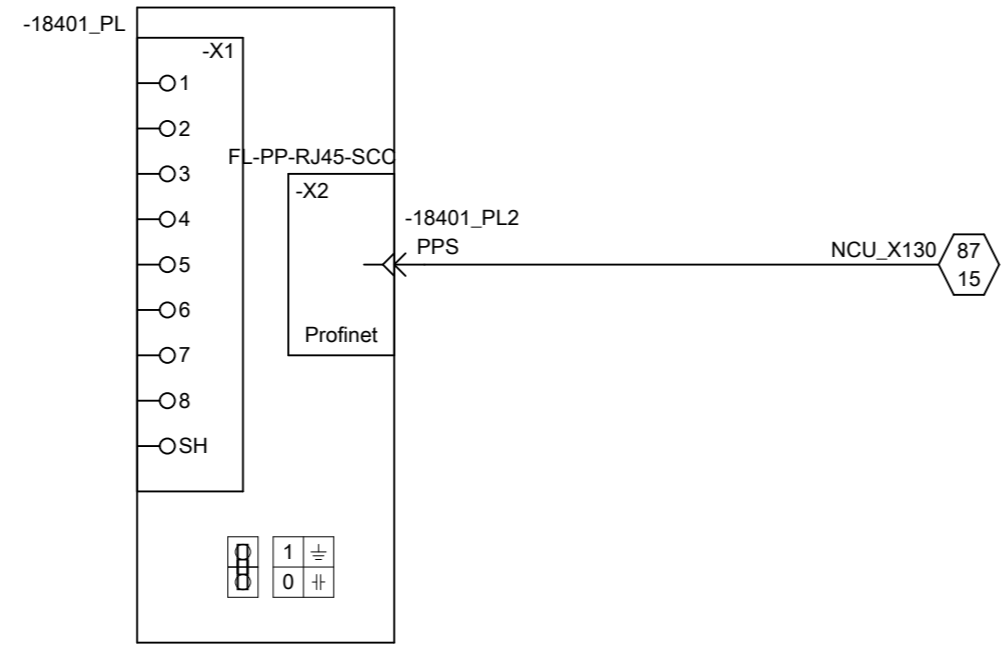
176
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Reserve

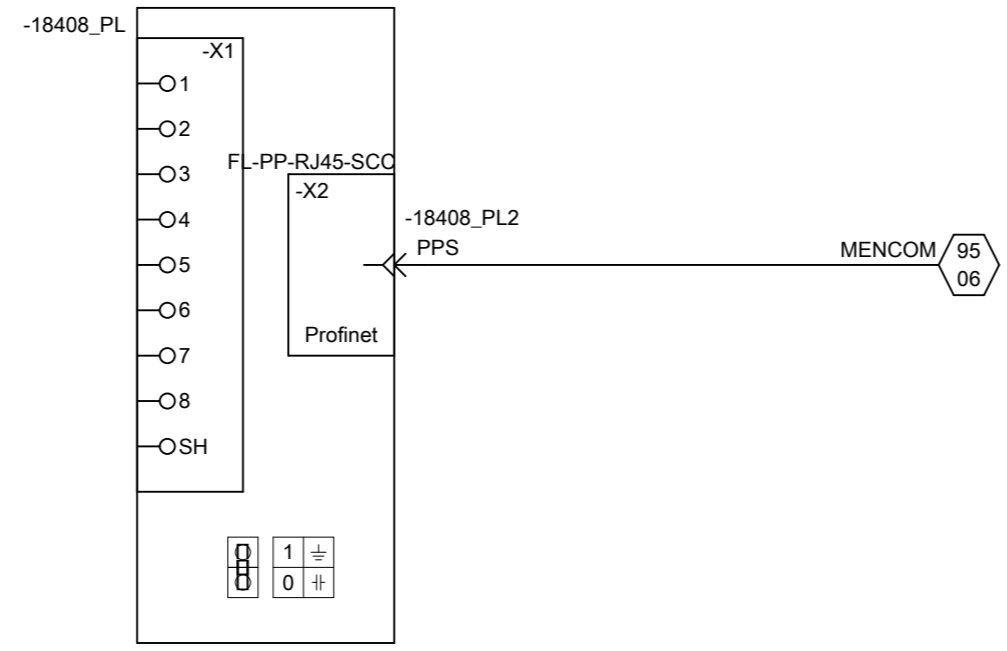
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 176 - 183				Number of sheets	
ePLAN P8 2.2.5				=54793	175
				Sheet	184

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- 184 01
- 184 02
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Plant Ethernet

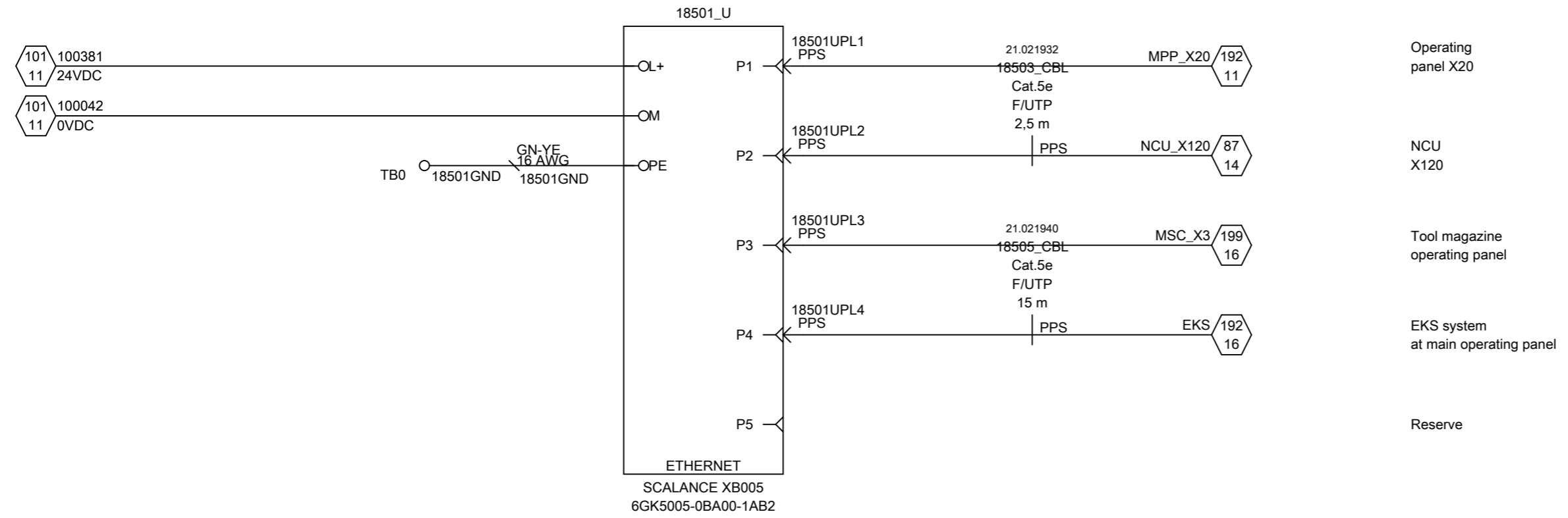


Plant Ethernet



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	30.06.2015	AHP3/RIG			
Patchpanel				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet 184
◀ 176				Sheet	185 ▶

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Operating panel X20

NCU X120

Tool magazine operating panel

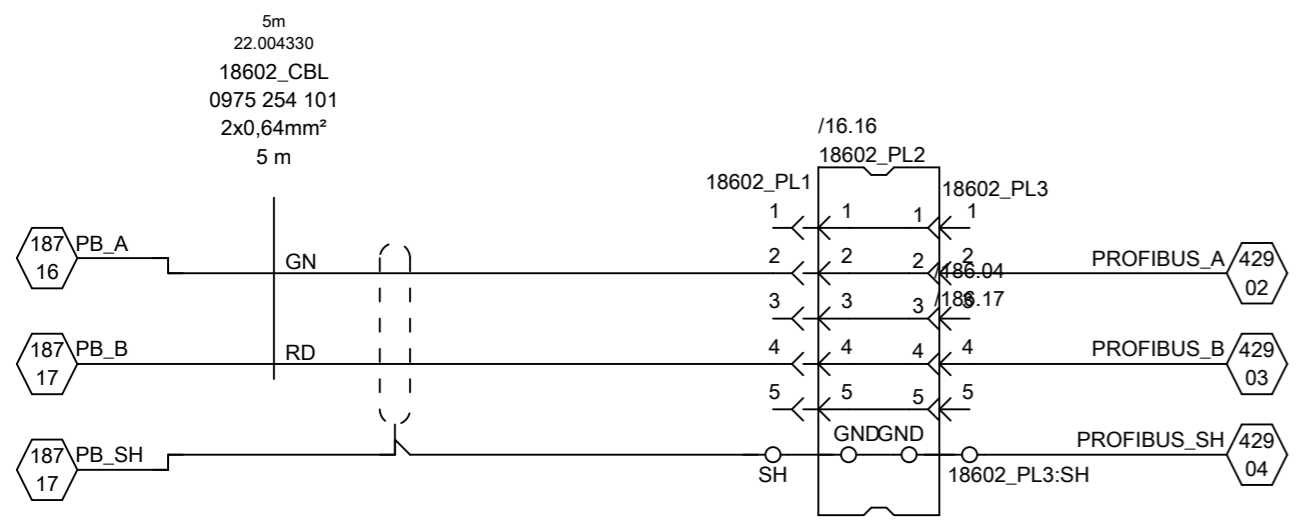
EKS system at main operating panel

Reserve

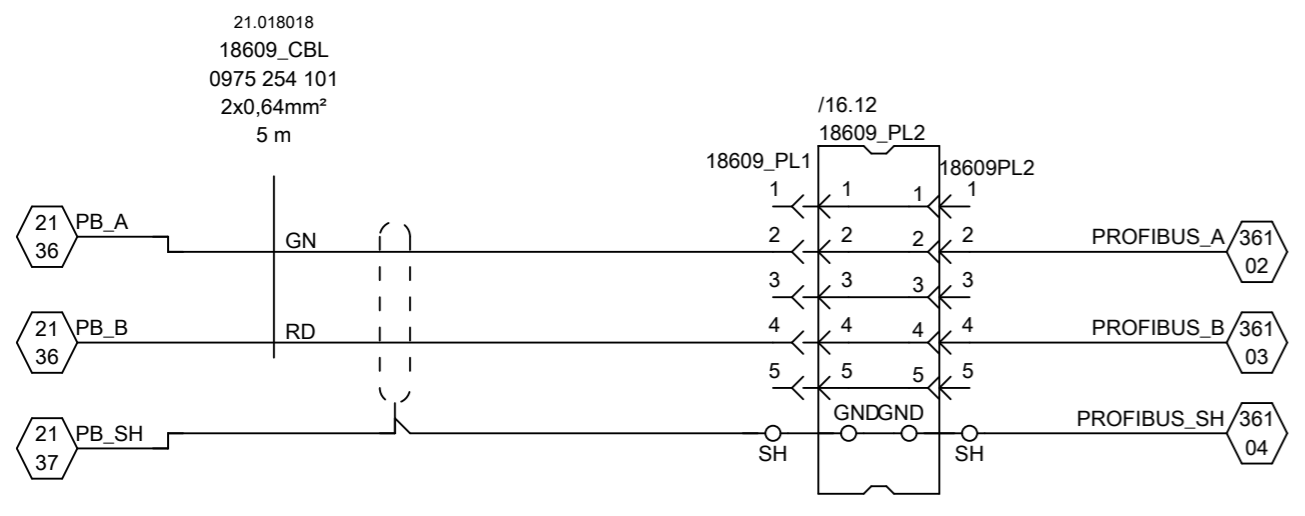
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK			H 10000 MC				
CHANGE	05.08.2016	AHP1/HAS					
DRAWN	29.10.2015	AHP3/EWD		Inv.No.			
Industrial Ethernet				Number of sheets 265 Sheet 185			
ePLAN P8 2.2.5		=54793		184		Sheet 186	

186 00
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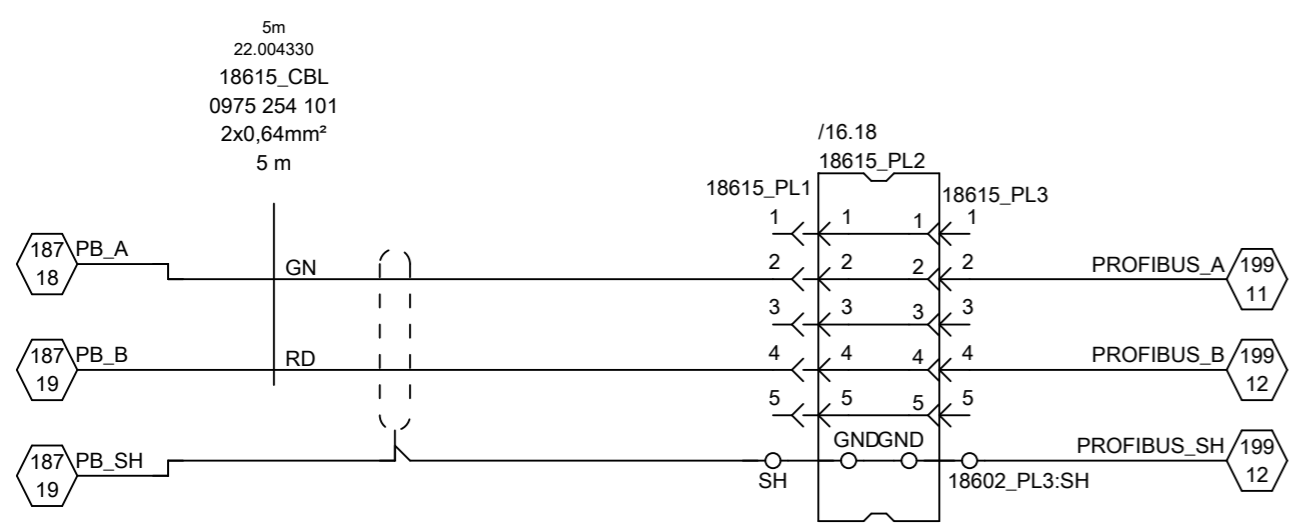
186 30
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ET200Pro



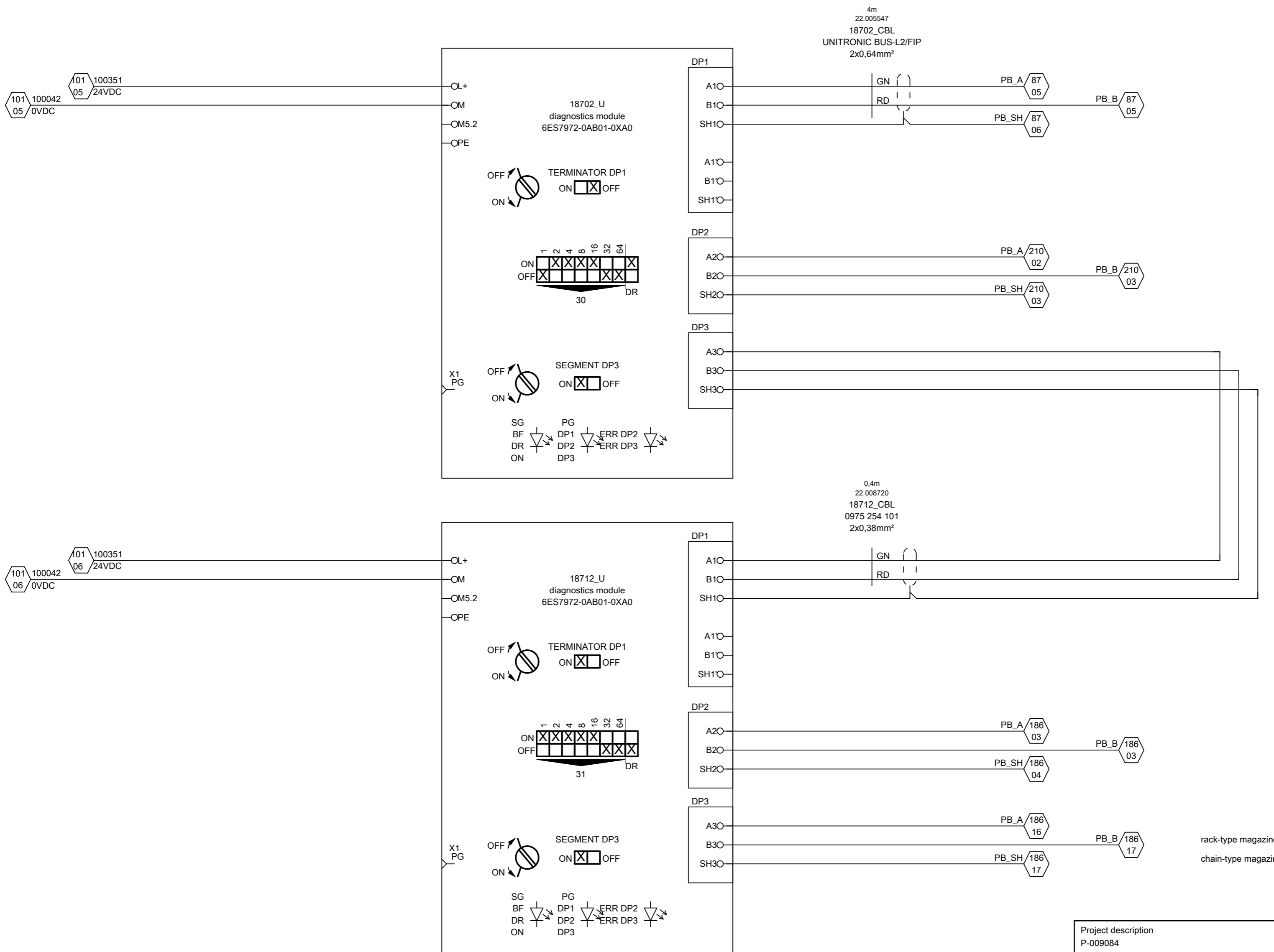
ET200pro
interface cooling
lubricant unit



rack-type magazine
chain-type magazine

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus DP Field bus coupling				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 186	
=54793				185 Sheet 187	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.06.2016	AHP3/RIG	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of sheets 265 Sheet 187	
Profibus DP diagnostics repeater				Number of sheets 265 Sheet 187	
ePLAN P8 2.2.5		=54793	186 Sheet 188		

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Reserve
barcode reader, handheld
scanner, workpiece loading station

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Barcode reader, handheld scanner with Ethernet				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				187	Sheet 188

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 265 Sheet 189	
ePLAN P8 2.2.5		=54793		188	Sheet 190

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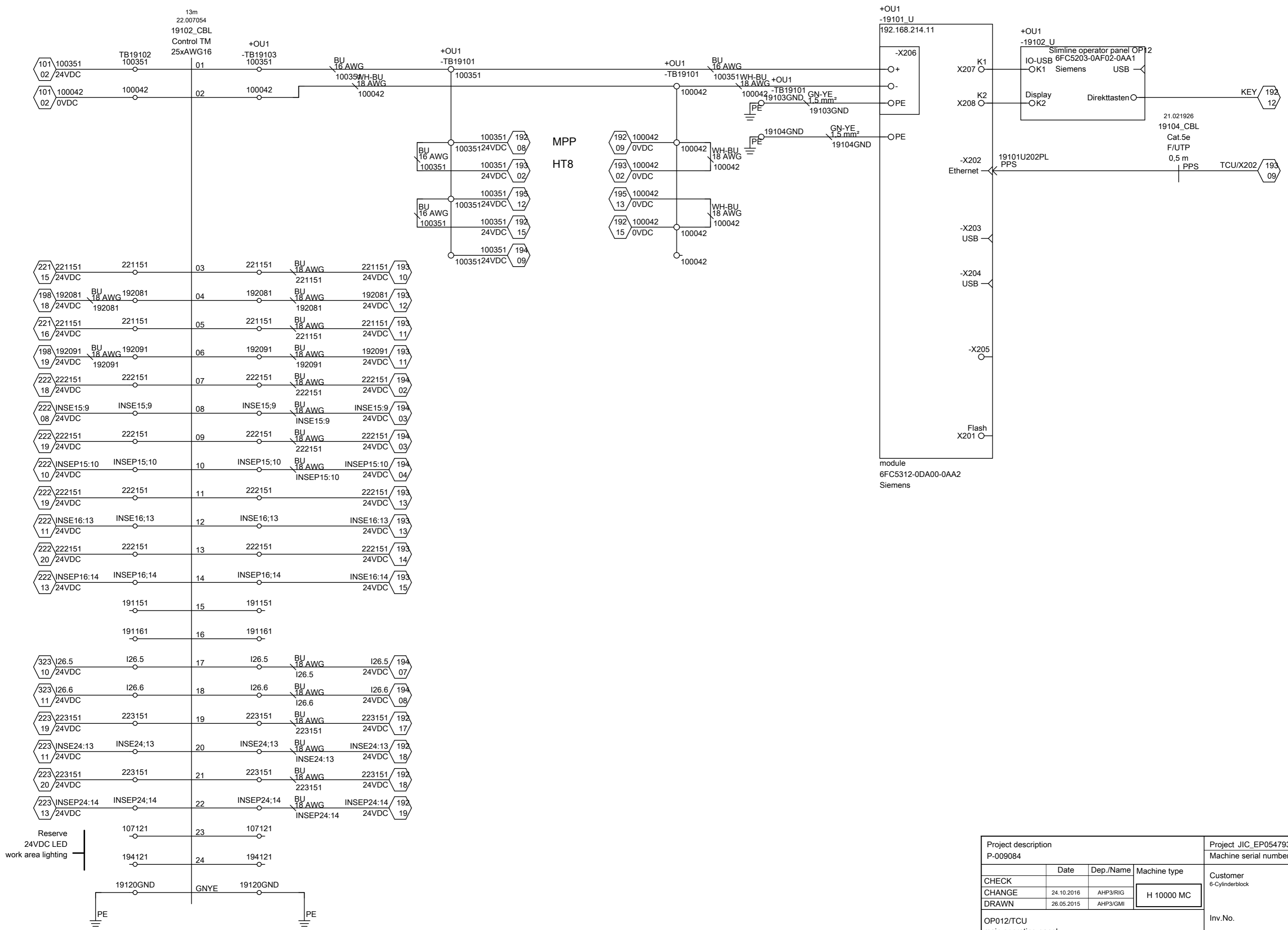
Reserve

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Reserve

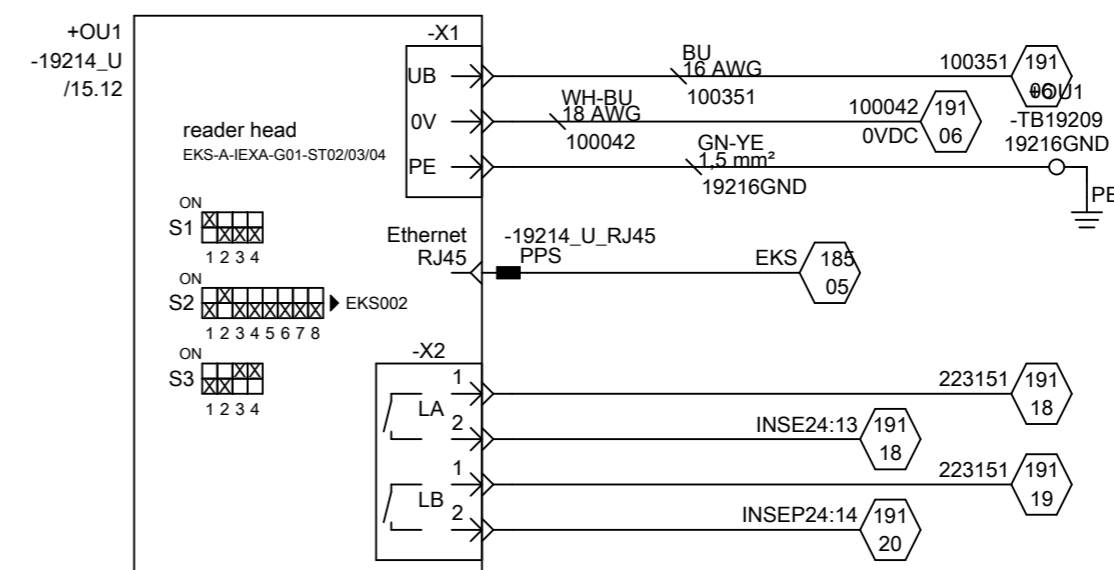
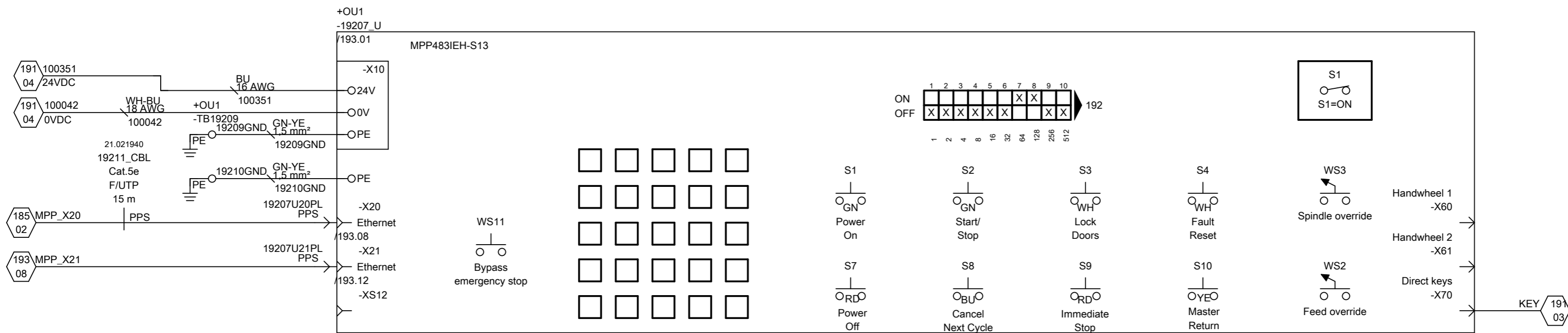
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Reserve				Number of sheets		
ePLAN P8 2.2.5				=54793	265	Sheet 190
				189	Sheet	191

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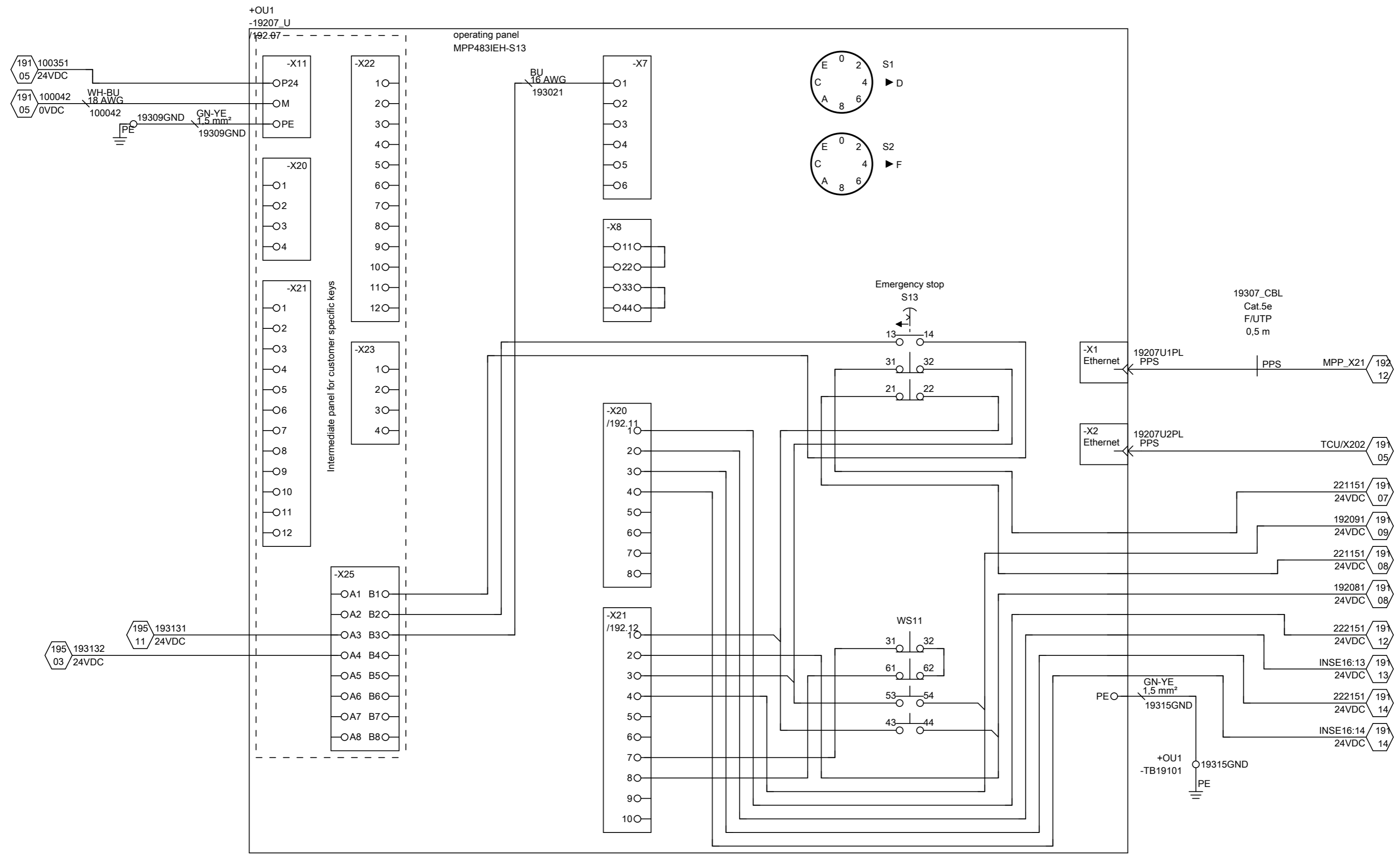
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
OP012/TCU main operating panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 191	
=54793				190 Sheet 192	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Machine operating panel, main operating panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				191	Sheet
				265	Sheet
				192	Sheet

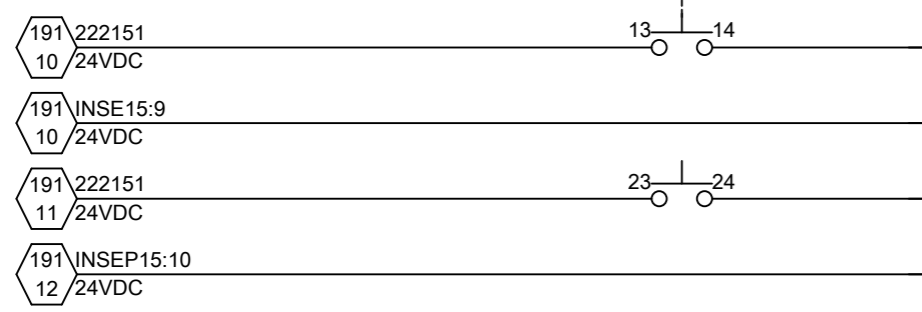
193 00
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Machine operating panel, main operating panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 193	
=54793				192 Sheet 194	

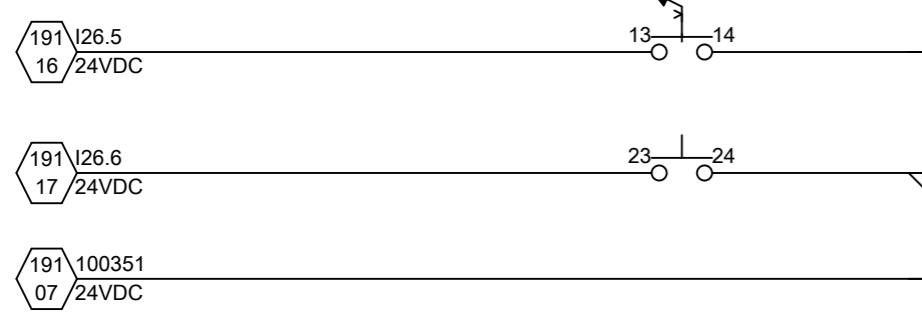
194 00
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Approval
main operator panel
+OU1
-19402_PB
WH



Approval key,
main operator panel

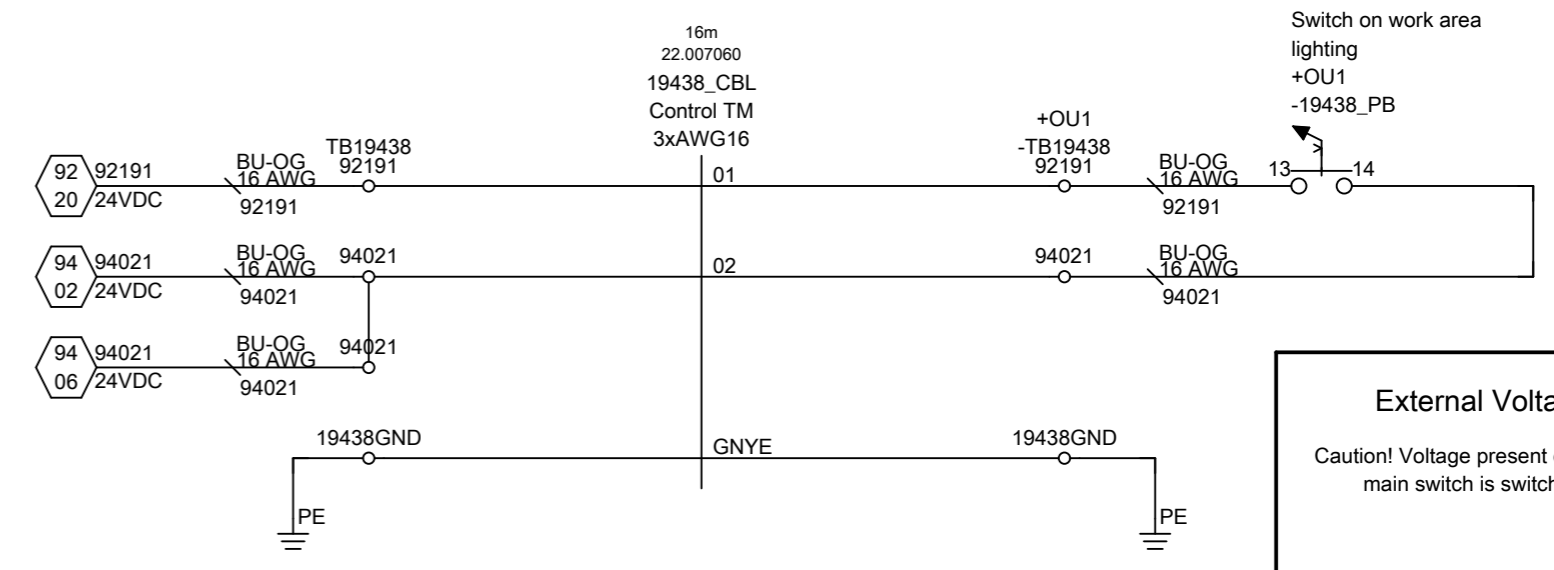
Spiral chip conveyer
+OU1
-19407_PB



Spiral chip conveyer
forwards on

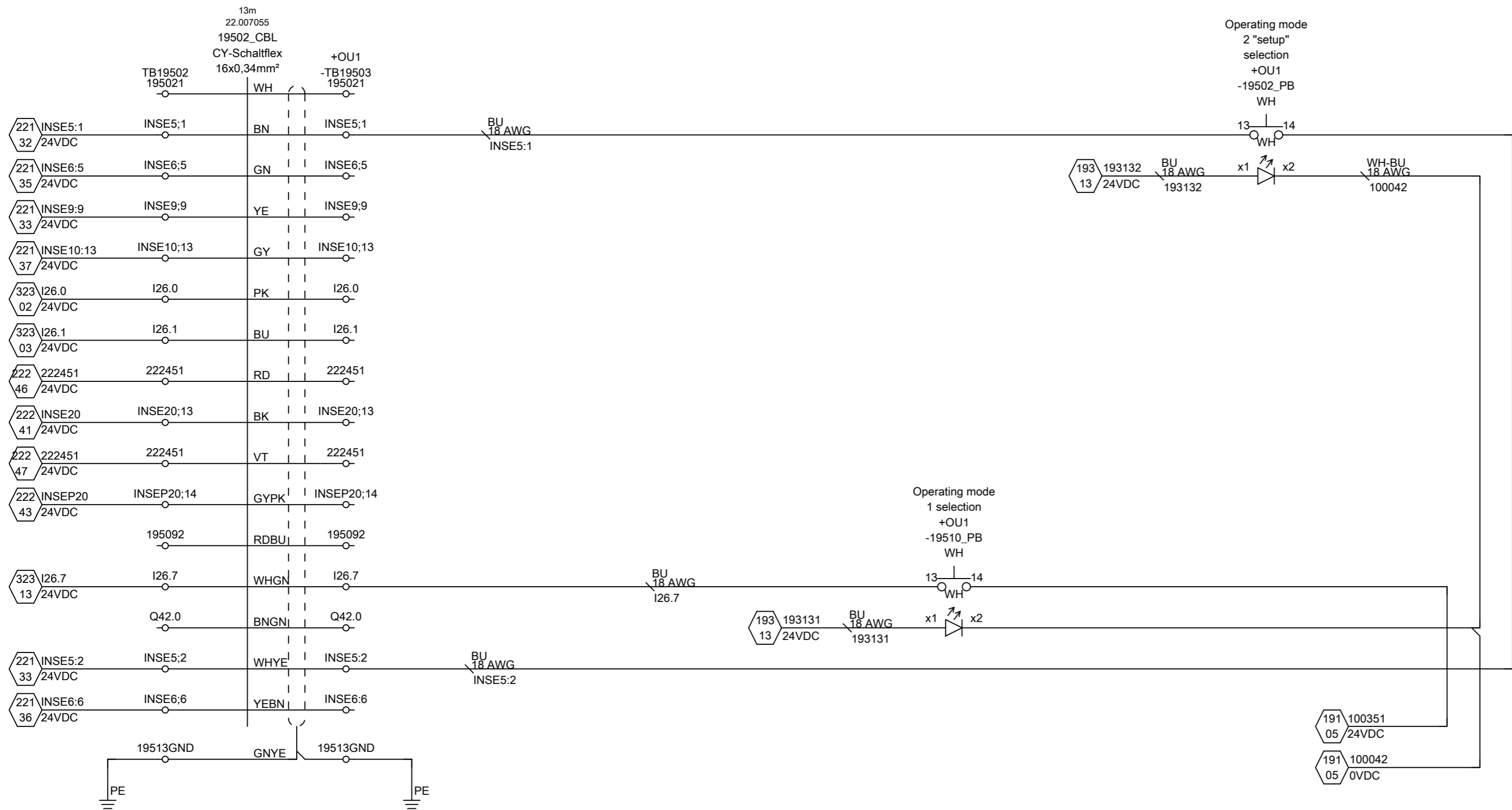
Jogging spiral chip
conveyor backwards

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Approval main operator panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 194	
=54793				193 Sheet 195	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Operating mode selection, main operating panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 195	
=54793				194 Sheet 196	

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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Hand-held operating unit main operating unit				Number of sheets	
				265	Sheet
ePLAN P8 2.2.5				=54793	195
				Sheet	197

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Reserve

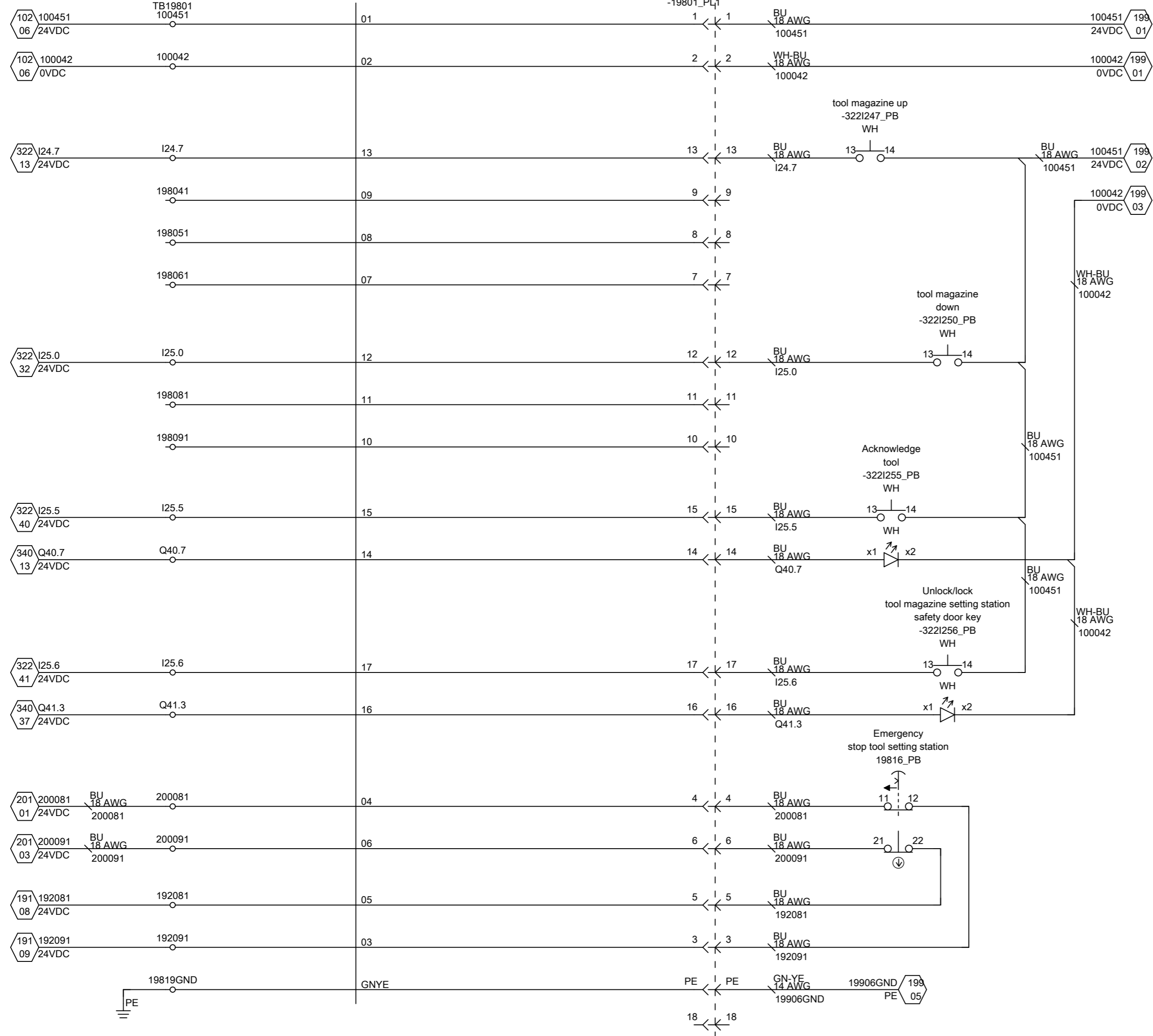
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve, control panel rear wall media supply				Number of sheets 265 Sheet 197	
ePLAN P8 2.2.5		=54793		196	Sheet 198

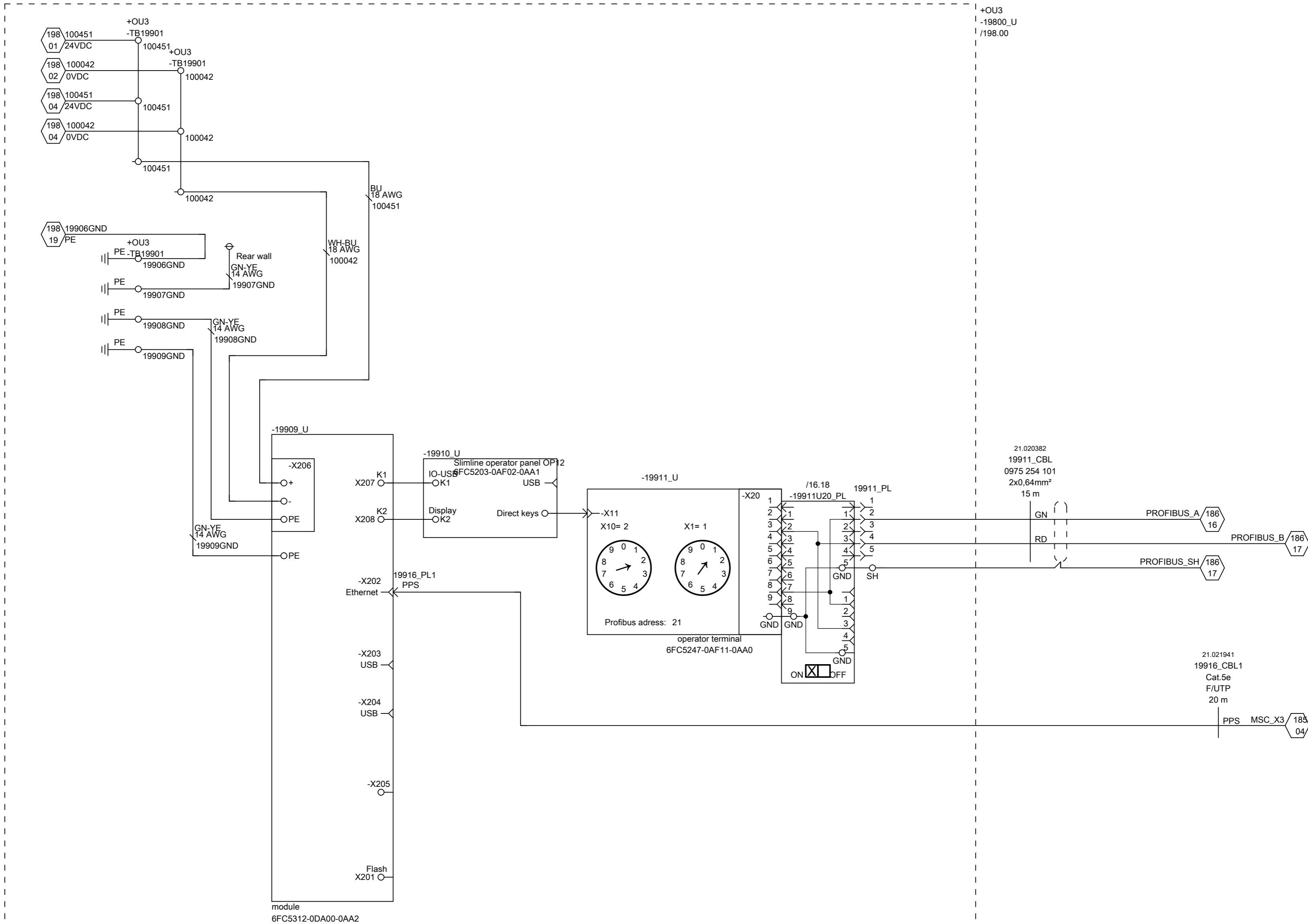
19801_CBL1
Control TM
18xAWG16

+OU3
-19800_U
/199.00



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	02.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool setting station magazine control panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 198	
=54793				197 Sheet 199	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool setting station magazine control panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 199	
=54793				198 Sheet 200	

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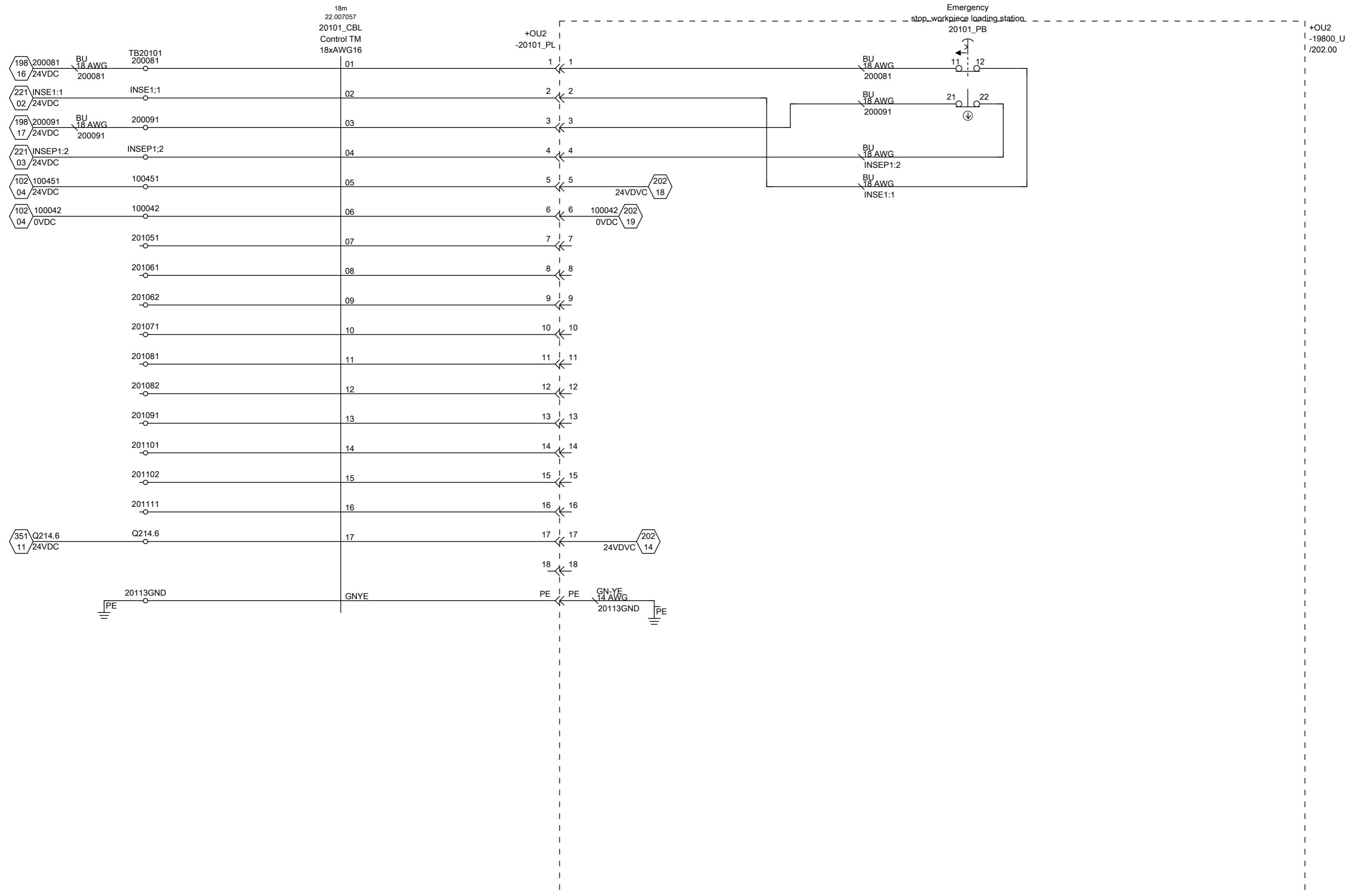
200
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Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Interface for rack-type magazine handheld operating unit					
				Number of sheets	265
ePLAN P8 2.2.5				=54793	Sheet
				199	201

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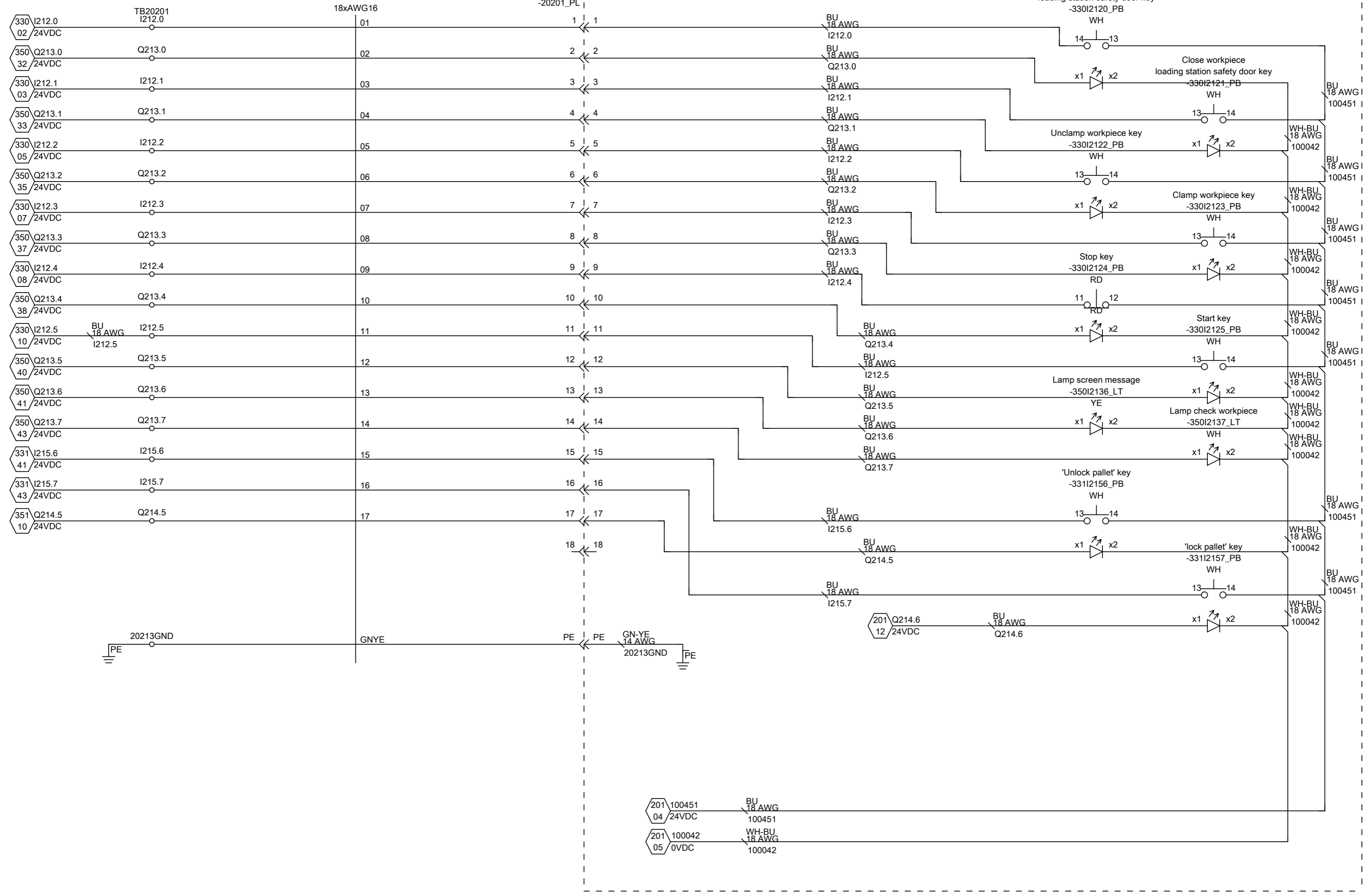
Project description P-009084				Project JIC_EP05479300	
				Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Workpiece setting station operator panel				Inv.No.	
				Number of sheets	
ePLAN P8 2.2.5				265	
=54793				Sheet 201	
◀ 200				Sheet 202	

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201 100042 WH-BU 18 AWG 100042

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve Workpiece setting station operator panel				Inv.No.			
ePLAN P8 2.2.5				=54793		Number of sheets 265 Sheet 202	
				201		Sheet 203	

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Reserve
workpiece loading station operating unit

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve workpiece loading station operating panel preset start				Inv.No.	
				Number of sheets 265 Sheet 203	
ePLAN P8 2.2.5		=54793		◀ 202 Sheet 204 ▶	

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Reserve

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Workpiece setting station operator panel				Number of sheets			
ePLAN P8 2.2.5				=54793	203	Sheet	205

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Reserve

Reserve

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Workpiece setting station operator panel				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				204	205
				Sheet	206

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Reserve

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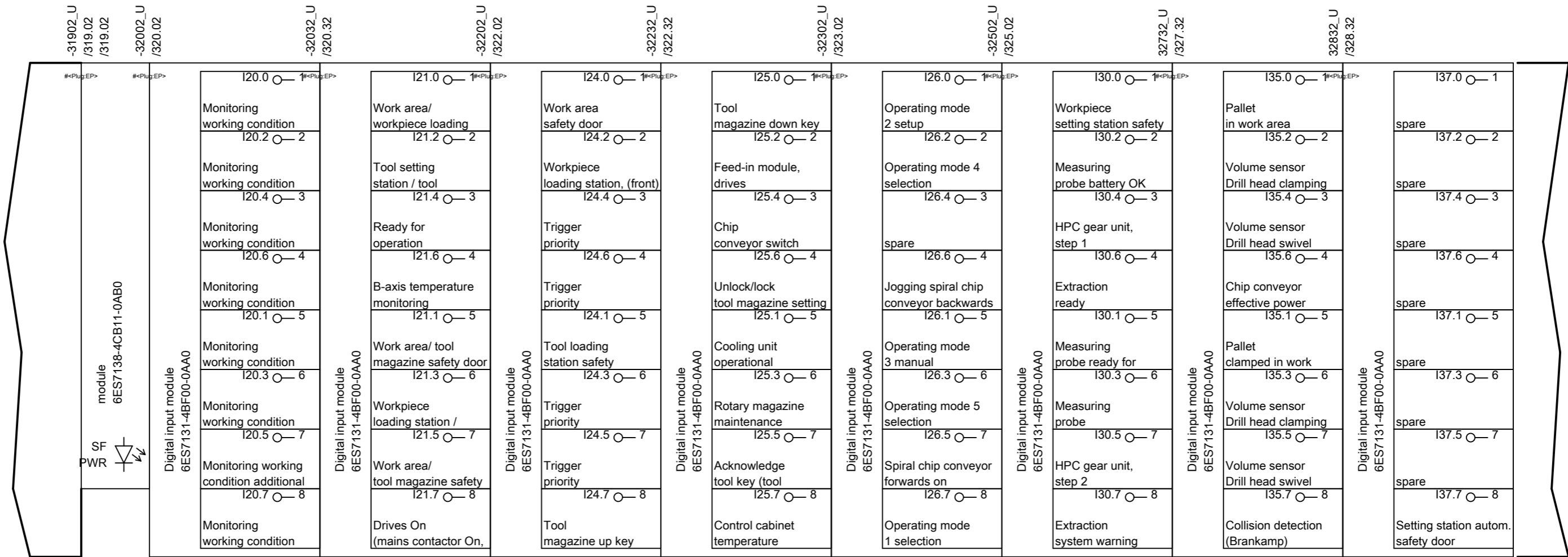
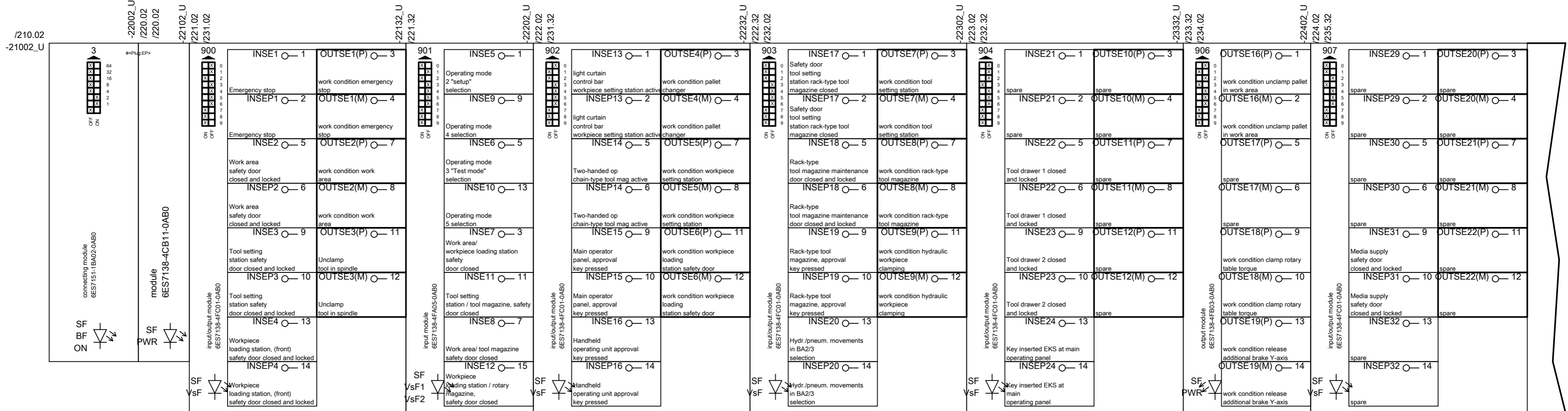
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Reserve

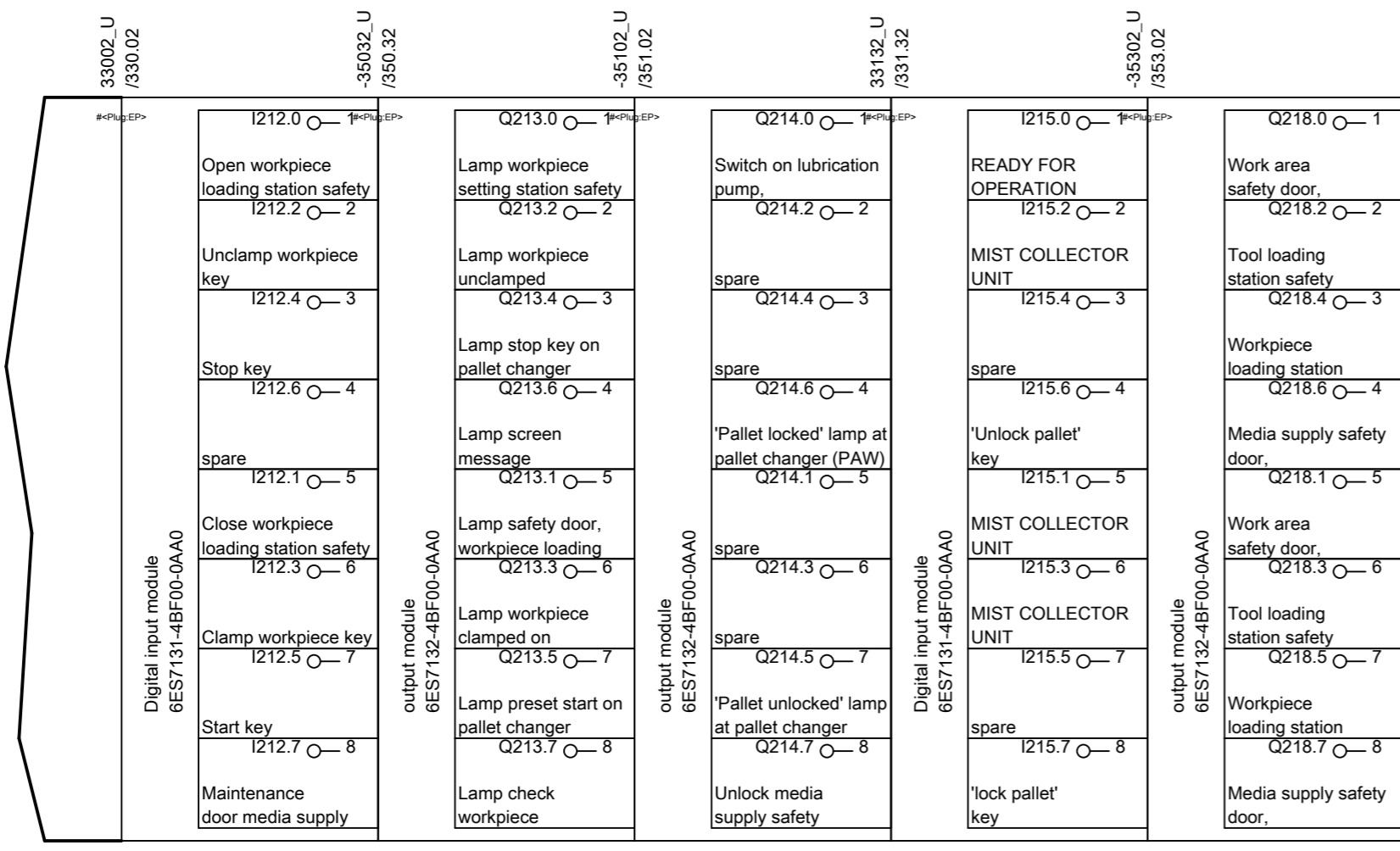
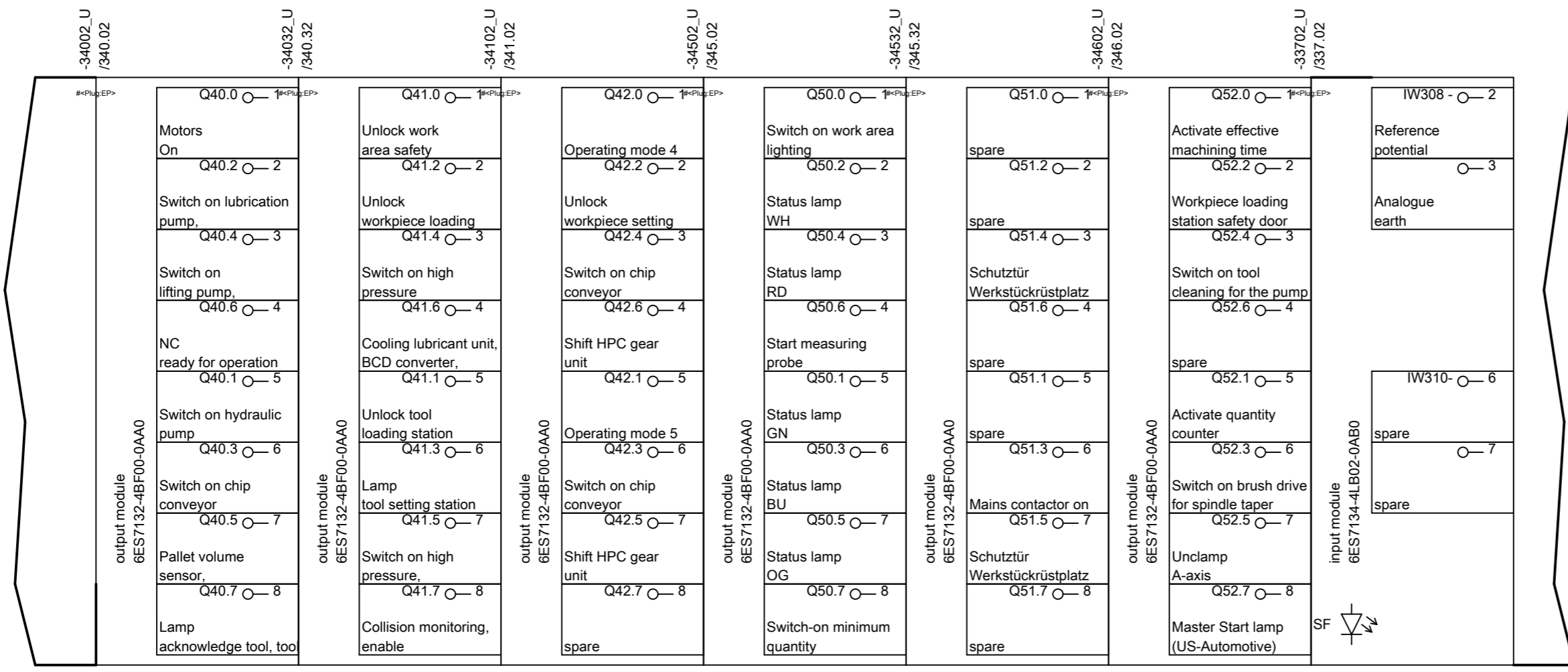
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve PICK32-X300				Inv.No.	
				Number of sheets 265 Sheet 206	
ePLAN P8 2.2.5		=54793		◀ 205 Sheet 207 ▶	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of inputs/outputs control cabinet				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 207	
=54793				206 Sheet 208	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of inputs/outputs control cabinet				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 208	
=54793				207 Sheet 209	

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Reserve
Overview of inputs/outputs
control cabinet

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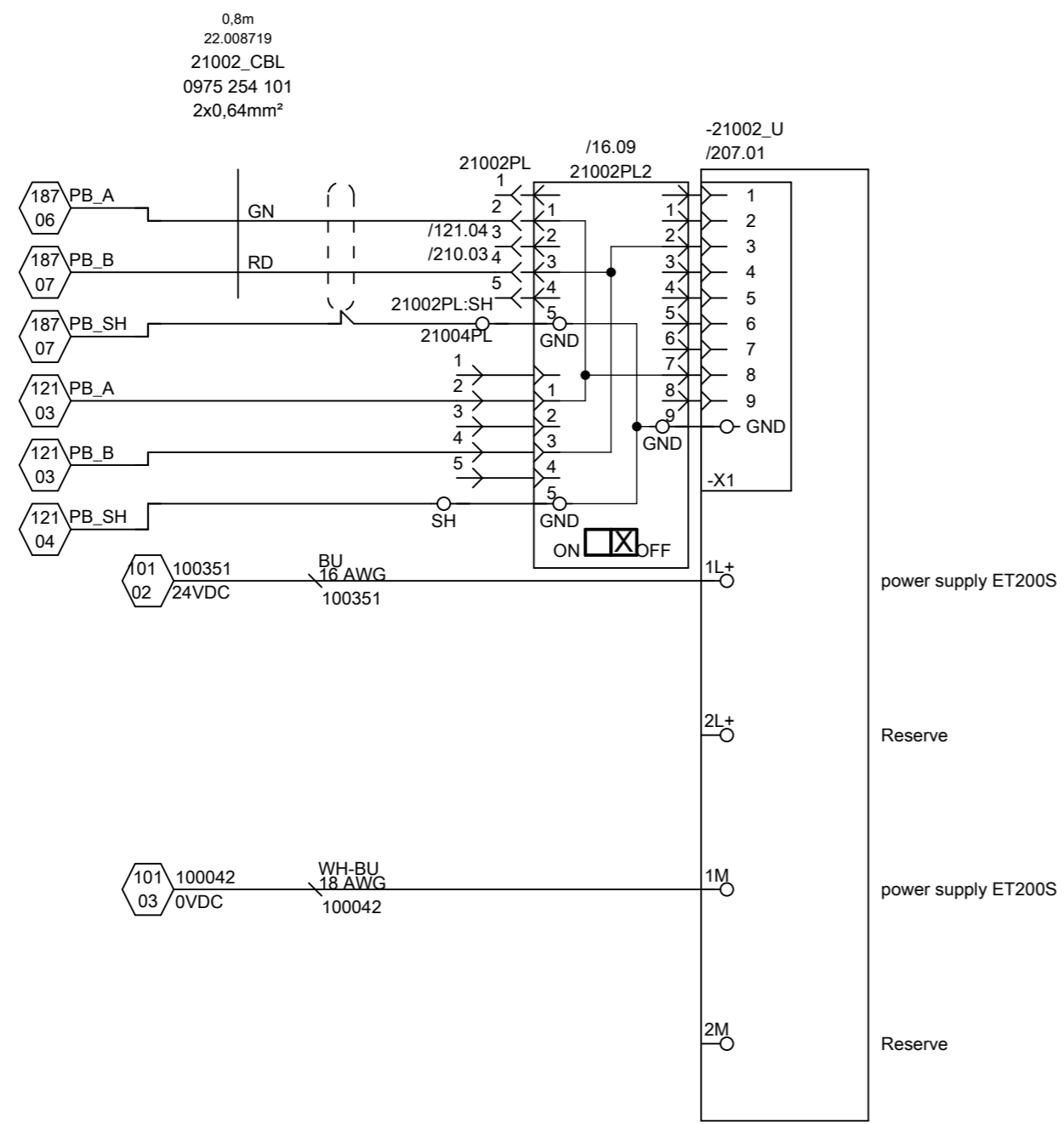
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Overview of inputs/outputs control cabinet				Number of sheets 265 Sheet 209	
ePLAN P8 2.2.5		=54793		◀ 208	Sheet 210 ▶

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	09.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus interface				Inv.No.	
				Number of sheets 265 Sheet 210	
ePLAN P8 2.2.5		=54793		209 Sheet 211	

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Reserve
page 211-218
Profibus interface

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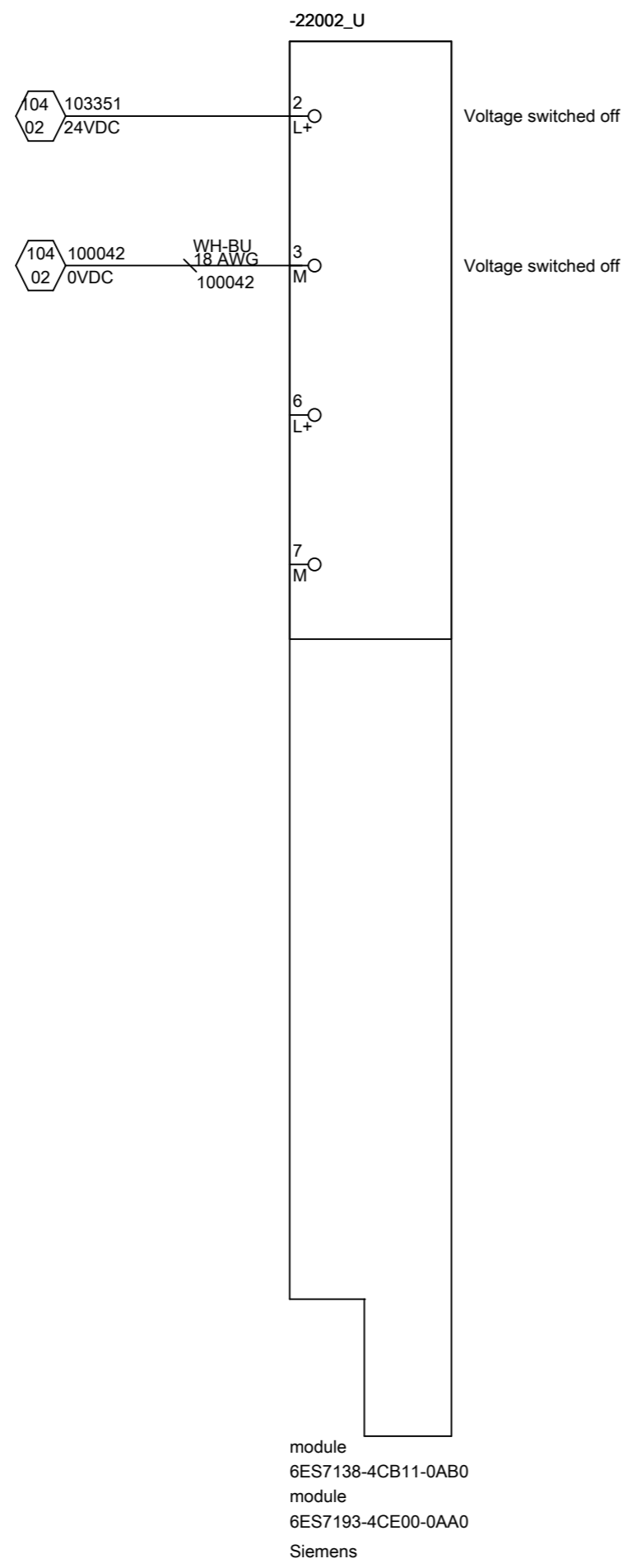
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 211-218 Profibus-Interface				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				210	Sheet
				219	211

Reserve
Power module 24V DC

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Powermodul 24V DC				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				211	219
				Sheet	220

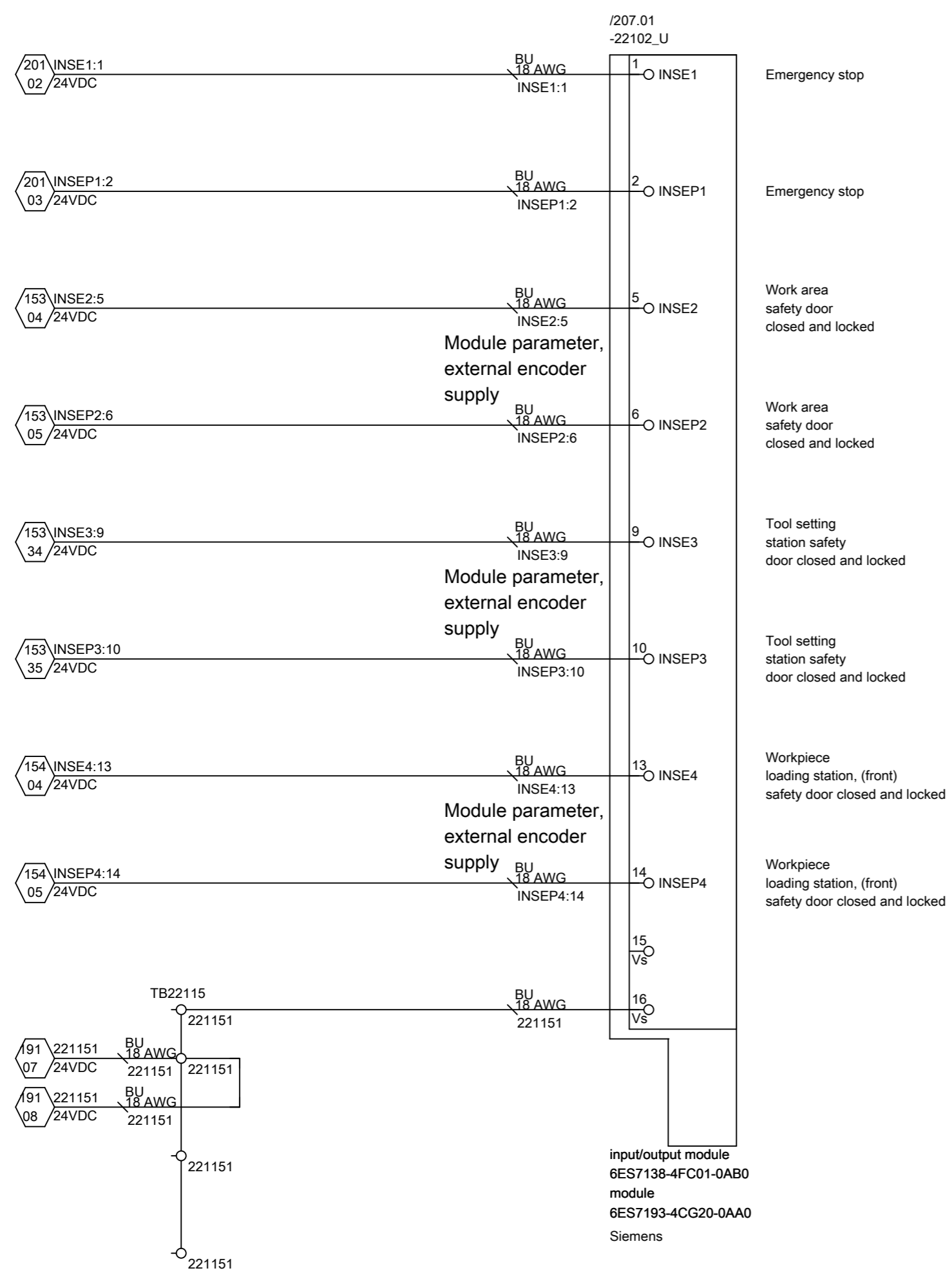
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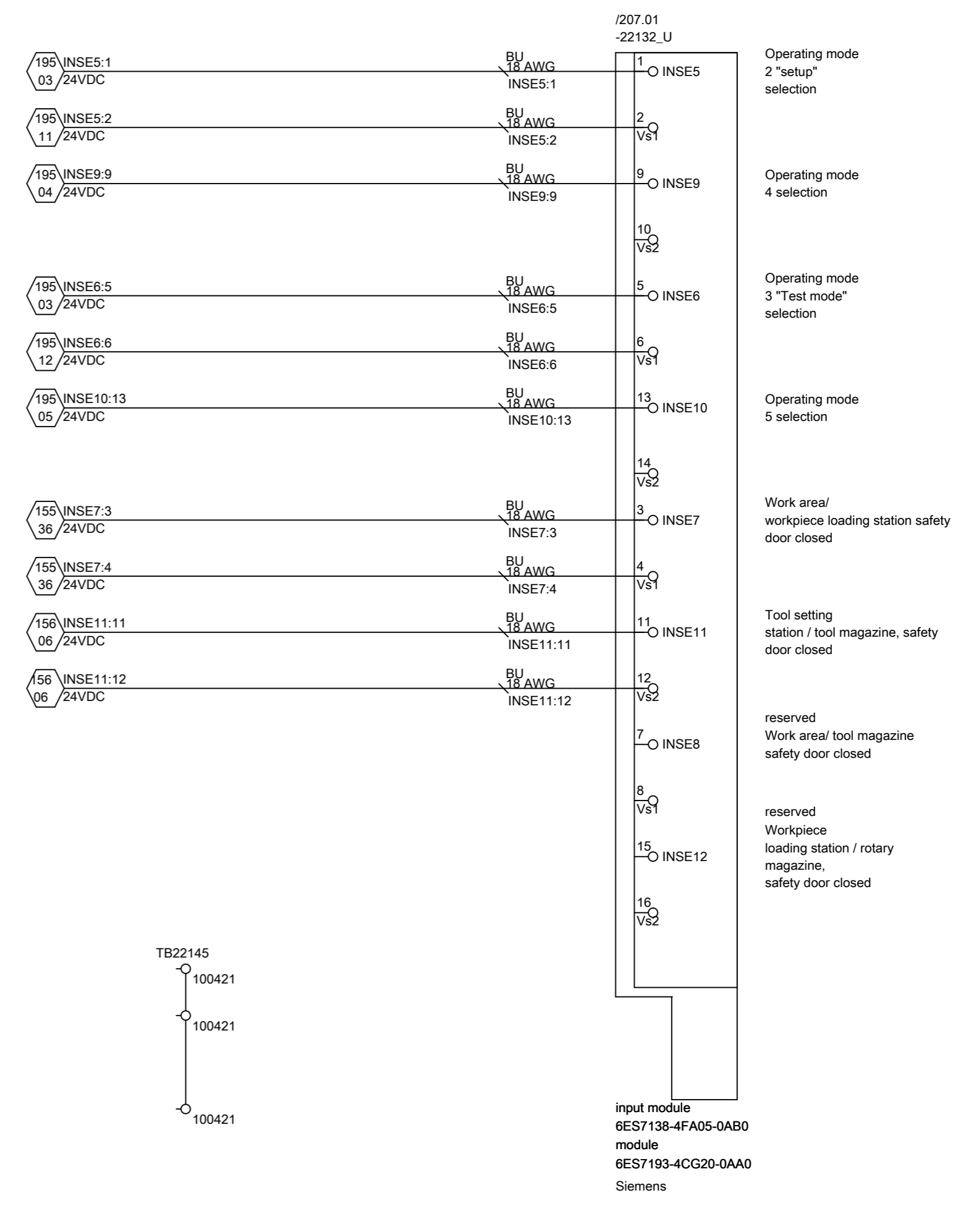
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Power module 24V DC				Inv.No.	
Number of sheets				265	Sheet
ePLAN P8 2.2.5				=54793	220
◀ 219				Sheet	221 ▶

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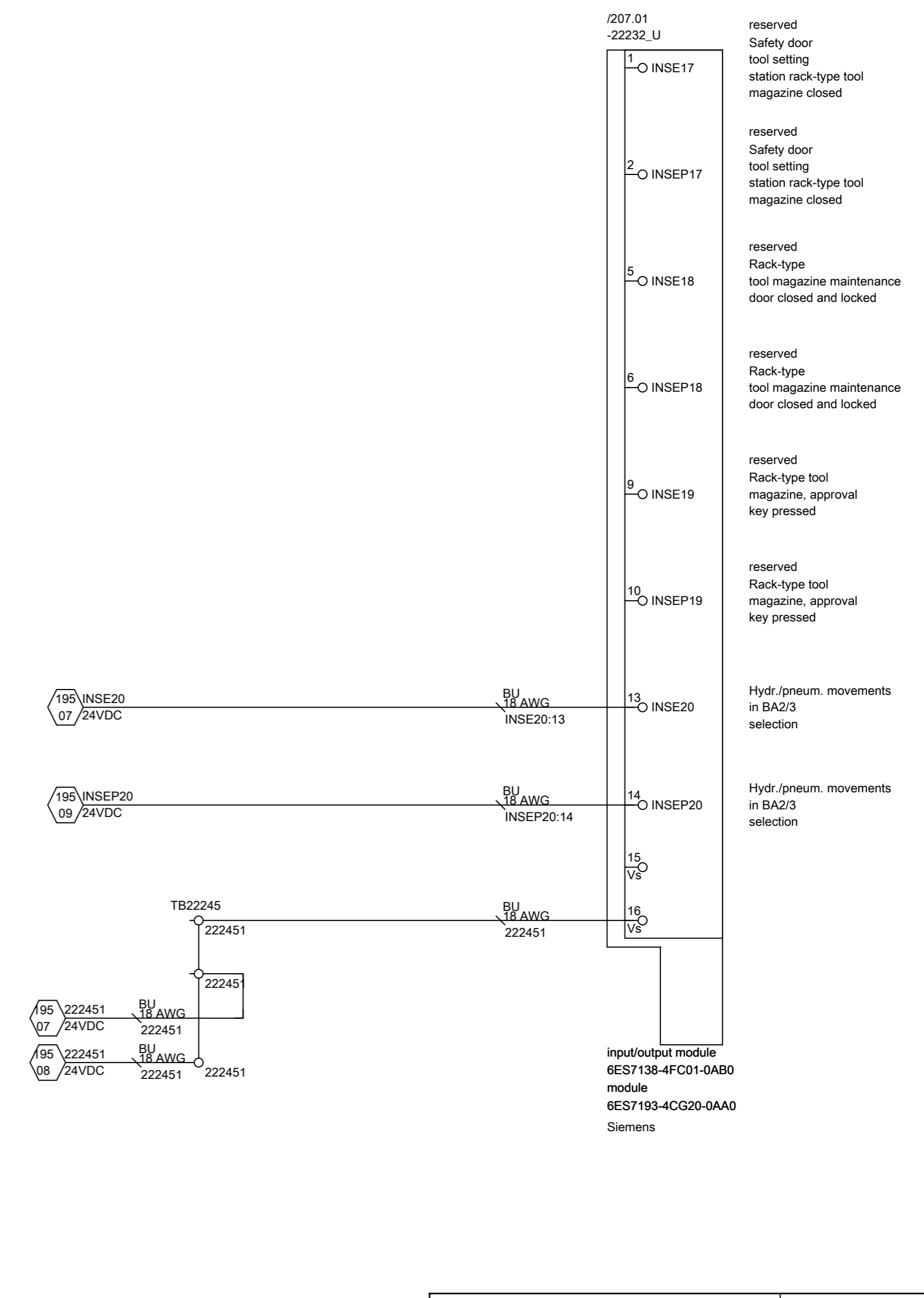
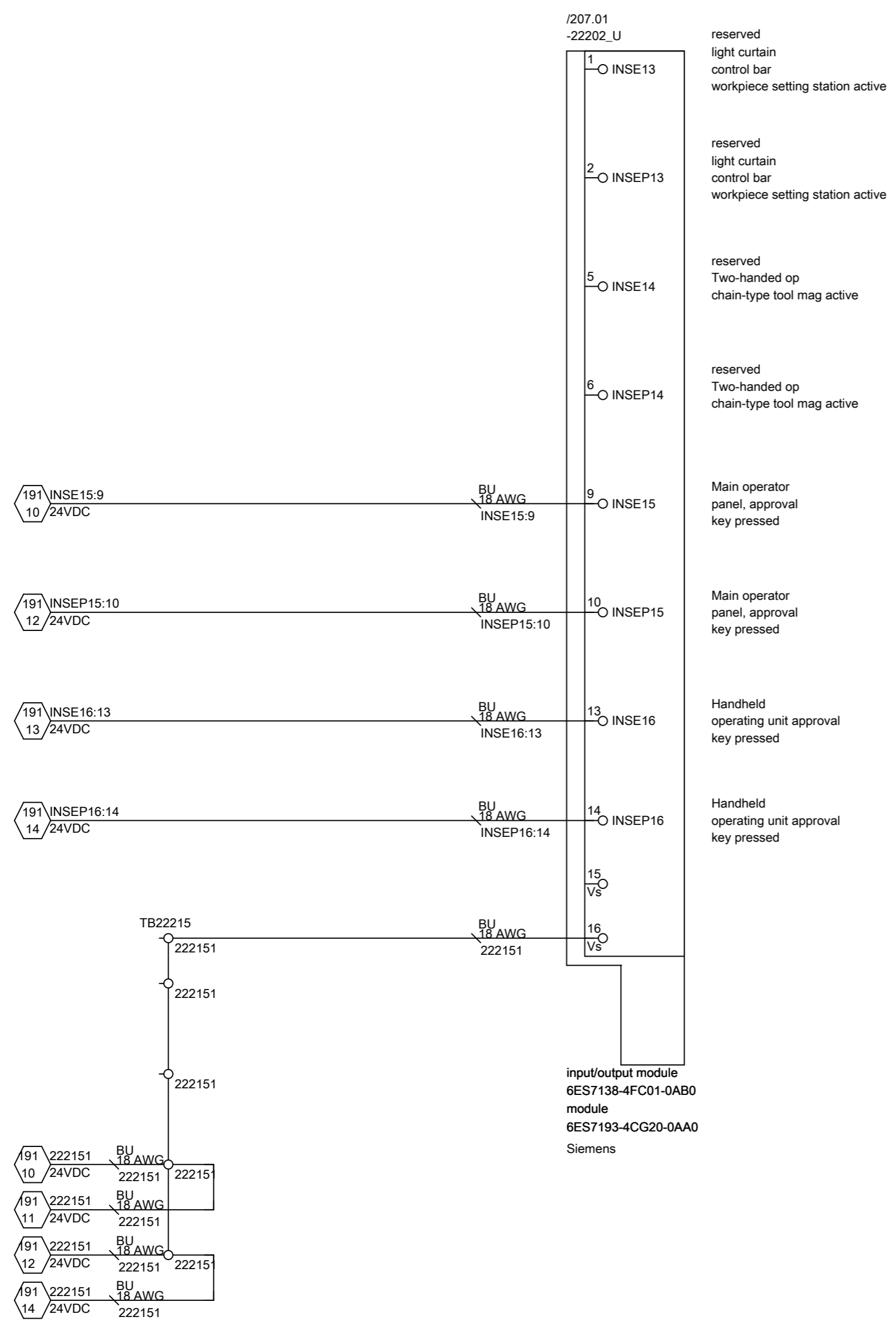
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
INSE1 - INSE4 INSE5 - INSE12				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 221	
=54793				220 Sheet 222	

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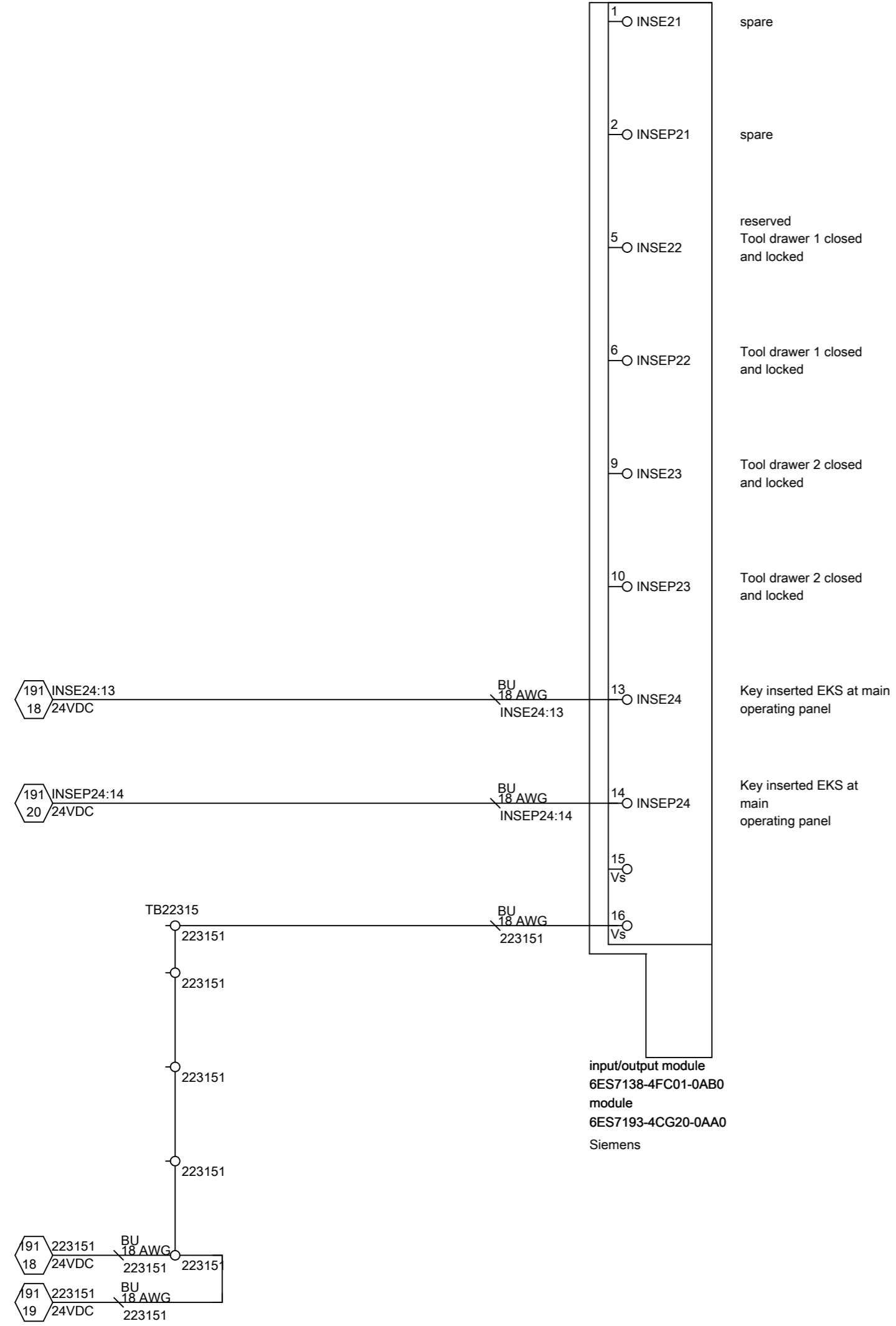


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
INSE13 - INSE16 INSE17 - INSE20				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 222	
=54793				221 Sheet 223	

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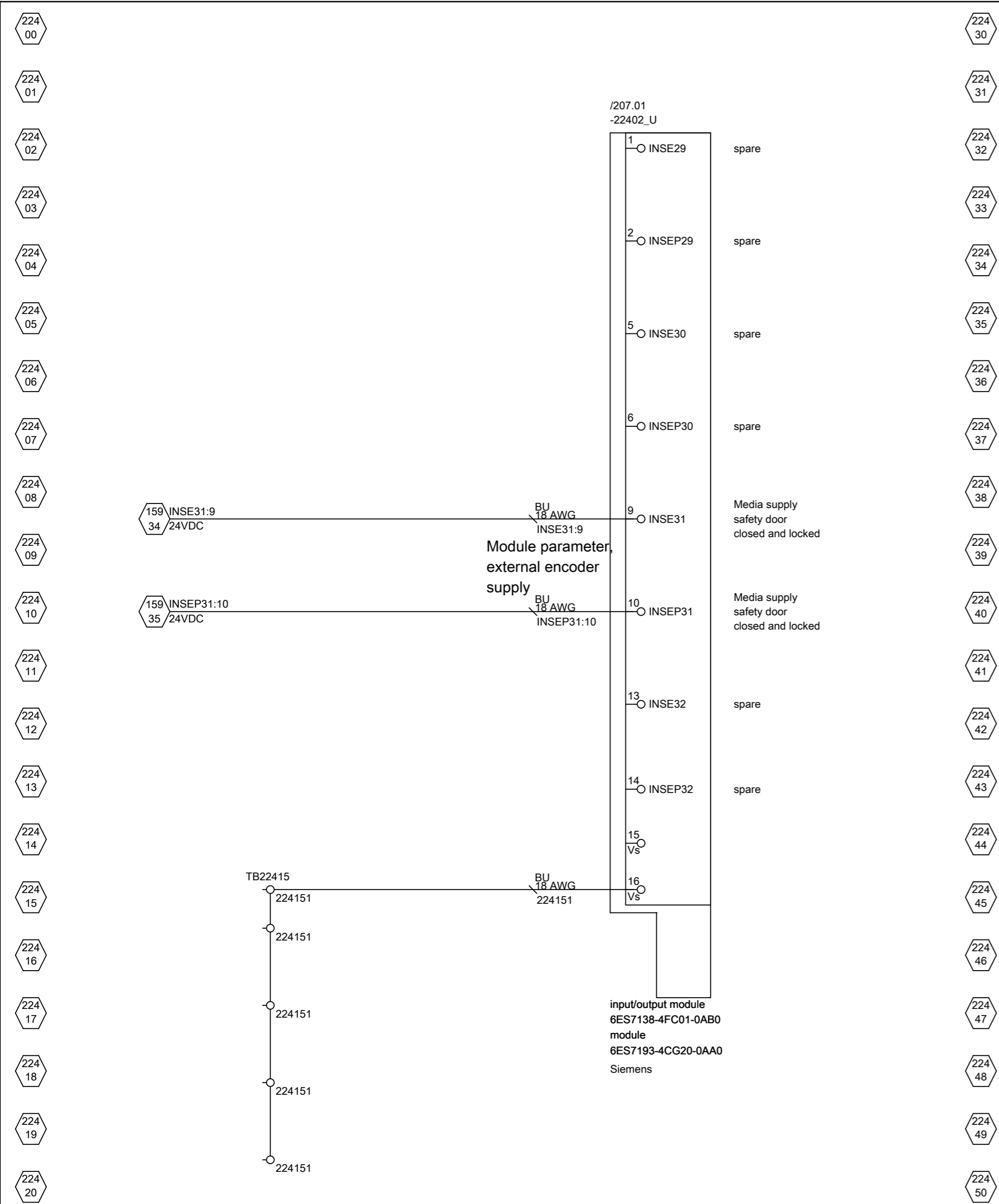
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- 1 - INSE21 spare
 - 2 - INSEP21 spare
 - 5 - INSE22 reserved
Tool drawer 1 closed and locked
 - 6 - INSEP22 Tool drawer 1 closed and locked
 - 9 - INSE23 Tool drawer 2 closed and locked
 - 10 - INSEP23 Tool drawer 2 closed and locked
 - 13 - INSE24 Key inserted EKS at main operating panel
 - 14 - INSEP24 Key inserted EKS at main operating panel
 - 15 - Vs
 - 16 - Vs
- input/output module
6ES7138-4FC01-0AB0
module
6ES7193-4CG20-0AA0
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
INSE21 - INSE24 INSE25 - INSE28				Inv.No.		
Number of sheets				265	Sheet	223
ePLAN P8 2.2.5		=54793		222	Sheet	224



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
INSE29 - INSE32				Inv.No.		
Number of sheets				265	Sheet	224
ePLAN P8 2.2.5		=54793		223	Sheet	225

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Reserve
page 225-230

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC			
DRAWN	12.08.2015	AHP3/RIG				
Reserve page 225-230				Inv.No.		
				Number of sheets		
ePLAN P8 2.2.5				=54793	265	Sheet 225
				224	Sheet	226

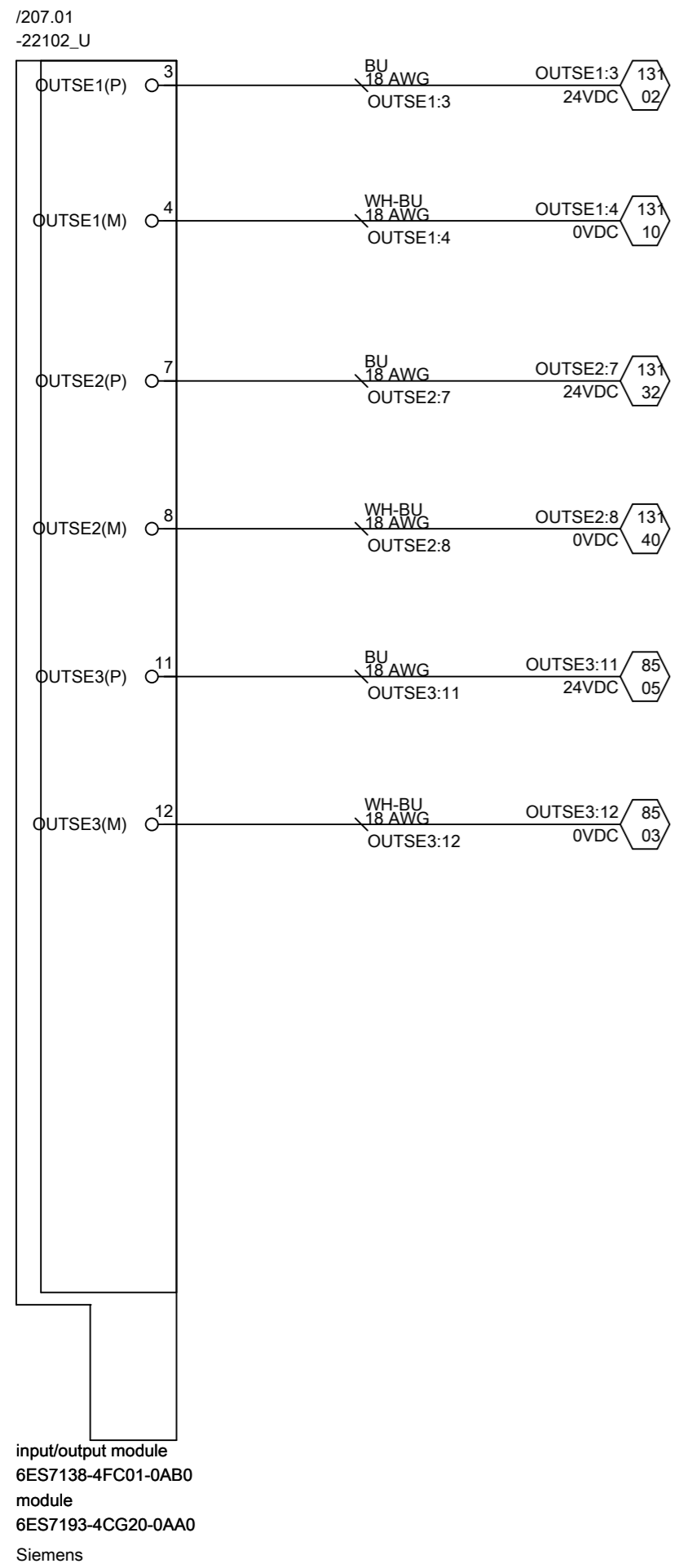
Reserve
page 225-230

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	04.09.2015	AHP3/GMI		Inv.No.			
Reserve page 225-230				Number of sheets			
ePLAN P8 2.2.5				=54793	265	Sheet	226
				225	Sheet	231	

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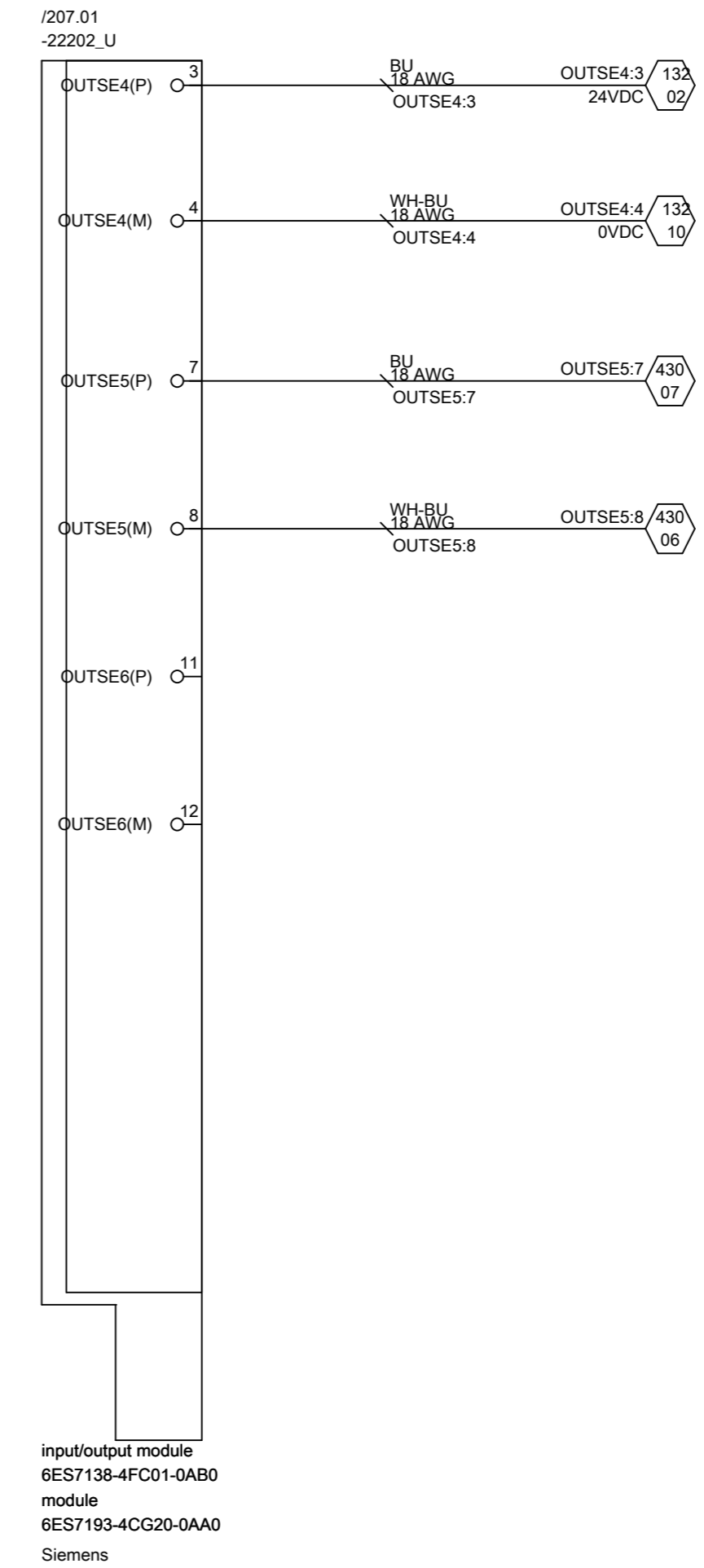
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work condition emergency stop
work condition emergency stop
work condition work area
work condition work area
Unclamp tool in spindle
Unclamp tool in spindle

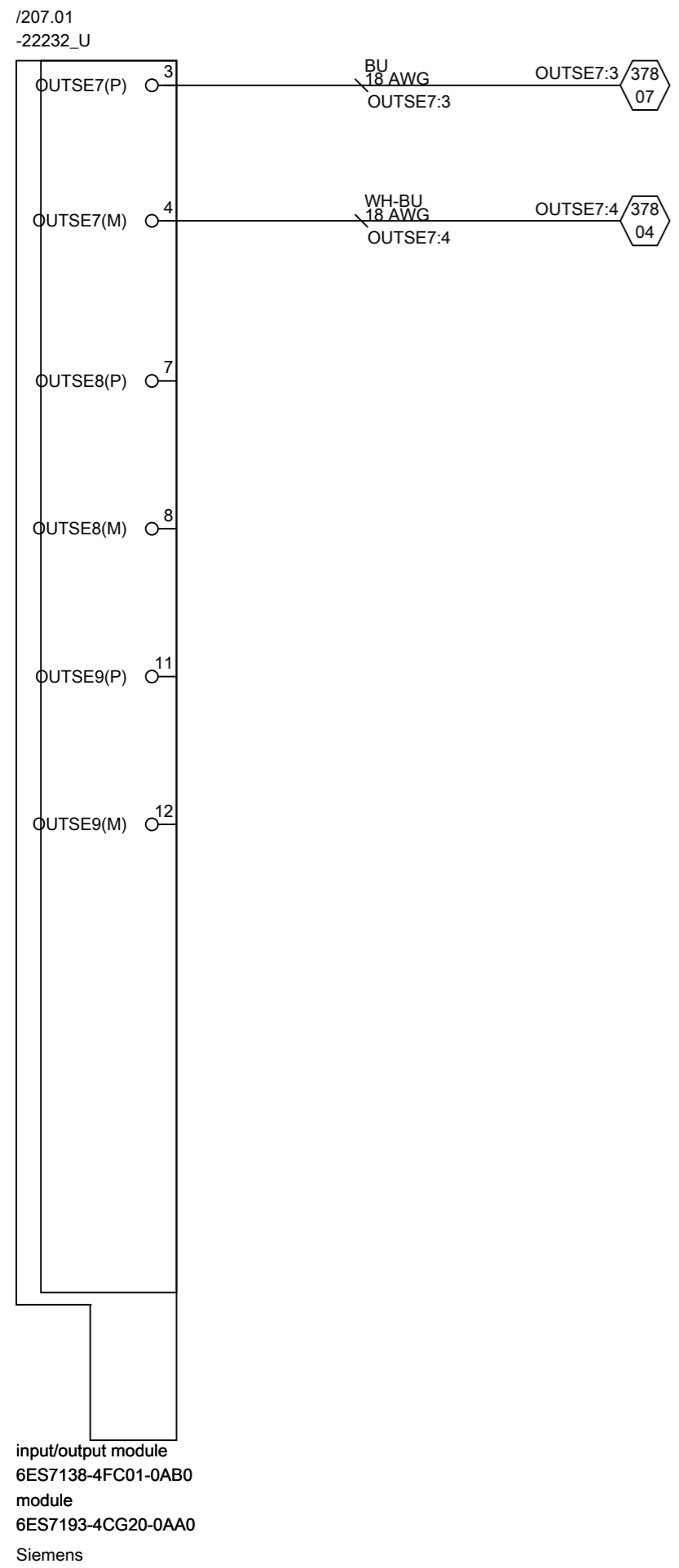
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work condition pallet changer
work condition pallet changer
work condition workpiece setting station
work condition workpiece setting station
reserved work condition workpiece loading station safety door
reserved work condition workpiece loading station safety door

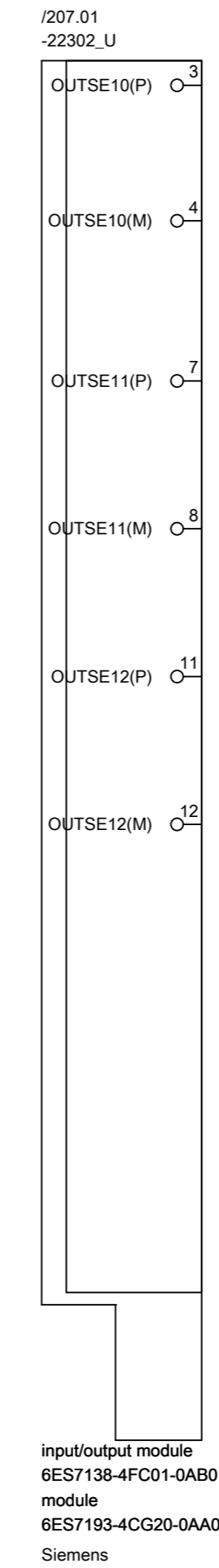
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock					
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC						
DRAWN	26.05.2015	AHP3/GMI							
OUTSE1 - OUTSE3 OUTSE4 - OUTSE6				Inv.No.					
ePLAN P8 2.2.5				=54793	Number of sheets		265	Sheet	231
				226		Sheet		232	

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work condition tool setting station
work condition tool setting station
reserved work condition rack-type tool magazine
reserved work condition rack-type tool magazine
reserved work condition hydraulic workpiece clamping
reserved work condition hydraulic workpiece clamping

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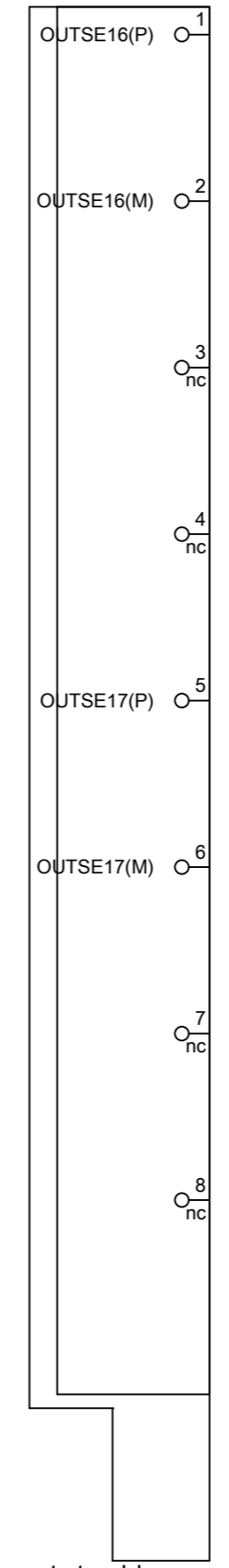


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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
OUTSE7 - OUTSE9 OUTSE10 - OUTSE12				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 232
				231	Sheet	233

Reserve
OUTSE 13 - OUTSE15

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output module
6ES7138-4FB03-0AB0
module
6ES7193-4CG20-0AA0

reserved
work condition unclamp pallet
in work area

reserved
work condition unclamp pallet
in work area

spare

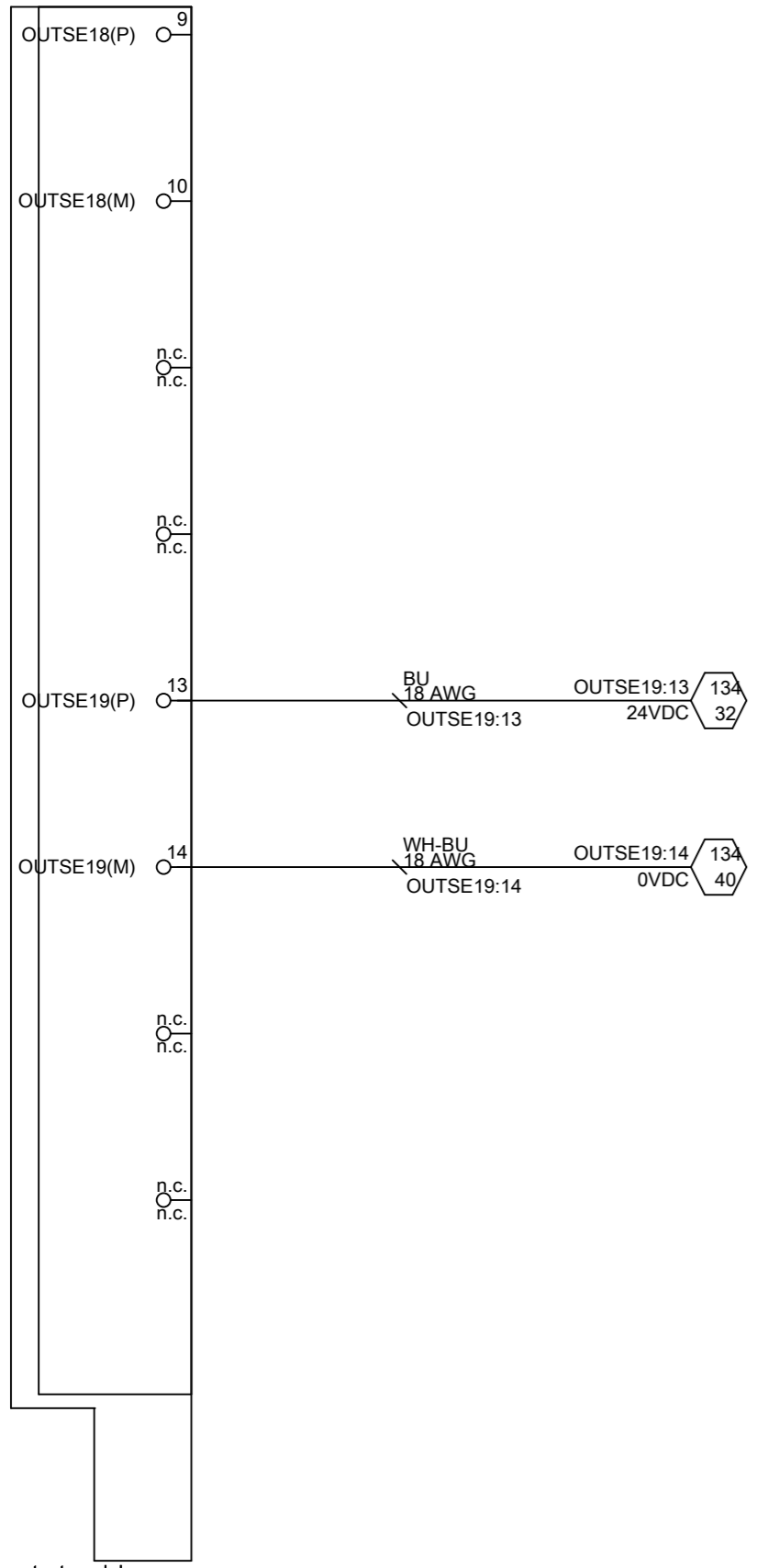
spare

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
OUTSE13 - OUTSE15 OUTSE16 - OUTSE17				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				232	234

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-23332_U



reserved
work condition clamp rotary
table torque

reserved
work condition clamp rotary
table torque

work condition release
additional brake Y-axis

work condition release
additional brake Y-axis

Reserve OUTSE20 - OUTSE22

output module
6ES7138-4FB03-0AB0
module
6ES7193-4CG20-0AA0

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
OUTSE18 - OUTSE19				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 234	
=54793				◀ 233 Sheet 235 ▶	

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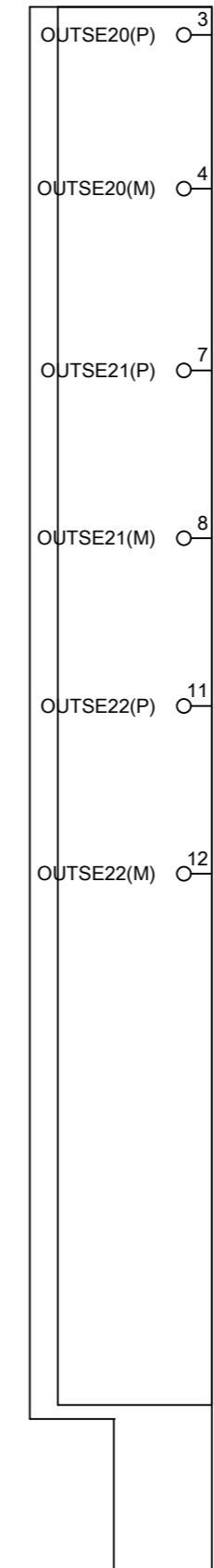
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input/output module
6ES7138-4FC01-0AB0
module
6ES7193-4CG20-0AA0
Siemens

spare

spare

spare

spare

spare

spare

Reserve OUTSE23 - OUTSE25

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
OUTSE20 - OUTSE22				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54793				265	Sheet
				234	236

Reserve
page 236-240

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	12.08.2015	AHP3/RIG		Inv.No.	
Reserve page 236-240				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				Sheet	236
				235	241

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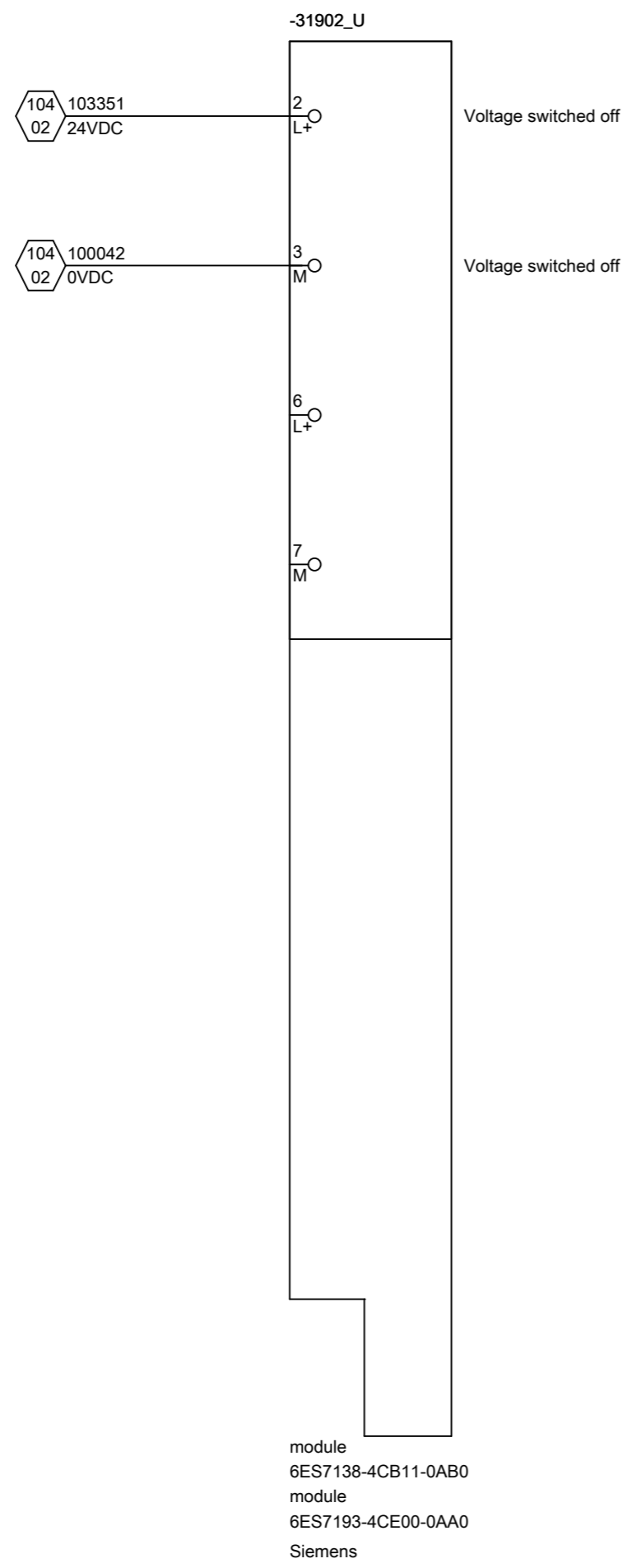
Reserve
page 241-318

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 241-318				Number of sheets	
ePLAN P8 2.2.5				265	Sheet 241
=54793				236	Sheet 319

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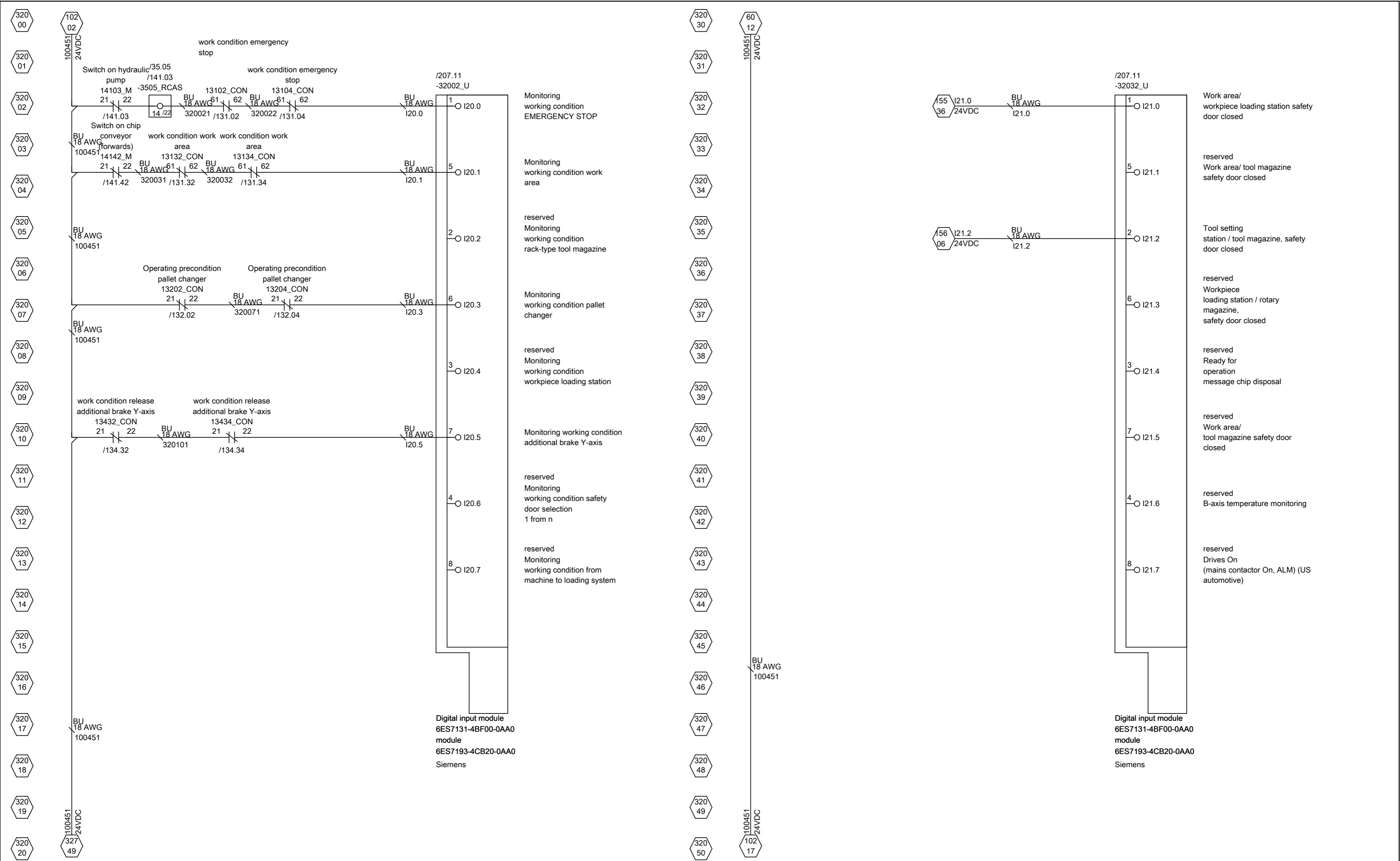
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	20.01.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Power module 24V DC				Number of sheets	
ePLAN P8 2.2.5				241	Sheet
=54793				265	Sheet
				319	320



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I20.0 - I20.7 I21.0 - I21.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 320	
=54793				319 Sheet 321	

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Reserve
I22.0 - I22.7

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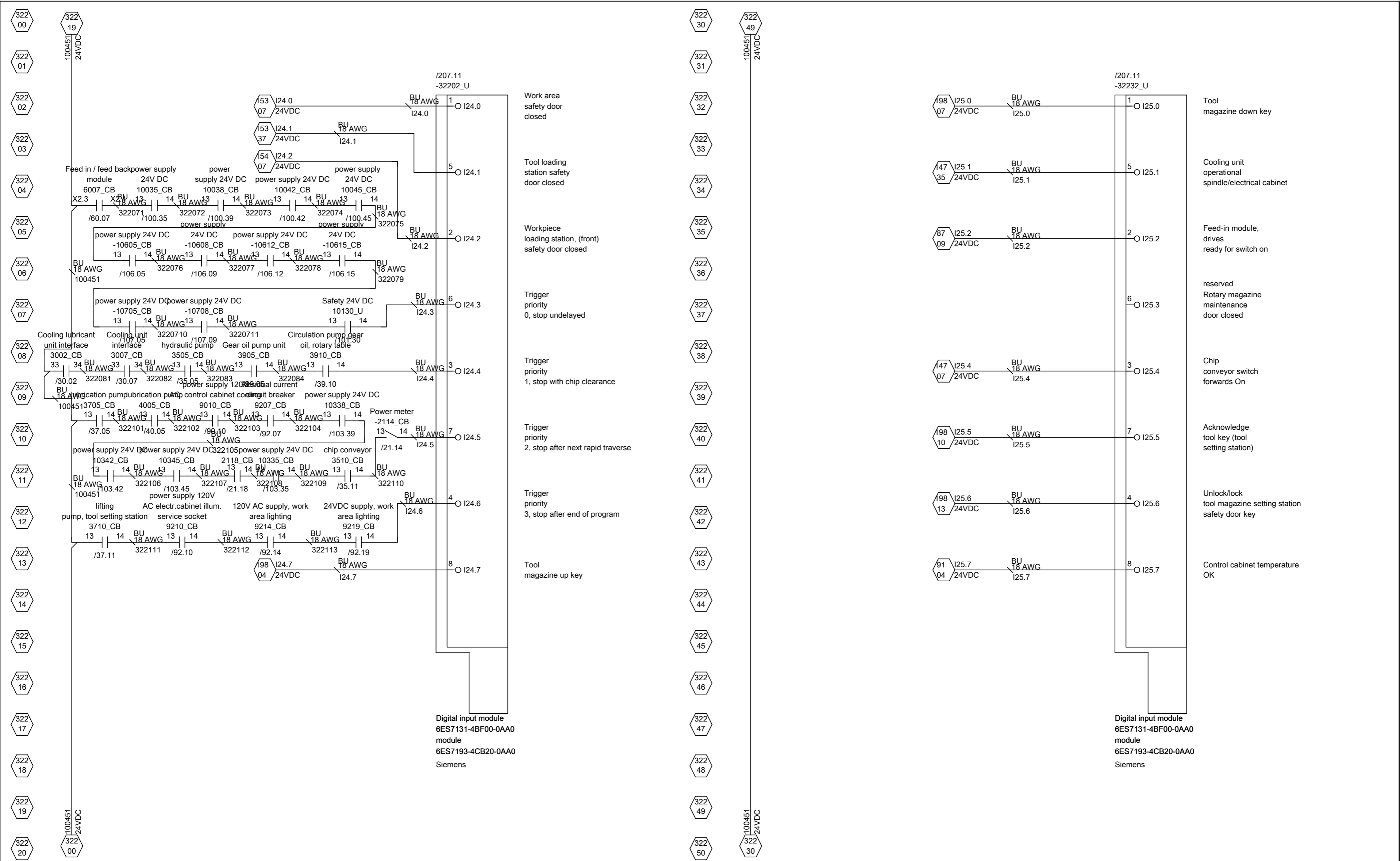
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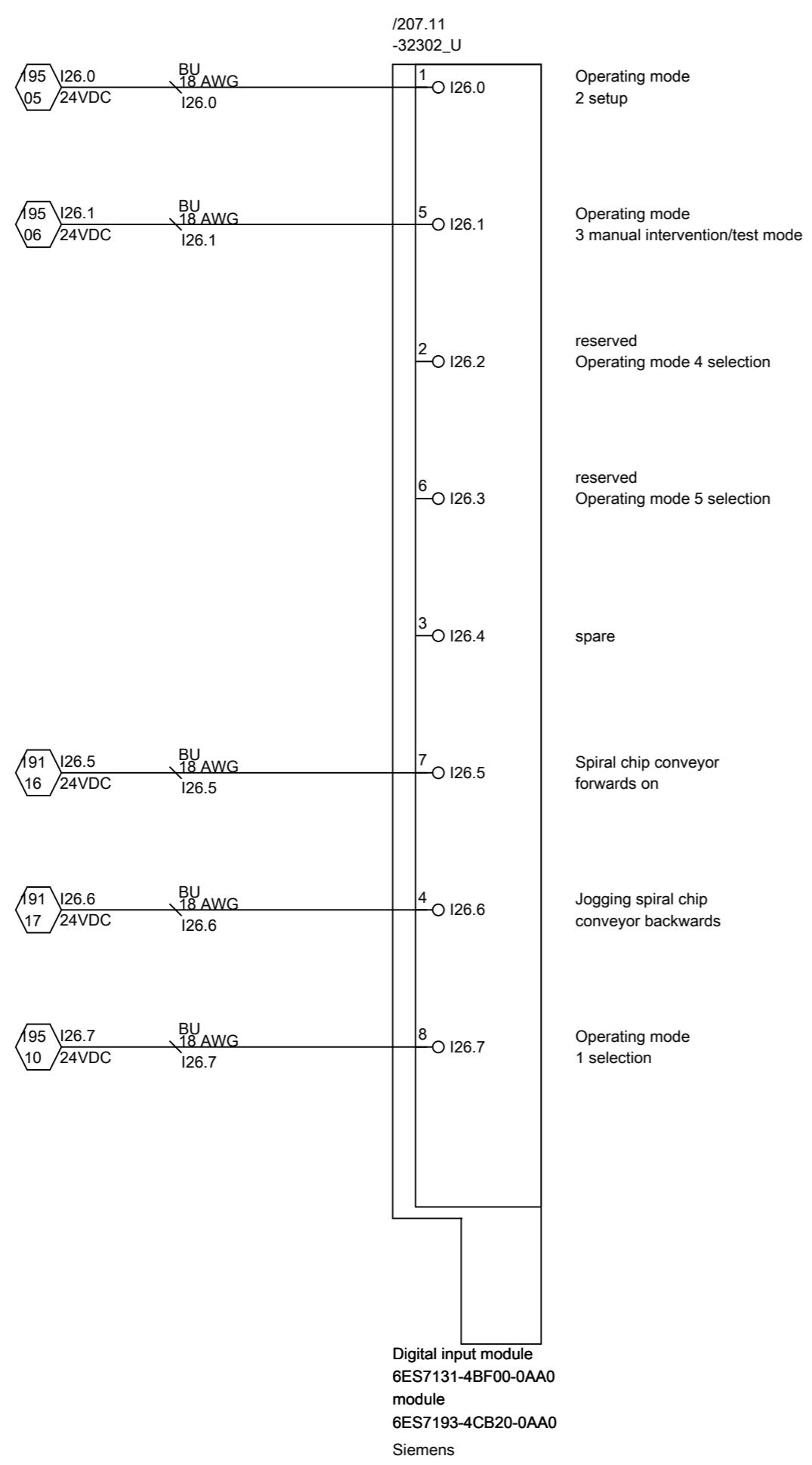
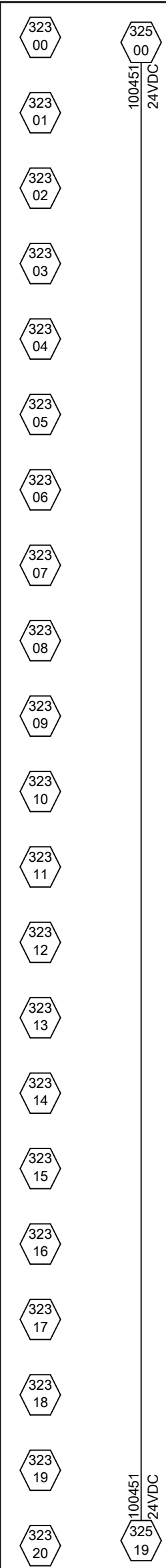
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Reserve
I23.0 - I23.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I22.0 - I22.7 I23.0 - I23.7				Number of sheets			
ePLAN P8 2.2.5				=54793	320	Sheet	321



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
I24.0 - I24.7 I25.0 - I25.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265 Sheet 322	
				321	Sheet	323



- 1 I26.0 Operating mode 2 setup
- 5 I26.1 Operating mode 3 manual intervention/test mode
- 2 I26.2 reserved Operating mode 4 selection
- 6 I26.3 reserved Operating mode 5 selection
- 3 I26.4 spare
- 7 I26.5 Spiral chip conveyor forwards on
- 4 I26.6 Jogging spiral chip conveyor backwards
- 8 I26.7 Operating mode 1 selection



Reserve
I27.0 - I27.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I26.0 - I26.7 I27.0 - I27.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 323	
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Reserve
I28.0 - I28.7

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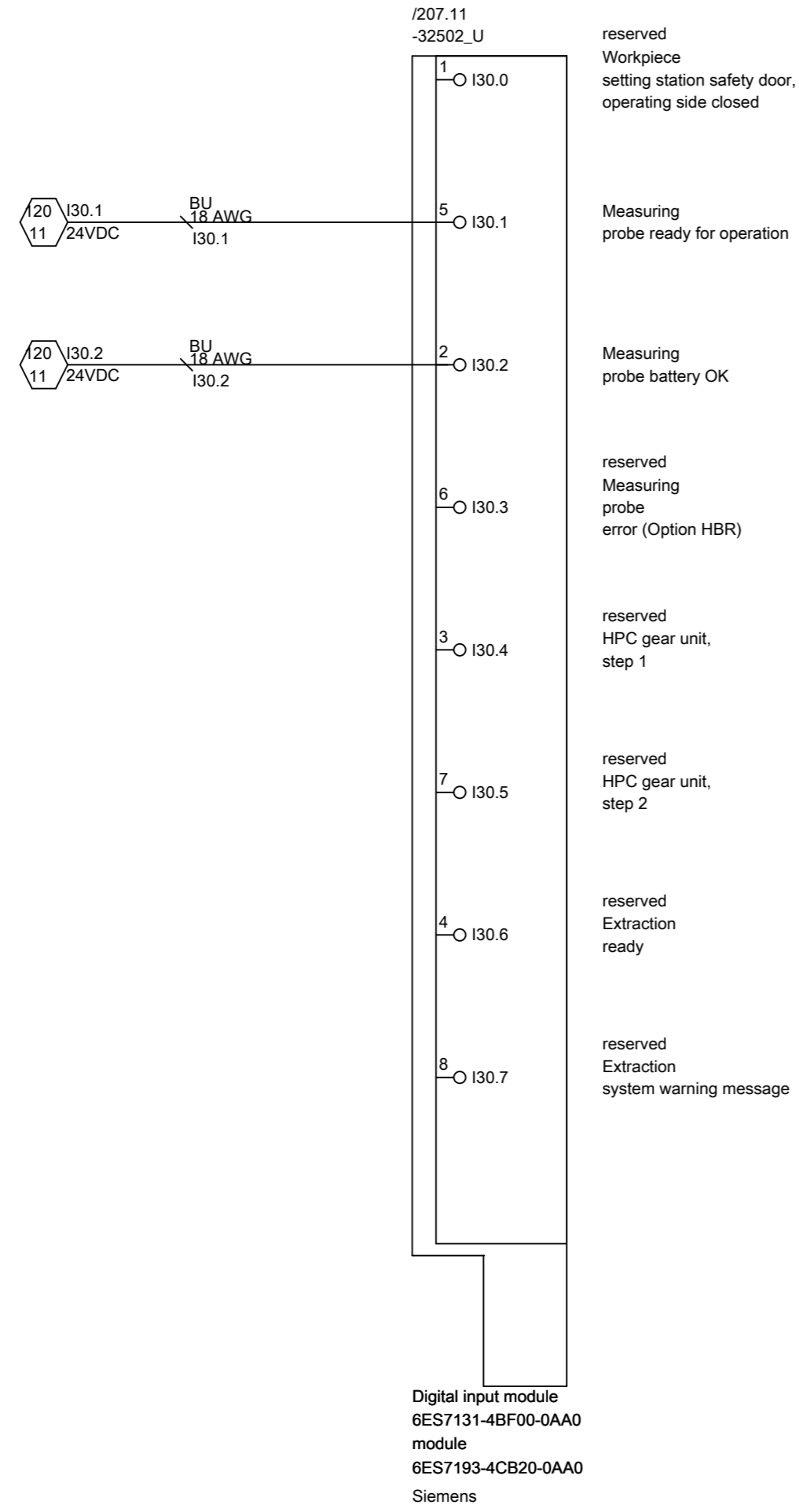
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Reserve
I29.0 - I29.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I28.0 - I28.7 I29.0 - I29.7				Number of sheets			
ePLAN P8 2.2.5				=54793	323	Sheet	325

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Digital input module
6ES7131-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

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Reserve
I31.0 - I31.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
I30.0 - I30.7 I31.0 - I31.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 325
				324	Sheet	326

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Reserve
I32.0 - I32.7

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Reserve
I33.0 - I33.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I32.0 - I32.7 I33.0 - I33.7				Inv.No.	
ePLAN P8 2.2.5				=54793	
				Number of sheets	265
				Sheet	326
				Sheet	327

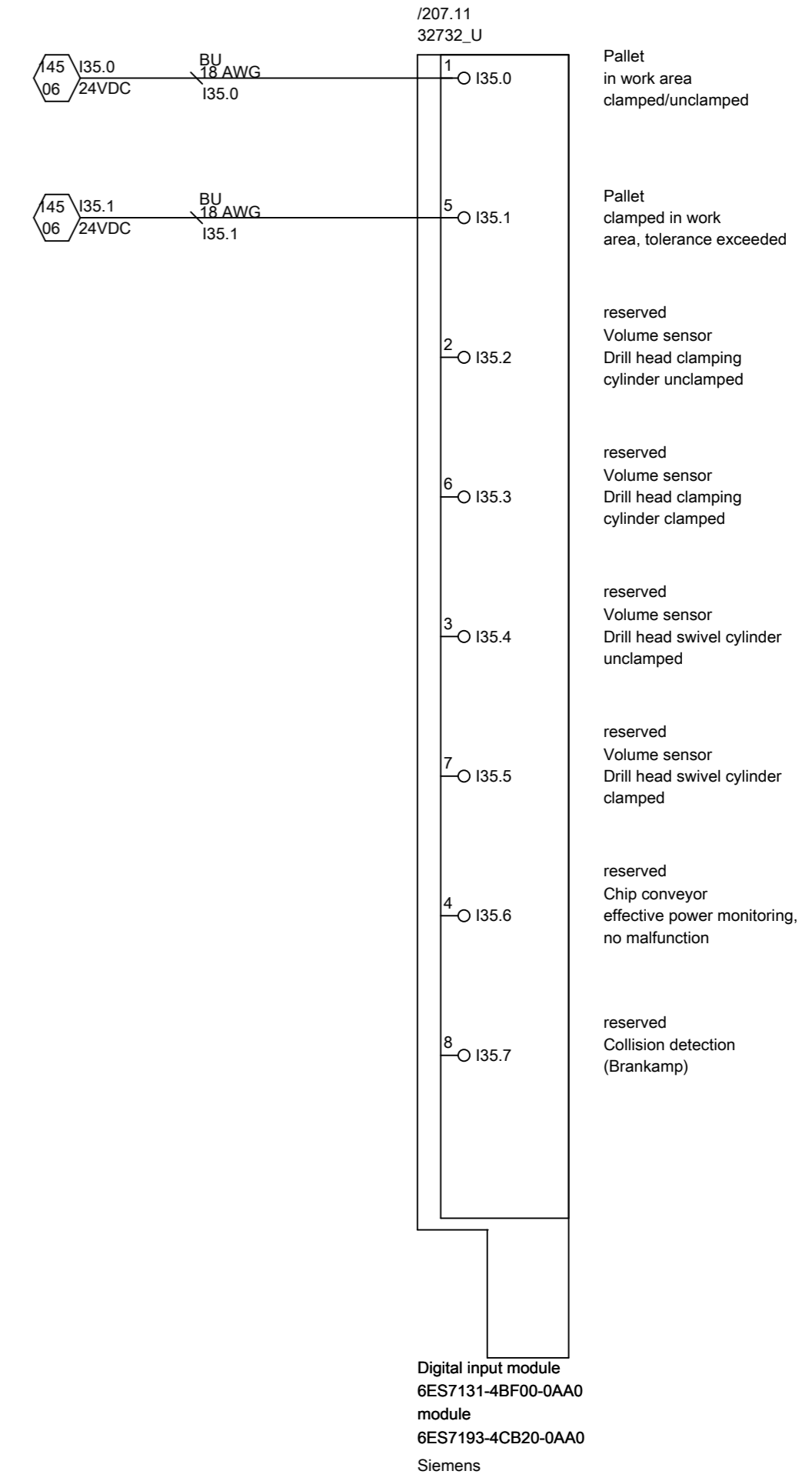
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Reserve
I34.0 - I34.7

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100451 24VDC

100451 24VDC

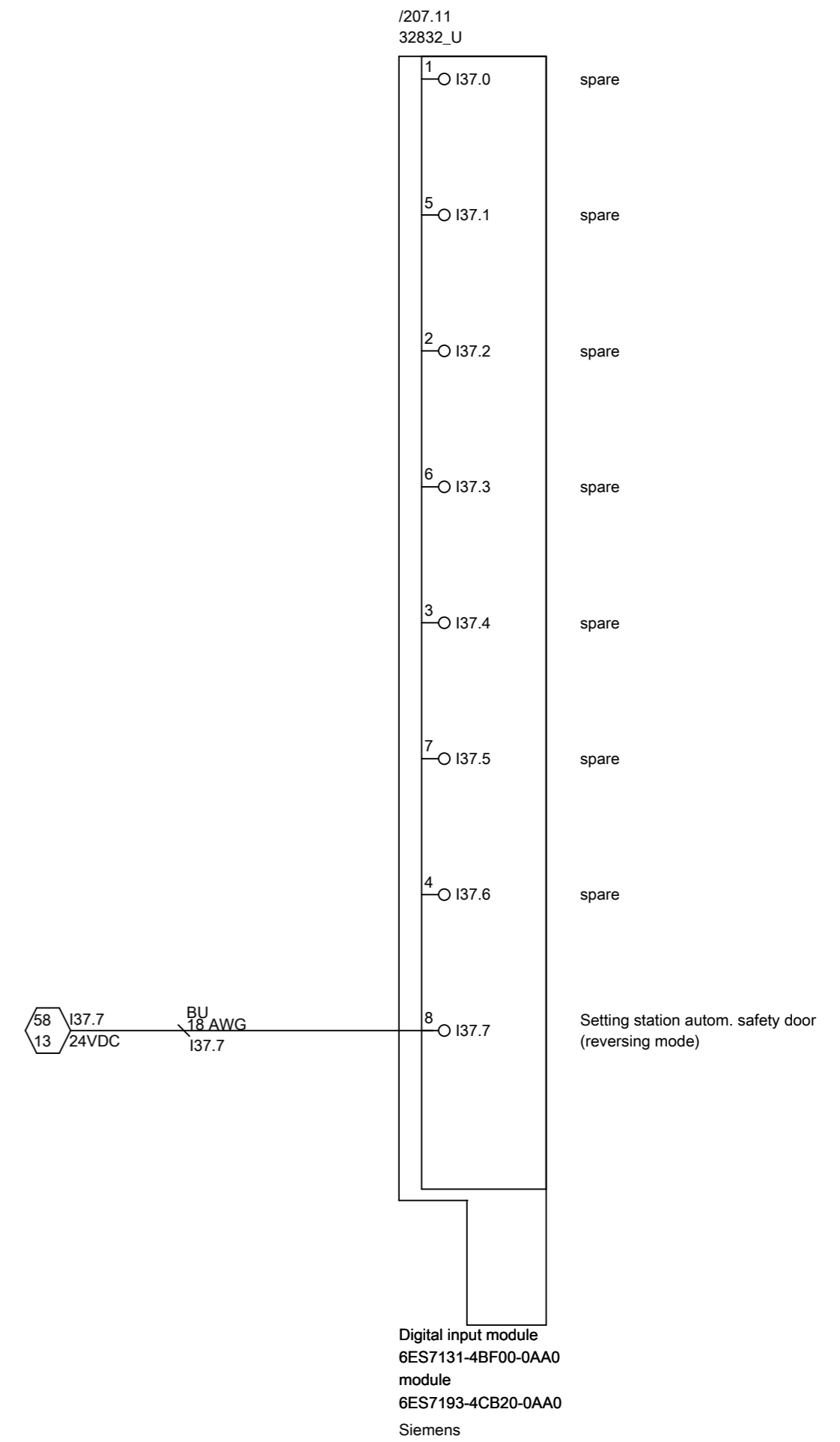


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve I34.0 - I34.7 I35.0 - I35.7				Inv.No.			
ePLAN P8 2.2.5				=54793		Number of sheets 265 Sheet 327	
				326		Sheet 328	

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Reserve
I36.0 - I36.7



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
I36.0 - I36.7 I37.0 - I37.7				Inv.No.			
ePLAN P8 2.2.5				=54793		Number of sheets 265	
				327		Sheet 328	

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Reserve
I38.0 - I38.7

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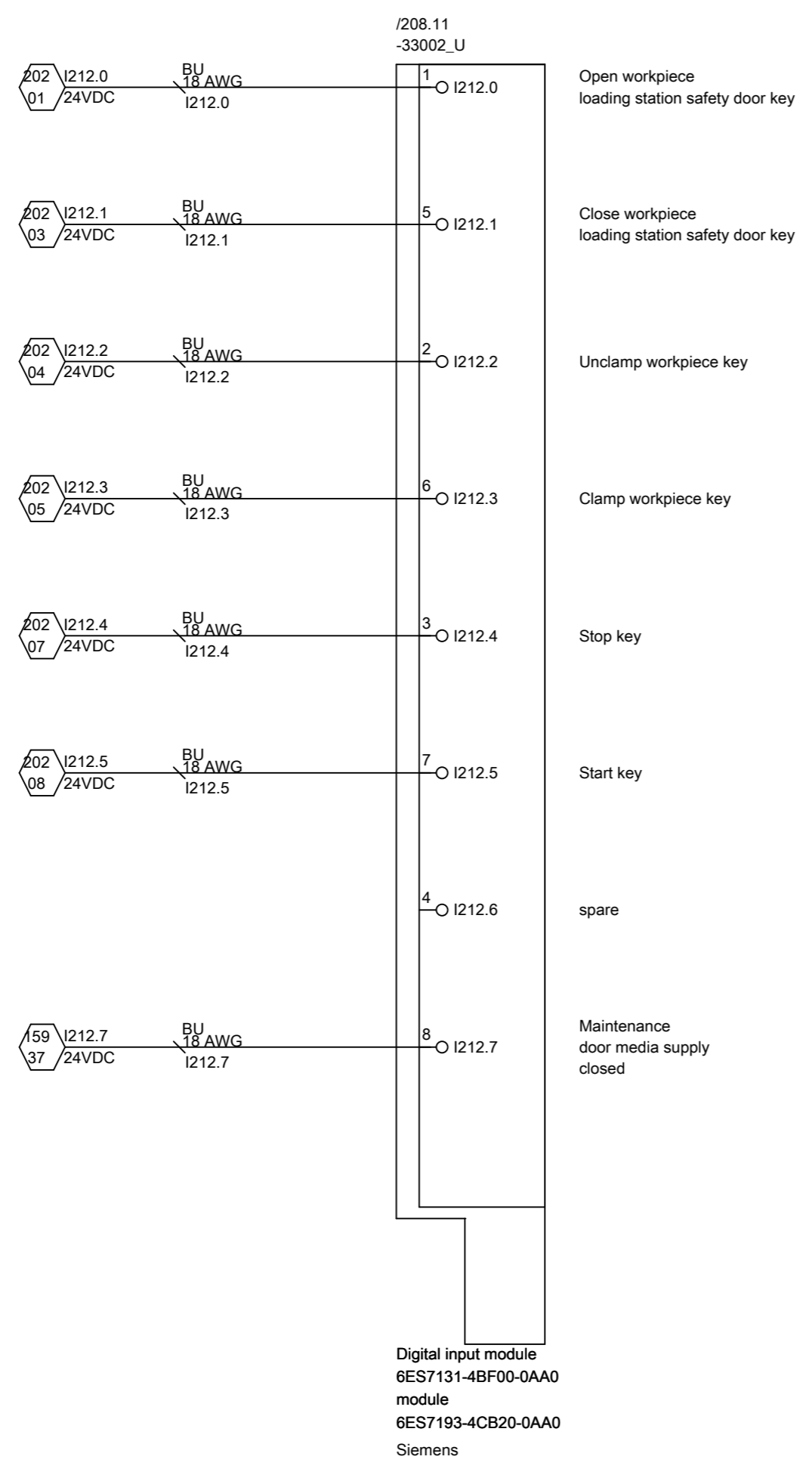
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Reserve
I39.0 - I39.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
I38.0 - I38.7 Reserve I39.0 - I39.7				Number of sheets			
ePLAN P8 2.2.5				=54793	328	Sheet	330

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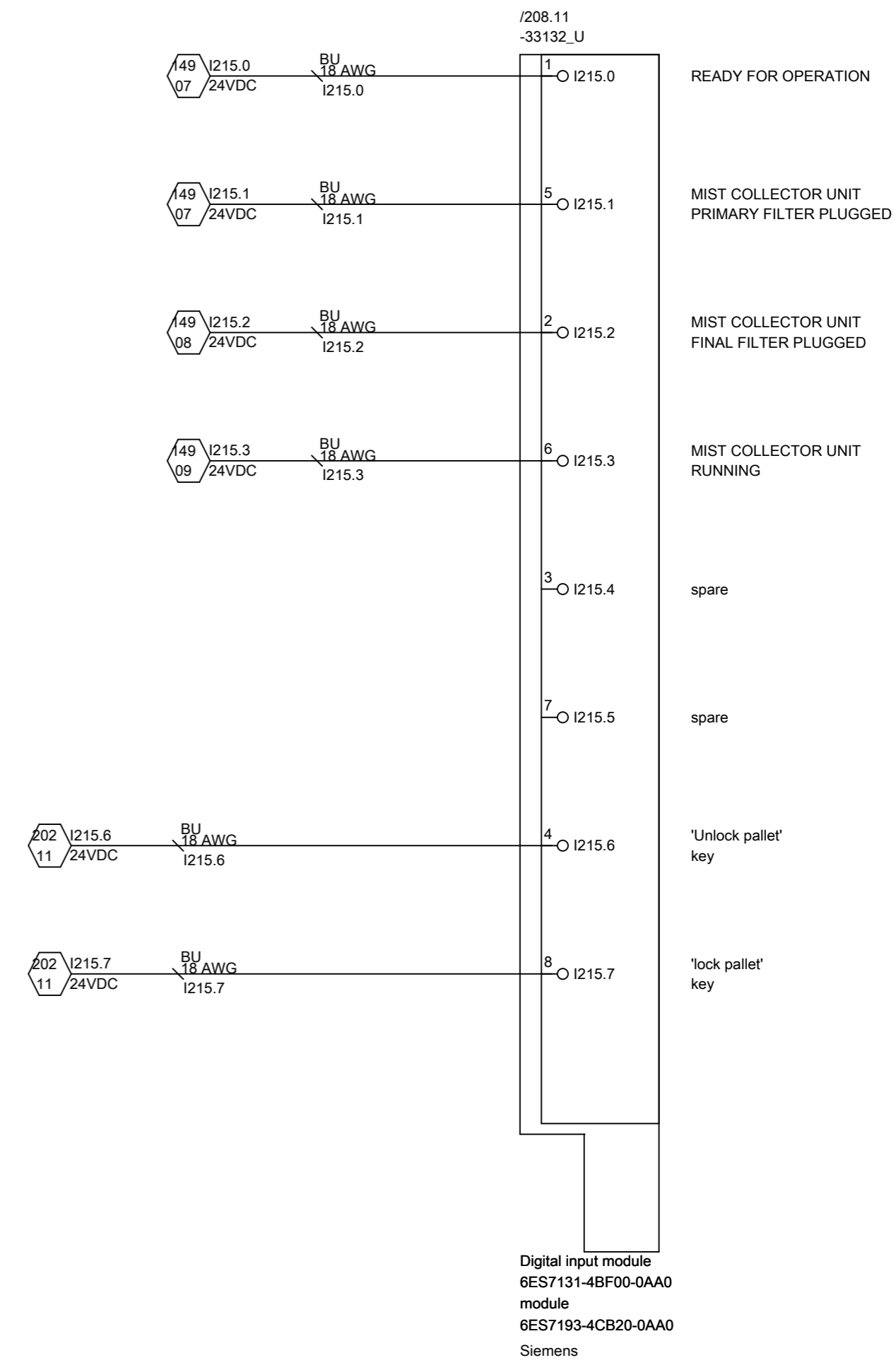
Reserve
I213.0 - I213.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I212.0 - I212.7 I213.0 - I213.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 330	
=54793				329 Sheet 331	

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Reserve
I214.0 - I214.7



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve I214.0 - I214.7 I215.0 - I215.7				Inv.No.			
ePLAN P8 2.2.5				=54793		Number of sheets 265 Sheet 331	
				330		Sheet 332	

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Reserve
I216.0 - I216.7

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Reserve
I217.0 - I217.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I216.0 - I216.7 Reserve I217.0 - I217.7				Number of sheets			
ePLAN P8 2.2.5				=54793	331	Sheet	333

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Reserve
I218.0 - I218.7

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Reserve
I219.0 - I219.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I218.0 - I218.7 I219.0 - I219.7				Number of sheets	
ePLAN P8 2.2.5				=54793	265
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Reserve
I220.0 - I220.7

Reserve
I221.0 - I221.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I220.0 - I220.7 I221.0 - I221.7				Number of sheets 265 Sheet 334	
ePLAN P8 2.2.5		=54793		◀ 333 Sheet 335 ▶	

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Reserve
page 335-336

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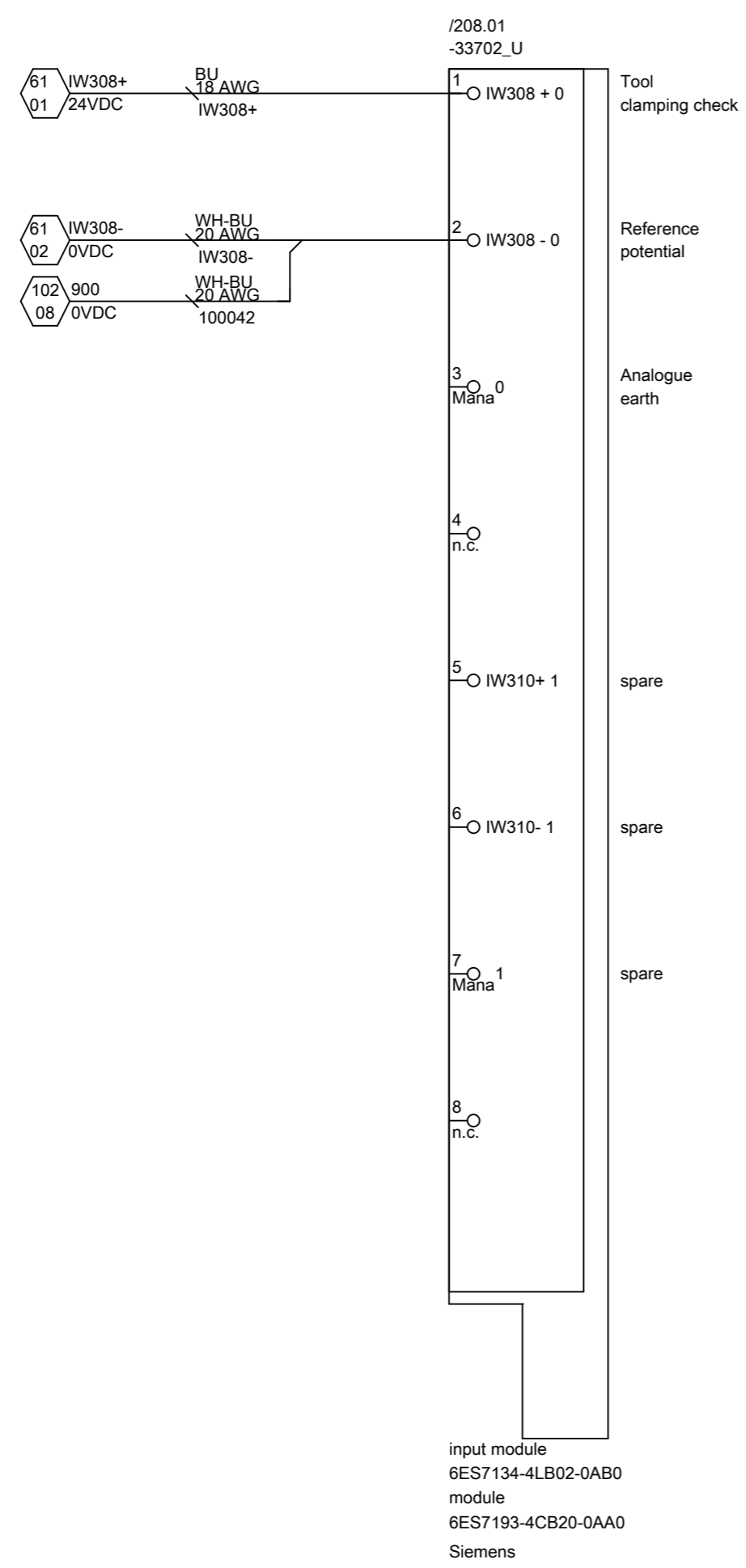
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Reserve
page 335-336

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 335-336				Number of sheets	
ePLAN P8 2.2.5				265	Sheet
=54793				334	337

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
IW308 - IW310 IW312 - IW314				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 337
				335	Sheet	338

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Reserve
IW372 - IW374

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Reserve
IW376 - IW378

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve IW372 - IW374 IW376 - IW378				Number of sheets 265 Sheet 338	
ePLAN P8 2.2.5		=54793		◀ 337 Sheet 339 ▶	

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Reserve
IW379 - IW381

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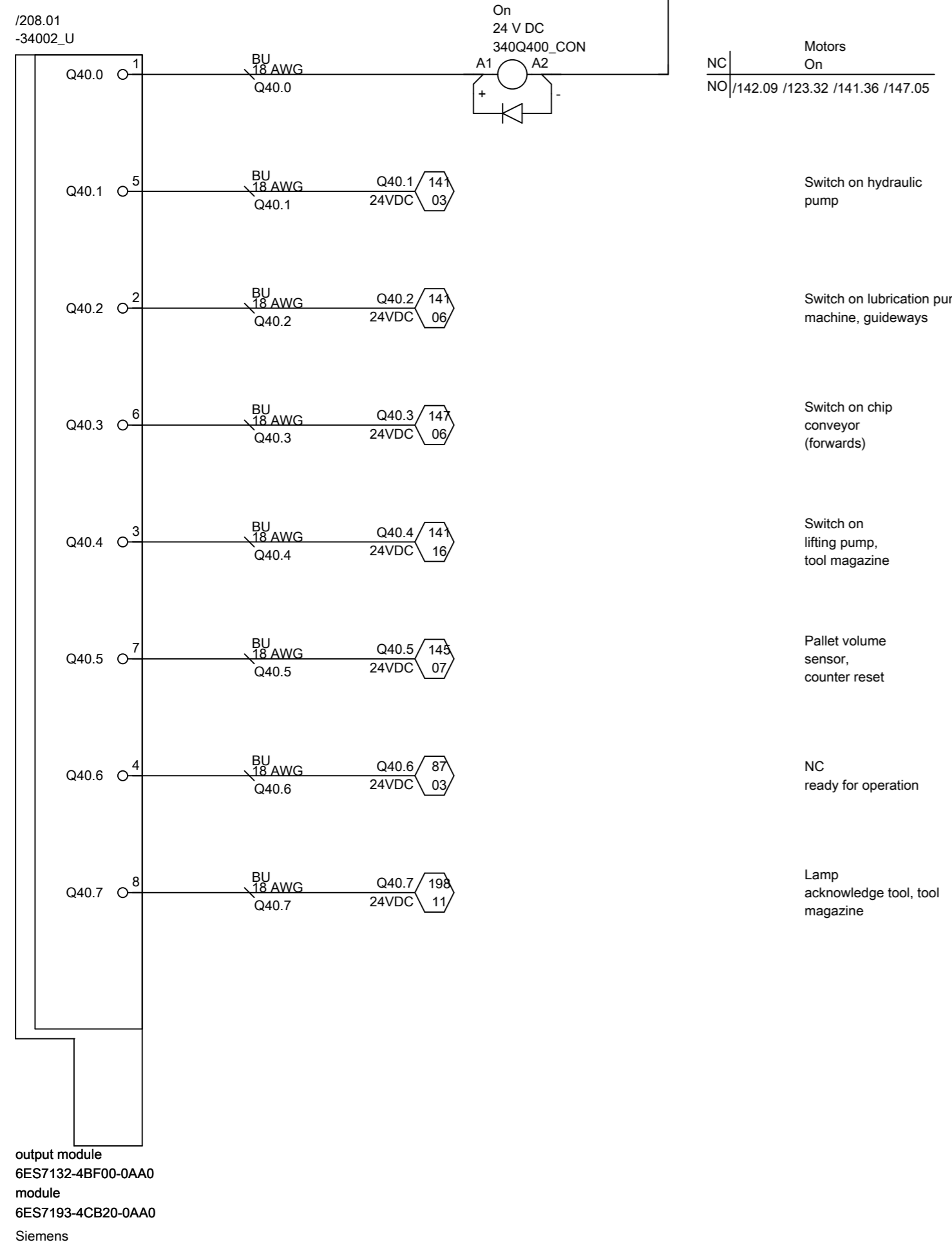
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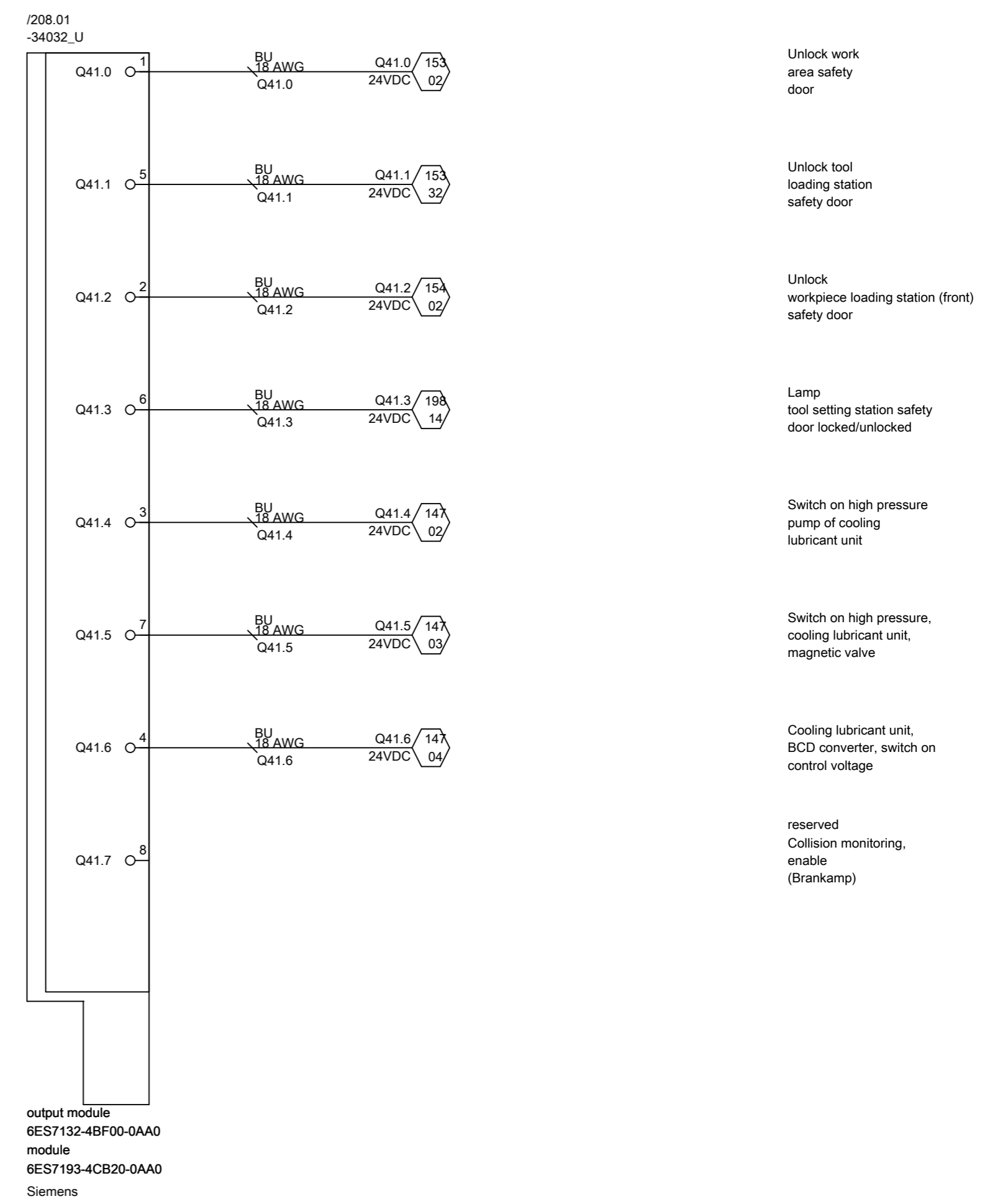
Reserve
IW382 - IW384

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve IW379 - IW381 IW382 - IW384				Number of sheets 265 Sheet 339	
ePLAN P8 2.2.5		=54793		338	Sheet 340

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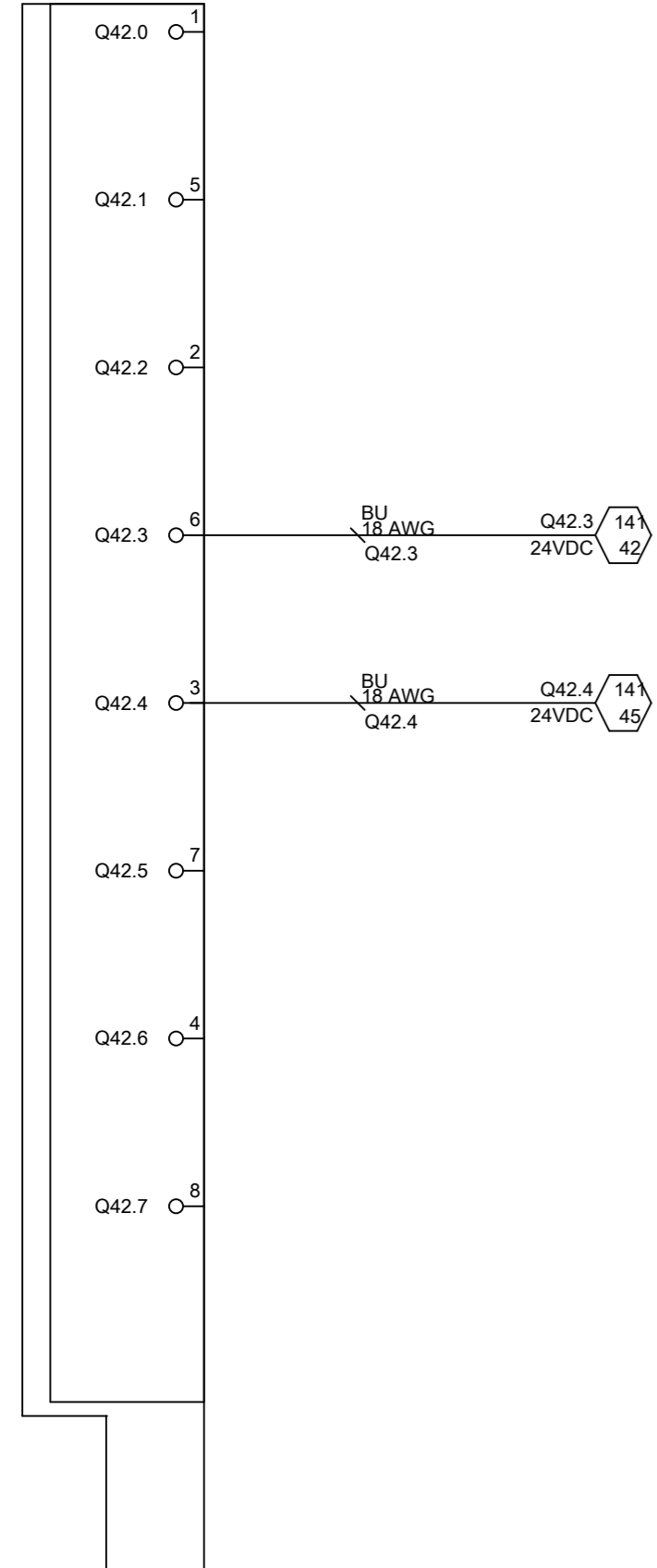
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q40.0 - Q40.7 Q41.0 - Q41.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 340
				339	Sheet	341

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/208.01
-34102_U



output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

reserved
Operating mode 4

reserved
Operating mode 5

reserved
Unlock
workpiece setting station safety
door, operating side

Switch on chip
conveyor
forwards

Switch on chip
conveyor
backwards

reserved
Shift HPC gear
unit
to step 1

reserved
Shift HPC gear
unit
to step 2

spare

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Reserve Q43.0 - Q43.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q42.0 - Q42.7 Reserve Q43.0 - Q43.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 341
				340	Sheet	342

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Reserve
Q44.0 - Q44.7

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Reserve
Q45.0 - Q45.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q44.0 - Q44.7 Q45.0 - Q45.7				Number of sheets			
ePLAN P8 2.2.5				=54793	341	Sheet	343

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Reserve
Q46.0 - Q46.7

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Reserve
Q47.0 - Q47.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q46.0 - Q46.7 Q47.0 - Q47.7				Number of sheets			
ePLAN P8 2.2.5				=54793	342	Sheet	343

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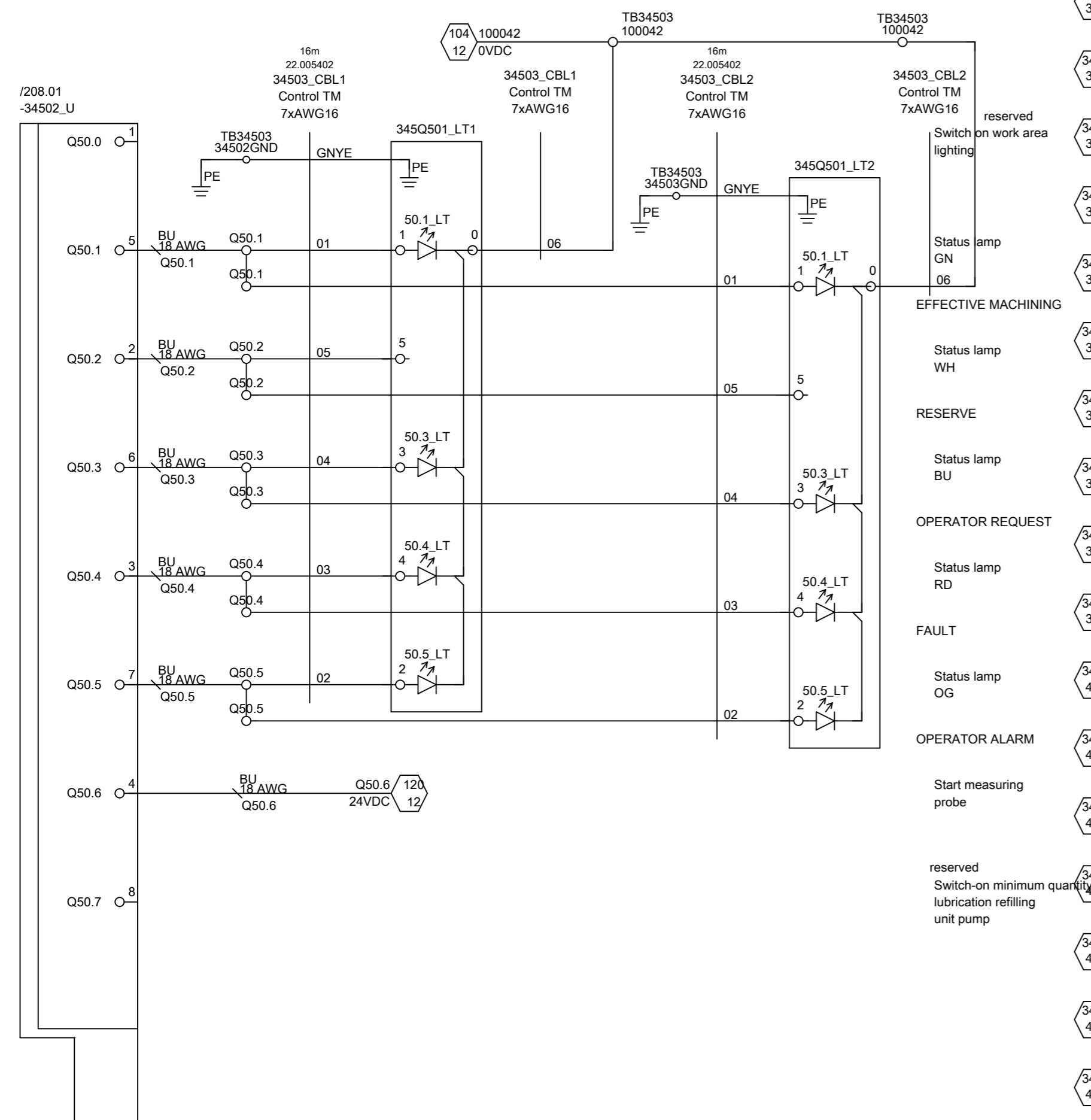
Reserve
Q48.0 - Q48.7

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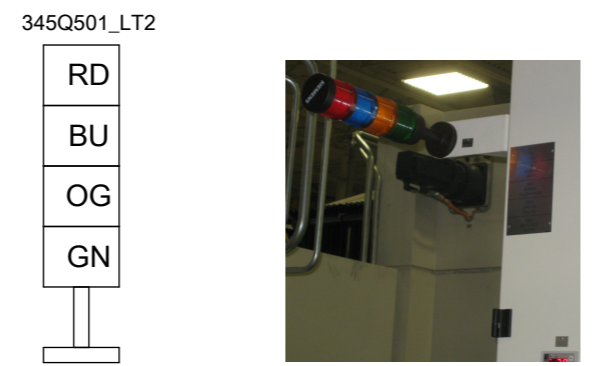
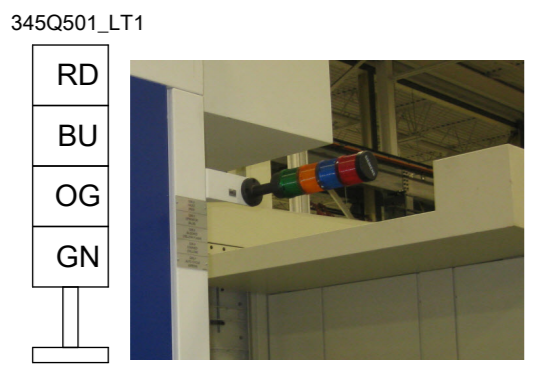
Reserve
Q49.0 - Q49.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q48.0 - Q48.7 Q49.0 - Q49.7				Number of sheets 265 Sheet 344	
ePLAN P8 2.2.5		=54793		343	Sheet 345

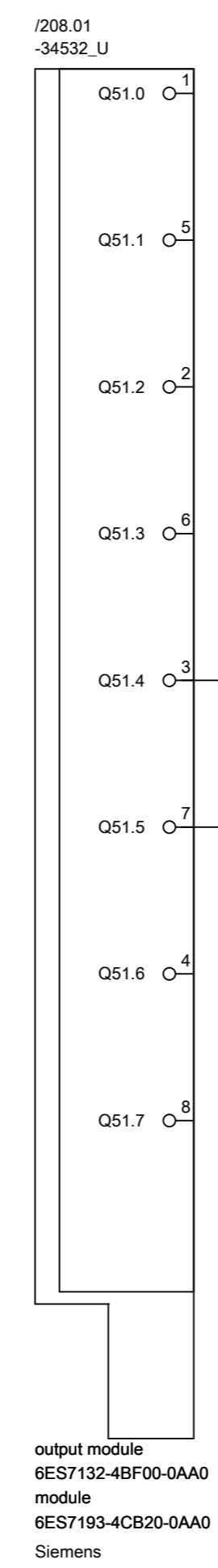
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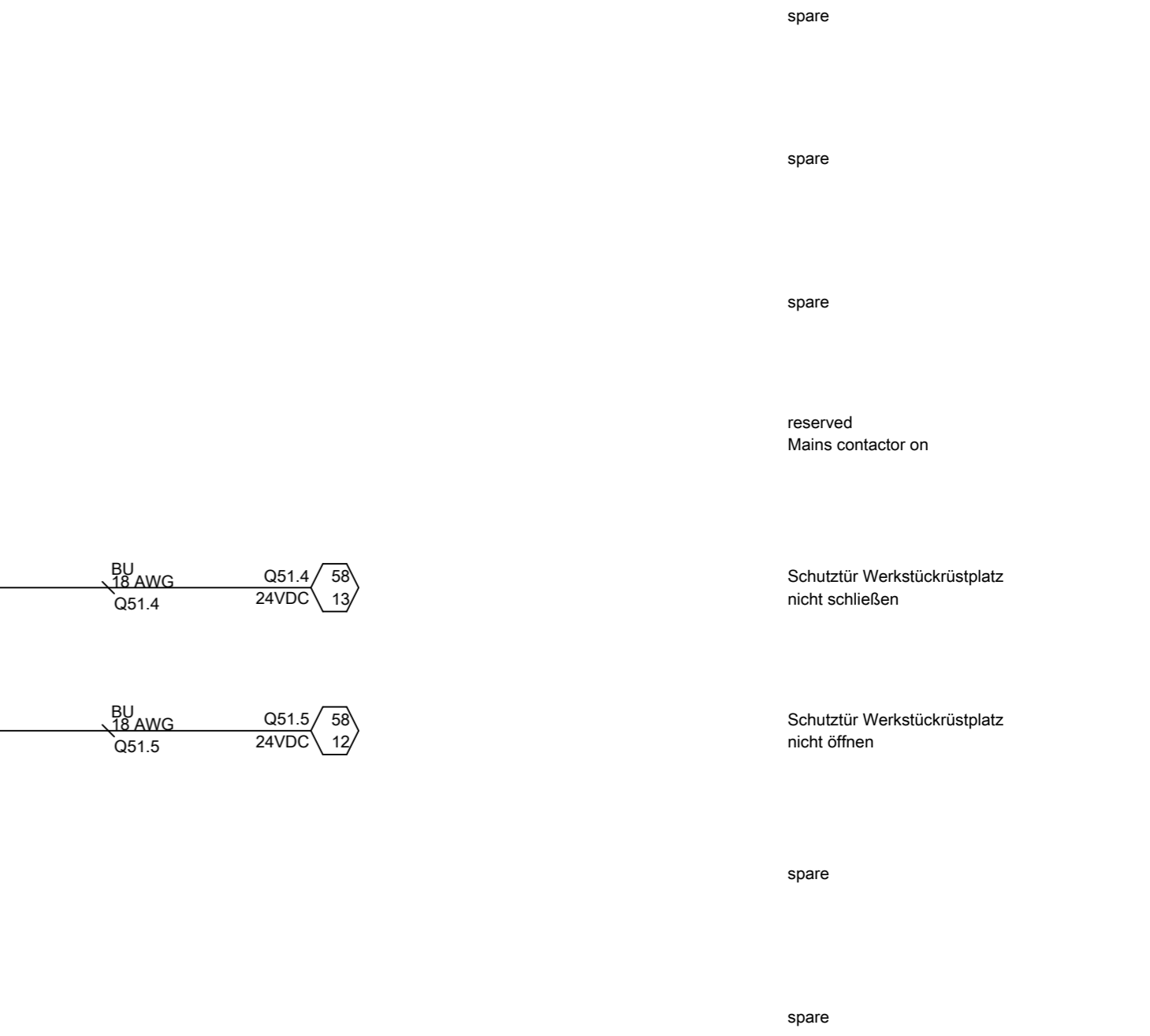
output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens



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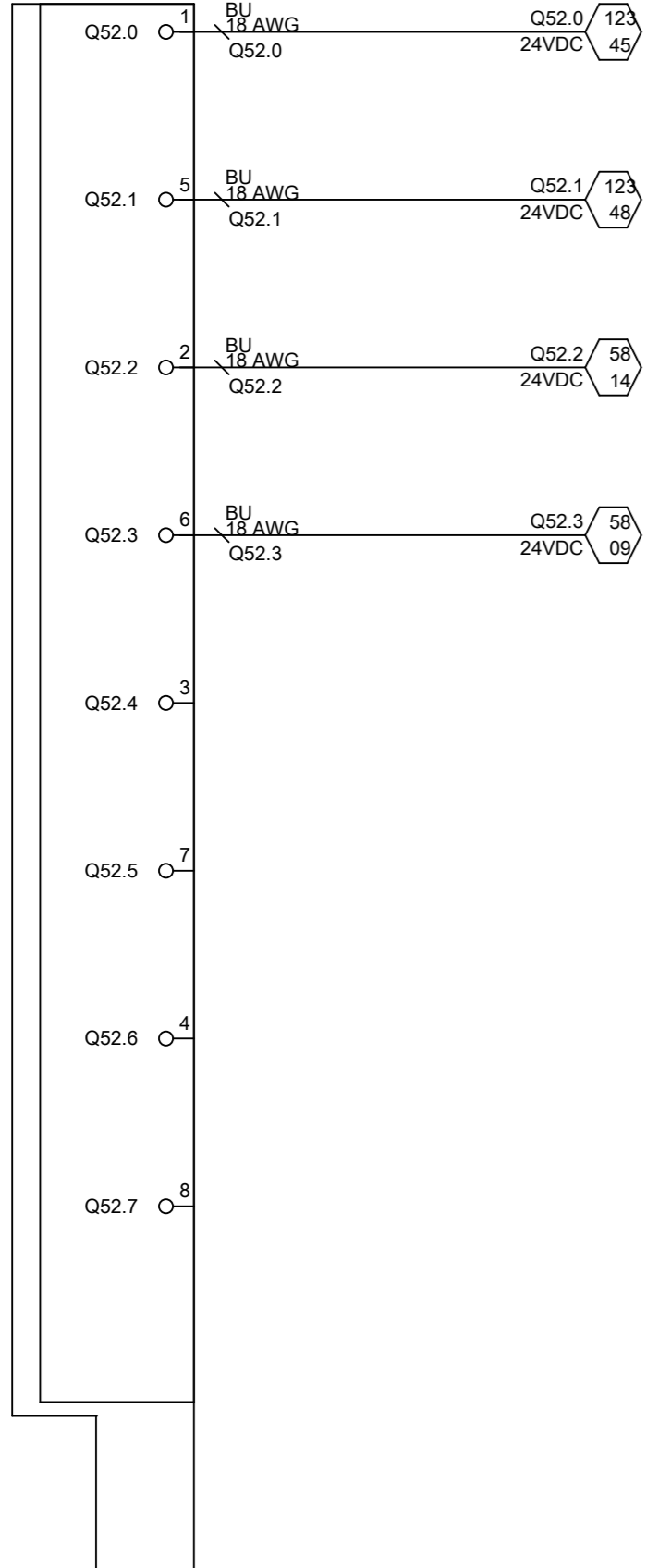
output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q50.0 - Q50.7 Q51.0 - Q51.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 345
				344	Sheet	346

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-34602_U



output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

Activate effective machining
time

Activate quantity counter

Workpiece loading station
safety door closed

Switch on brush drive for
spindle taper

reserved
Switch on tool cleaning for the
pump

reserved
Unclamp
A-axis
clamping

spare

reserved
Master Start lamp
(US-Automotive)

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Reserve
Q53.0 - Q53.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q52.0 - Q52.7 Q53.0 - Q53.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 346

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Reserve
Q54.0 - Q54.7

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Reserve
Q55.0 - Q55.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q54.0 - Q54.7 Q55.0 - Q55.7				Number of sheets			
ePLAN P8 2.2.5				=54793	265	Sheet	347
				346	Sheet	348	

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Reserve
Q56.0 - Q56.7

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Reserve
Q57.0 - Q57.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q56.0 - Q56.7 Q57.0 - Q57.7				Number of sheets	
ePLAN P8 2.2.5				265	Sheet 348
=54793				347	Sheet 349

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Reserve
Q58.0 - Q58.7

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Reserve
Q59.0 - Q59.7

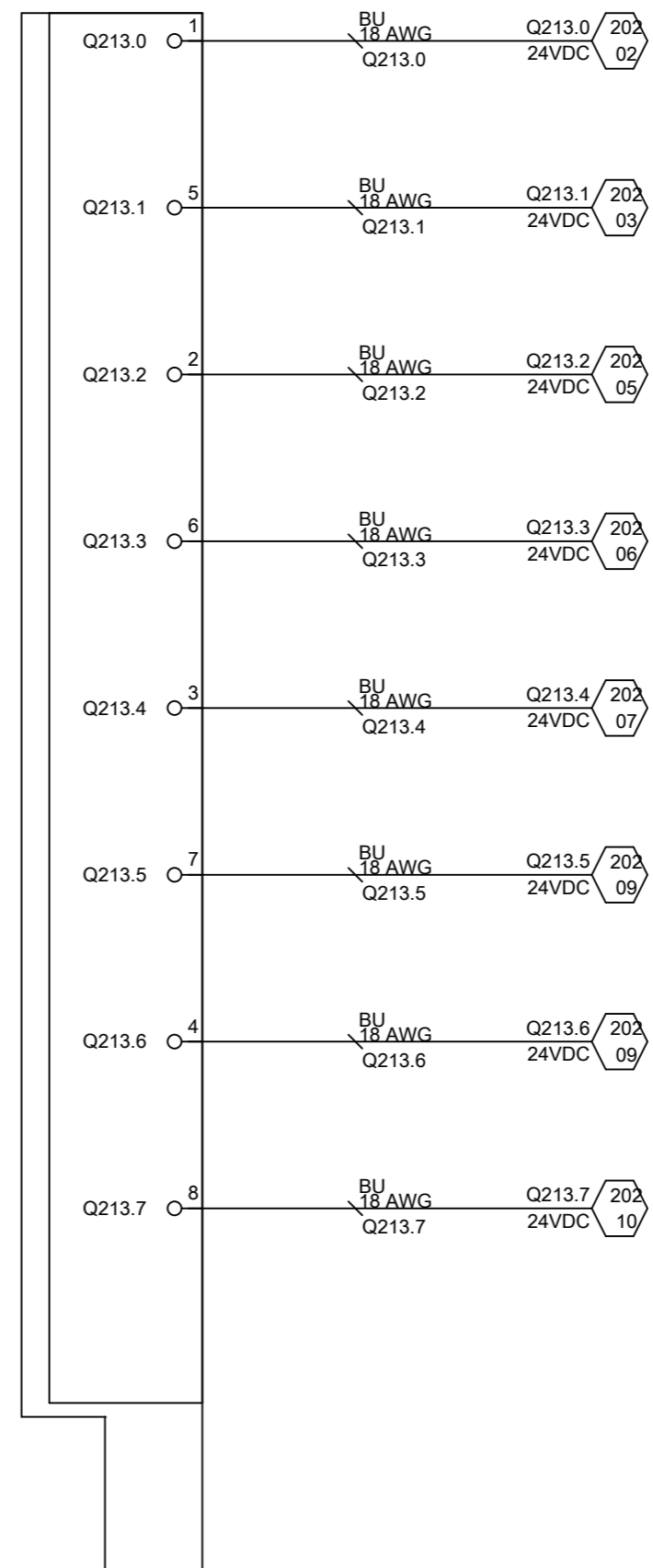
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q58.0 - Q58.7 Q59.0 - Q59.7				Number of sheets 265 Sheet 349	
ePLAN P8 2.2.5		=54793		◀ 348 Sheet 350 ▶	

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Reserve
Q212.0 - Q212.7

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/208.11
-35032_U



output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

Lamp workpiece
setting station safety door open

Lamp safety door, workpiece
loading station door closed

Lamp workpiece unclamped
on pallet changer

Lamp workpiece clamped on
pallet changer

Lamp stop key on pallet
changer

Lamp preset start on
pallet changer

Lamp screen message

Lamp check workpiece

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	26.01.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q212.0 - Q212.7 Q213.0 - Q213.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 350	
=54793				349 Sheet 351	

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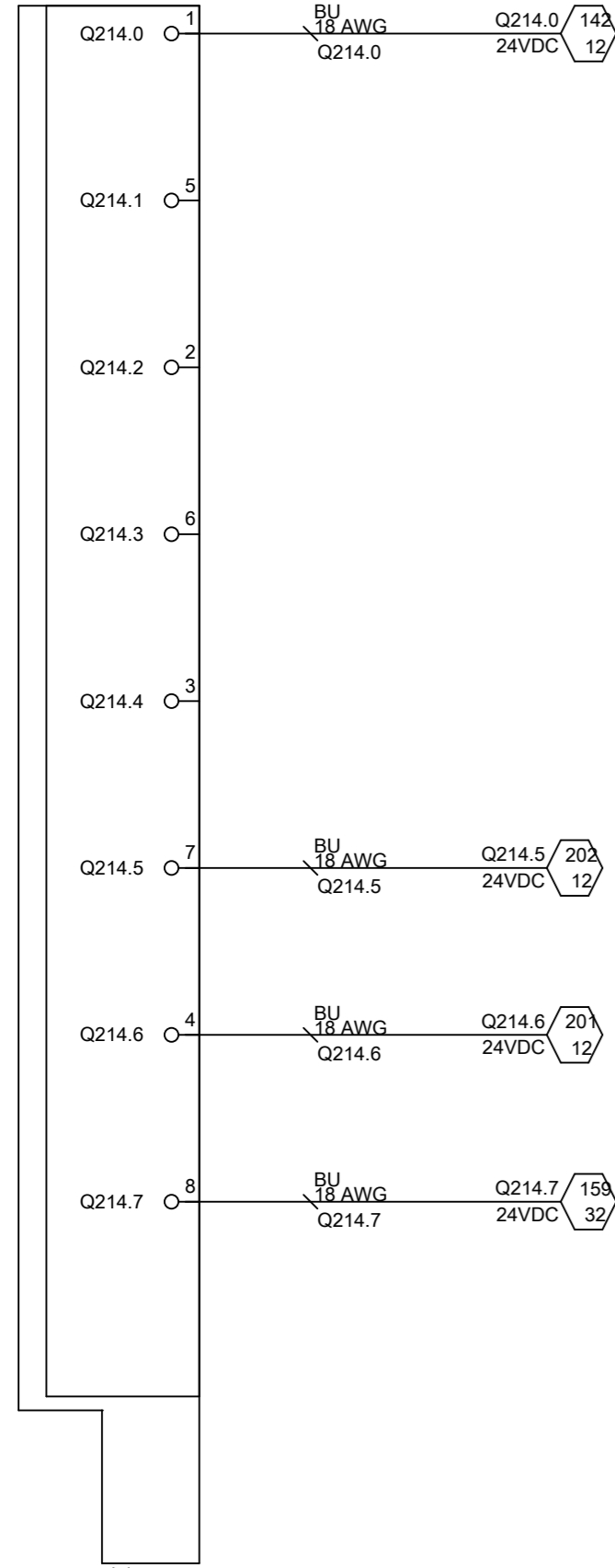
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/208.11
-35102_U



output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

Switch on lubrication pump,
machine, ball screw drive

spare

spare

spare

spare

'Pallet unlocked' lamp at pallet
changer (PAW)

'Pallet locked' lamp at pallet
changer (PAW)

Unlock media
supply safety
door

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Reserve Q215.0 - Q215.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	24.10.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q214.0 - Q214.7 Q215.0 - Q215.7				Number of sheets 265 Sheet 351	
ePLAN P8 2.2.5		=54793	350		Sheet 352

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Reserve
Q216.0 - Q216.7

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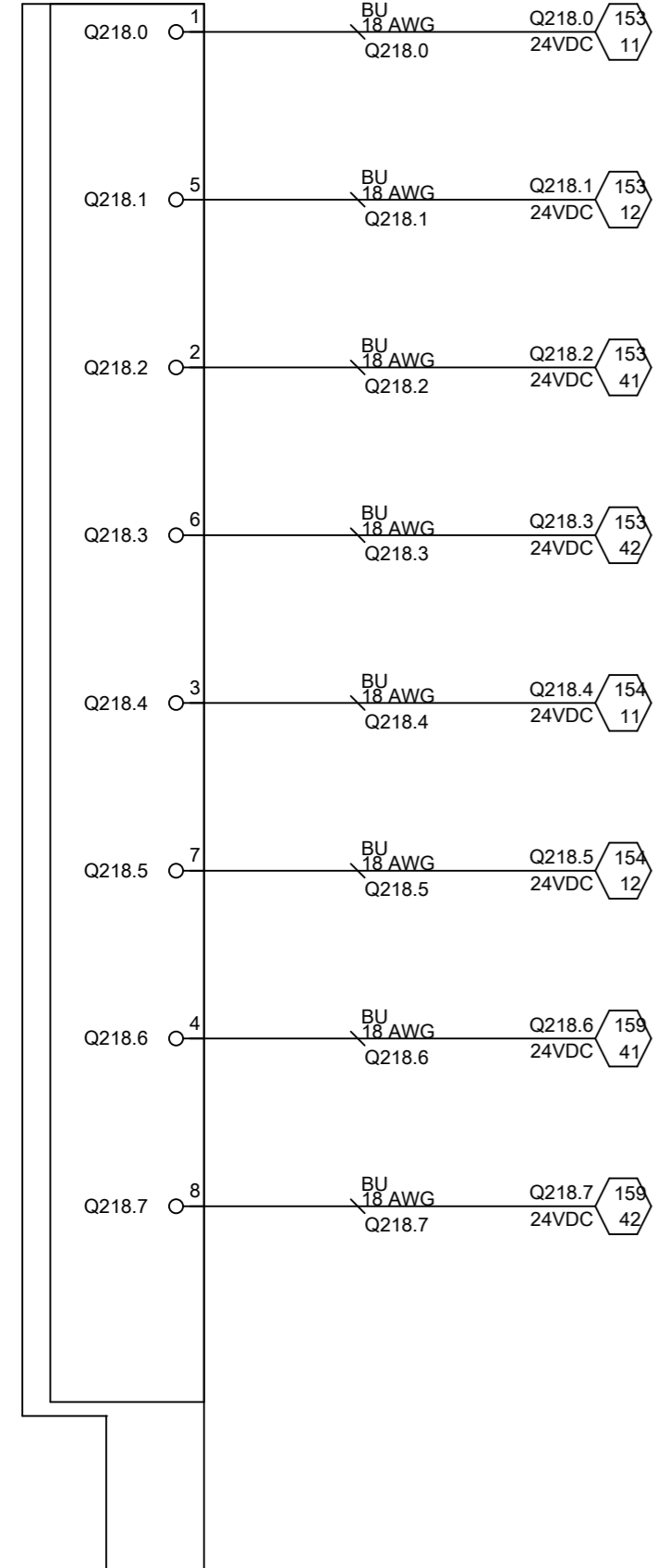
352
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Reserve
Q217.0 - Q217.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q216.0 - Q216.7 Q217.0 - Q217.7							
ePLAN P8 2.2.5				=54793		Number of sheets	
				351		Sheet	
				265		Sheet	
				352		353	

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output module
6ES7132-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

Work area
safety door,
LED1 (red)

Work area
safety door,
LED2 (green)

Tool loading
station safety
door LED1 (red)

Tool loading
station safety
door LED2 (green)

Workpiece
loading station
safety door LED1 (red)

Workpiece
loading station
safety door LED2 (green)

Media supply safety door,
workpiece loading station
maintenance
area LED1 (red)

Media supply safety door,
workpiece loading station
maintenance
area LED2 (green)

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Reserve Q219.0 - Q219.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Reserve Q218.0 - Q218.7 Q219.0 - Q219.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 353
				352	Sheet	354

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Reserve
Q220.0 - Q220.7

Reserve
Q221.0 - Q221.7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q220.0 - Q220.7 Q221.0 - Q221.7				Number of sheets 265 Sheet 354	
ePLAN P8 2.2.5		=54793		◀ 353 Sheet 355 ▶	

Reserve
page 355-359

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 355-359				Number of sheets 265 Sheet 355	
ePLAN P8 2.2.5		=54793		◀ 354 Sheet ▶ +H1/360	

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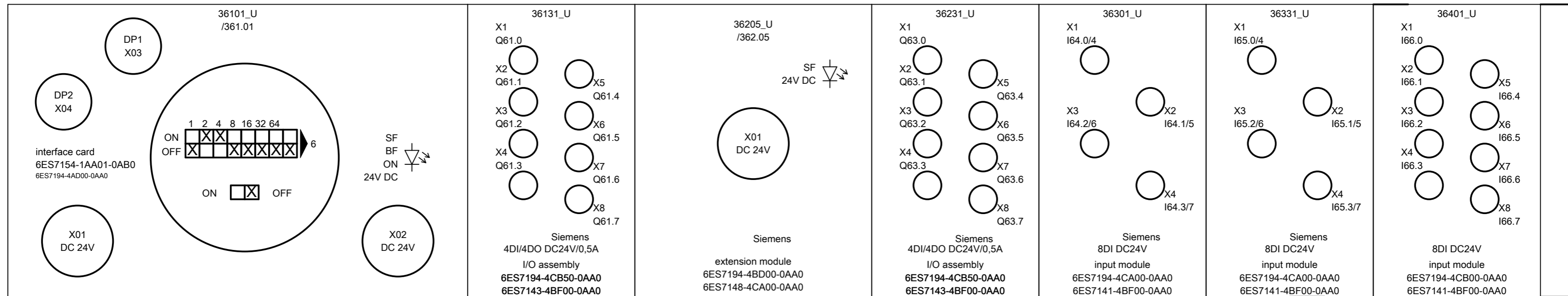
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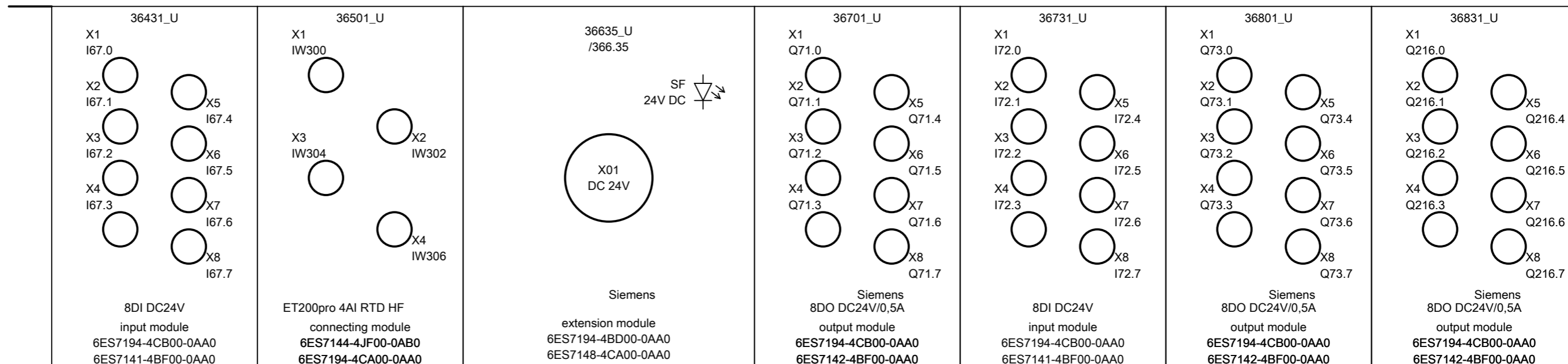
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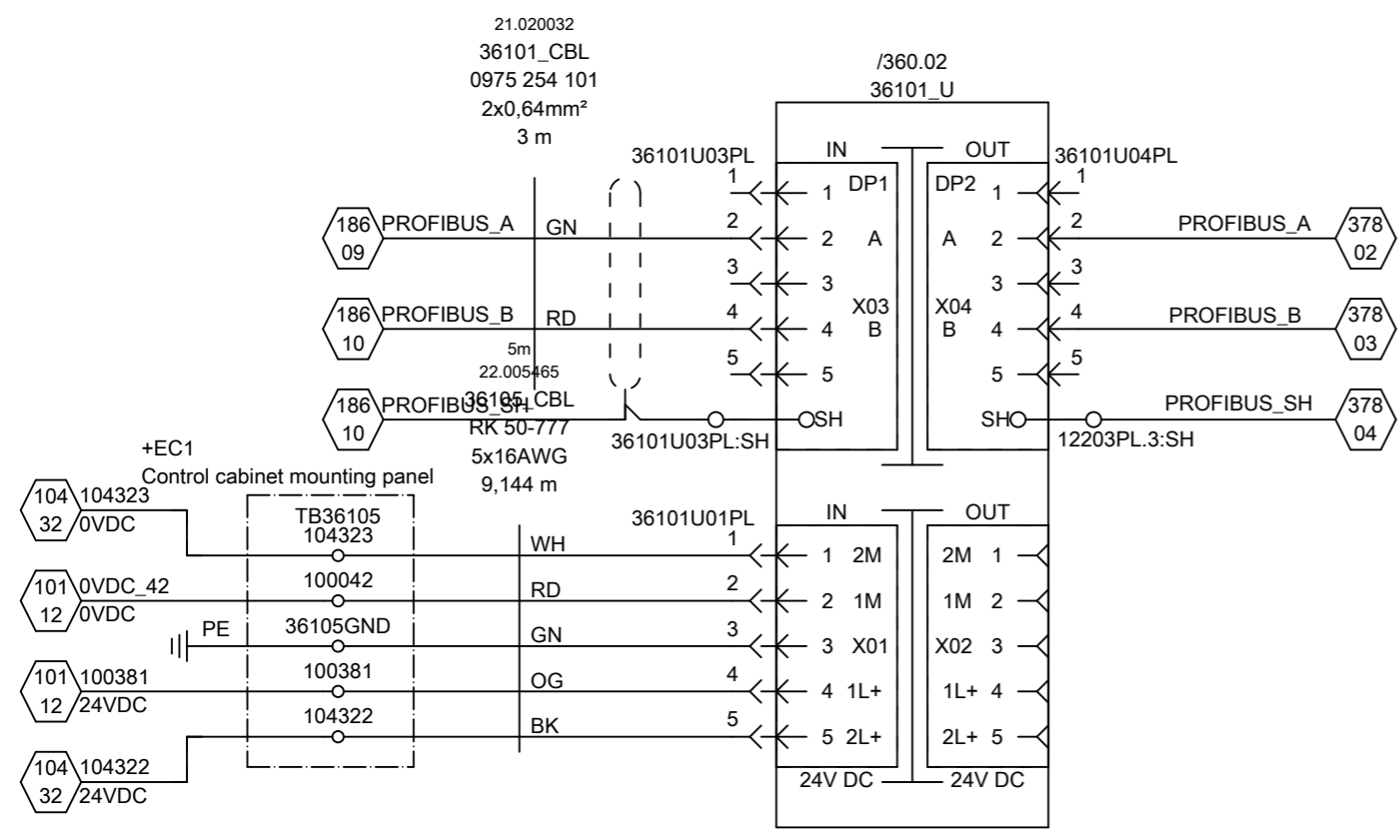
Operating precondition emergency Stop switch-off



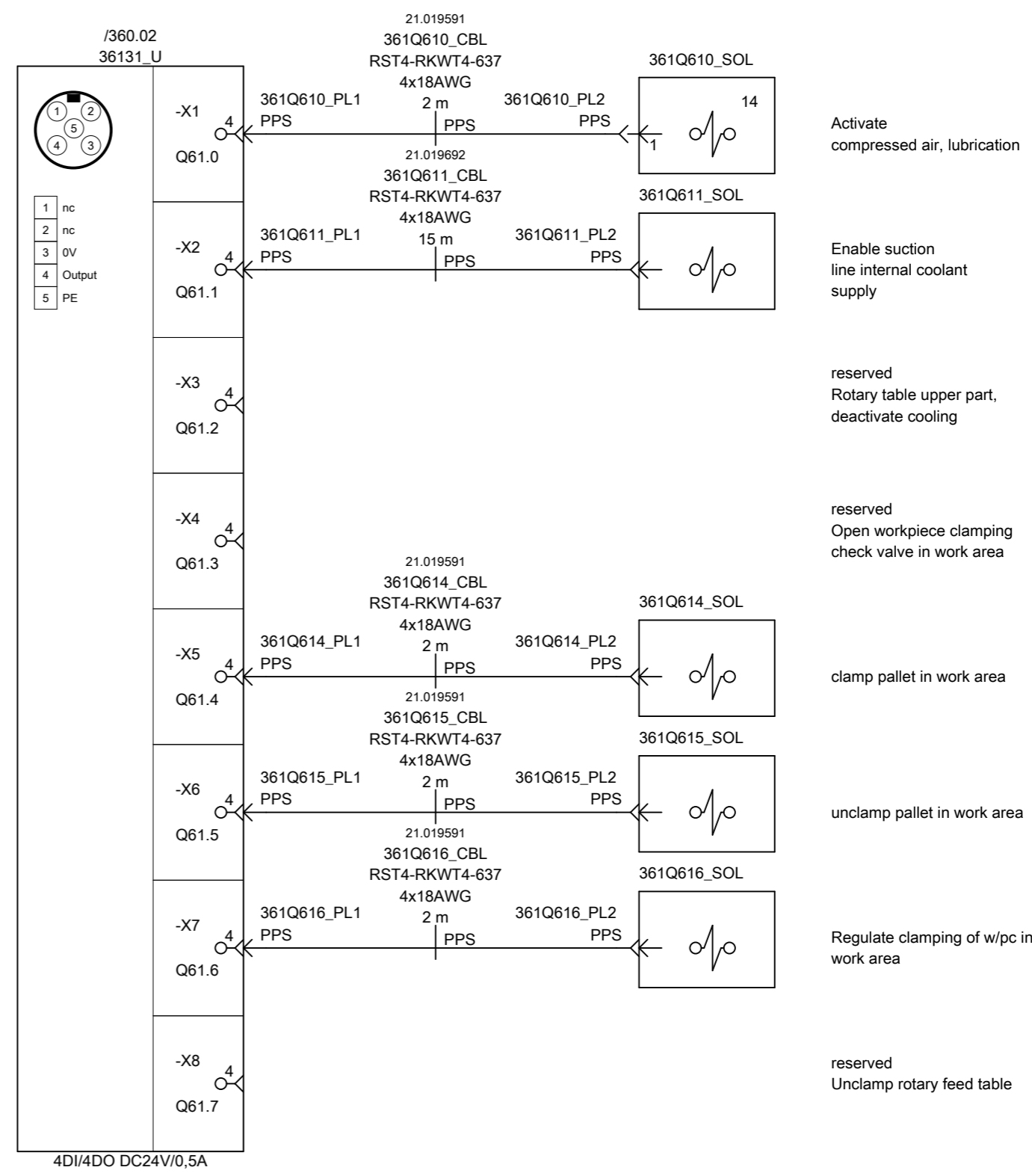
Operating precondition work area, switch-off

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of inputs/outputs, HELP 1/1				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 360	
=54793				+EC1/355 Sheet 361	

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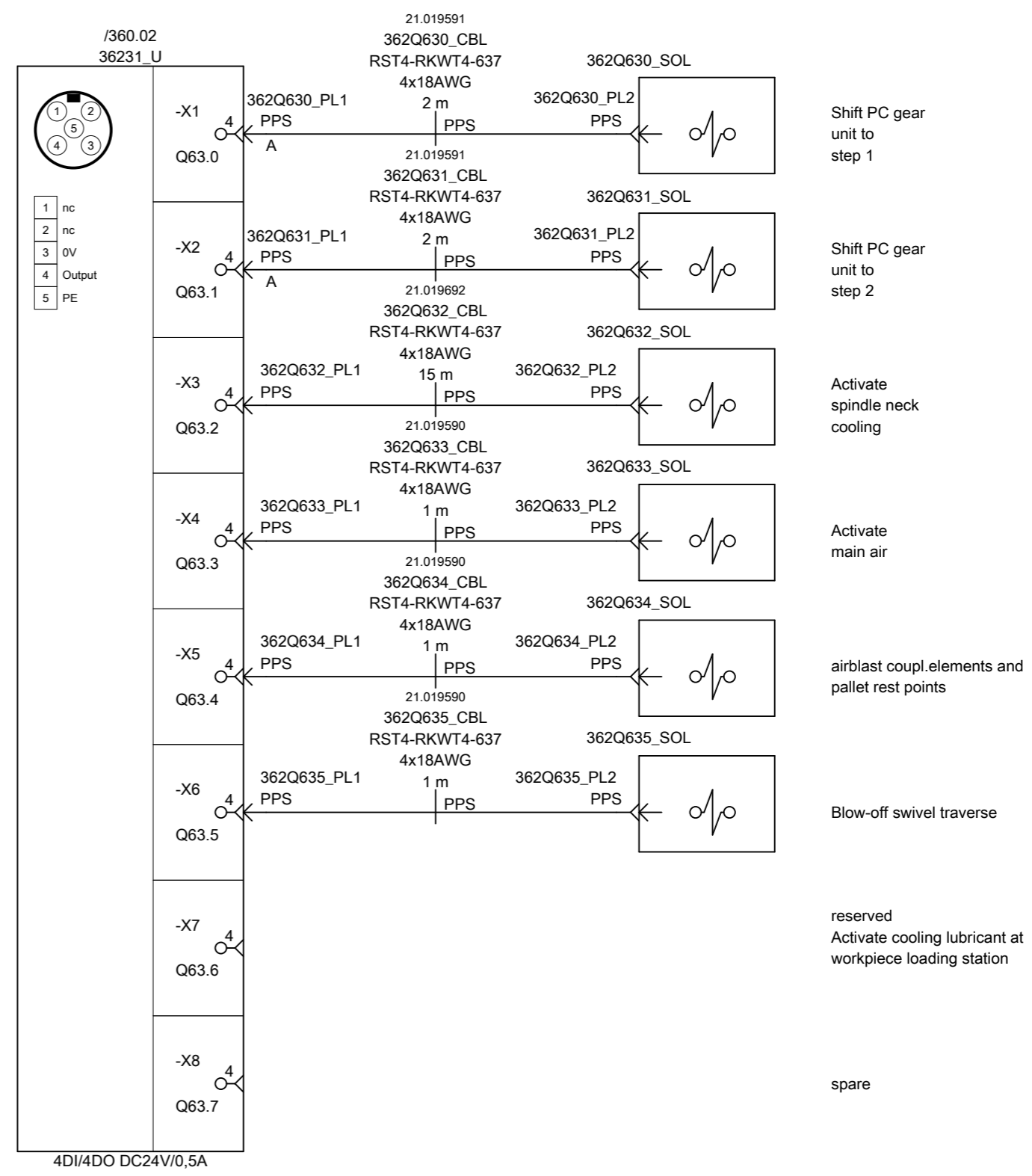
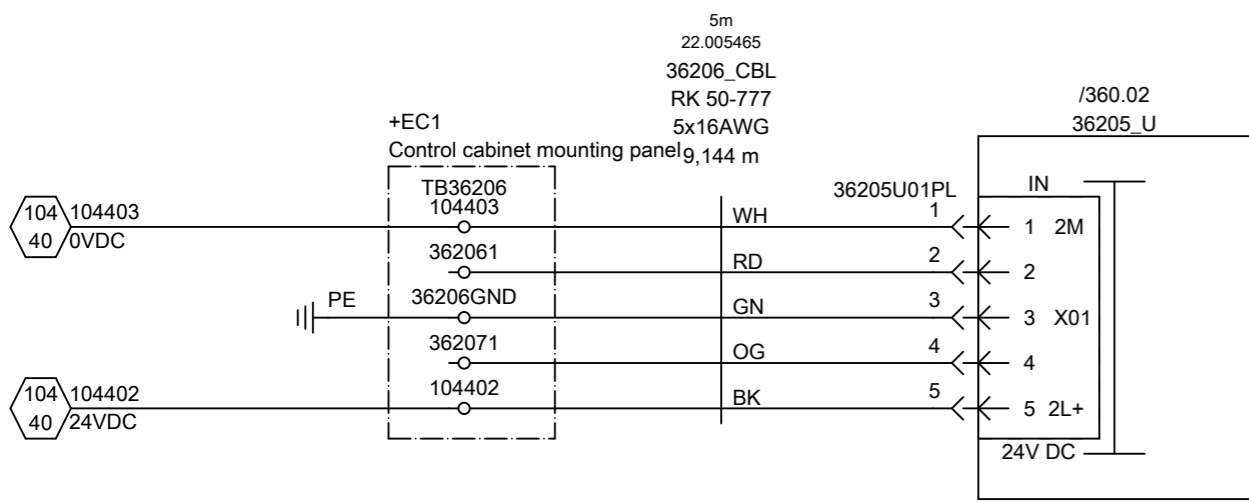
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q61.0 - Q61.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 361

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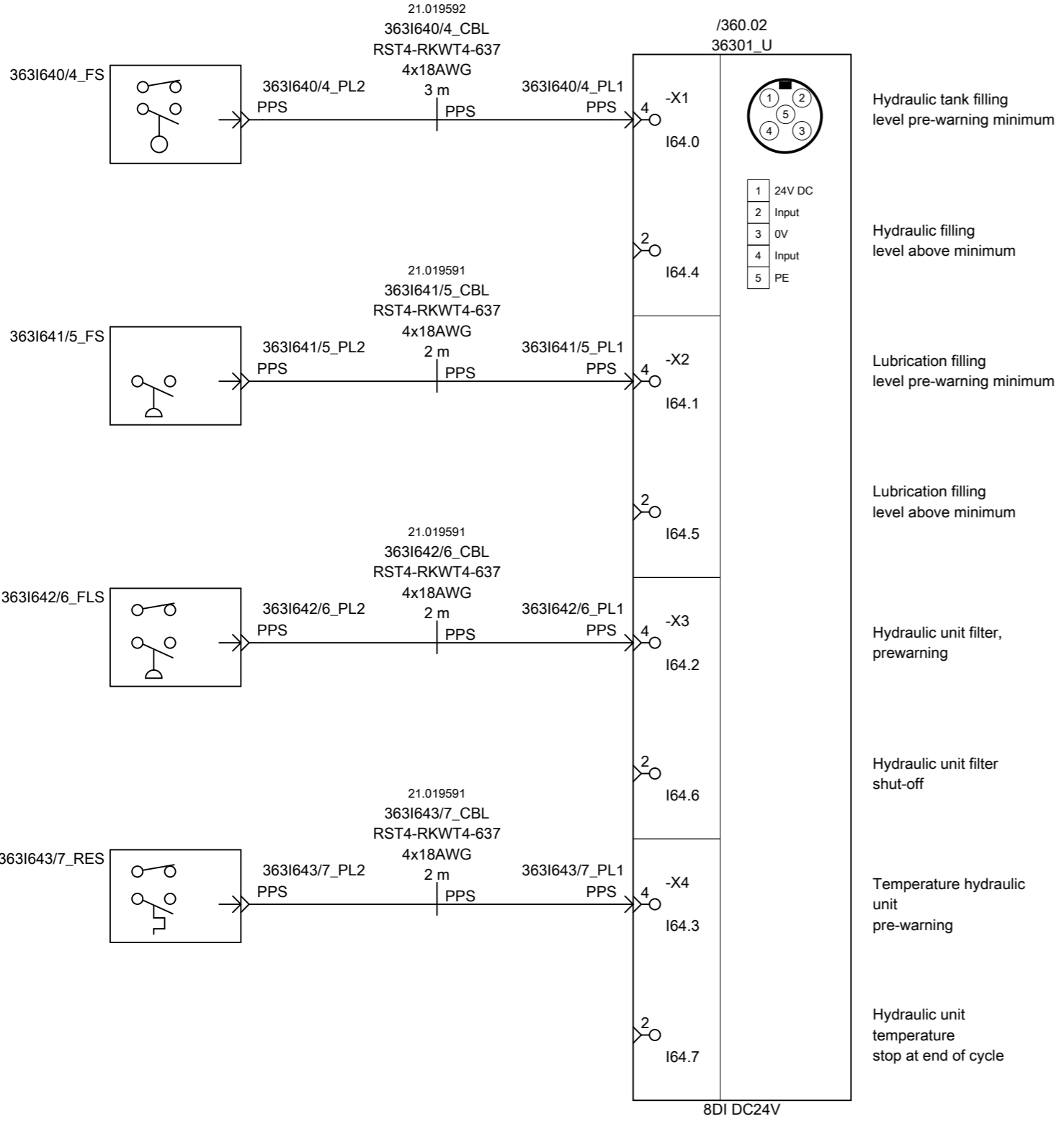
362 30
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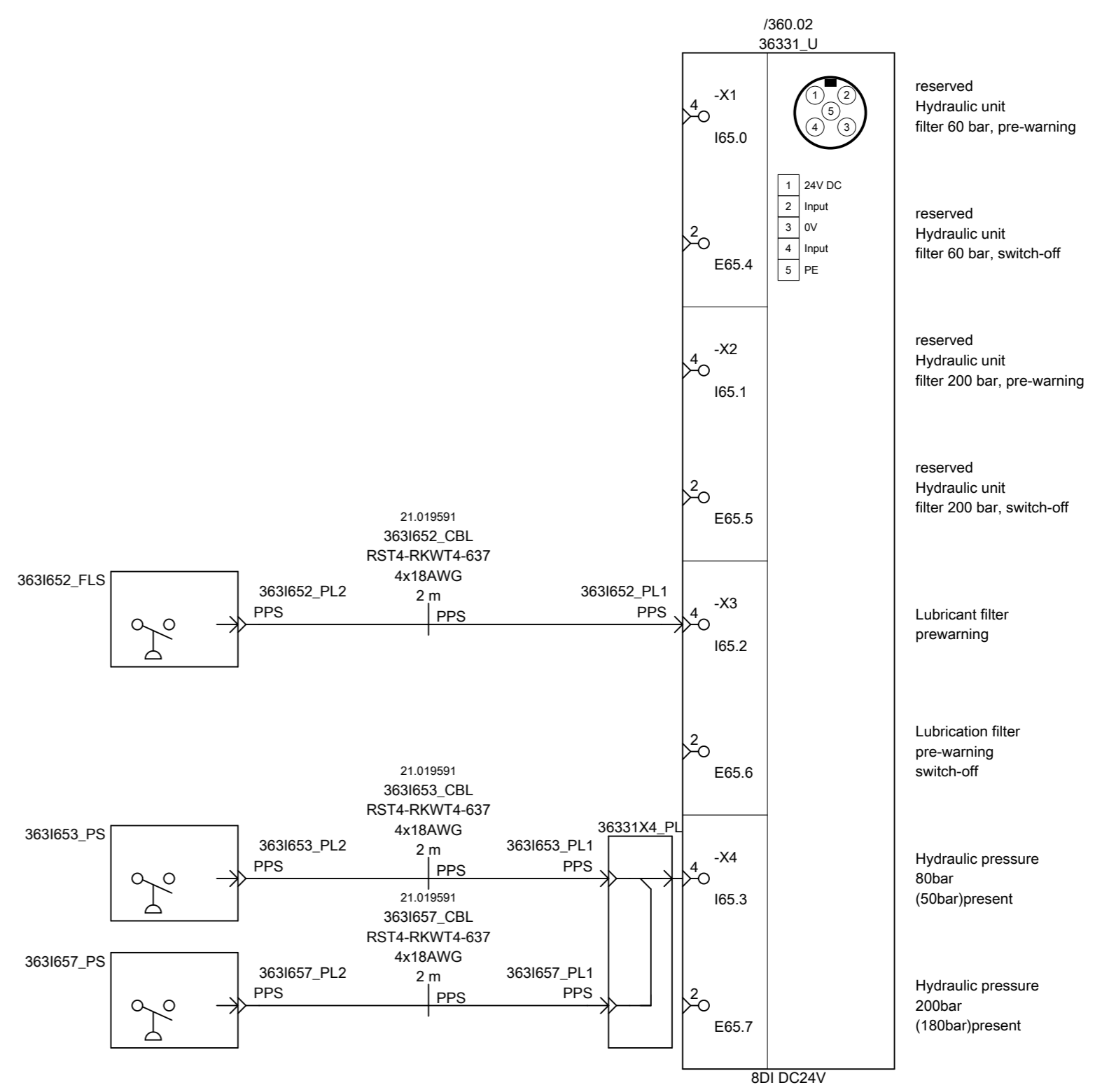
Shift PC gear unit to step 1
Shift PC gear unit to step 2
Activate spindle neck cooling
Activate main air
airblast coupl.elements and pallet rest points
Blow-off swivel traverse
reserved
Activate cooling lubricant at workpiece loading station
spare

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I/Q62.x I/Q63.x				Inv.No.	
ePLAN P8 2.2.5 =54793				Number of sheets 265 Sheet 362	
				361 Sheet 363	

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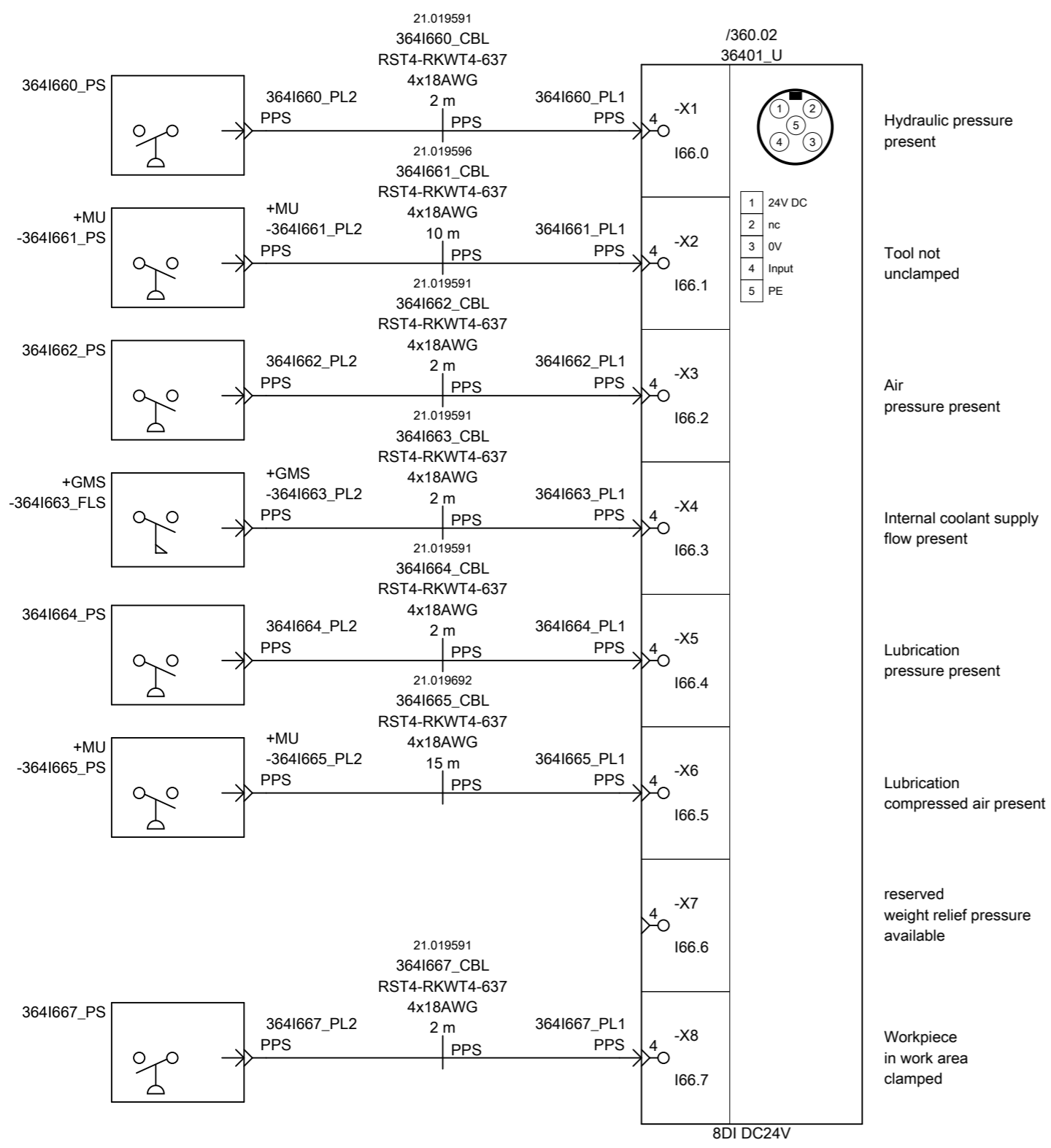


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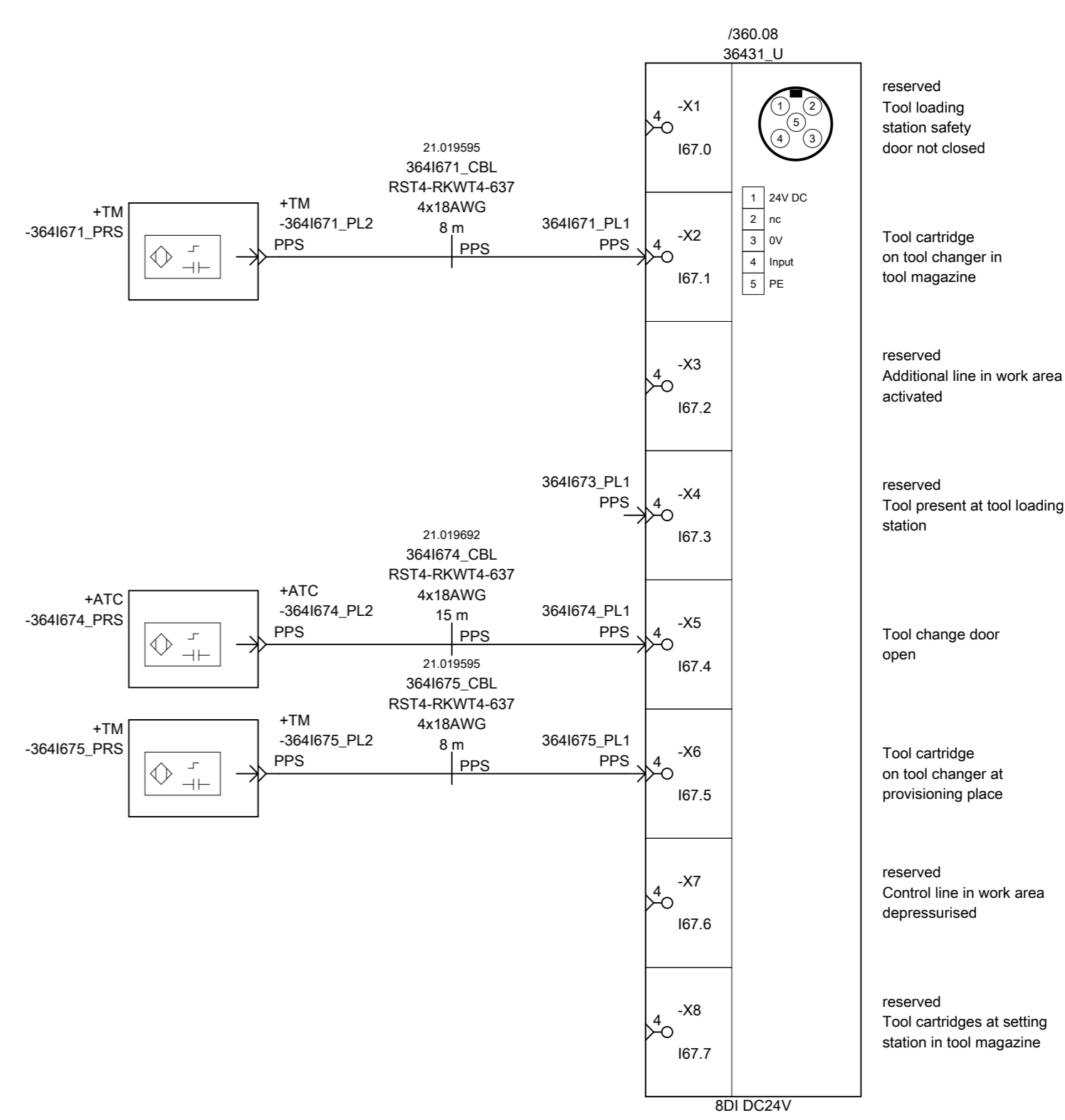


Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I64.0 - I64.7 I65.0 - I65.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 363	
=54793				362 Sheet 364	

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reserved
Tool loading station safety door not closed

Tool cartridge on tool changer in tool magazine

reserved
Additional line in work area activated

reserved
Tool present at tool loading station

Tool change door open

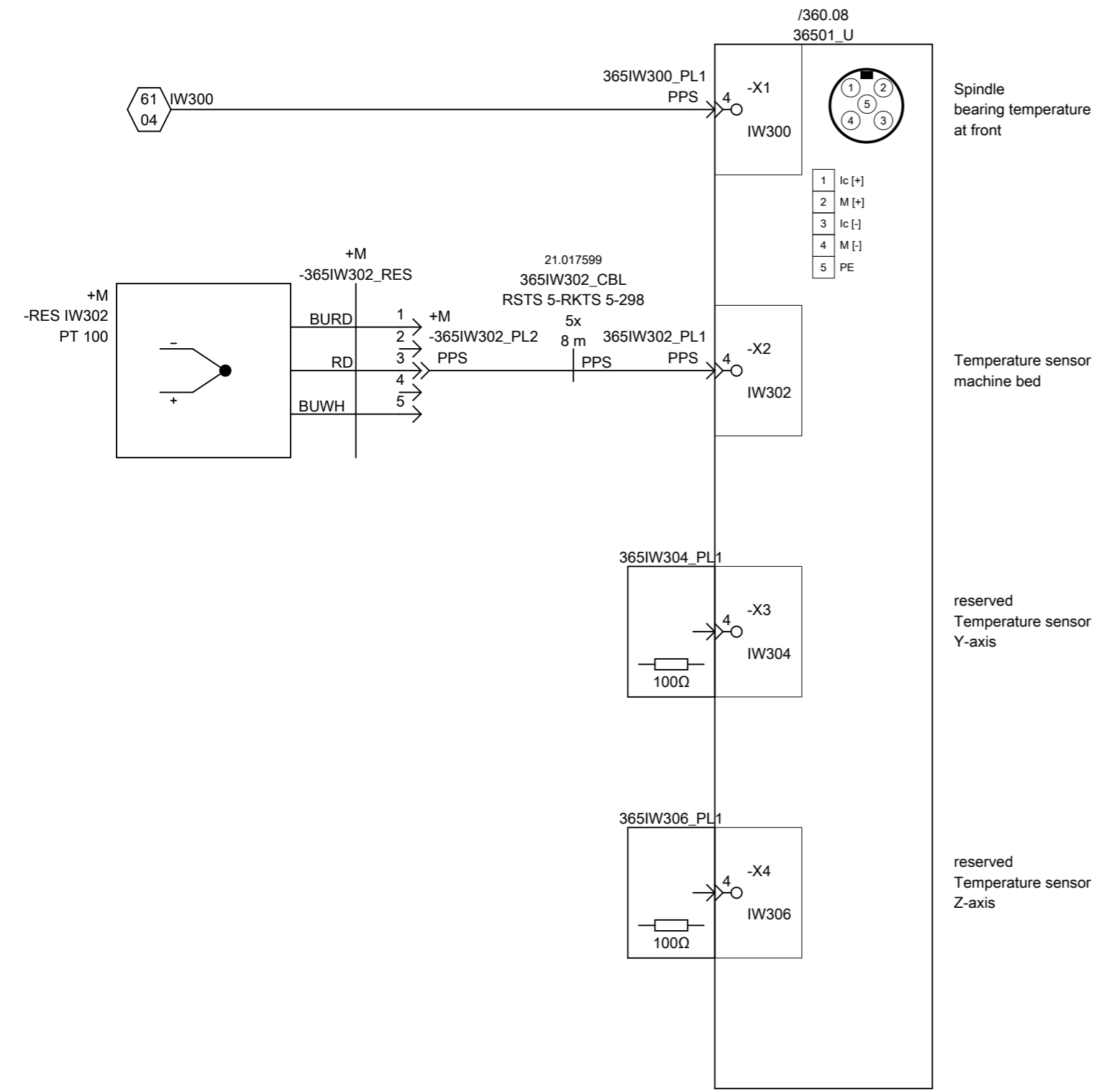
Tool cartridge on tool changer at provisioning place

reserved
Control line in work area depressurised

reserved
Tool cartridges at setting station in tool magazine

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
166.0 - 166.7 167.0 - 167.7				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet 364
◀ 363				Sheet	365

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Spindle bearing temperature at front
Temperature sensor machine bed
reserved Temperature sensor Y-axis
reserved Temperature sensor Z-axis

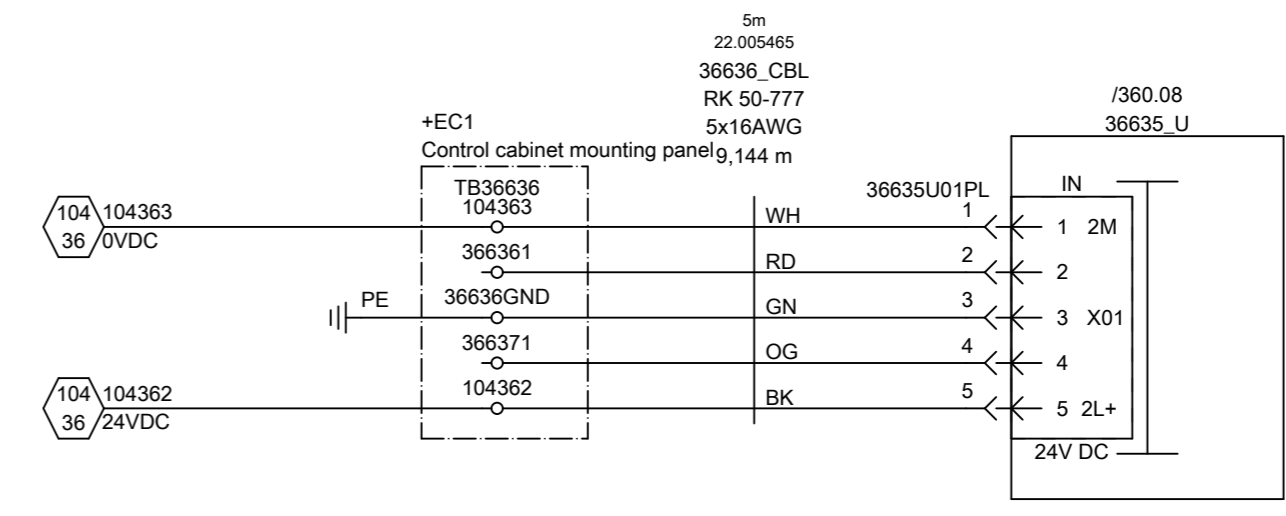
Reserve
I/Q69.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
IW300 - IW306 I/Q69.0 -I/Q69.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 365
				364	Sheet	366

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Reserve
I/Q70.x



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	02.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I/Q70.x				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 366	
=54793				◀ 365 Sheet 367 ▶	

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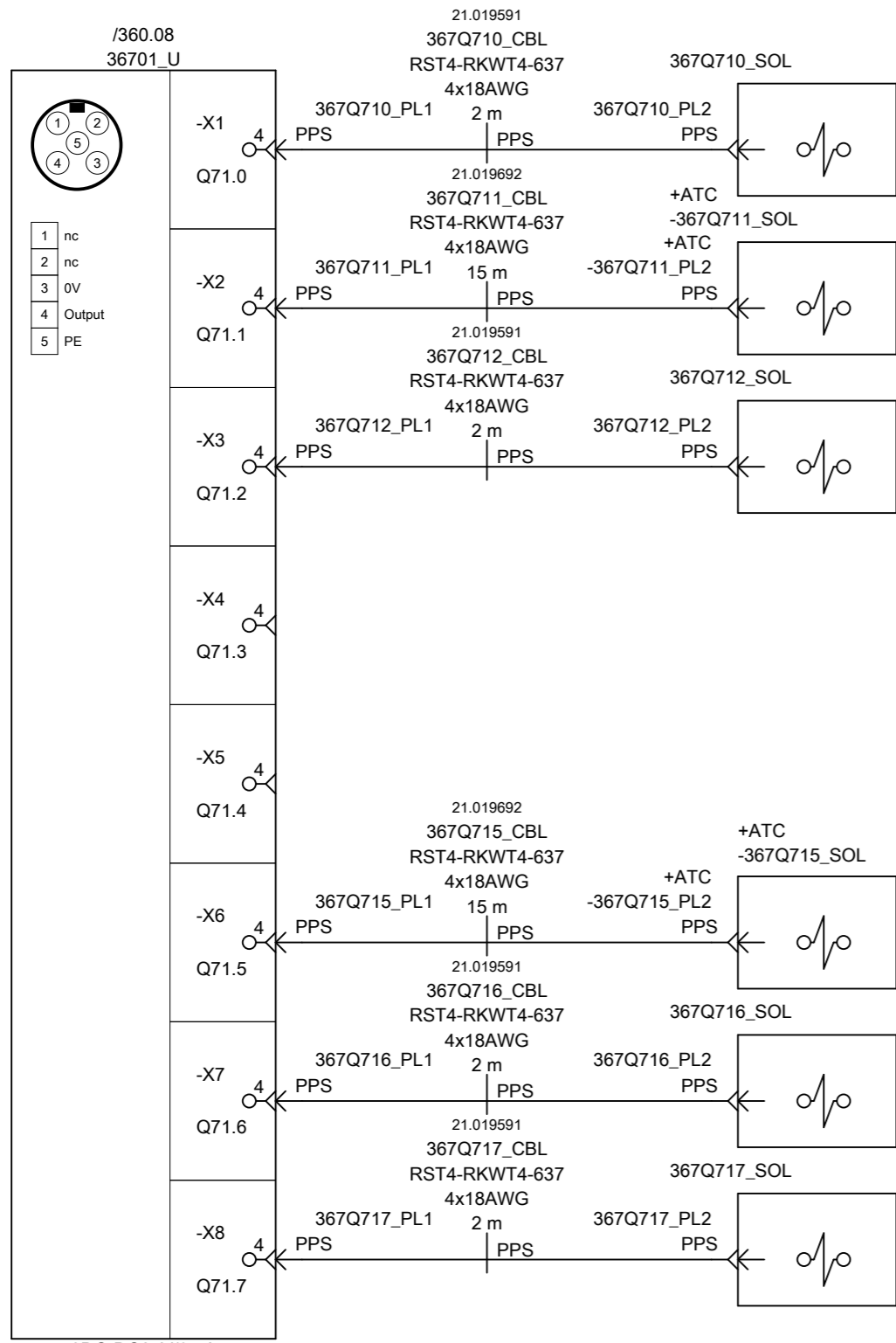
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8DO DC24V/0,5A

Blow-out tool,
blow-off facing slide
coupling point

Close tool change door

Tool cartridge
on tool changer to
tool magazine

reserved
Notklemmung lösen

reserved
Activate additional line in work
area

Open tool change
door

Tool cartridge
on tool changer to
provisioning place

Activate measuring probe

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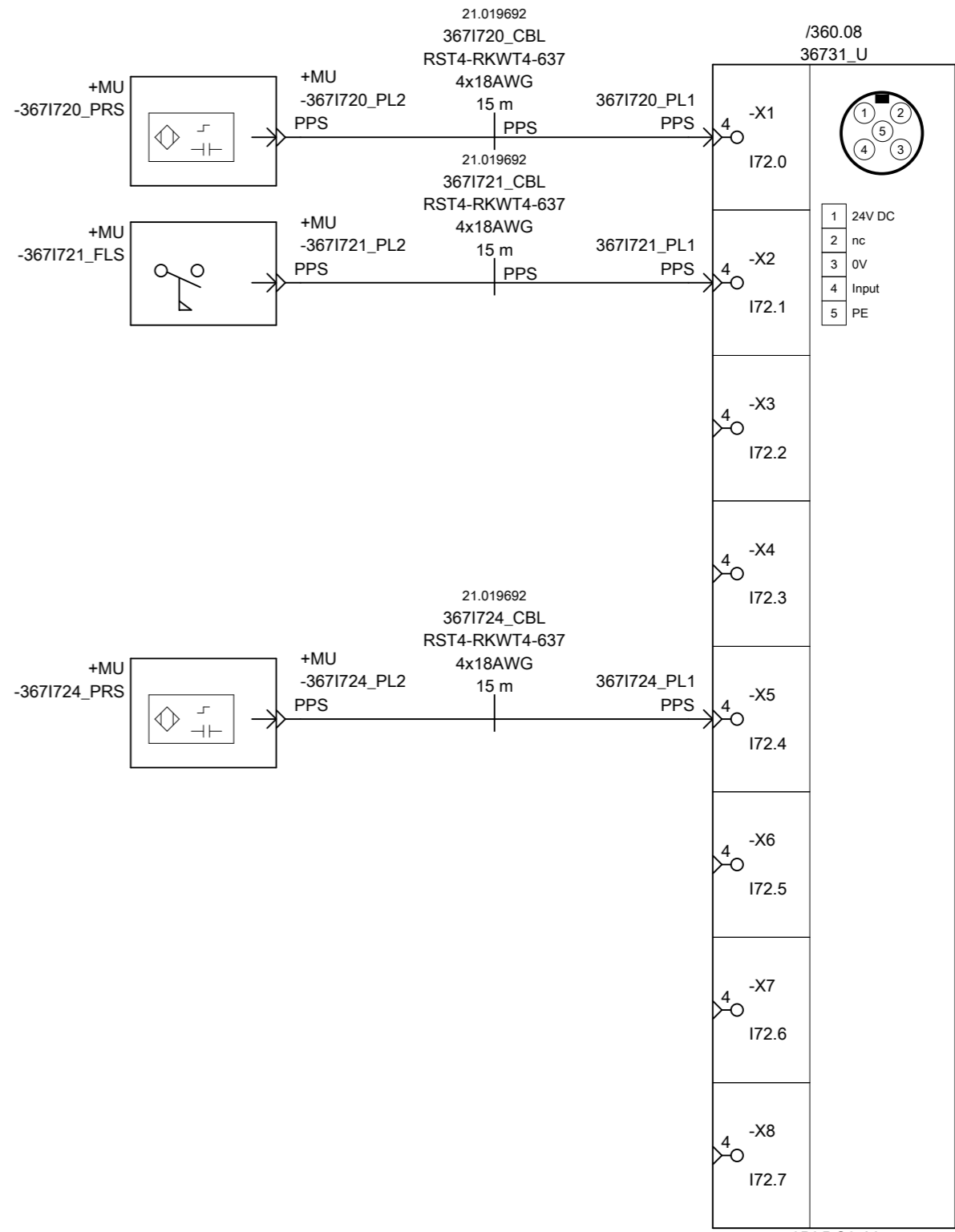
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8DI DC24V

PC gear unit
to step 1

Lubrication
gear unit
flow present

reserved
Handheld operating unit
connected to rack-type tool
magazine

reserved
Facing slide coupled

PC gear unit
to step 2

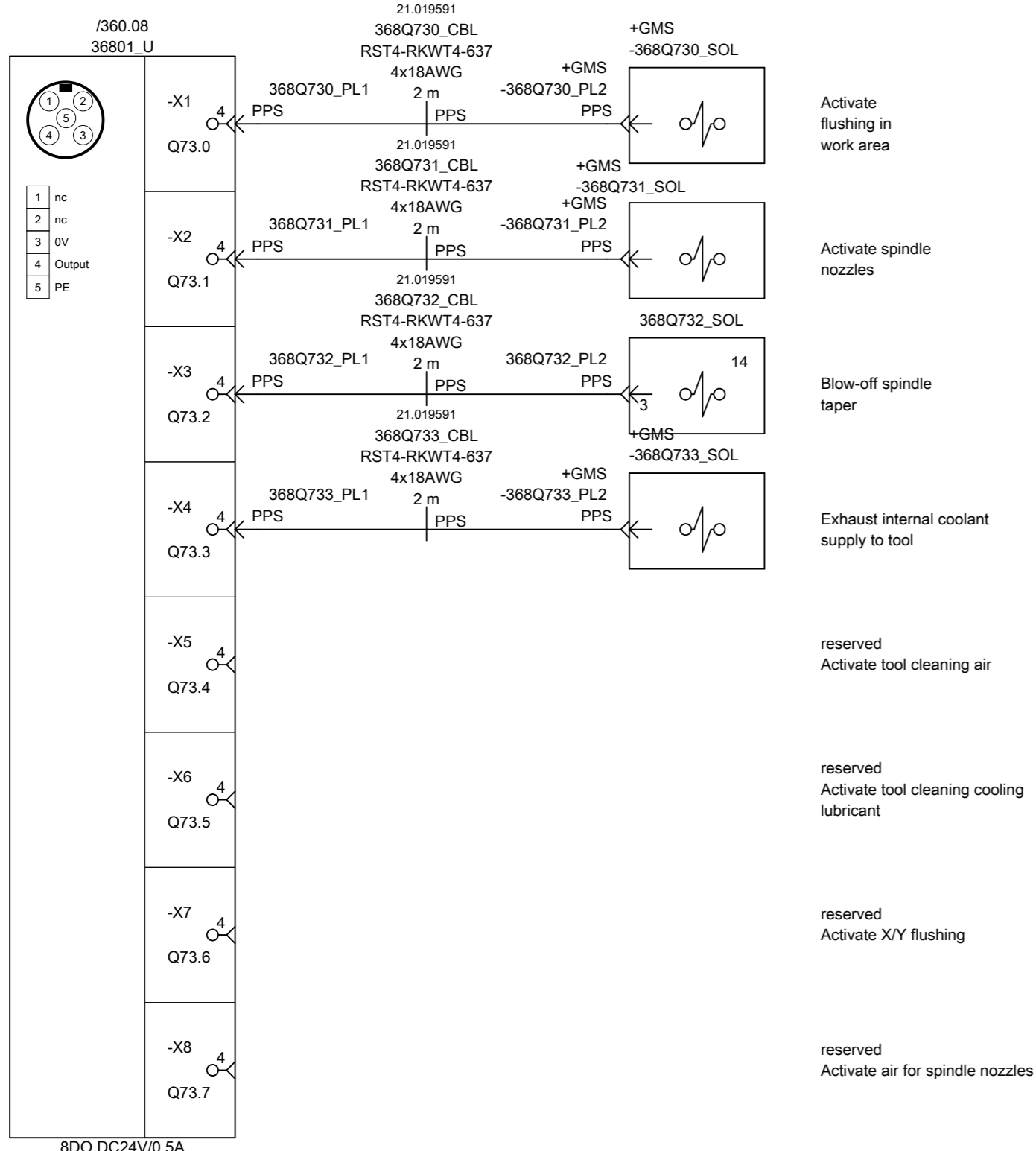
reserved
Lubrication HPC-gear unit
flow present

reserved
Leakage OK

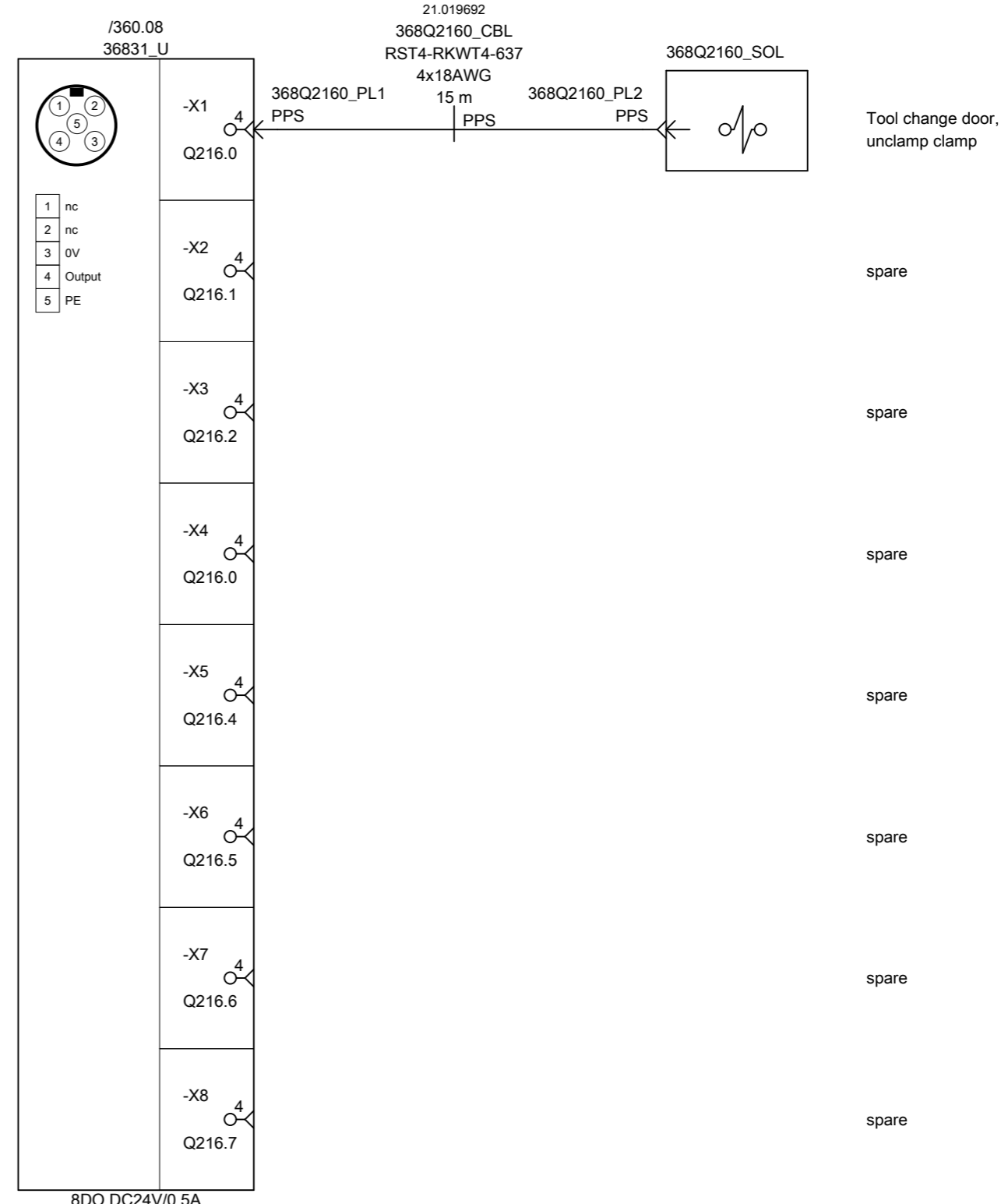
reserved
Facing slide uncoupled

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q71.0 - Q71.7 I72.0 - I72.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets	265
				Sheet	367	368

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q73.0 - Q73.7 Reserve I/Q74.n				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 368

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Tool identification
Brand: Siemens

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Reserve
IW120 - IW123

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Tool identification
Brand: Siemens

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Reserve
QW120 - QW123

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve IW120 - IW123 QW120 - QW123					
ePLAN P8 2.2.5				=54793	
Number of sheets			265	Sheet	369
◀ 368			Sheet	370 ▶	

Reserve
I/Q216.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q216.0 - Q216.7				Number of sheets 265 Sheet 370	
ePLAN P8 2.2.5		=54793		369	Sheet 371

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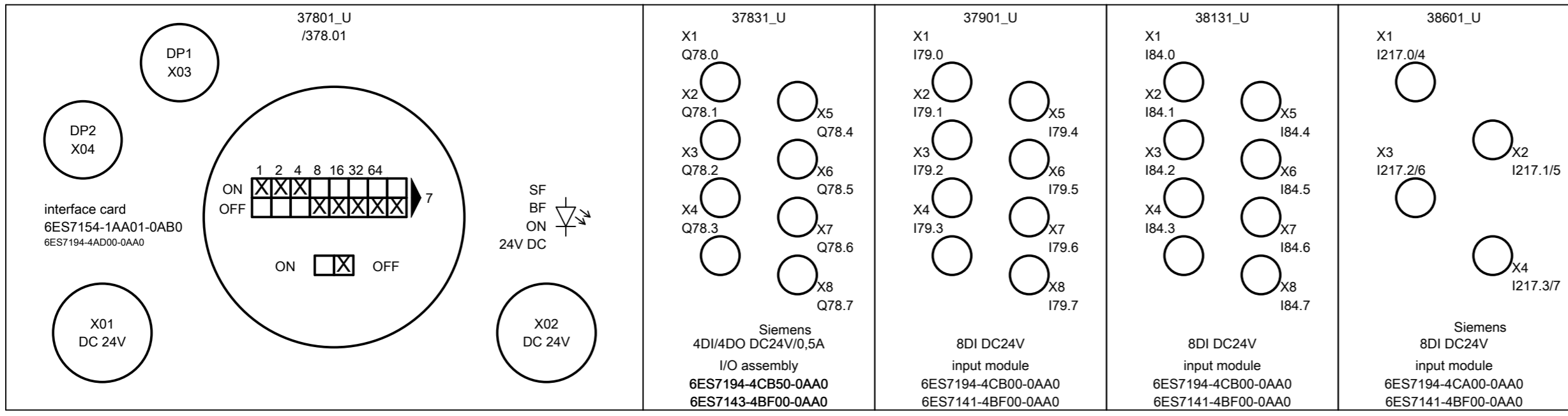
Reserve
page 371-376

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	15.09.2015	AHP3/GMI		Inv.No.	
Reserve page 371-376				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				370	Sheet 371

- 371 30
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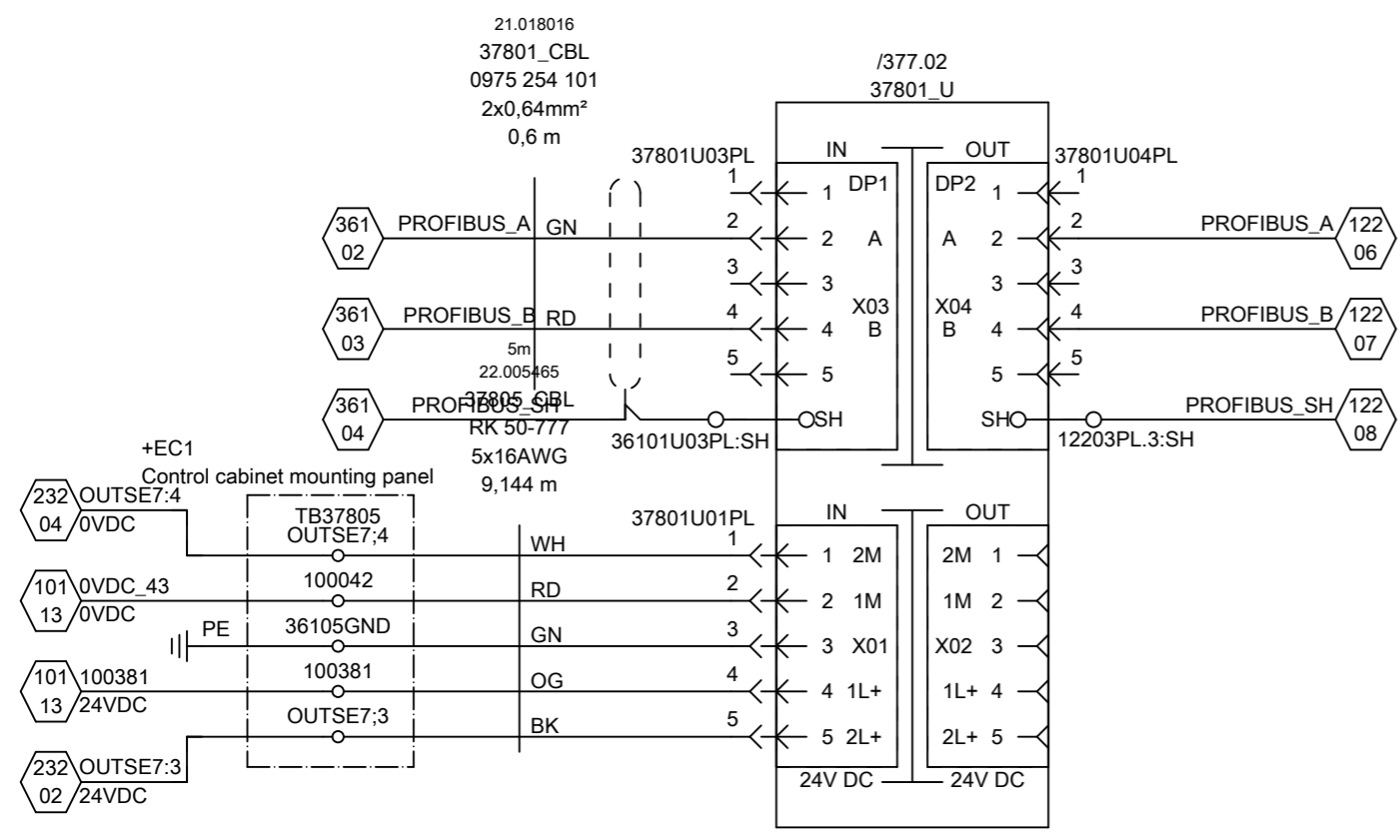
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Operating precondition tool setting station, switch-off

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	04.04.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Overview of inputs/outputs, HELP 1/2				Number of sheets	
ePLAN P8 2.2.5				265	Sheet 377
=54793				371	Sheet 378

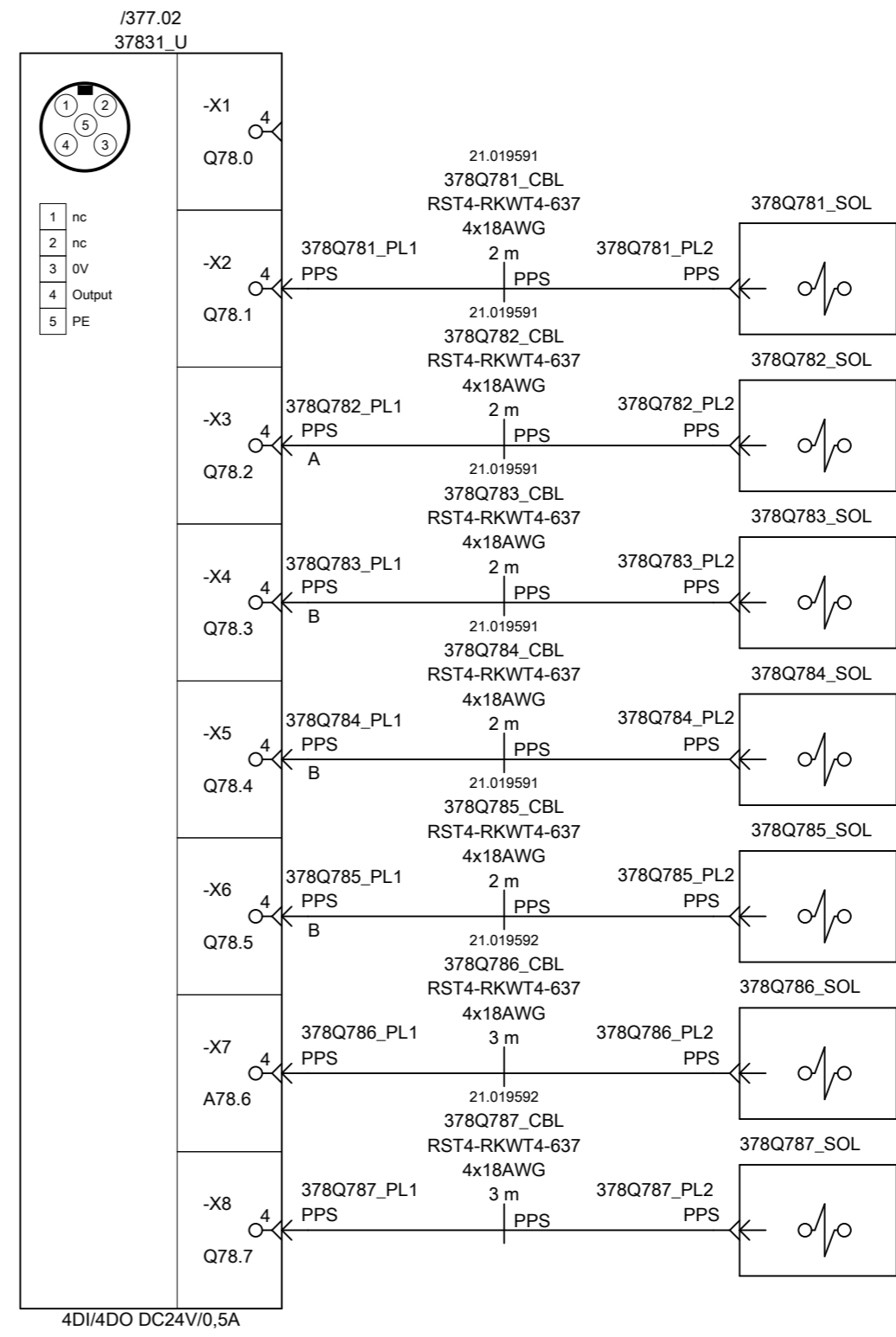
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Attention
Voltage also present when main switch is turned off

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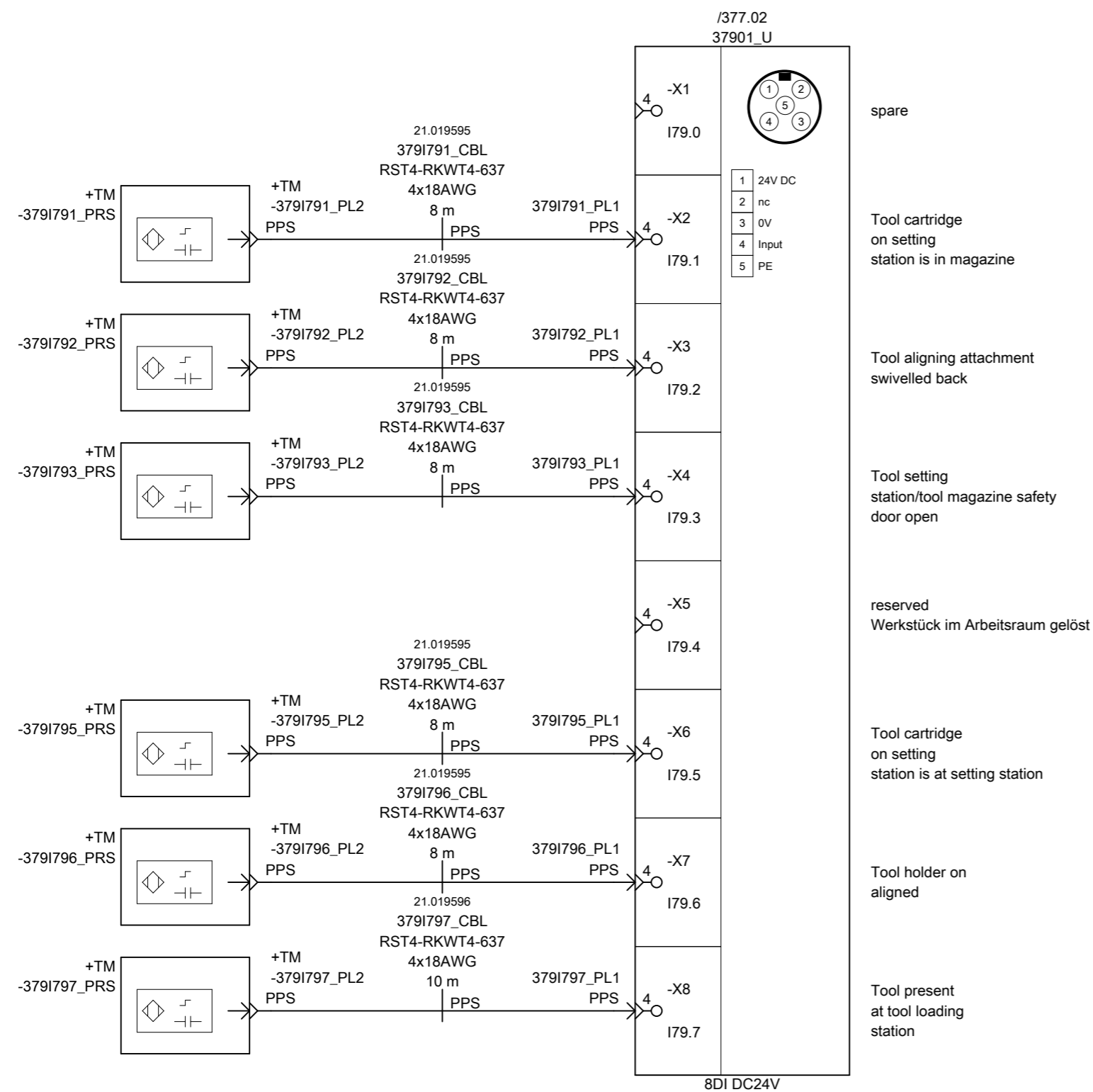
----- HZPR -----



spare
Tool loading station/tool magazine safety door release clamping
Swivel back tool aligning attachment
Align tool holder
Close tool setting station/tool magazine safety door
Open tool setting station/tool magazine safety door
Tool cartridge on setting station to tool magazine
Tool cartridge on setting station to setting station

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q78.0 - Q78.7				Inv.No.	
ePLAN P8 2.2.5				=54793	
Number of sheets				265	Sheet 378
◀ 377				Sheet	379

HZPR



Reserve
I/Q80.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
I79.0 - I79.7 I/Q80.0 - I/Q80.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 379
				378	Sheet	380

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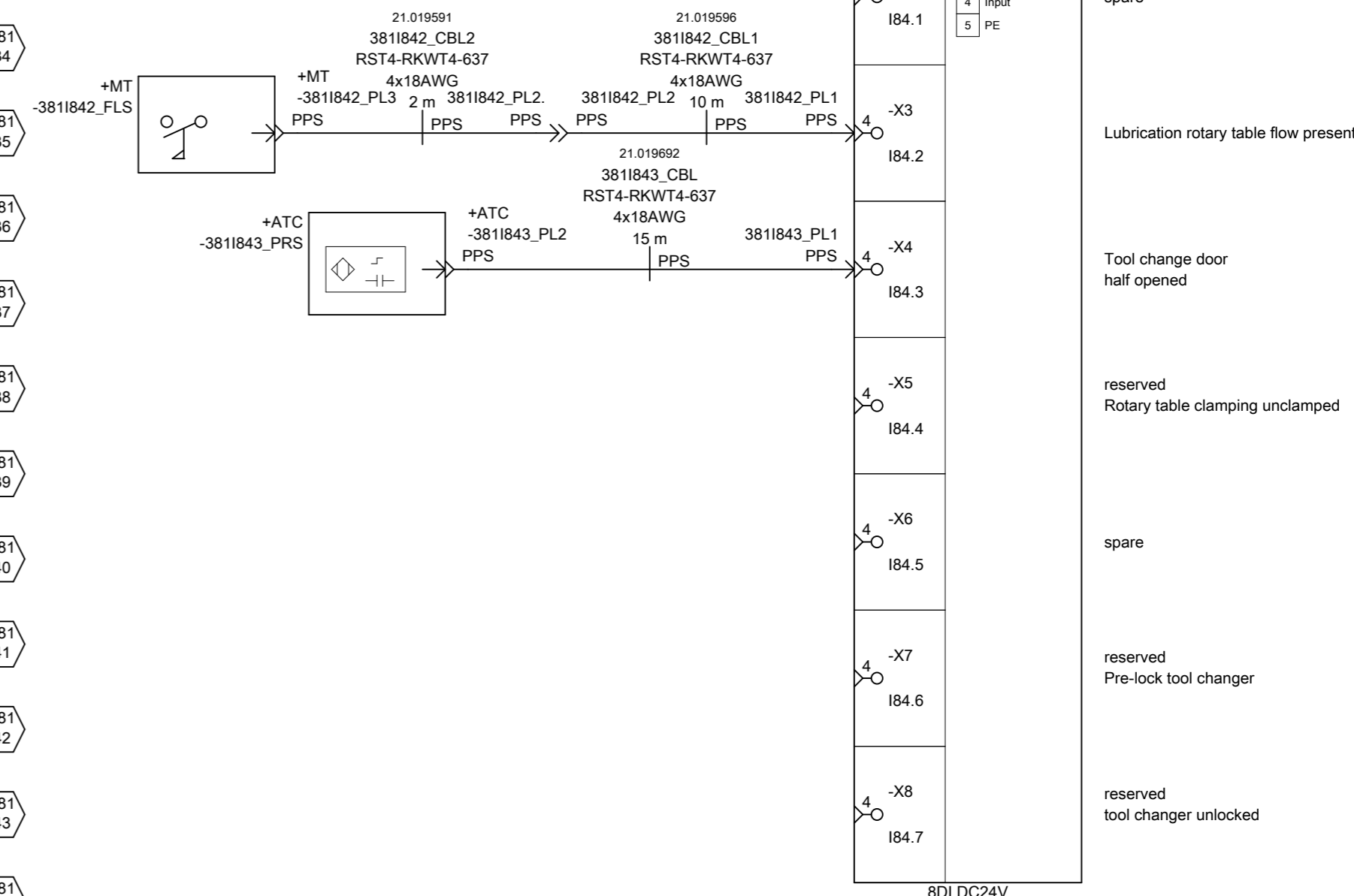
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----- **MSK** -----
 Reserve
 Q81.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	05.08.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
I/Q81.0 - I/Q81.7 I/Q82.0 - I/Q82.7				Number of sheets 265 Sheet 380	
ePLAN P8 2.2.5		=54793		◀ 379 Sheet 381 ▶	

Reserve
I/Q83.x



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
I/Q83.0 - I/Q83.7 I84.0 - I84.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 381

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Reserve
I/Q85.x

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Reserve
I/Q86.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
I/Q85.0 - I/Q85.7 I/Q86.0 - I86.7				Number of sheets	
ePLAN P8 2.2.5 =54793				265	Sheet 382
				381	Sheet 384

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Reserve
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Reserve
I/Q88.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
I/Q87.0 - I/Q87.7 I/Q88.0 - I88.7				Number of sheets	
ePLAN P8 2.2.5				=54793	265
				382	384
				Sheet	385

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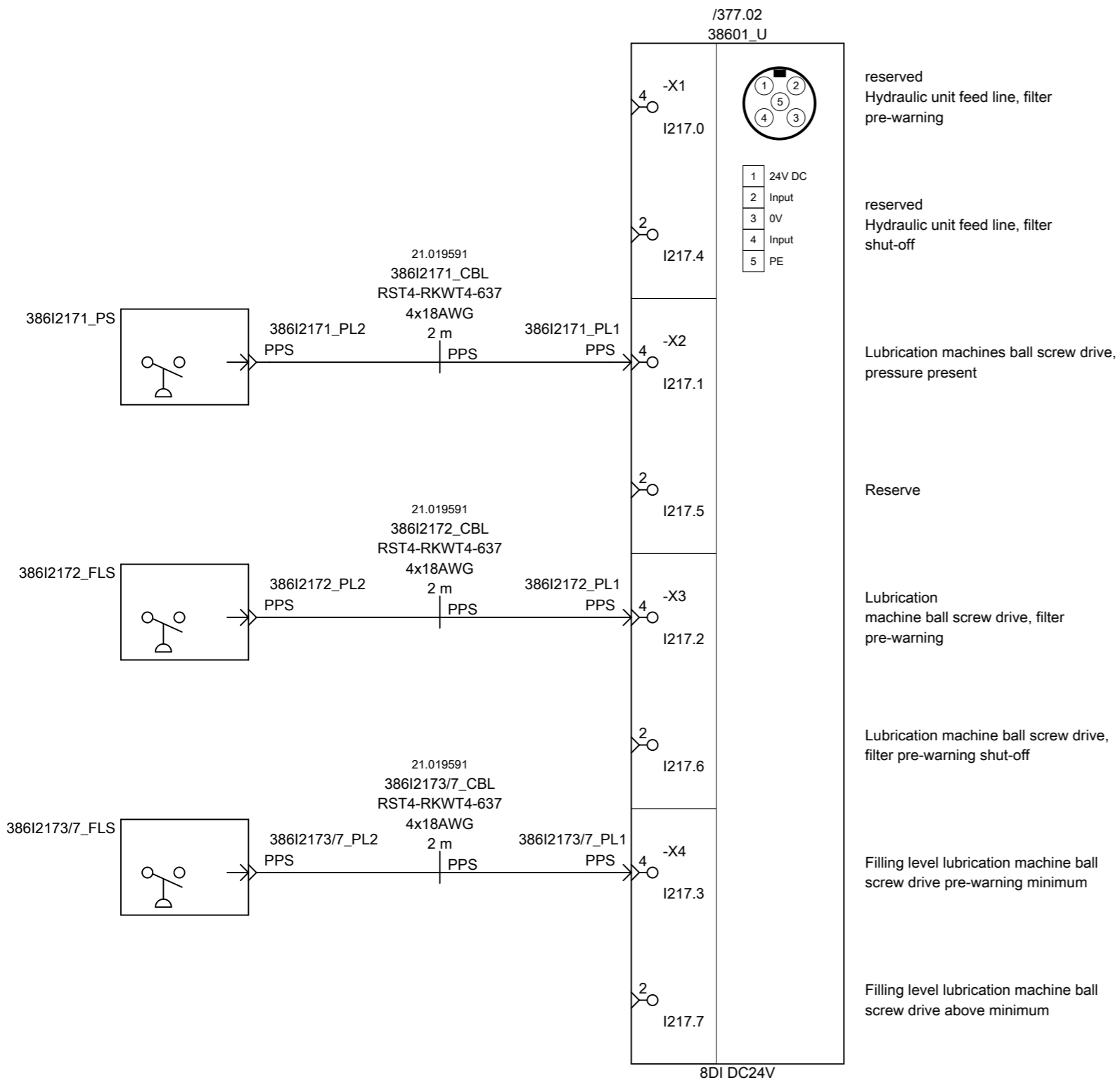
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Reserve
Q90.0 - 7

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	15.09.2015	AHP3/GMI		Inv.No.	
I/Q89.0 - I/Q89.7 Q90.0 - Q90.7				Number of sheets	
ePLAN P8 2.2.5				265	Sheet
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				385	386

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	15.07.2015	AHP3/EWD				
I217.0 - I217.7 I218.0 - I218.7				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 386
				385	Sheet	387

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Reserve
I/Q93.x

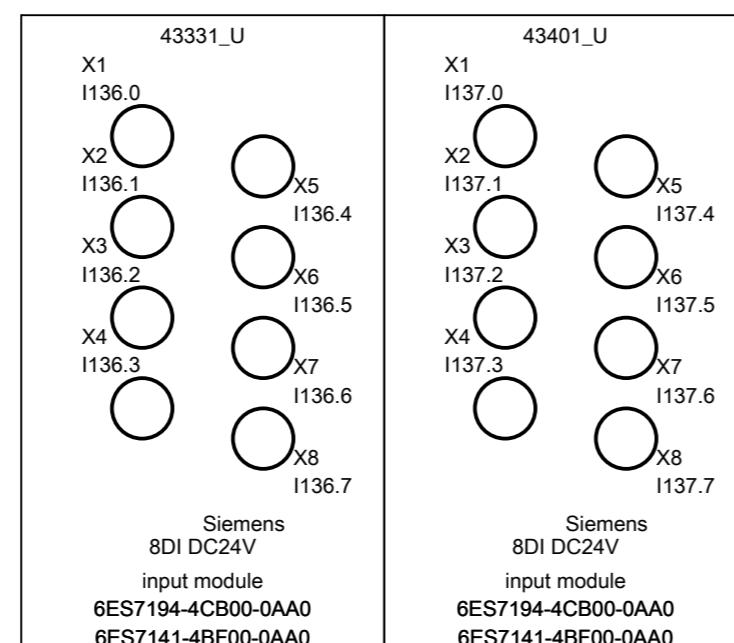
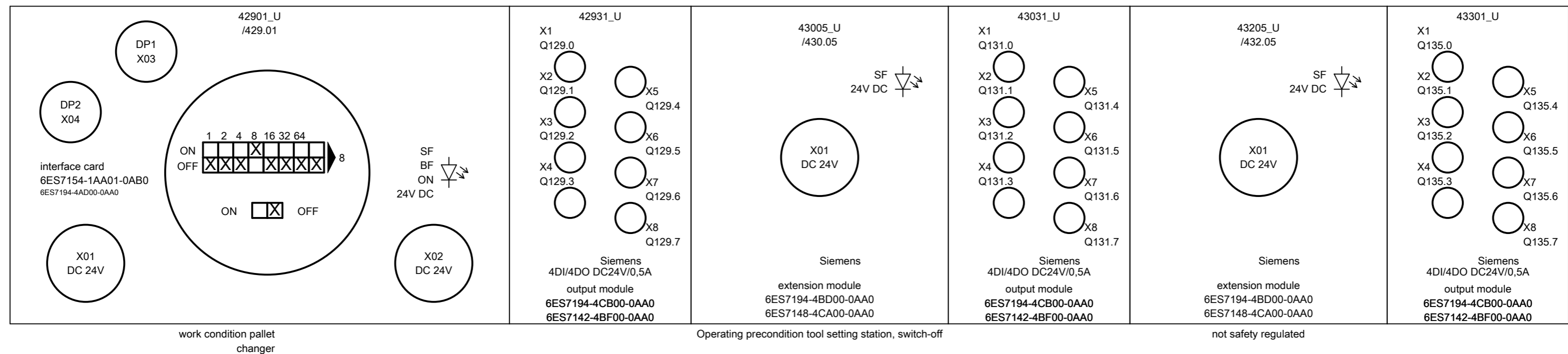
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
I/Q90.0 - I/Q90.7							
ePLAN P8 2.2.5				=54793		Number of sheets 265	
				◀ 386		Sheet 387	

Reserve
page 388-427

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	16.07.2015	AHP3/EWD		Inv.No.	
Reserve page 388-427				Number of sheets 265 Sheet 388	
ePLAN P8 2.2.5		=54793		◀ 387 Sheet ▶ +H2/428	

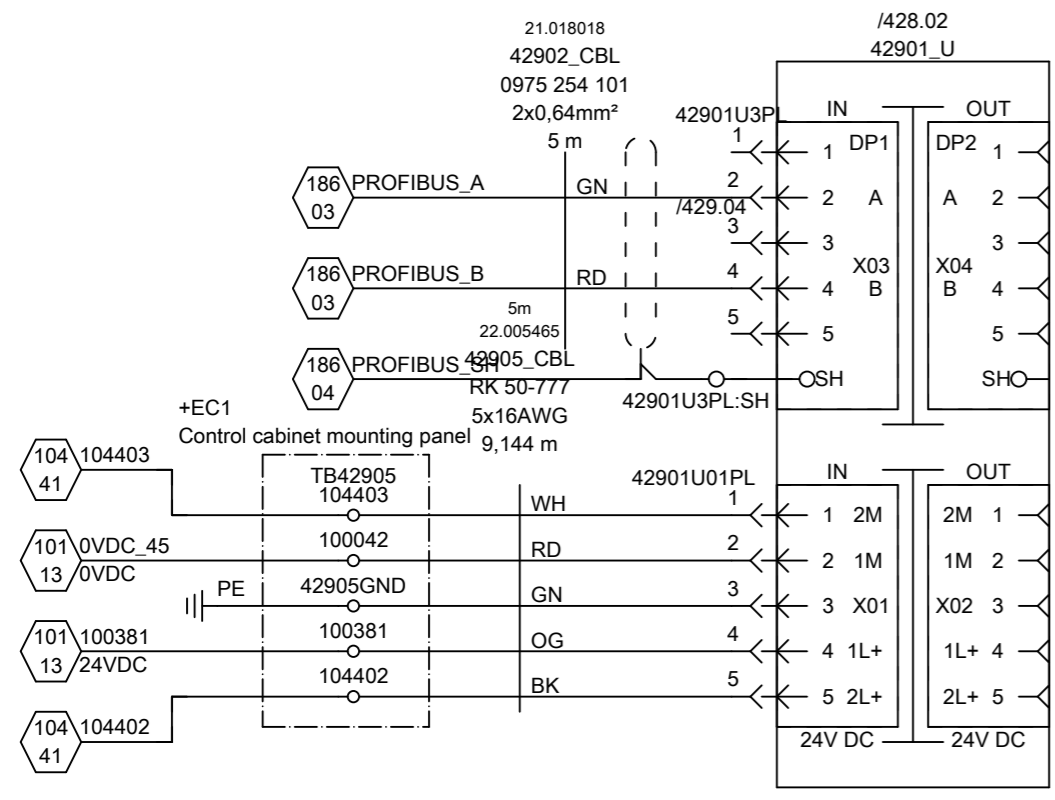
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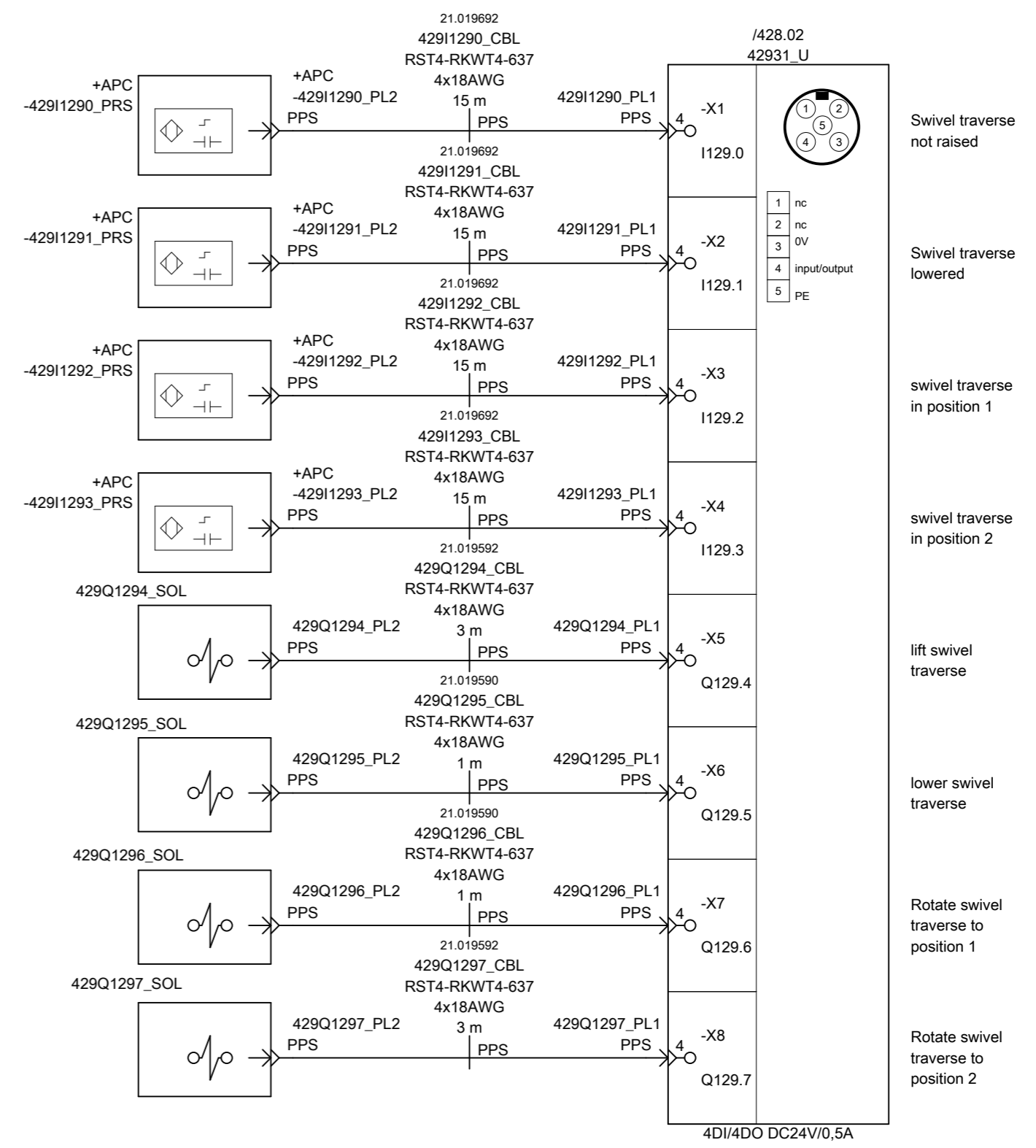
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of inputs/outputs, HELP 2				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 428	
=54793				+H1/388 Sheet 429	

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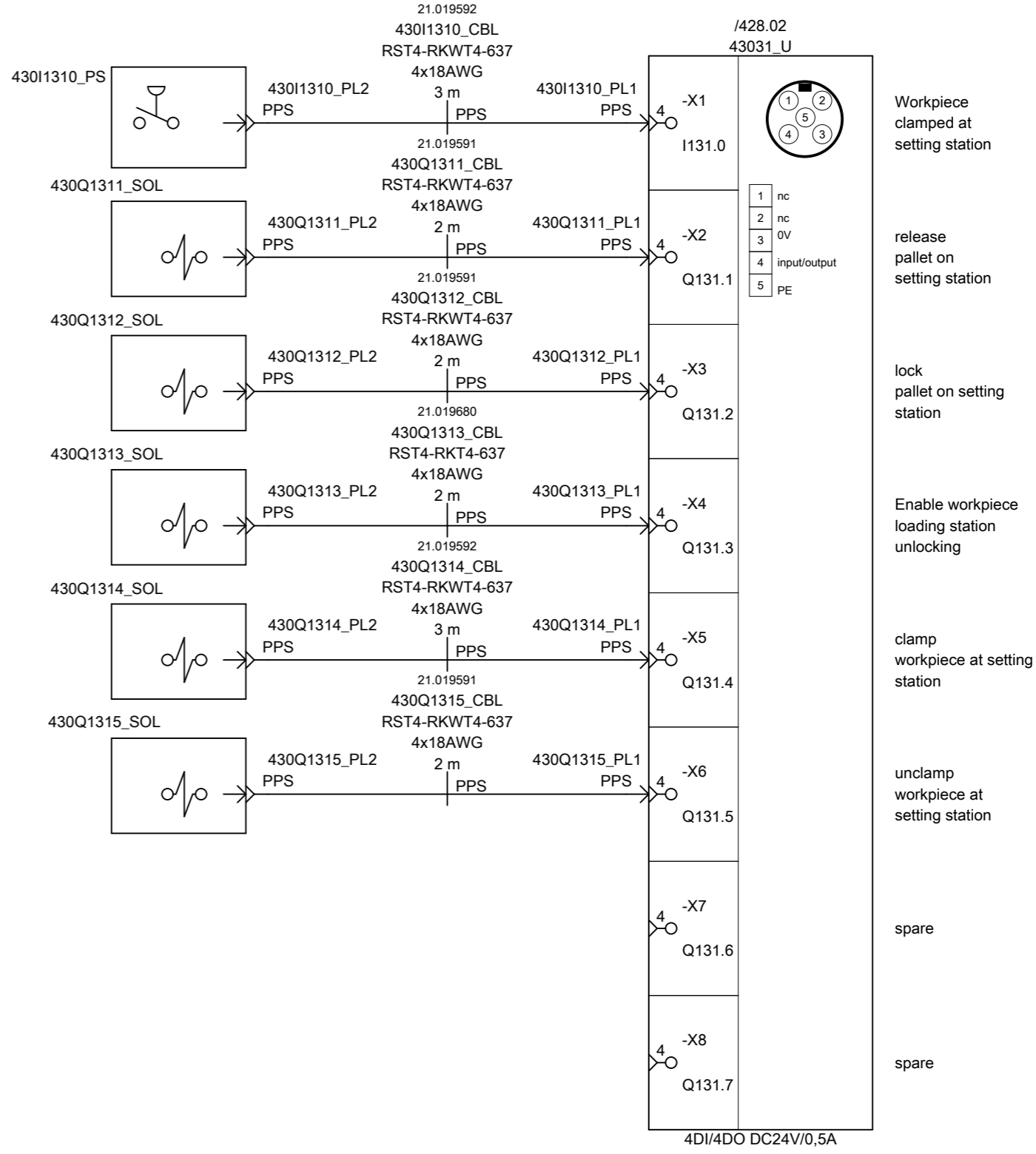
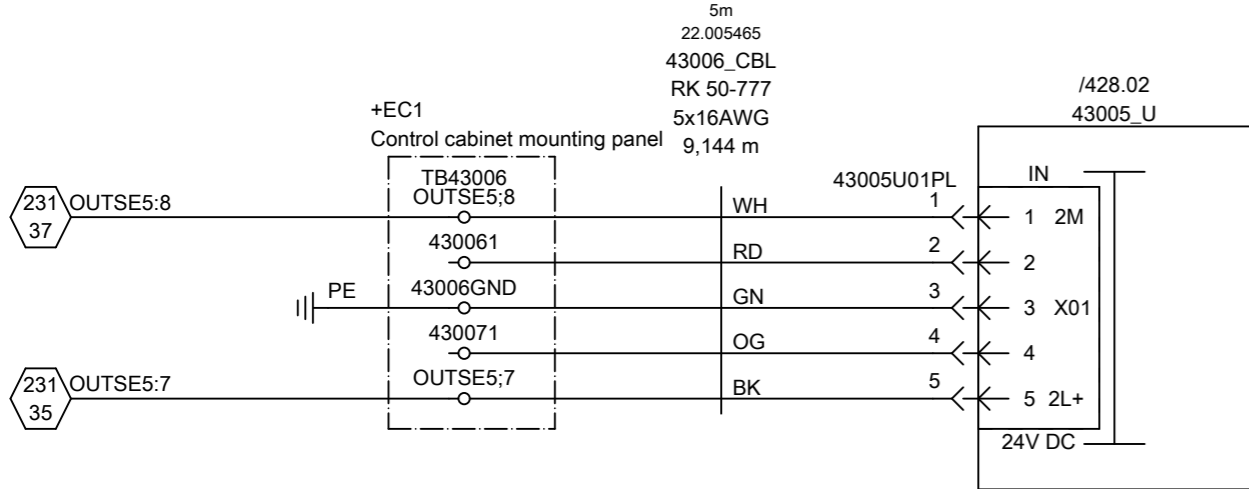
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	02.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I/Q129.0 - I/Q129.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 429	
=54793				428 Sheet 430	

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Workpiece clamped at setting station

release pallet on setting station

lock pallet on setting station

Enable workpiece loading station unlocking

clamp workpiece at setting station

unclamp workpiece at setting station

spare

spare

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I/Q131.0 - I/Q131.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 430	
=54793				429 Sheet 431	

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Reserve
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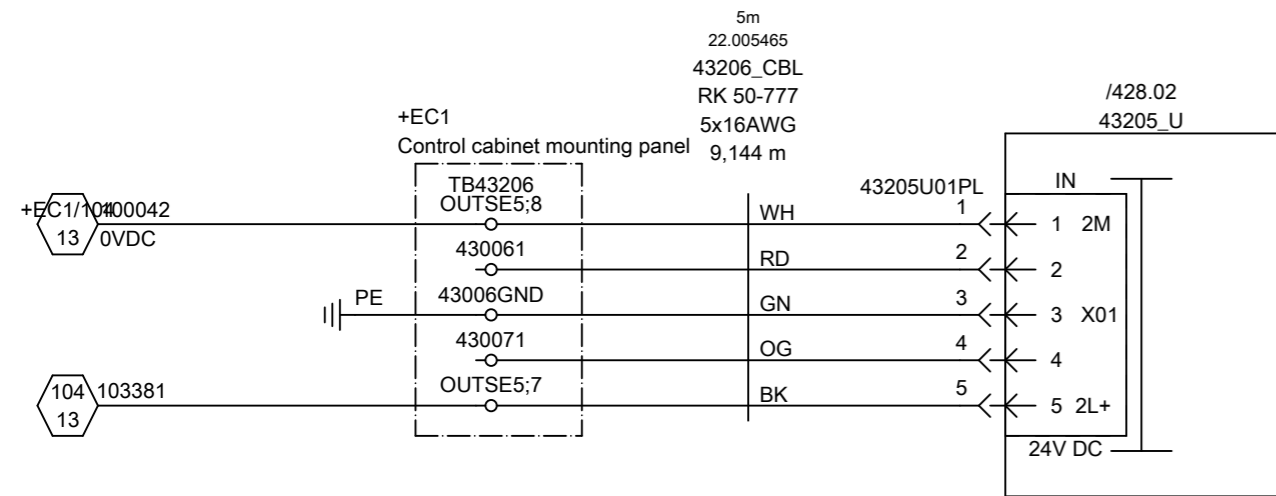
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I/Q132.x I/Q133.0 -I/Q133.7				Number of sheets 265 Sheet 431	
ePLAN P8 2.2.5		=54793		◀ 430 Sheet 432 ▶	

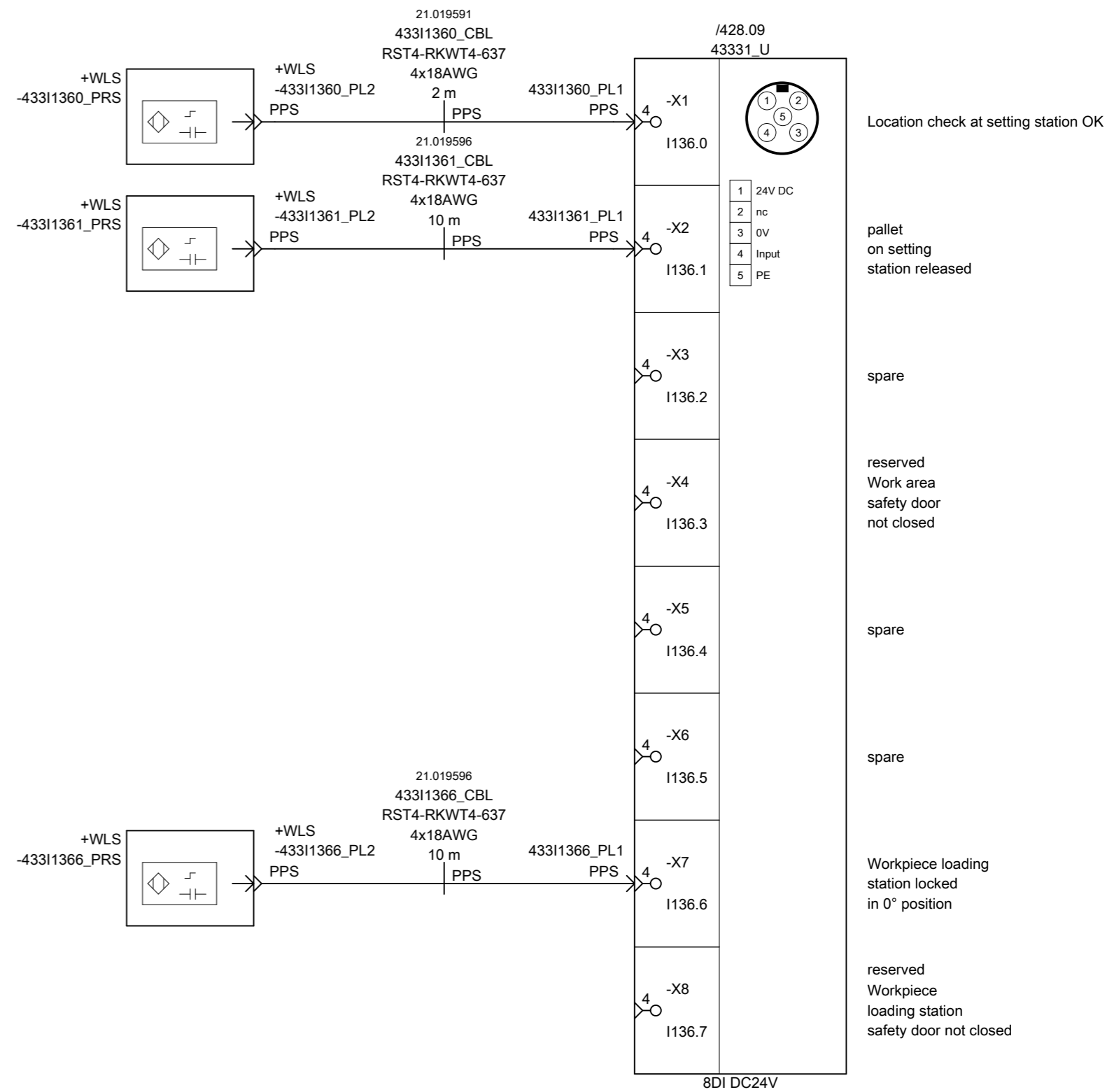
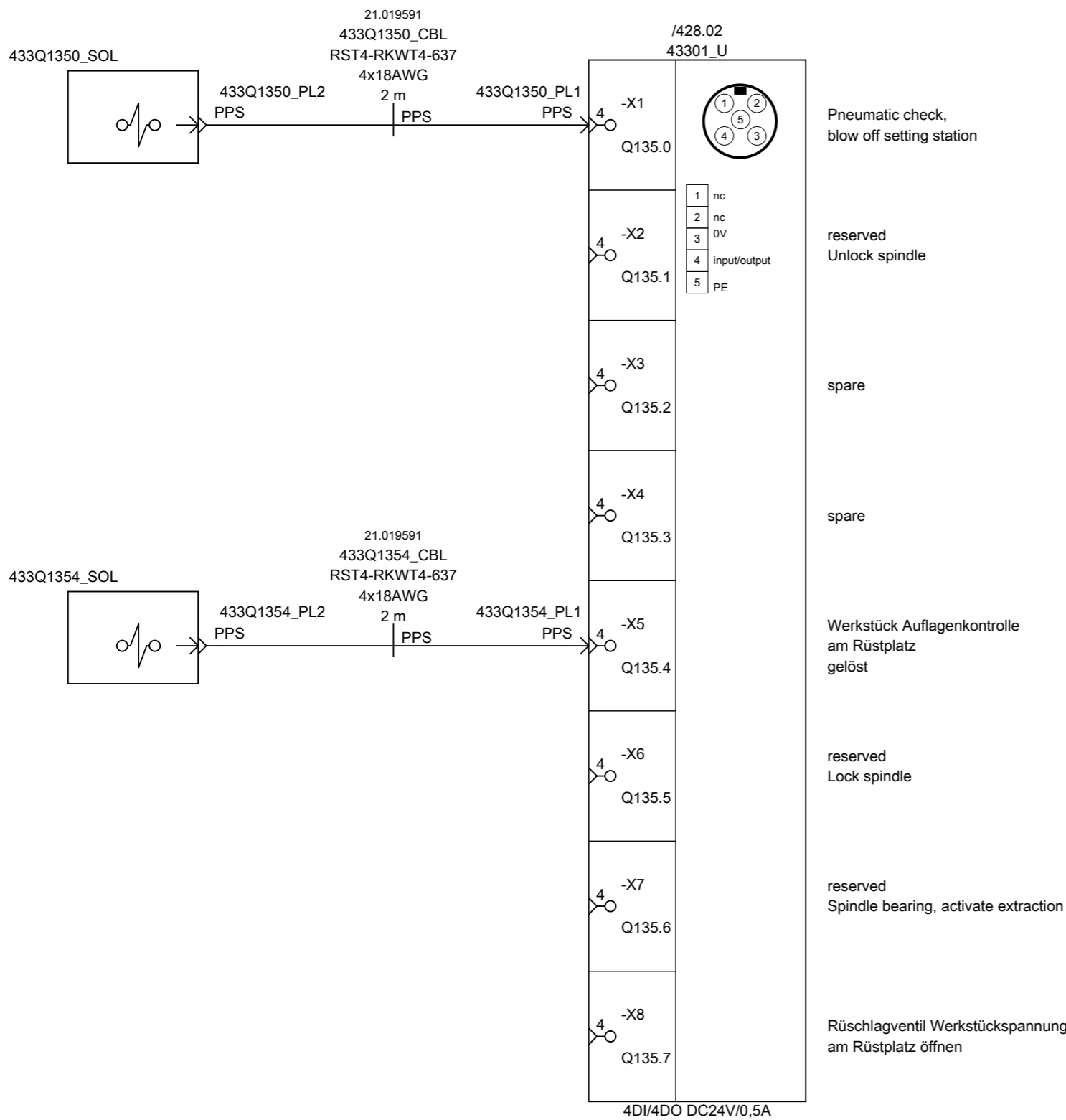
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Reserve
I/Q134.x

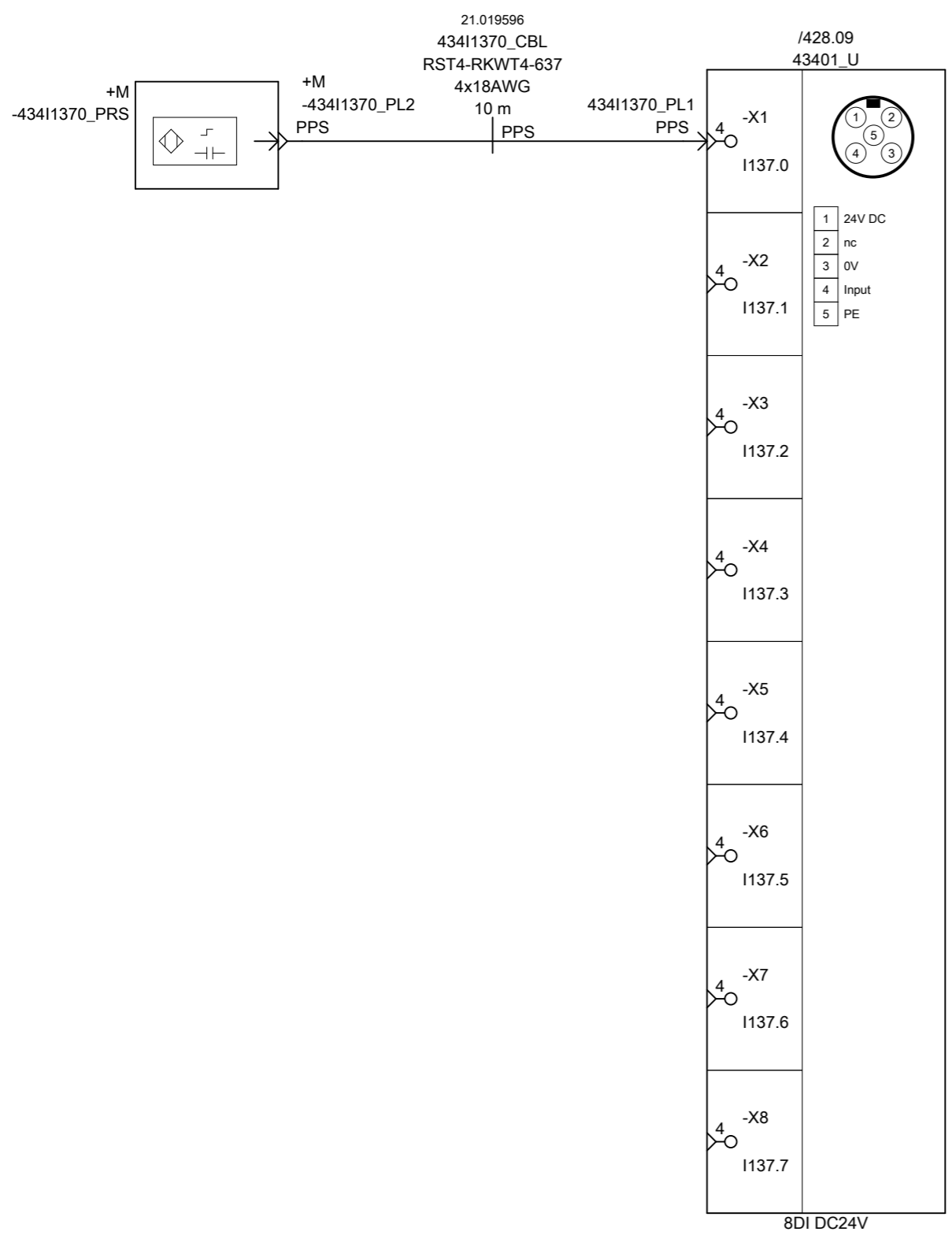
Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.09.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Reserve I/Q134.x				Inv.No.		
ePLAN P8 2.2.5				=54793	Number of sheets 265	Sheet 432
				431	Sheet	433



Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q135.0 - Q135.7 Reserve I136.0 - I136.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 433	
=54793				432 Sheet 434	

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Spiral conveyor, operating side, function check

reserved
Workpiece loading station safety door operator side not closed

reserved
Spindle locked

reserved
Spindle bearing exhaust, low pressure existing

reserved
Spiral conveyor at maintenance side, function check

reserved
Pallet on rotary table clamped

reserved
Spindle unlocked

reserved
Pallet location at workpiece loading station OK

Reserve
I/Q138.x

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK			H 10000 MC				
CHANGE	24.10.2016	AHP3/RIG					
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I/Q137.x I/Q138.x							
ePLAN P8 2.2.5				=54793	433	Sheet	435

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Workpiece clamping
pressure set point value at work area

Workpiece clamping
pressure set point value at setting station

Reserve
QW324 - QW330

Workpiece clamping
pressure actual value at work area

Workpiece clamping
pressure actual value at loading station

Reserve
IW332 - IW338

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve QW324 - QW330 IW332 - IW338				Number of sheets 265 Sheet 435	
ePLAN P8 2.2.5		=54793		434	Sheet 436

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Reserve
IW340 - IW346

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Reserve
IW348 - IW354

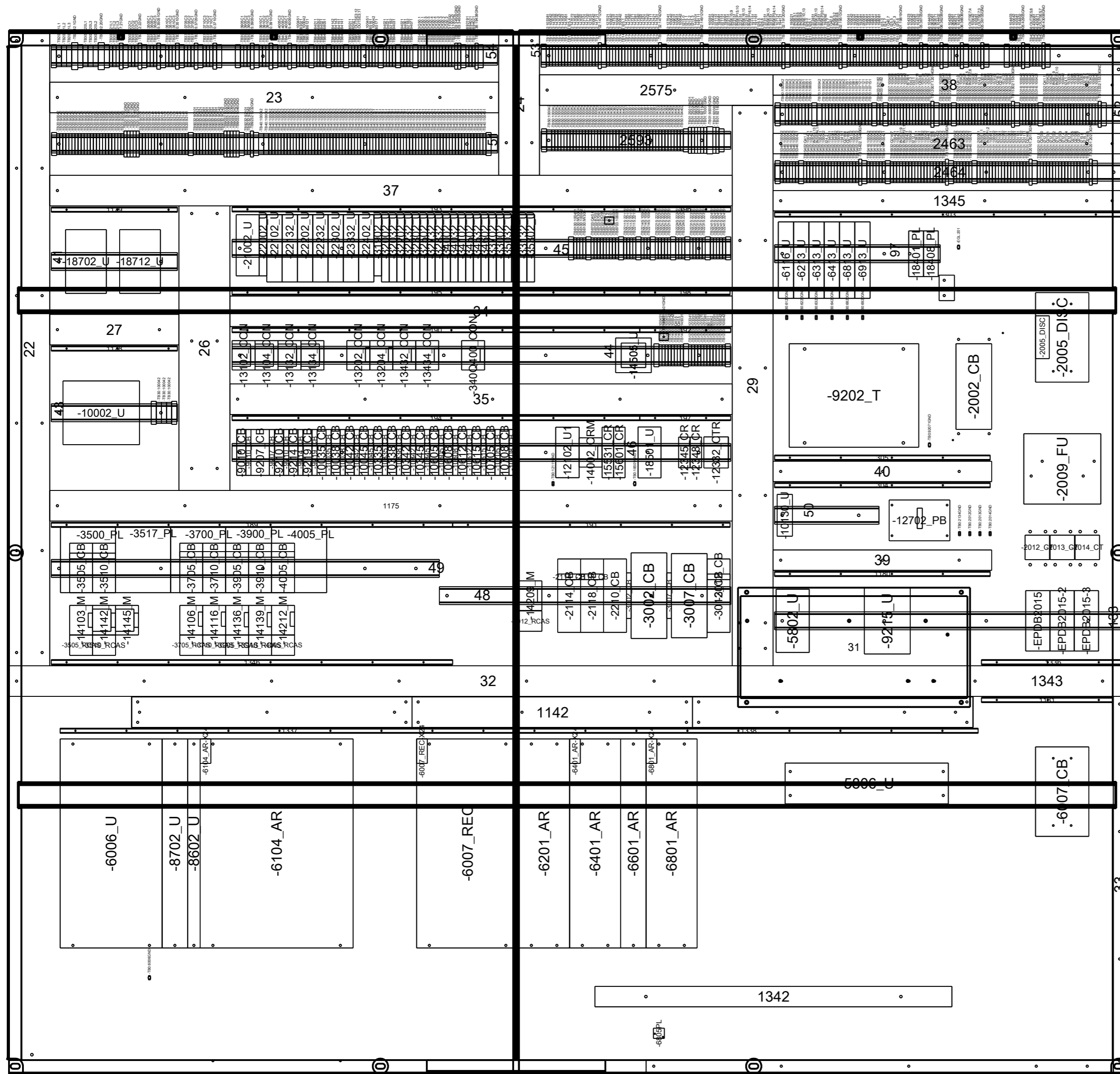
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
IW340 - IW346				Number of sheets			
ePLAN P8 2.2.5				=54793	265	Sheet	436
				435	Sheet	437	

Reserve
page 437 - 499

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 437-499				Number of sheets 265 Sheet 437	
ePLAN P8 2.2.5		=54793	436		Sheet +H/700

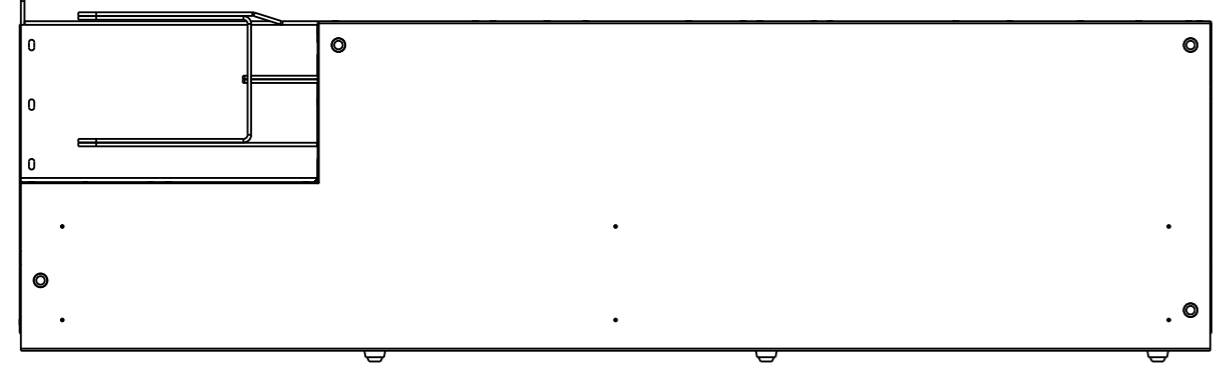
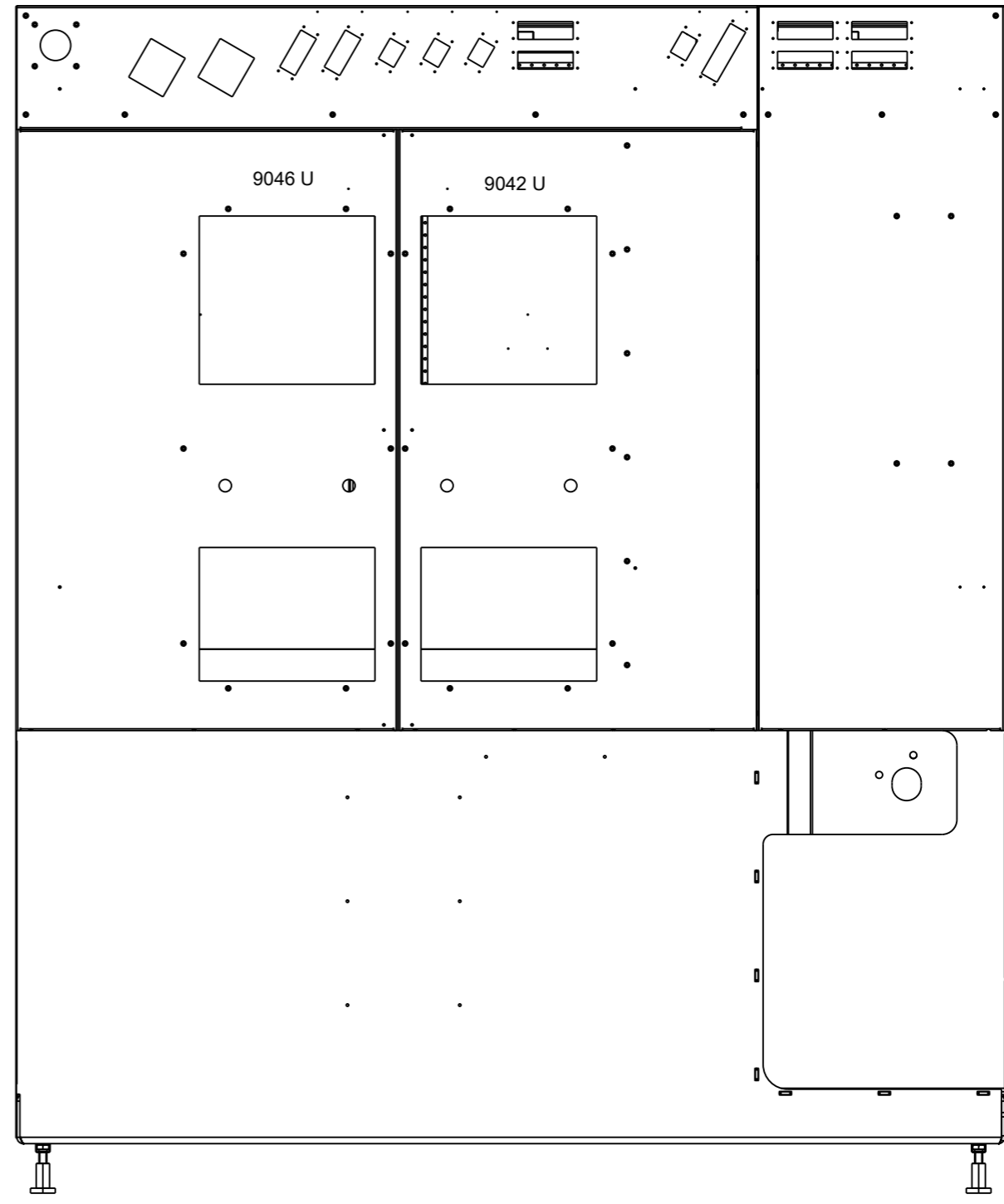
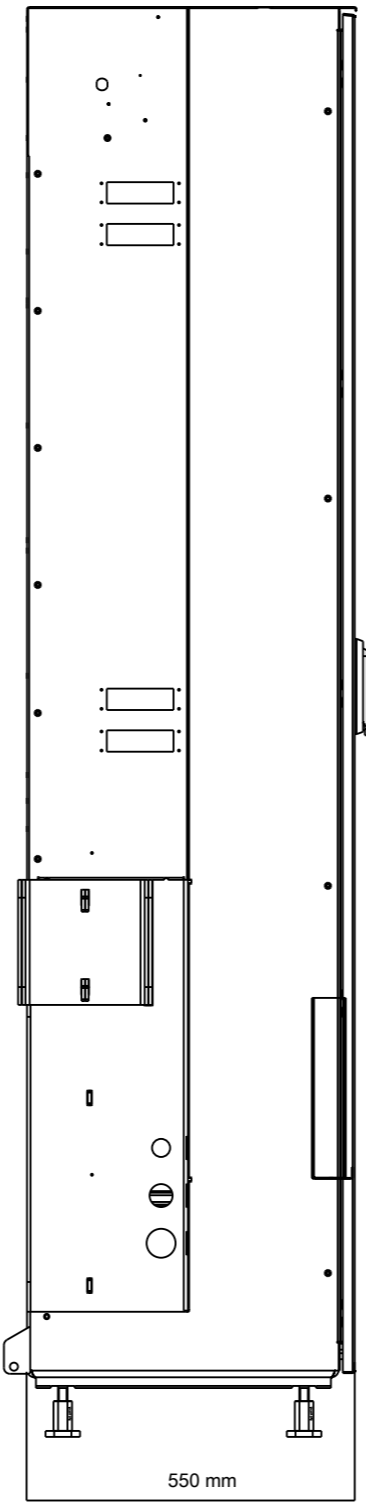
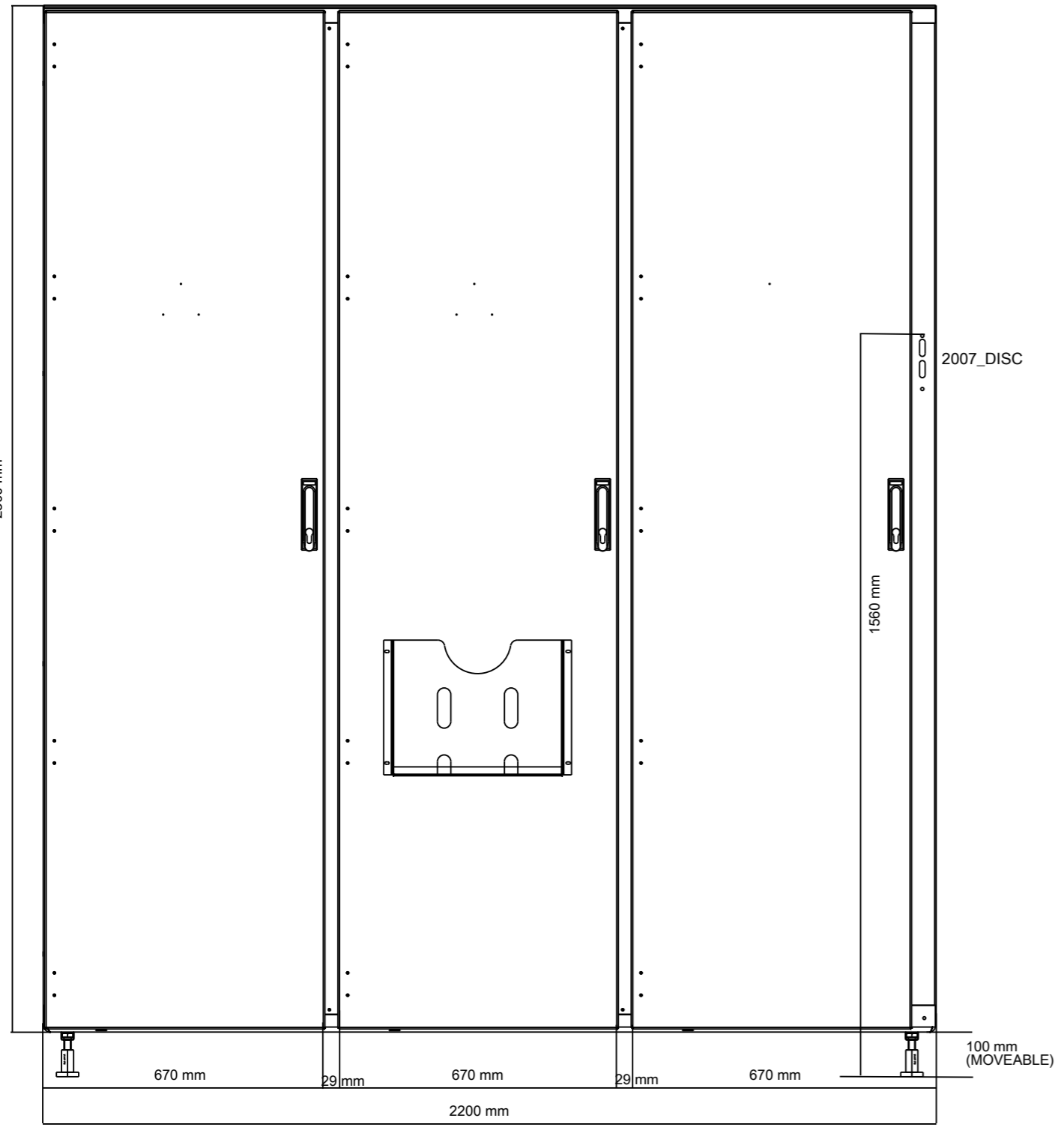
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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	07.06.2016	OE1/SMC	H 10000 MC		
DRAWN	07.06.2016	OE1/SMC			
Mounting panel structure				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 701	
=54793				+H2/437 Sheet 701	

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Project description P-009084				Project JIC_EP05479300 Machine serial number M54793		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	22.03.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Control cabinet housing				Inv.No.		
ePLAN P8 2.2.5				Number of sheets		
=54793				700	Sheet	702

HEAT CALCULATION

SUPPLIER: _____ HELLER MACHINE TOOLS

CALCULATION PERFORMED BY: _____ AHP3/ewd

DATE: _____ 14/07/21

TELEPHONE NUMBER: _____ +49 (7022) 77-1596

CONTROL PANEL NUMBER (NAME): _____

1A. GROSS SHEET METAL SURFACE AREA _____ 79.81 (ft²)

1B. AREA CONSUMED BY SURFACE DEVICES
OR BLOCKED FROM AIR FLOW _____ 17,65 (ft²)
NET PANEL SURFACE AREA _____ 62,16 (ft²)

2. PLANT AMBIENT _____ 45 (Celsius)

3. MAXIMUM INTERIOR TEMPERATURE _____ 40 (Celsius)

4. HEAT DISSIPATED BY ENCLOSURE _____ 1552 (BTU/Hr)

5. HEAT GENERATED BY EQUIPMENT _____ 7842 (BTU/Hr)

6. NET HEAT DISSIPATION _____ 9394 (BTU/Hr)

7. HEAT EXCHANGER REQUIRED _____ YES / ~~NO~~

8. HEAT EXCHANGER SIZE _____ 10236 (BTU/Hr)

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	20.01.2016	AHP1/HAS	H 10000 MC		
DRAWN	01.10.2015	AHP3/EWD			
Heat calculation in control cabinet				Inv.No.	
				Number of sheets 265 Sheet 702	
ePLAN P8 2.2.5	=54793			701	Sheet 703

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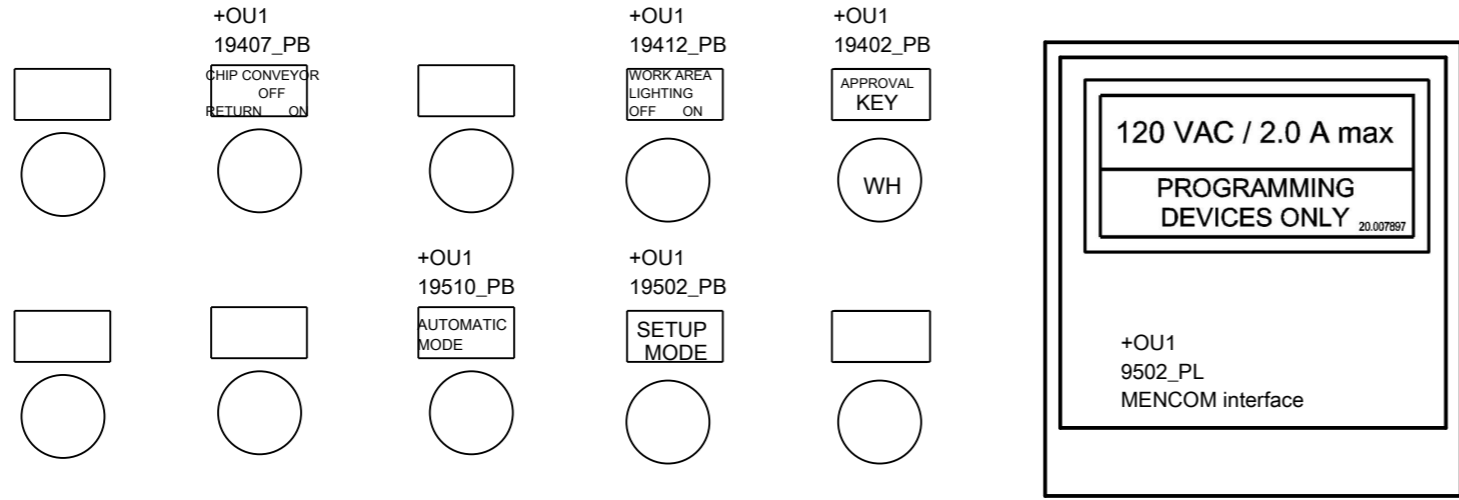
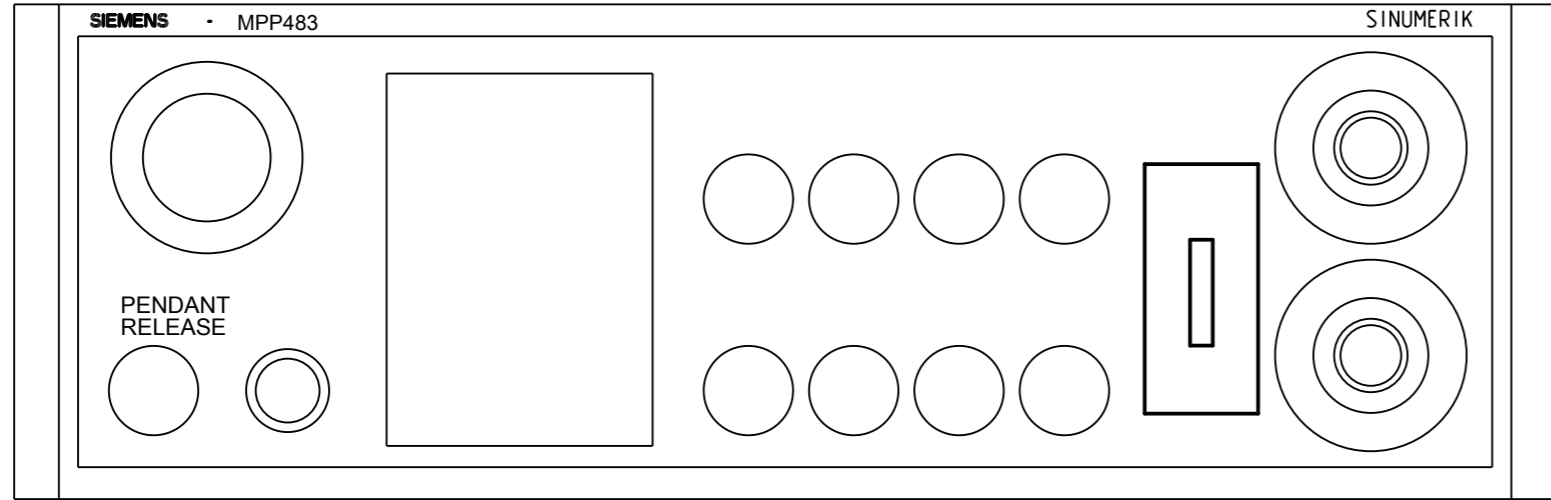
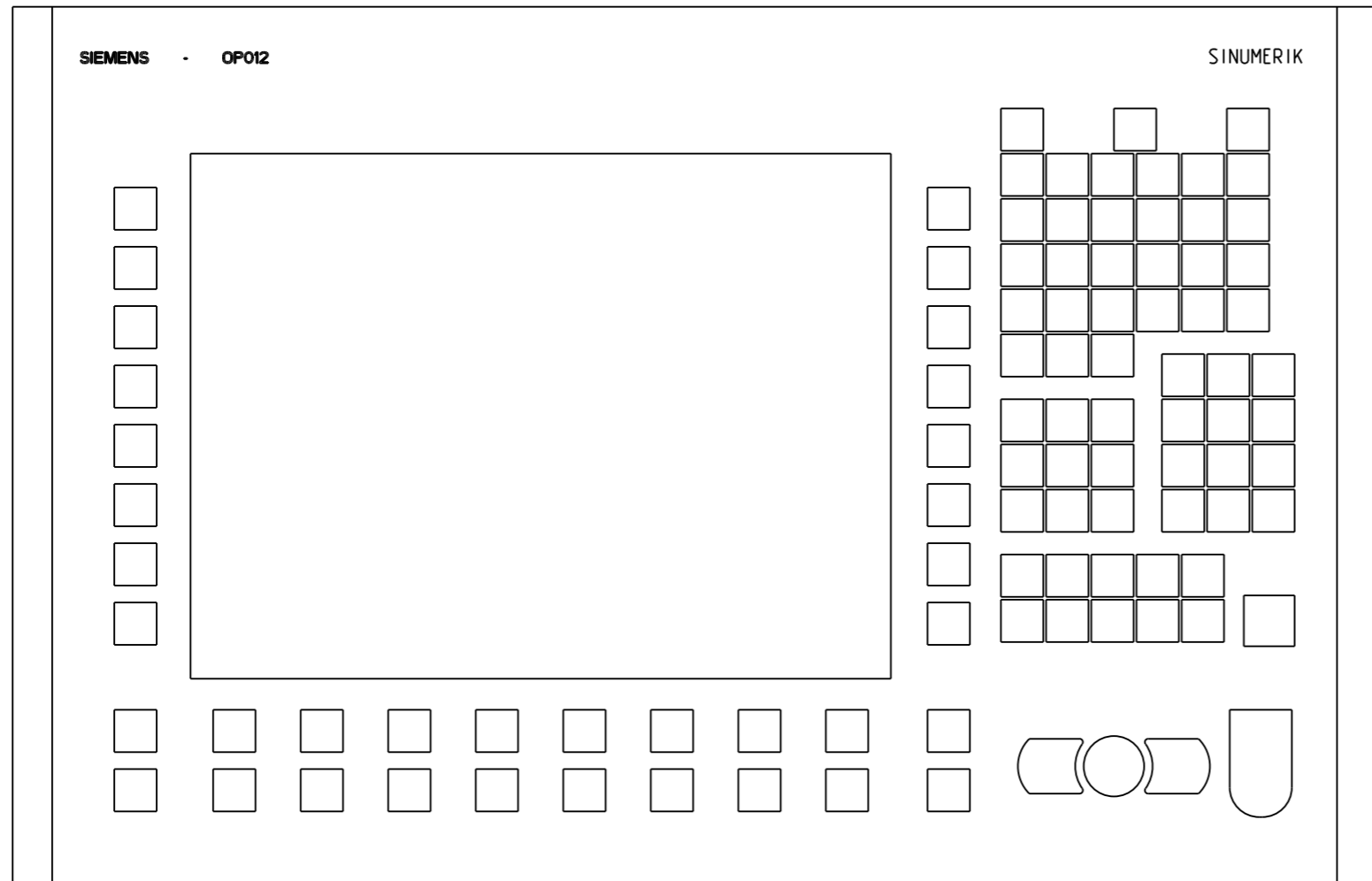
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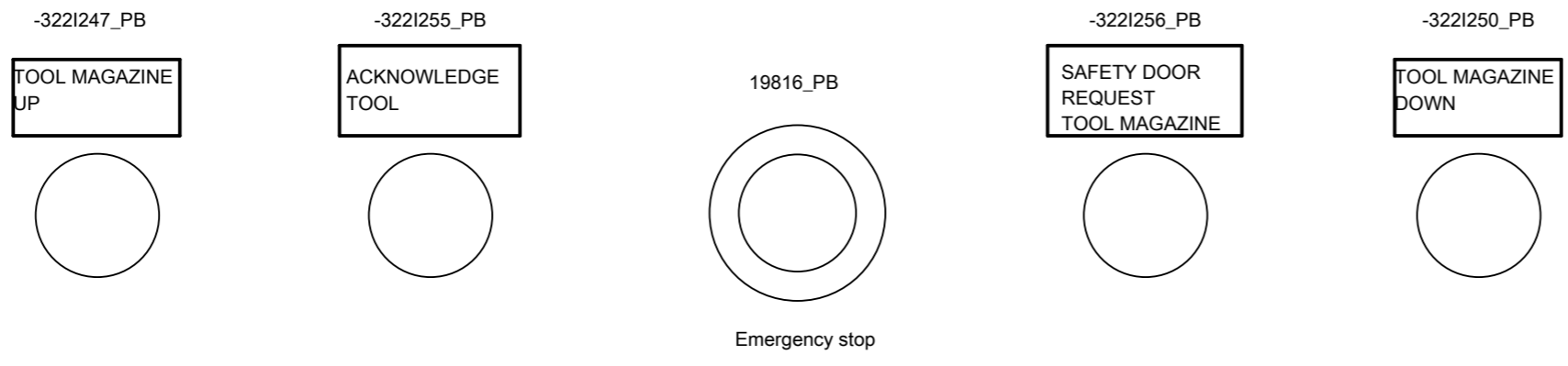
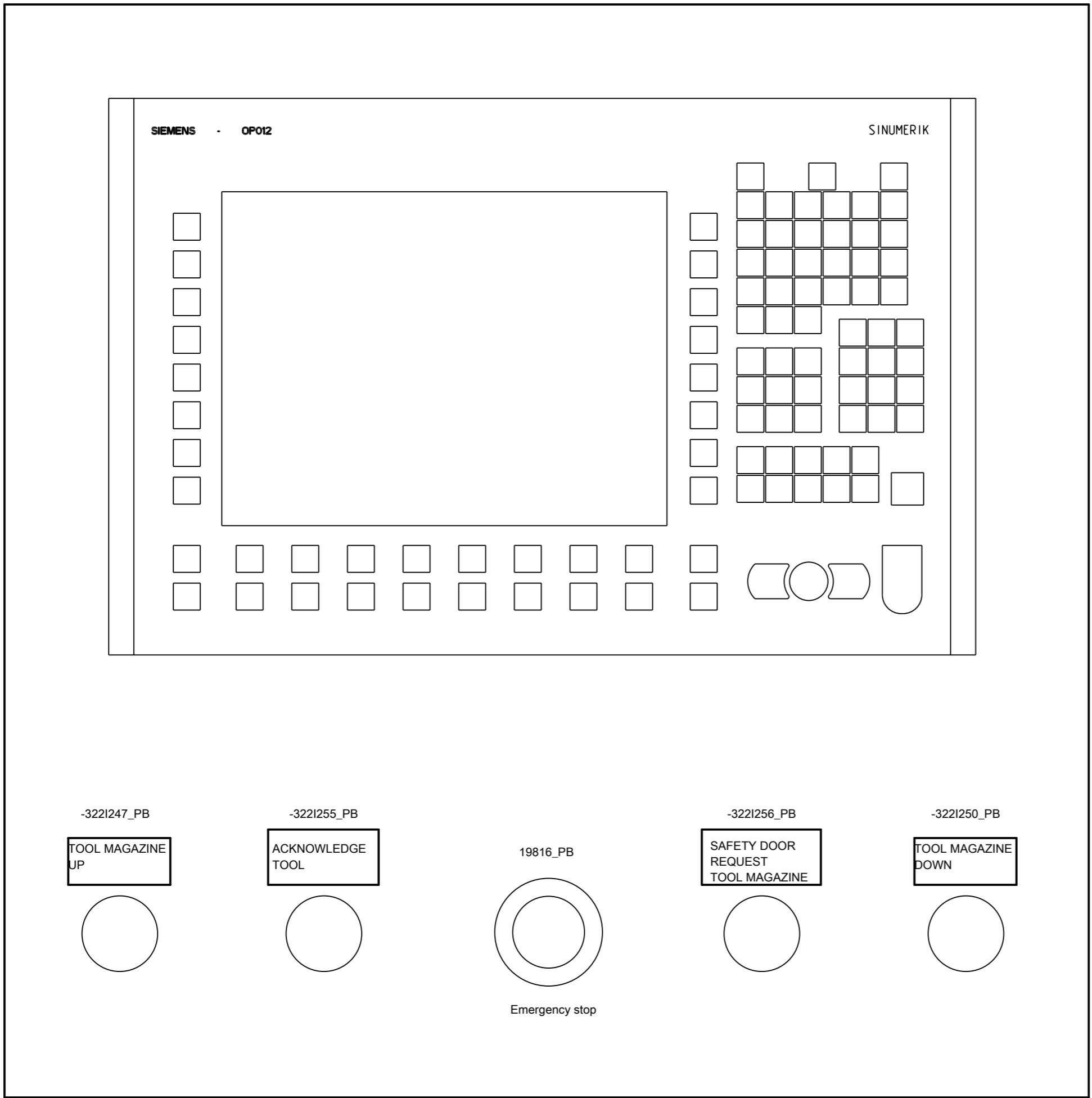
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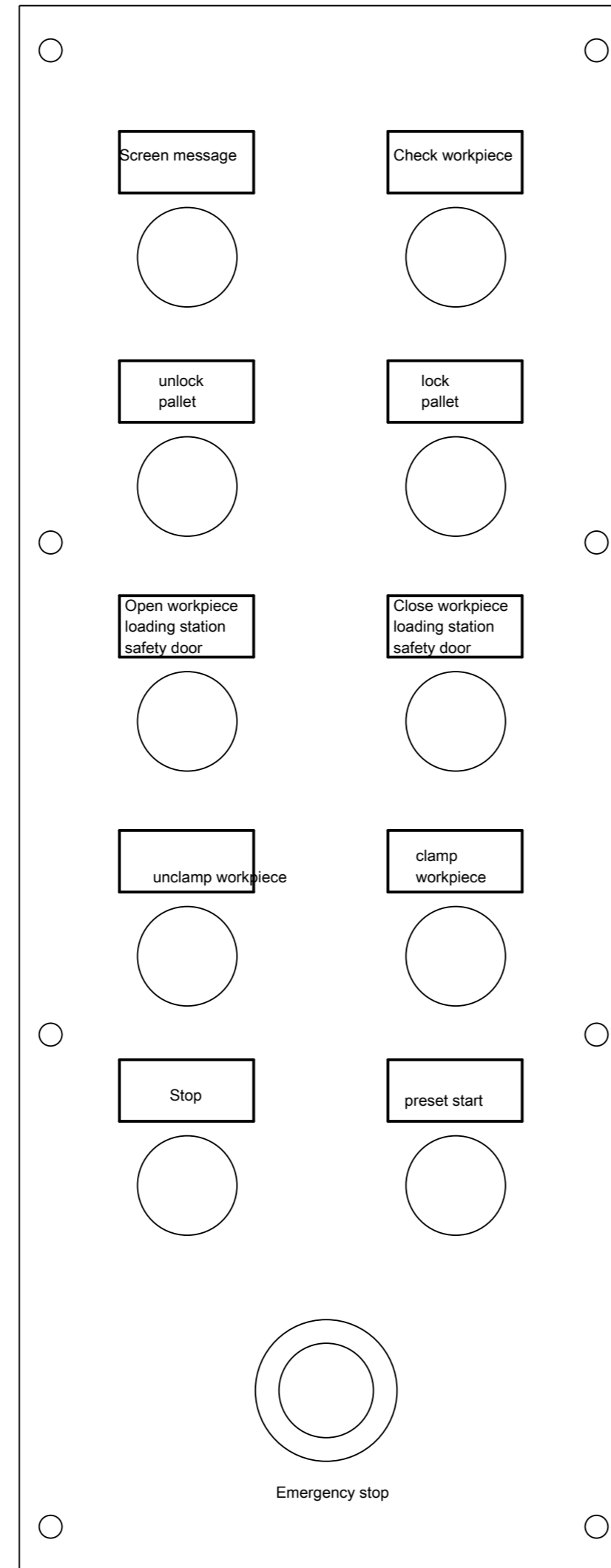
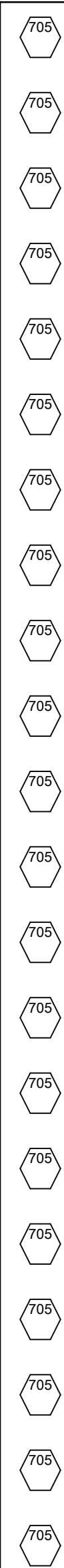


20.008 172

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	22.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Main operating unit OP12				Inv.No.	
				Number of sheets 265 Sheet 703	
ePLAN P8 2.2.5		=54793		702 Sheet 704	




Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.02.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Tool setting station magazine control panel				Number of sheets	
				265	Sheet
ePLAN P8 2.2.5				=54793	703
				Sheet	704





Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	04.04.2016	AHP1/HAS			
DRAWN	22.01.2016	AHP3/RIG		Inv.No.	
Workpiece setting station operator panel				Number of sheets 265 Sheet 705	
ePLAN P8 2.2.5	=54793			704	Sheet 706

Mounted to control cabinet door, next to the main switch, outside


	⚠ CAUTION Risk of Electric Shock
	<p>More than one disconnect switch may be required to de-energize the equipment before servicing.</p> <p>Turn off and lock out all power disconnects before servicing.</p> <p style="text-align: right;">20.007893</p>


	⚠ DANGER Shock and Arc Flash Explosion Hazards
	<p>Will cause severe injury or death</p> <p>Follow ALL requirements in NFPA70E for safe work practices and for Personal Protective Equipment</p> <p style="text-align: right;">20.007894</p>

	⚠ WARNING
	<p>If an overload or a fault current interruption occurs, circuits must be checked to determine the cause of the interruption.</p> <p>If a fault condition exists, the current-carrying components should be examined and replaced if damaged, and the integral current sensors must be replaced to reduce the risk of fire or electric shock.</p> <p style="text-align: right;">20.007895</p>

	⚠ WARNING
	<p>To maintain overcurrent, short-circuit, and ground-fault protection, the manufacturer's instructions for selection of overload and short circuit protection must be followed to reduce the risk of fire or electric shock.</p> <p style="text-align: right;">20.007896</p>

Mounted to control cabinet door, next to the main switch, inside

	NOTICE																			
	<p>TIGHTENING TORQUE FOR FIELD TERMINALS SIEMENS 8WA1</p> <table border="1"> <thead> <tr> <th>Size</th> <th>Screw</th> <th>[N*m]</th> <th>[lb*in]</th> </tr> </thead> <tbody> <tr> <td>2.5</td> <td>M2.5</td> <td>0.5</td> <td>4.5</td> </tr> <tr> <td>4</td> <td>M3</td> <td>0.5</td> <td>4.5</td> </tr> <tr> <td>6</td> <td>M3.5</td> <td>0.8</td> <td>7.0</td> </tr> <tr> <td>16</td> <td>M4</td> <td>1.2</td> <td>10.5</td> </tr> </tbody> </table> <p style="text-align: right;">20.007898</p>	Size	Screw	[N*m]	[lb*in]	2.5	M2.5	0.5	4.5	4	M3	0.5	4.5	6	M3.5	0.8	7.0	16	M4	1.2
Size	Screw	[N*m]	[lb*in]																	
2.5	M2.5	0.5	4.5																	
4	M3	0.5	4.5																	
6	M3.5	0.8	7.0																	
16	M4	1.2	10.5																	

	NOTICE																	
	<p>TIGHTENING TORQUE FOR POWER TERMINALS AT DRIVES</p> <table border="1"> <thead> <tr> <th>6SN1123x-1Ax00-</th> <th>[N*m]</th> <th>[lb*in]</th> </tr> </thead> <tbody> <tr> <td>0AA0x</td> <td>0.7</td> <td>6.2</td> </tr> <tr> <td>0CA0x</td> <td>0.7</td> <td>6.2</td> </tr> <tr> <td>0DA0x</td> <td>1.8</td> <td>16.0</td> </tr> <tr> <td>0EA0x</td> <td>8.0</td> <td>70.0</td> </tr> <tr> <td>0FA0x</td> <td>20.0</td> <td>177.0</td> </tr> </tbody> </table> <p style="text-align: right;">20.007899</p>	6SN1123x-1Ax00-	[N*m]	[lb*in]	0AA0x	0.7	6.2	0CA0x	0.7	6.2	0DA0x	1.8	16.0	0EA0x	8.0	70.0	0FA0x	20.0
6SN1123x-1Ax00-	[N*m]	[lb*in]																
0AA0x	0.7	6.2																
0CA0x	0.7	6.2																
0DA0x	1.8	16.0																
0EA0x	8.0	70.0																
0FA0x	20.0	177.0																

Mounted to the recirculating station and the emulsion mist extraction unit, outside

	⚠ DANGER
	<p>Hazardous Voltage present</p> <p>Will cause severe injury or death.</p> <p>Follow proper lockout procedures before servicing.</p> <p style="text-align: right;">20.007923</p>

Project description P-009084				Project JIC_EP05479300 Machine serial number M54793	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	05.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	22.03.2016	AHP3/RIG			
Labelling of control cabinet housing				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 265 Sheet 706	
=54793				705 Sheet	