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HELLER	
H 10000 MC	
OEM JOB NO.: M54794	YEAR OF MANUFACT.: 2016
PO NO.: XXXXXXXXX	BRASS TAG NO.: BT P????????? OP NO.: OP10.14
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:	77 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_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Paccar drawings					
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54794	&E	+GI		1	Paccar drawings	12.04.2016	AHP3/RIG
		+GI		2	table of contents	10.08.2016	AHP1/HAS
		+GI		2.a	table of contents	10.08.2016	AHP1/HAS
		+GI		2.b	table of contents	10.08.2016	AHP1/HAS
		+GI		2.c	table of contents	10.08.2016	AHP1/HAS
		+GI		2.d	table of contents	10.08.2016	AHP1/HAS
		+GI		2.e	table of contents	10.08.2016	AHP1/HAS
		+GI		2.f	table of contents	10.08.2016	AHP1/HAS
		+GI		2.g	table of contents	10.08.2016	AHP1/HAS
		+GI		2.h	table of contents	10.08.2016	AHP1/HAS
		+GI		2.i	table of contents	10.08.2016	AHP1/HAS
		+GI		3	Short circuit current rating, evaluation	05.04.2016	AHP3/RIG
		+GI		4	Short circuit current rating, evaluation	12.04.2016	AHP1/HAS
		+GI		5	Short circuit current rating, evaluation	15.03.2016	AHP3/RIG
		+GI		6	Short circuit current rating, evaluation	15.03.2016	AHP3/RIG
		+GI		7	Short circuit current rating, evaluation	12.04.2016	AHP1/HAS
		+GI		8	Reserve page 8-10	15.03.2016	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	12.04.2016	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	15.03.2016	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	04.04.2016	AHP1/HAS
		+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)	10.06.2016	AHP3/RIG

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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54794	&E	+EC1 Control cabinet mounting panel	22		power supply 480V AC (E1)	05.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	23		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	24		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	25		PE distribution	22.03.2016	AHP5/EWD
		+EC1 Control cabinet mounting panel	26		PE distribution options	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	27		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	28		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	29		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	30		Auxiliary drives	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	31		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	32		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	33		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	34		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	35		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	36		Auxiliary drives	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	37		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	38		Auxiliary drives	18.03.2016	AHP3/RIG
		+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	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	58		Safety door drive, workpiece loading station	15.03.2016	AHP3/RIG
		+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	10.06.2016	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	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	65		Drive circuit Z2-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	66		Drive circuit CT1axis	15.06.2016	AHP3/RIG

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54794	&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	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	71		Reserve Drive circuit YM-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	72		Reserve Drive circuit ZM-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	73		Reserve Drive circuit BM-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	74		Reserve Drive circuit BP-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	75		Reserve Drive circuit BR-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	76		Reserve Drive circuit U-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	77		reserve drive circuit C-axis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	78		Reserve drive switching	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	79		Drive circuit Voltage Sensing Module	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	80		Reserve Drive circuit, temperature evaluation, F-series torque motor	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	81		Reserve Drive circuit, external encoder evaluation (measuring scales), Fanuc only	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	82		Reserve HPC/PSC gear shifting	15.03.2016	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	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	85		Unclamp tool in spindle	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	86		Expansion assembly NC	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	87		Drive circuit NC	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	88		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	89		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	90		power supply 120V AC	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	91		Temperature display Rittal reserve 120V AC supply	09.06.2016	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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54794	&E	+EC1 Control cabinet mounting panel	94		power supply 120V AC	27.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	95		MENCOM - interface	10.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	96		Reserve page 96-99	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	100		power supply 24V DC	09.06.2016	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	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	103		power supply 24V DC	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	104		power supply 24V DC	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	105		power supply 24V DC	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	106		power supply 24V DC	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	107		power supply 24V DC options	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	108		Reserve page 108-119	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	120		measuring probe	02.06.2016	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	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	124		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	125		Vibration analysis	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	126		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	127		Control cabinet door lock	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	128		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	129		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	130		Reserve	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	131		work condition emergency stop/work area	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	132		work condition workpiece handling	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	133		Reserve operating precondition	15.03.2016	AHP3/RIG
		+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_EP05479400 Machine serial number M54802	
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54794	&E	+EC1	Control cabinet mounting panel	135	Reserve Operating precondition, pallet changer, rotary magazine, rotary magazine, rotary plate	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	136	work condition external loading	18.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	137	work condition external loading	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	138	Reserve page 137-139	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	140	Master Relais	04.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	141	Controls	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	142	Controls	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	143	Two-handed operation tool magazine	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	144	Reserve page 144 selection	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	145	Volume sensor for pallet clamping check	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	146	Volume sensor, attachment head clamping, interface adapter	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	147	Interface coolant system, interface cooling unit	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	148	Volume sensor, spindle extension	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	149	Reserve Interface for coolant mist extraction unit	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	150	Reserve Interface for coolant mist extraction unit	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	151	Reserve Minimal quantity lubrication interface	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	152	Rack-type magazine measurement	15.03.2016	AHP3/RIG
		+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	15.03.2016	AHP3/RIG
		+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)	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	158	Safety door loading top loader	04.04.2016	AHP1/HAS
		+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	15.03.2016	AHP3/RIG

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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54794	&E	+EC1	Control cabinet mounting panel	164	Rear wall maintenance door maintenance door media supply	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	165	Reserve	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	166	Tool drawer 1 + 2, rack-type tool magazine	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	167	Reserve page 167-169	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	170	Interface external loading	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	171	Reserve page 171	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	172	Emergency stop to external loading	18.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	173	Safety door work area/workpiece setting station to external loading	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	174	Loading safety door	18.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	175	Profibus DP external loading	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	176	Reserve page 176 - 183	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	184	Patchpanel	13.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	185	Industrial Ethernet	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	186	Profibus DP Field bus coupling	10.06.2016	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	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	189	Reserve	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	190	Reserve	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	191	OP012/TCU main operating panel	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	192	Machine operating panel, main operating panel	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	193	Machine operating panel, main operating panel	09.06.2016	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	09.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	196	Hand-held operating unit main operating unit	15.03.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	197	Reserve, control panel rear wall media supply	15.03.2016	AHP3/RIG
		+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	15.03.2016	AHP3/RIG

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		+EC1 Control cabinet mounting panel	202		Reserve Workpiece setting station operator panel	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	203		Reserve workpiece loading station operating panel preset start	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	204		Workpiece setting station operator panel	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	205		Workpiece setting station operator panel	15.03.2016	AHP3/RIG
		+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	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	210		Profibus interface	10.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	211		Reserve page 211-218 Profibus-Interface	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	219		Reserve Powermodul 24V DC	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	220		Power module 24V DC	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	221		INSE1 - INSE4 INSE5 - INSE12	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	222		INSE13 - INSE16 INSE17 - INSE20	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	223		INSE21 - INSE24 INSE25 - INSE28	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	224		INSE29 - INSE32	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	225		Reserve page 225-230	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	226		Reserve page 225-230	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	231		OUTSE1 - OUTSE3 OUTSE4 - OUTSE6	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	232		OUTSE7 - OUTSE9 OUTSE10 - OUTSE12	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	233		OUTSE13 - OUTSE15 OUTSE16 - OUTSE17	09.06.2016	OE1/SMC
		+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	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	241		Reserve page 241-318	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	319		Power module 24V DC	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	320		I20.0 - I20.7 I21.0 - I21.7	09.06.2016	OE1/SMC

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	10.08.2016	AHP1/HAS			
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54794	&E	+EC1 Control cabinet mounting panel	321		Reserve I22.0 - I22.7 I23.0 - I23.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	322		I24.0 - I24.7 I25.0 - I25.7	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	323		I26.0 - I26.7 I27.0 - I27.7	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	324		Reserve I28.0 - I28.7 I29.0 - I29.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	325		I30.0 - I30.7 I31.0 - I31.7	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	326		Reserve I32.0 - I32.7 I33.0 - I33.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	327		Reserve I34.0 - I34.7 I35.0 - I35.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	328		I36.0 - I36.7 I37.0 - I37.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	329		I38.0 - I38.7 Reserve I39.0 - I39.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	330		Reserve I212.0 - I212.7 I213.0 - I213.7	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	331		Reserve I214.0 - I214.7 I215.0 - I215.7	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	332		Reserve I216.0 - I216.7 Reserve I217.0 - I217.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	333		Reserve I218.0 - I218.7 I219.0 - I219.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	334		Reserve I220.0 - I220.7 I221.0 - I221.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	335		Reserve page 335-336	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	337		IW308 - IW310 IW312 - IW314	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	338		Reserve IW372 - IW374 IW376 - IW378	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	339		Reserve IW379 - IW381 IW382 - IW384	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	340		Q40.0 - Q40.7 Q41.0 - Q41.7	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	341		Q42.0 - Q42.7 Reserve Q43.0 - Q43.7	18.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	342		Reserve Q44.0 - Q44.7 Q45.0 - Q45.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	343		Reserve Q46.0 - Q46.7 Q47.0 - Q47.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	344		Reserve Q48.0 - Q48.7 Q49.0 - Q49.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	345		Q50.0 - Q50.7 Q51.0 - Q51.7	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	346		Q52.0 - Q52.7 Q53.0 - Q53.7	13.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	347		Reserve Q54.0 - Q54.7 Q55.0 - Q55.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	348		Reserve Q56.0 - Q56.7 Q57.0 - Q57.7	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	349		Reserve Q58.0 - Q58.7 Q59.0 - Q59.7	15.03.2016	AHP3/RIG

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	10.08.2016	AHP1/HAS			
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		+EC1 Control cabinet mounting panel	351		Reserve Q214.0 - Q214.7 Q215.0 - Q215.7	09.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	352		Reserve Q216.0 - Q216.7 Q217.0 - Q217.7	15.03.2016	AHP3/RIG
		+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	15.03.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	355		Reserve page 355-359	15.03.2016	AHP3/RIG
		+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	04.04.2016	AHP1/HAS
		+H1 HELP1	363		I64.0 - I64.7 I65.0 - I65.7	18.03.2016	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	13.04.2016	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 Q74.0 - Q74.7	04.04.2016	AHP1/HAS
		+H1 HELP1	369		Reserve IW120 - IW123 QW120 - QW123	15.03.2016	AHP3/RIG
		+H1 HELP1	370		Reserve Q216.0 - Q216.7	04.04.2016	AHP1/HAS
		+H1 HELP1	371		Reserve page 371-376	15.03.2016	AHP3/RIG
		+H1 HELP1	377		Overview of inputs/outputs, HELP 1/2	04.04.2016	AHP1/HAS
		+H1 HELP1	378		Reserve Q78.0 - Q78.7	09.06.2016	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
		+H1 HELP1	381		I/Q83.0 - I/Q83.7 I84.0 - I84.7	04.04.2016	AHP1/HAS
		+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	09.06.2016	OE1/SMC

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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		+H2 HELP2	428		Overview of inputs/outputs, HELP 2	18.03.2016	AHP3/RIG
		+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	04.04.2016	AHP1/HAS
		+H2 HELP2	431		Reserve I/Q132.x I/Q133.0 -I/Q133.7	15.03.2016	AHP3/RIG
		+H2 HELP2	432		Reserve I/Q134.x	15.03.2016	AHP3/RIG
		+H2 HELP2	433		Reserve Q135.0 - Q135.7 Reserve I136.0 - I136.7	04.04.2016	AHP1/HAS
		+H2 HELP2	434		Reserve I/Q137.x I/Q138.x	22.03.2016	AHP5/EWD
		+H2 HELP2	435		Reserve QW324 - QW330 IW332 - IW338	15.03.2016	AHP3/RIG
		+H2 HELP2	436		IW340 - IW346	04.04.2016	AHP1/HAS
		+H2 HELP2	437		Reserve page 437-499	15.03.2016	AHP3/RIG
		+H15 HELP1/5	445		Overview of inputs/outputs, HELP 1/5	04.04.2016	AHP1/HAS
		+H15 HELP1/5	446		Interface 44601_U	09.06.2016	OE1/SMC
		+H15 HELP1/5	447		INSExxx OUTSE31 - OUTSE34	04.04.2016	AHP1/HAS
		+H15 HELP1/5	448		INSExxx OUTSE35 - OUTSE38	04.04.2016	AHP1/HAS
		+H15 HELP1/5	449		INSExxx OUTSE39 - OUTSE42	04.04.2016	AHP1/HAS
		+H15 HELP1/5	450		INSExxx OUTSE43 - OUTSE46	04.04.2016	AHP1/HAS
		+H15 HELP1/5	451		Reserve page 451	15.03.2016	AHP3/RIG
		+H15 HELP1/5	452		I155.0 - I155.7	04.04.2016	AHP1/HAS
		+H15 HELP1/5	453		Reserve page 453 - 457	15.03.2016	AHP3/RIG
		+H15 HELP1/5	458		I/Q157.0 - I/Q157.7	09.06.2016	OE1/SMC
		+H15 HELP1/5	459		Reserve I/Q159.0 -I/Q159.7 Reserve I/Q160.0 - I/Q160.7	04.04.2016	AHP1/HAS
		+H	700		Mounting panel structure	10.06.2016	OE1/SMC
		+H	701		Control cabinet housing	15.03.2016	AHP3/RIG
		+H	702		Heat calculation in control cabinet	15.03.2016	AHP3/RIG
		+H	703		Main operating unit OP12	22.03.2016	AHP3/RIG
		+H	704		Tool setting station magazine control panel	15.03.2016	AHP3/RIG
		+H	706		Labelling of control cabinet housing	13.04.2016	AHP1/HAS

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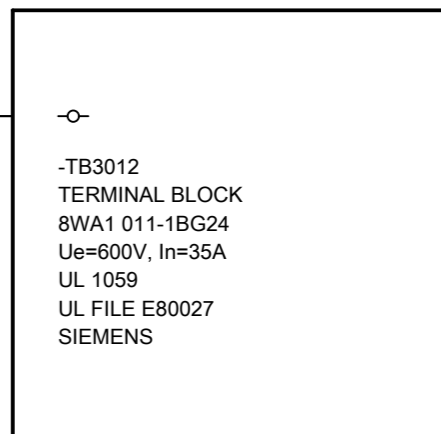
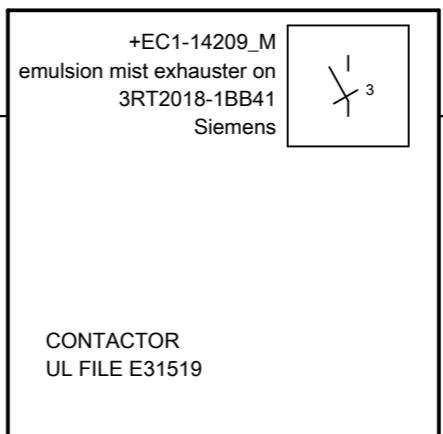
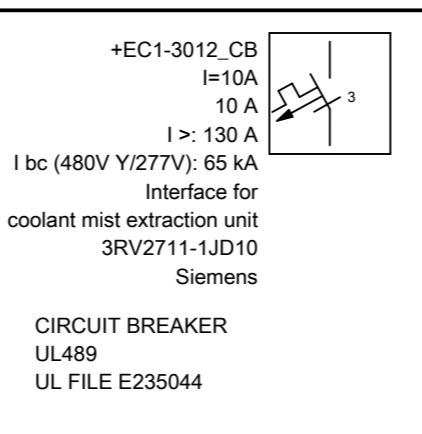
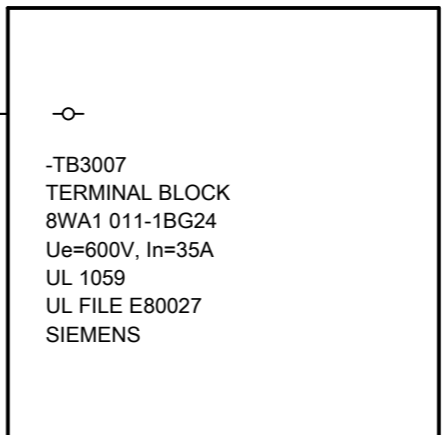
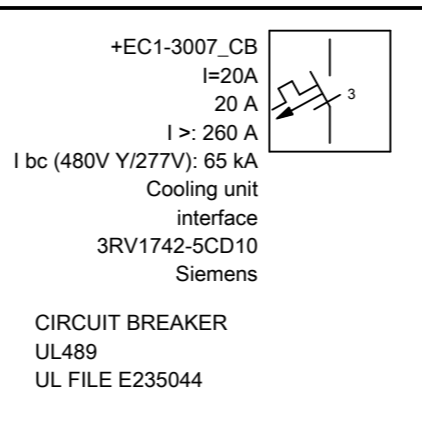
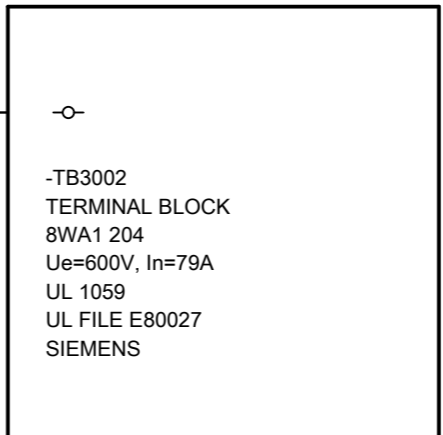
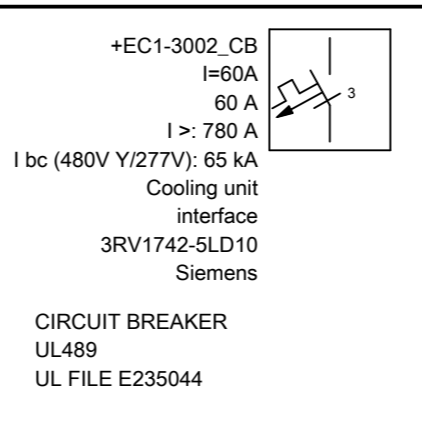
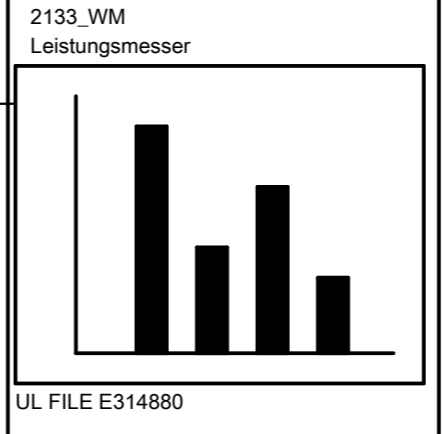
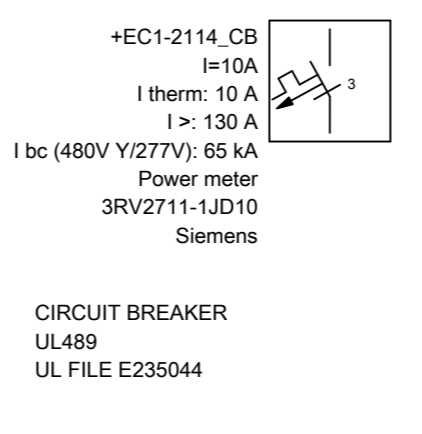
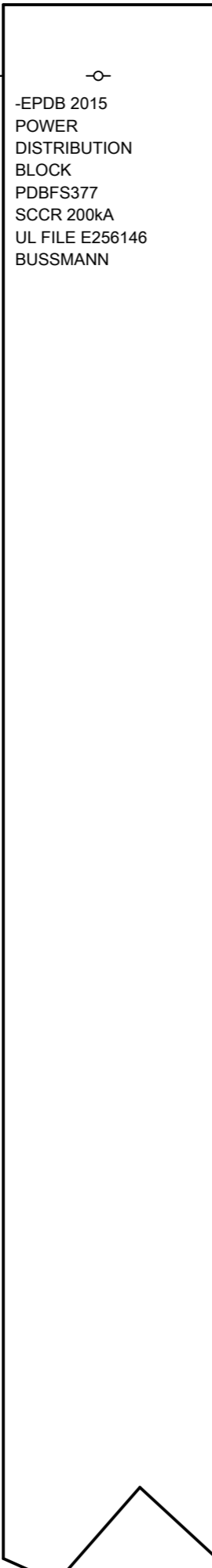
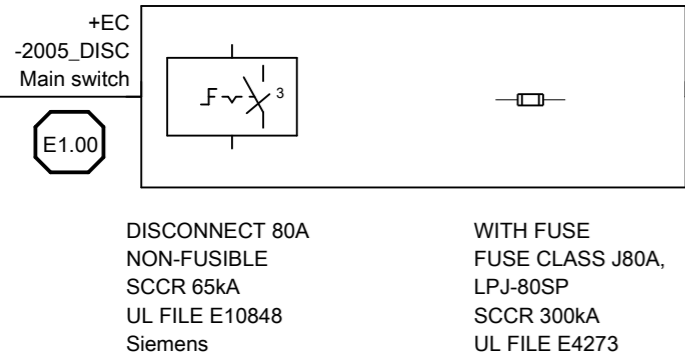
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	10.08.2016	AHP1/HAS			
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PLANT 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



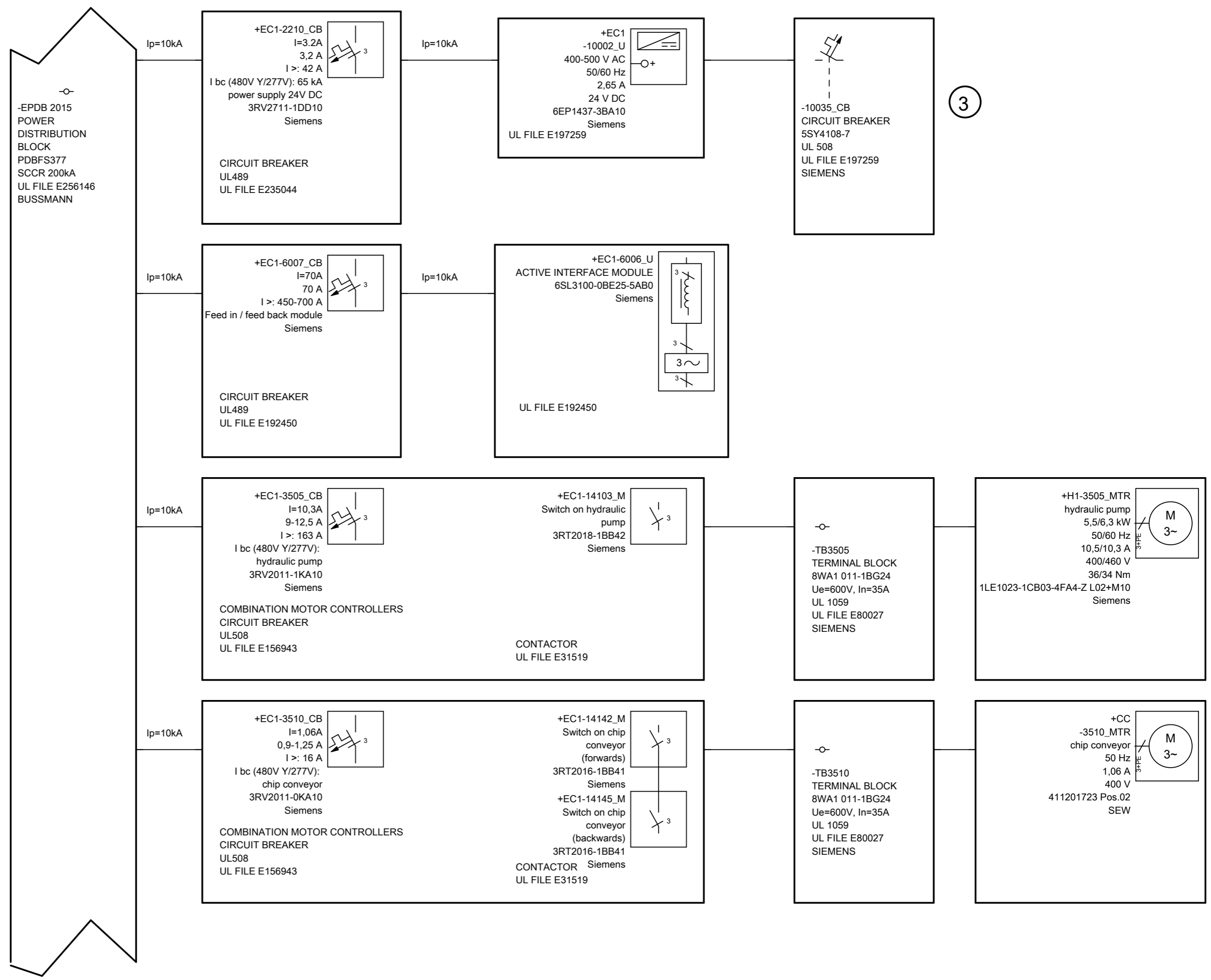
FROM SB4.3.1
A POWER TRANSFORMER WITH AN ISOLATED SECONDARY
WINDING IS ABLE TO LIMIT THE SHORT CIRCUIT CURRENT
IN THE ISOLATED SECONDARY CIRCUIT AS FOLLOWS.
B) FOR A POWER TRANSFORMER RATED NOT MORE THAN
5 KVA AND A 120V MAXIMUM SECONDARY VOLTAGE.
THE MAXIMUM AVAILABLE SHORT IRCUIT CURRENT
ON THE SECONDARY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

3ph
480VAC

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
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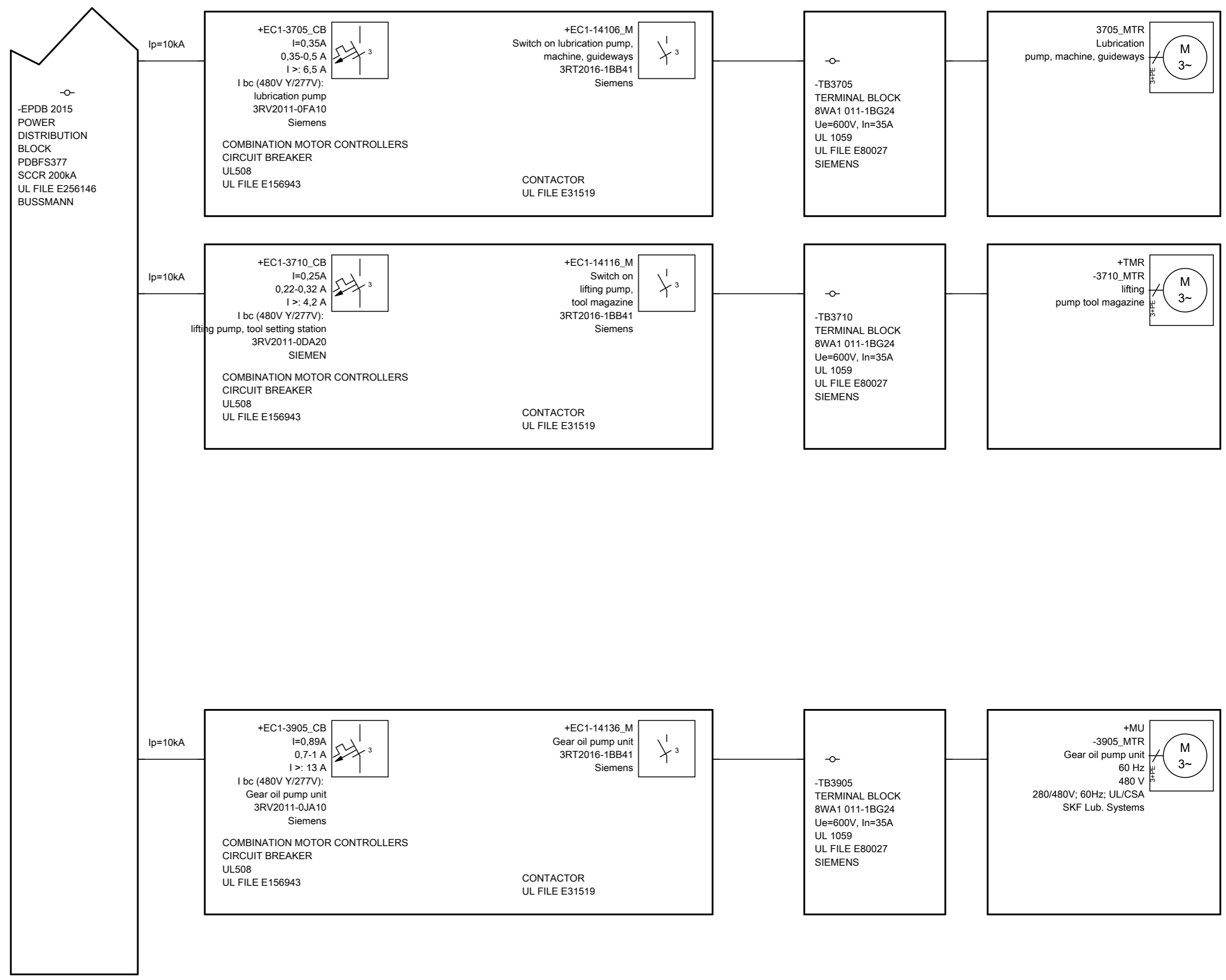
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FROM SB4.2
SHORT CIRCUIT CURRENT RATINGS OF INDIVIDUAL POWER CIRCUITS COMPONENTS.
SB4.2.1 ALL POWER CIRCUIT COMPONENTS INCLUDING DISCONNECT SWITCHES, BRANCH CIRCUIT PROTECTIVE DEVICES, BRANCH CIRCUIT FUSE HOLDERS, LOAD CONTROLLERS, MOTOR OVERLOAD RELAYS, 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_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC	Inv.No.	
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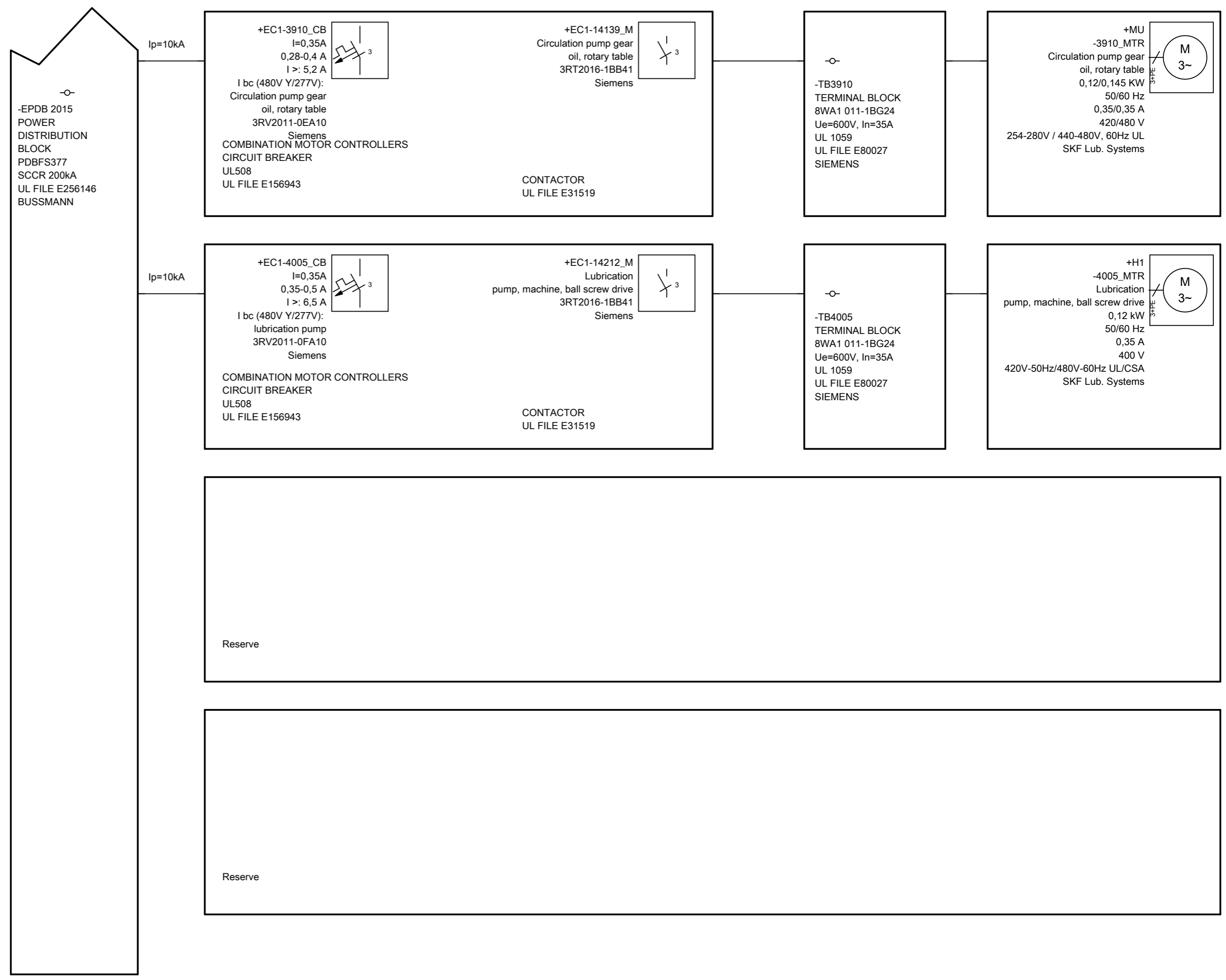
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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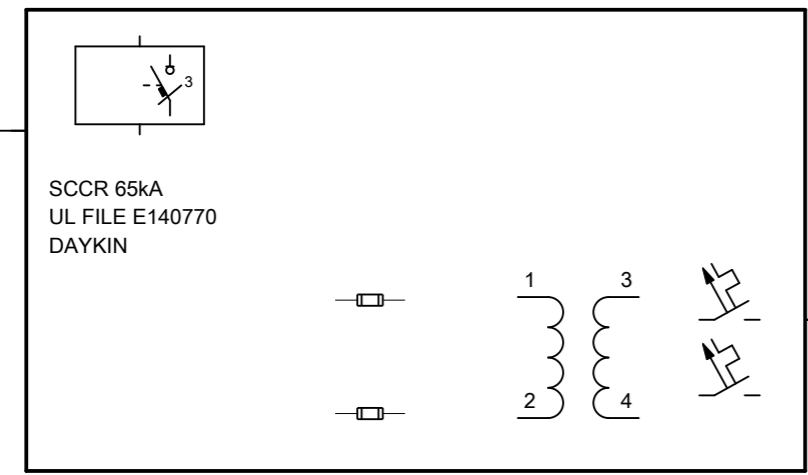
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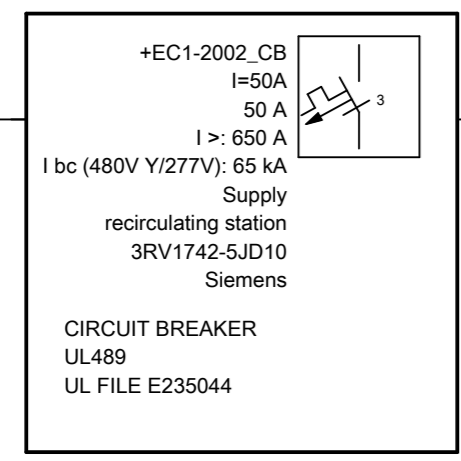
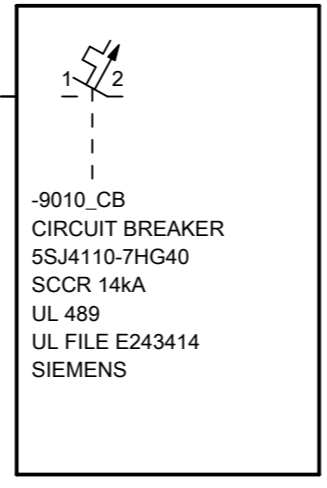
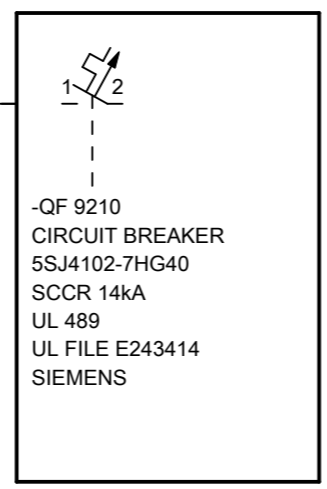
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I_p=65kA

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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.

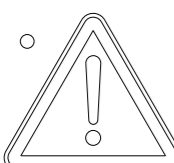
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Reserve page 8-10				Inv.No.	
				Number of sheets 275 Sheet 8	
ePLAN P8 2.2.5		=54794		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	HELLER
OP-Folge	M54794	
Control	SIEMENS 840D sl	

HELLER

Gebr. Heller
Maschinenfabrik GmbH
72622 Nürtingen - Germany

Type	H 10000 MC
Control	SIEMENS 840D_sl
order number. Order-No.	54794
Year of construction	2016
Voltage	3- 480Y/277, 4w V
Frequency:	60 Hz
Rated current	77 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	EP05479400
Schutzart Schaltschrankgehäuse Enclosure Type	NEMA 12

00.945034

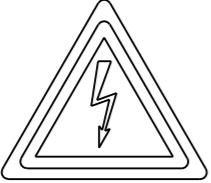
Plate basic language EN

Conductor colours		AHEAD OF MAIN SWITCH	AFTER MAIN SWITCH ON
black with orange tracer	MAIN CIRCUIT FOR ALTERNATING CURRENT	151 - 575 VAC	Black MAIN CIRCUIT FOR ALTERNATING CURRENT 151 - 575 VAC
ORANGE/ RED	CONTROL CIRCUIT FOR ALTERNATING CURRENT 120V	120 VAC	Red CONTROL CIRCUIT FOR ALTERNATING CURRENT 120V 120 VAC
white with orange tracer	control circuit for al alternating current 0V grounded	0 VAC	white control circuit for al alternating current 0V grounded 0 VAC
blue with orange tracer	control circuit for direct current 24V	24 VDC	Blue control circuit for direct current 24V 24 VDC
Orange/White	control circuit for direct current 0V grounded	0 VDC	white/ blue control circuit for direct current 0V grounded 0 VDC
Orange	Linkage signals 24V DC	24 VDC	GREEN/ YELLOW Protective conductor

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Machine data sheet				Inv.No.	
Number of sheets				275	Sheet 11
ePLAN P8 2.2.5				=54794	8

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	3

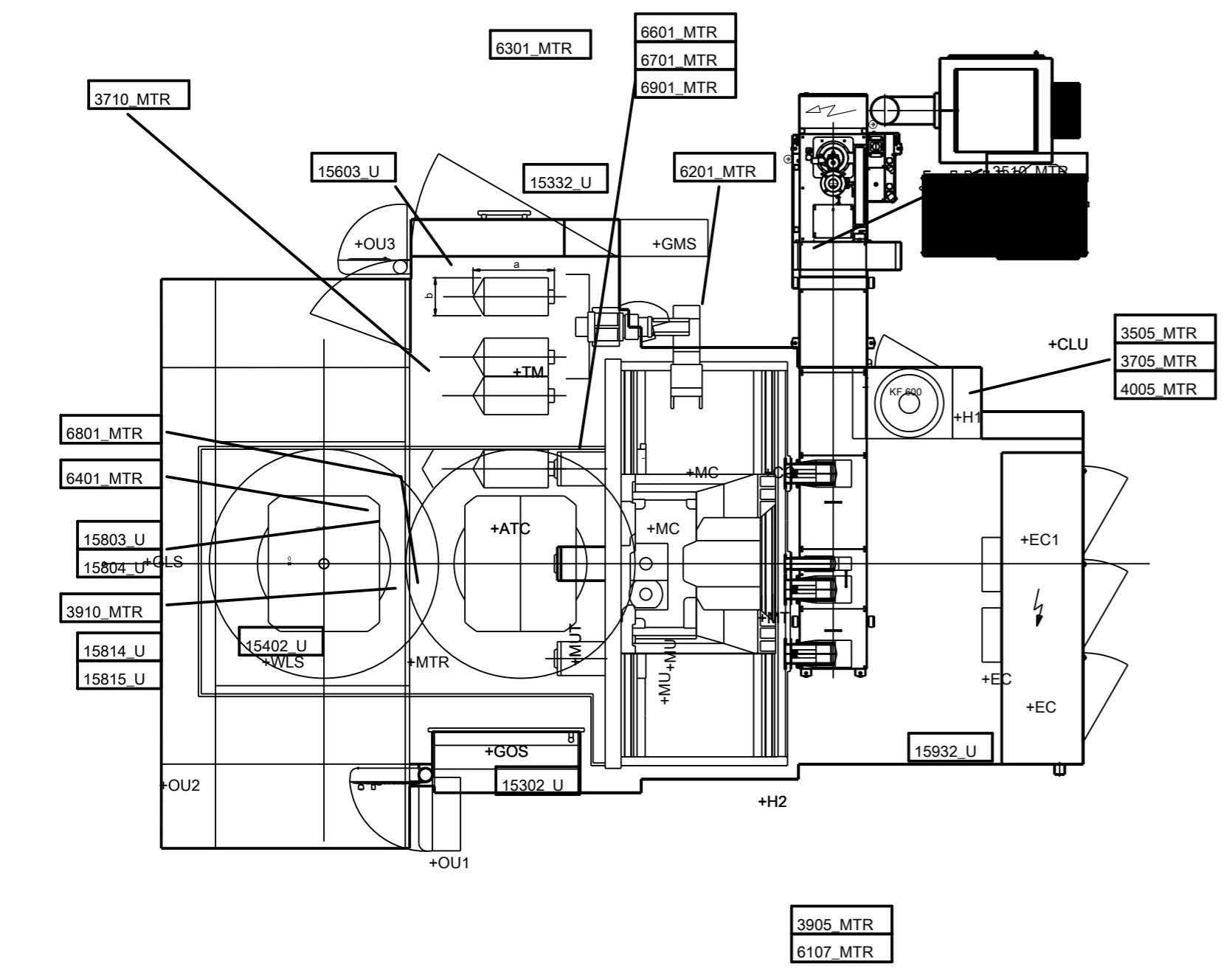
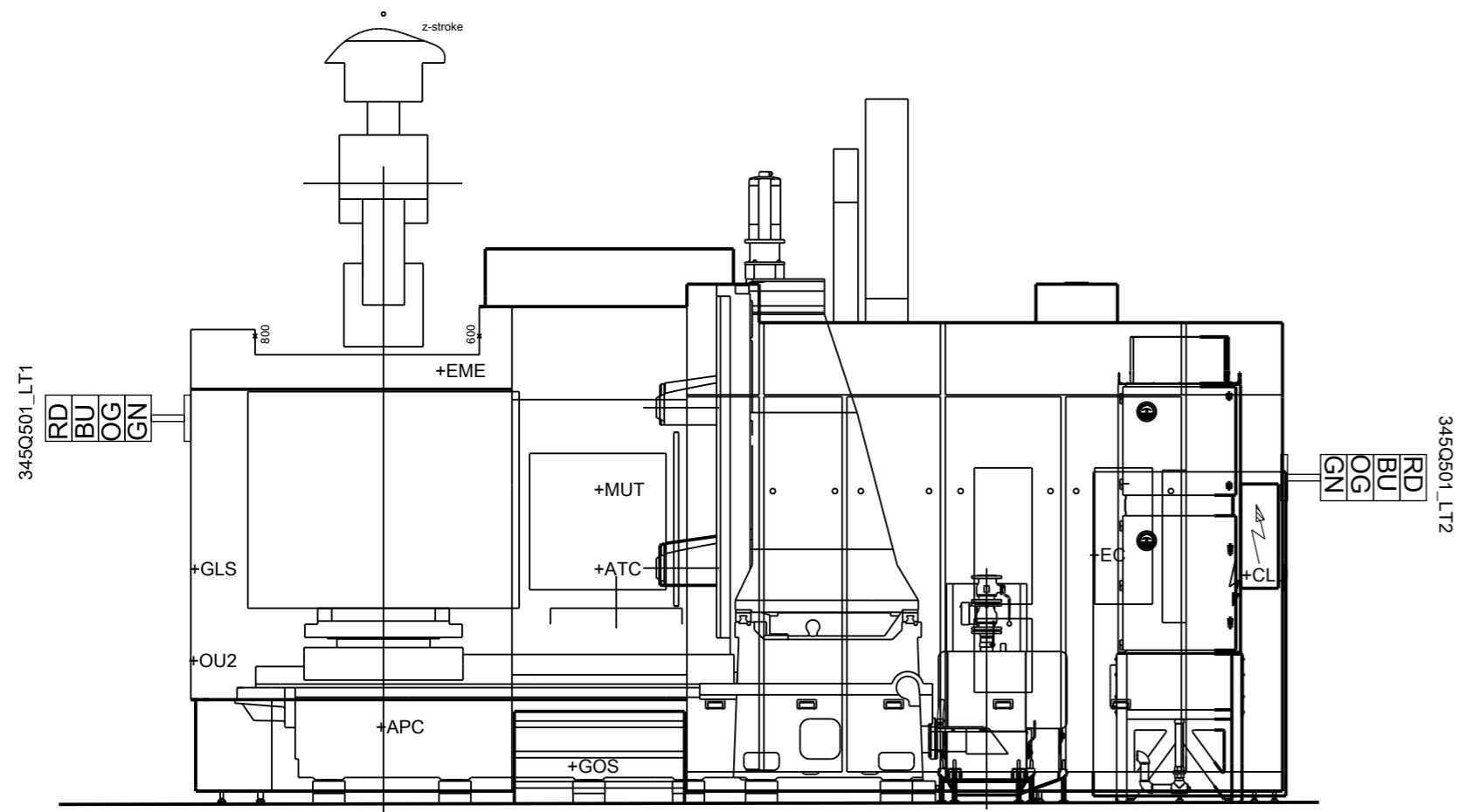
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Overview fuses and note				Number of sheets 275 Sheet 12	
ePLAN P8 2.2.5		=54794		11 Sheet 13	

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NOTES

BMK motor:	designation:
3505_MTR	hydraulic pump
3510_MTR	chip conveyor (transverse chip conveyor)
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	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	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



- Location:
- +ATC tool changer
 - +APC chip conveyor
 - +CC chip conveyor
 - +CF workpiece clamping fixture
 - +CLU Control cabinet
 - +EC 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	Address:
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

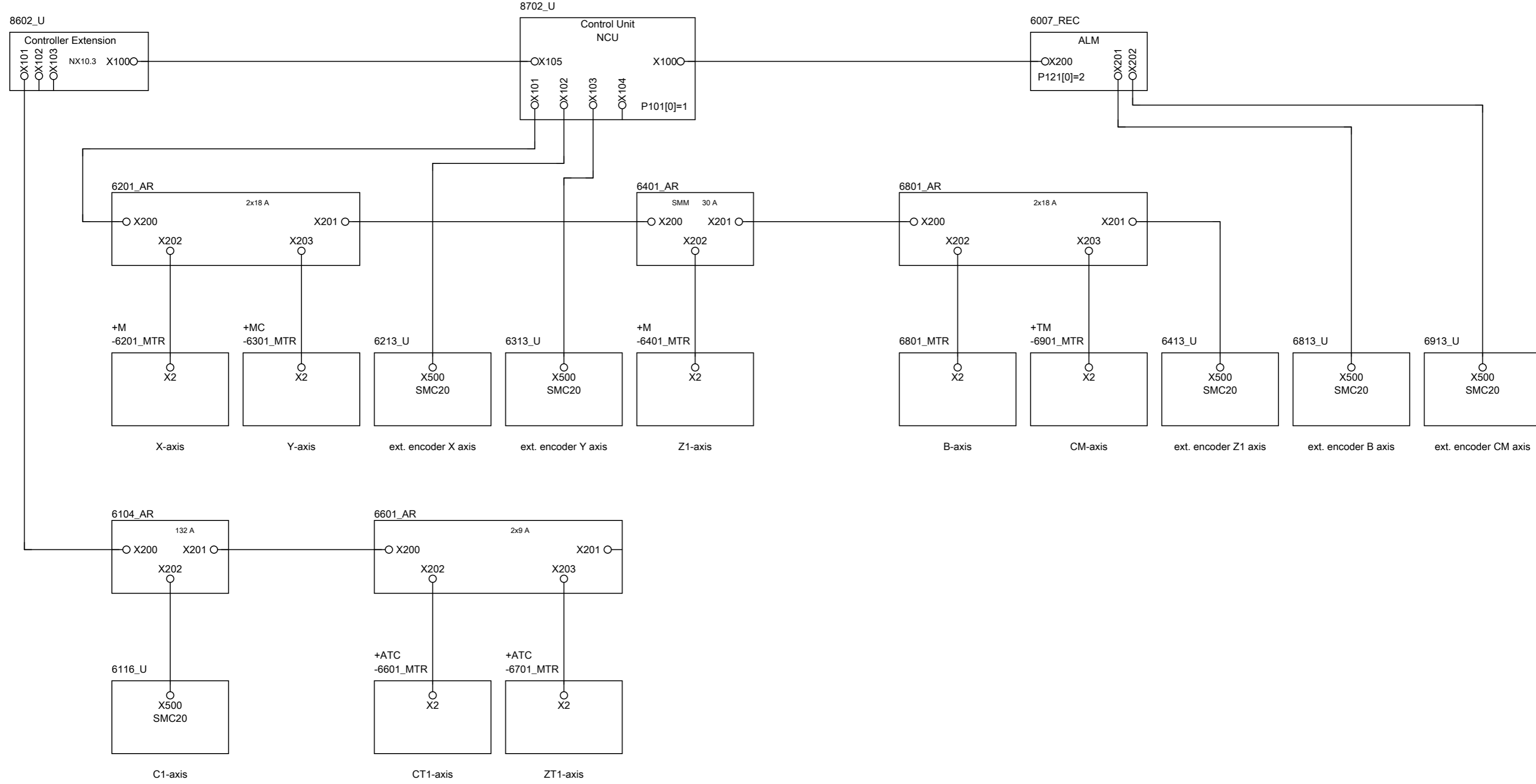
HELP1/2	Address:
37801_U	Interface-Modul
37831_U	Q78.0 - .7
37901_U	I79.0 - .7
38005_U	Powermodul
38131_U	I84.0 - .7
38505_U	Powermodul
38531_U	Q78.0 - .7
38601_U	I217.0 - .7
38631_U	I218.0 - .7
38705_U	Powermodul
38731_U	Q/193.0 - .7

HELP1/5	Address:
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	Address:
42901_U	Interface-Modul
43401_U	I137.0 - .7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Machine overview				Inv.No.		
ePLAN P8 2.2.5				=54784	Number of sheets 275	Sheet 13
				12	Sheet	+EC1/14

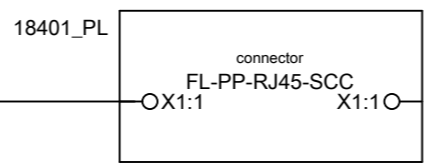
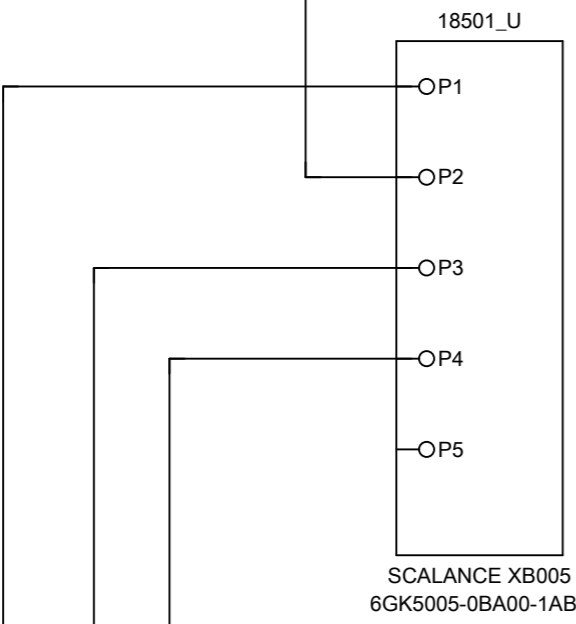
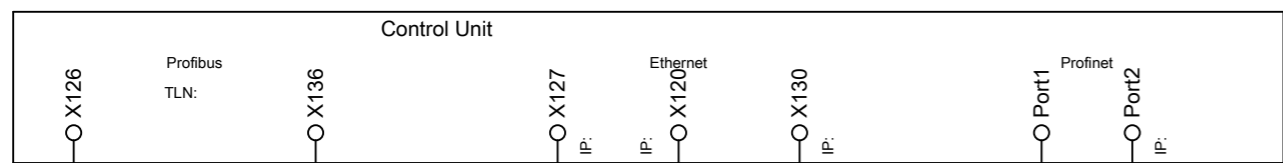
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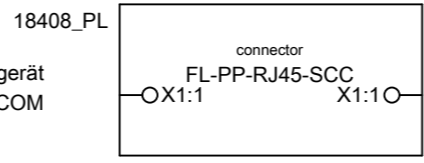
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	18.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology DRIVE-CLiQ				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 14	
=54784				+GI/13 Sheet 15	

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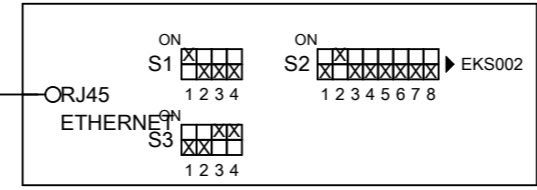
TO PLANT NETWORK
COMPANY PACCAR USA



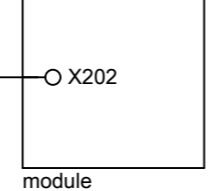
TO PLANT NETWORK
COMPANY PACCAR USA

Service Steckdose am Hauptbediengerät
MENCOM

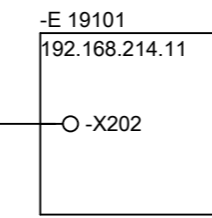
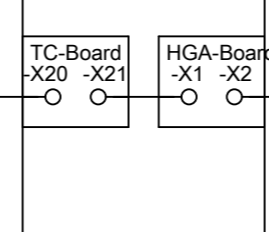
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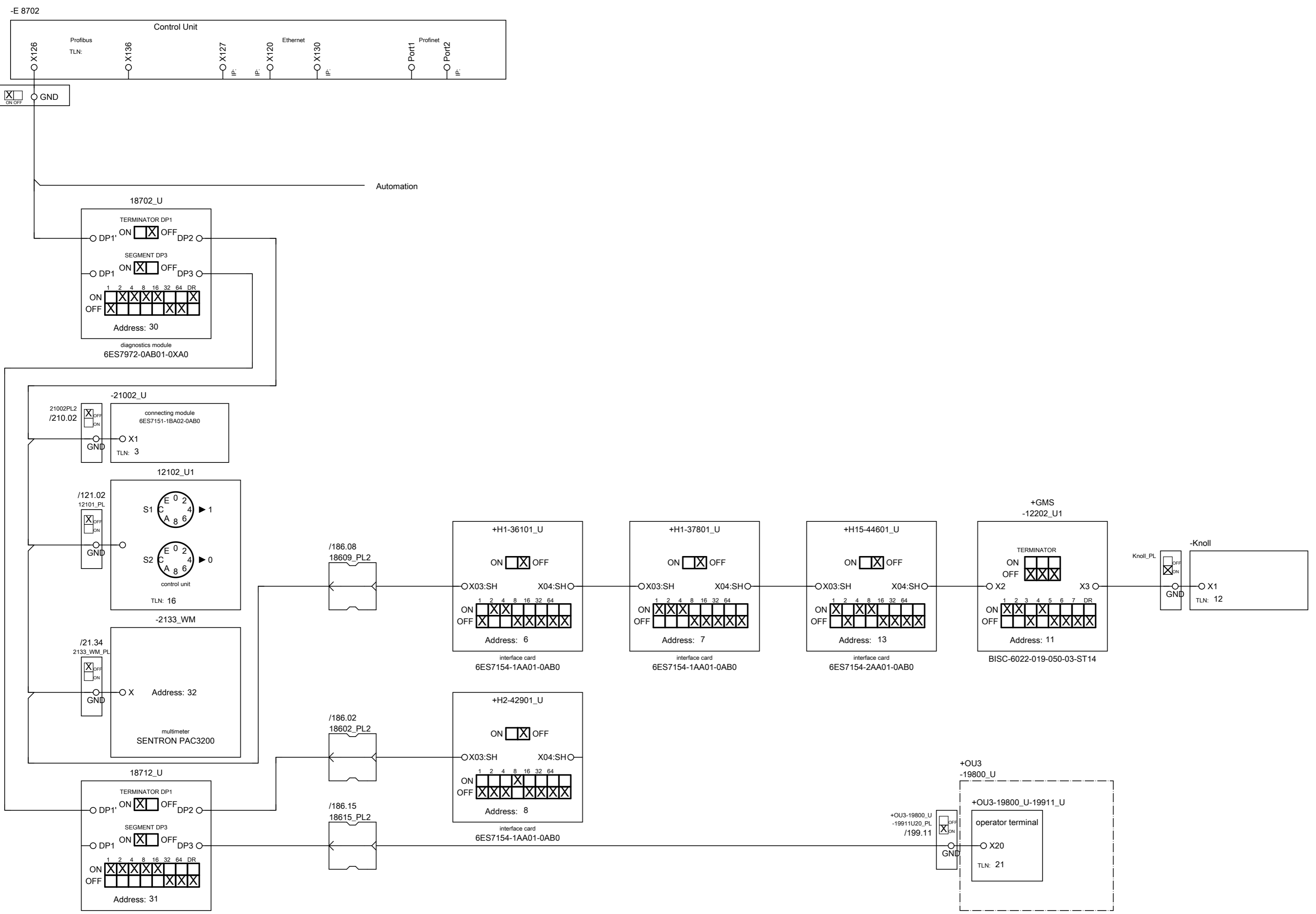


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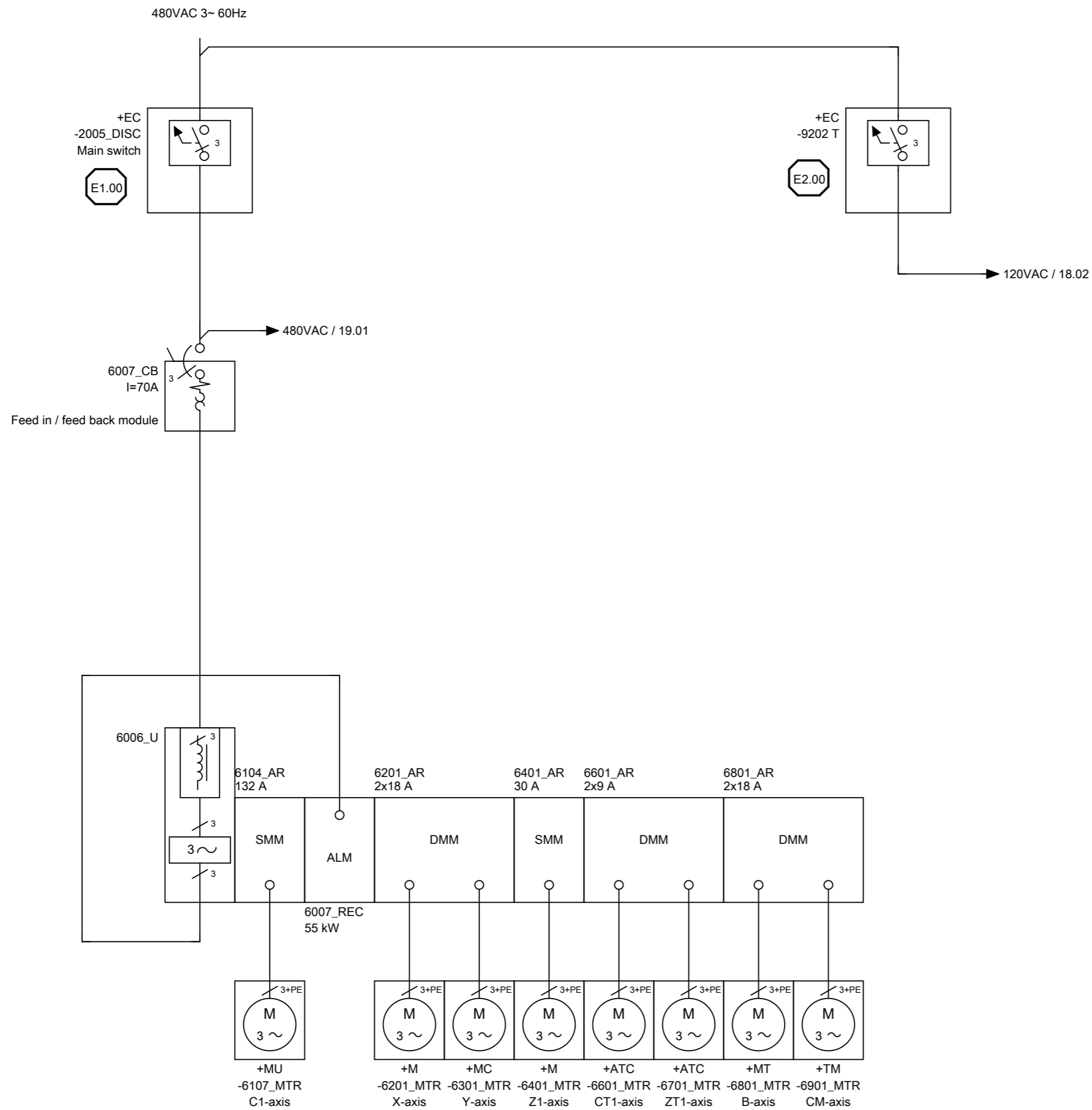


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology Ethernet				Inv.No.	
ePLAN P8 2.2.5				=54794	
Number of sheets				275	Sheet 15
◀ 14				Sheet	▶ 16

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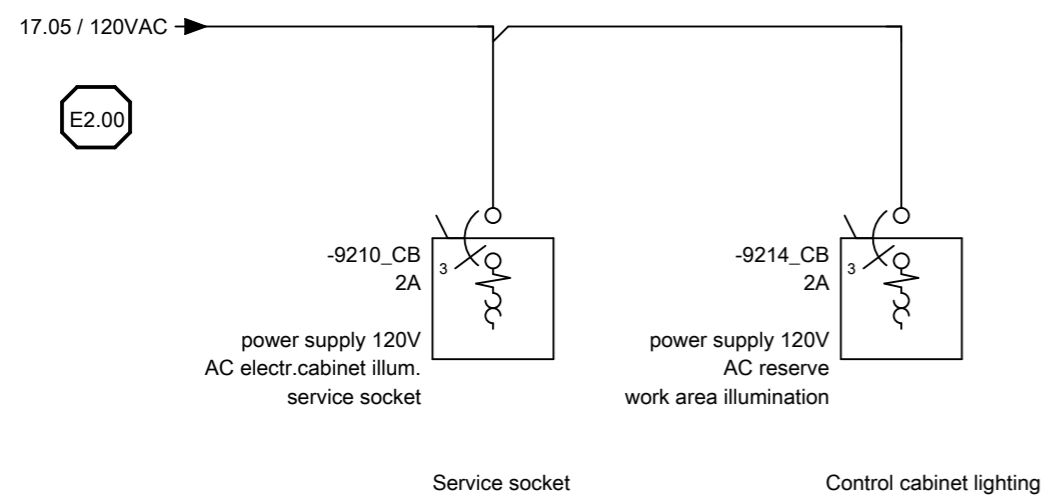


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology Profibus				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 16	
=54794				15 Sheet 17	



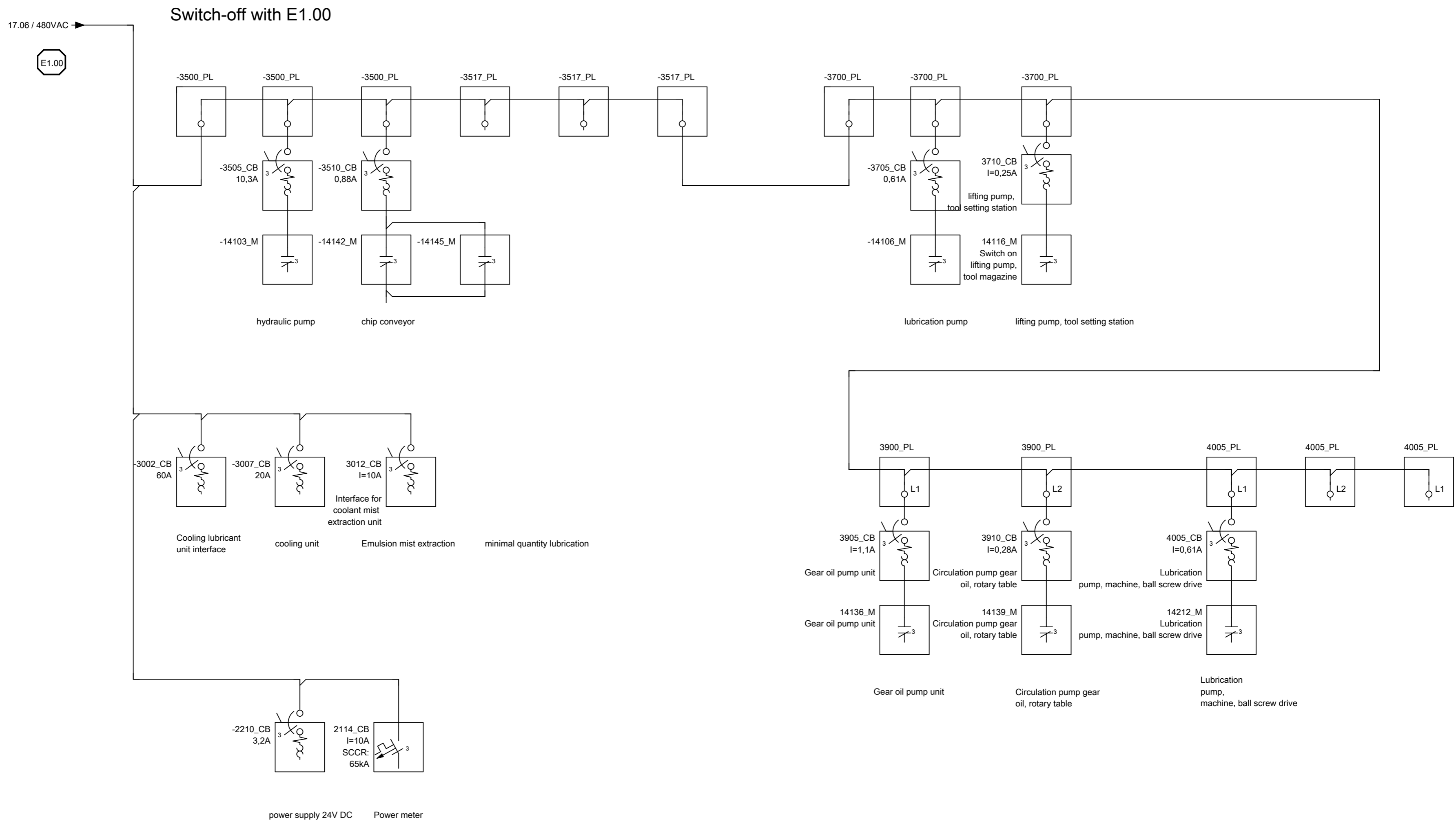
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
				Number of sheets 275 Sheet 17	
ePLAN P8 2.2.5		=54784		◀ 16 Sheet 18 ▶	

Switch-off with E2.00

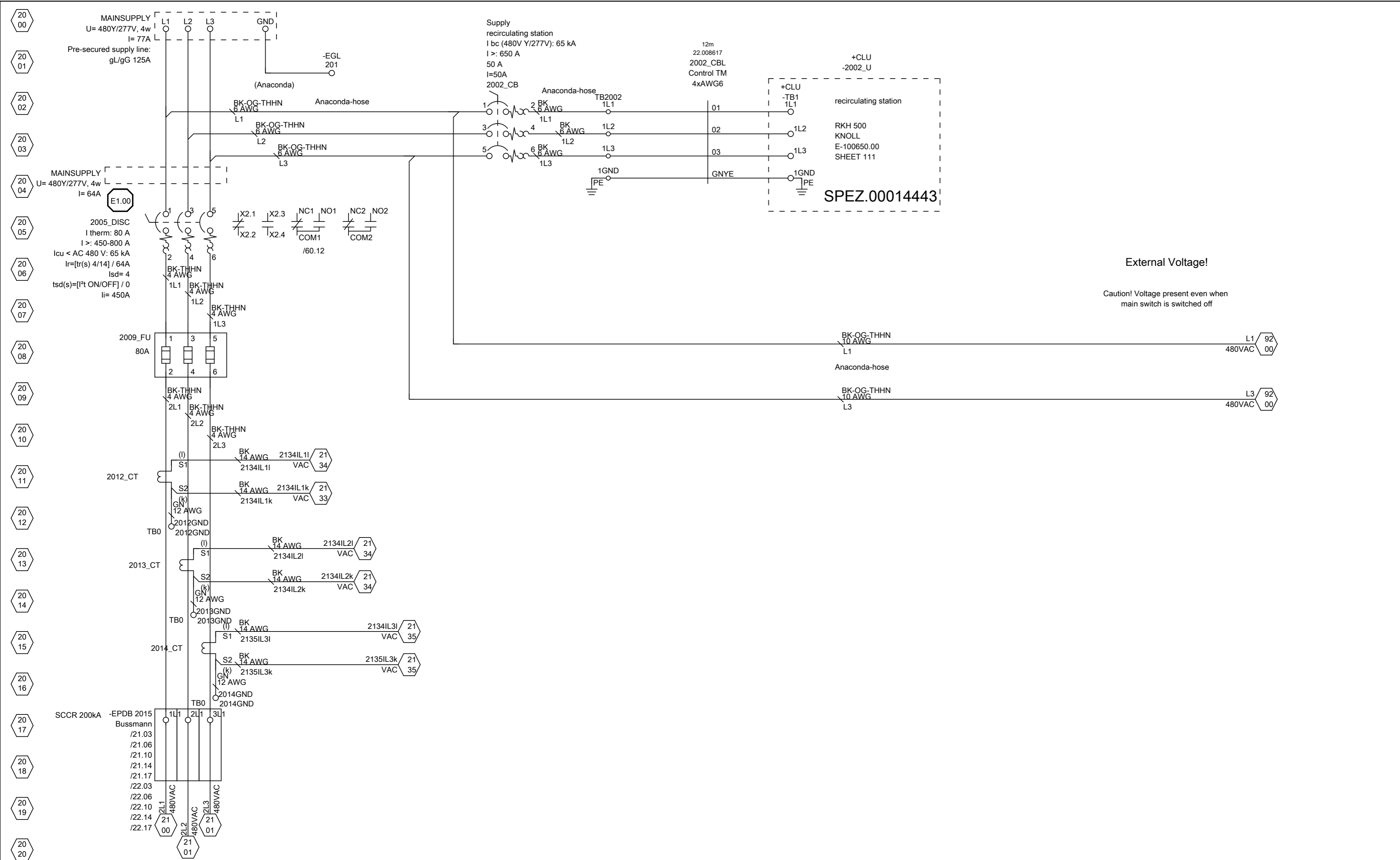


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
				Number of sheets 275 Sheet 18	
ePLAN P8 2.2.5		=54794		◀ 17 Sheet 19 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
ePLAN P8 2.2.5				=54784	
Number of sheets				275	Sheet 19
18				Sheet	20

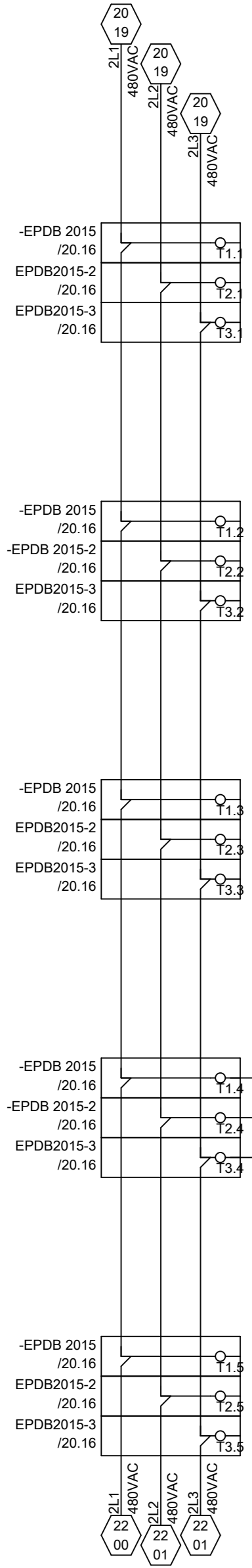


External Voltage!

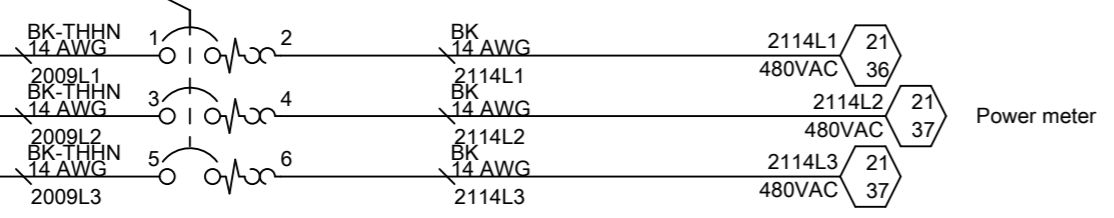
Caution! Voltage present even when main switch is switched off

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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 275 Sheet 20	
ePLAN P8 2.2.5		=54784		19 Sheet 21	

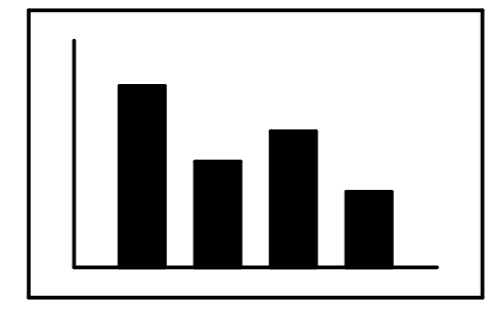
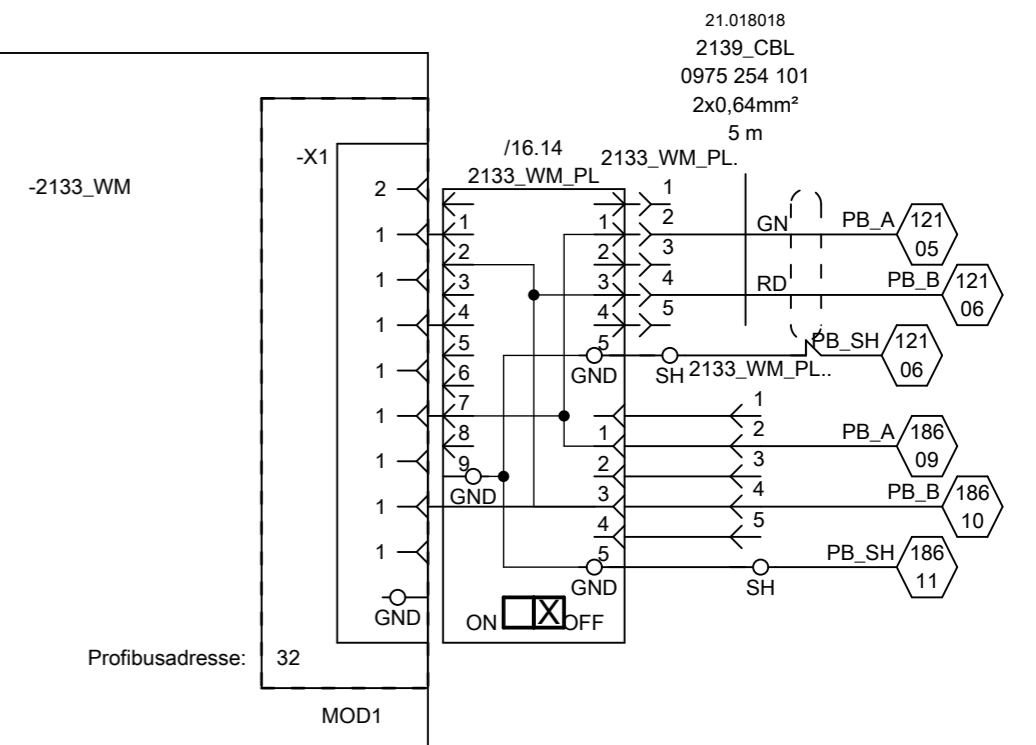
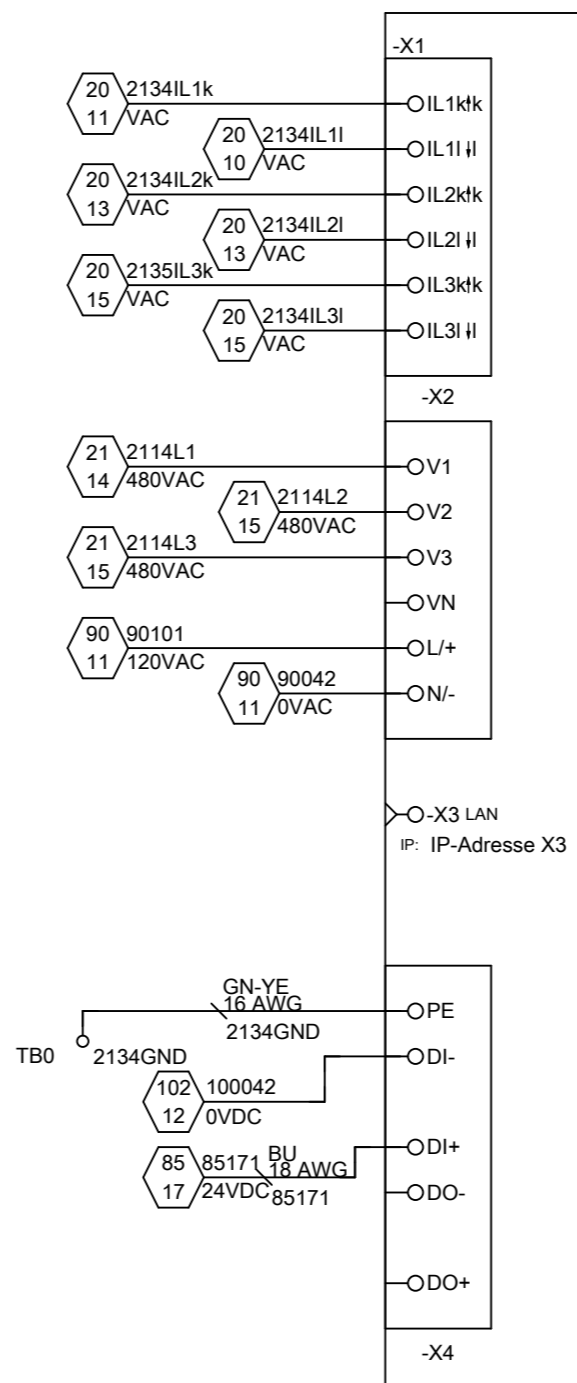
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Power meter
I bc (480V Y/277V): 65 kA
I >: 130 A
I therm: 10 A
I=10A
2114_CB



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multimeter
SENTRON PAC3200

DANGER!
"Open converter circuits may cause electric shock and light arc monitoring. This can lead to serious personal injury or death and serious damage to property. Current measurement can only be carried out via current transformers. Current circuits must NOT be secured by a fuse! Never open the secondary circuit of the current transformer if under power. Short-circuit the secondary feeder clamps of the transformer before removing the unit. The safety instructions of the used transformers must be observed under any circumstances.."

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 21	
#54784				20 Sheet 22	

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Reserve

Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve					
				Number of sheets	275
ePLAN P8 2.2.5				=54794	Sheet
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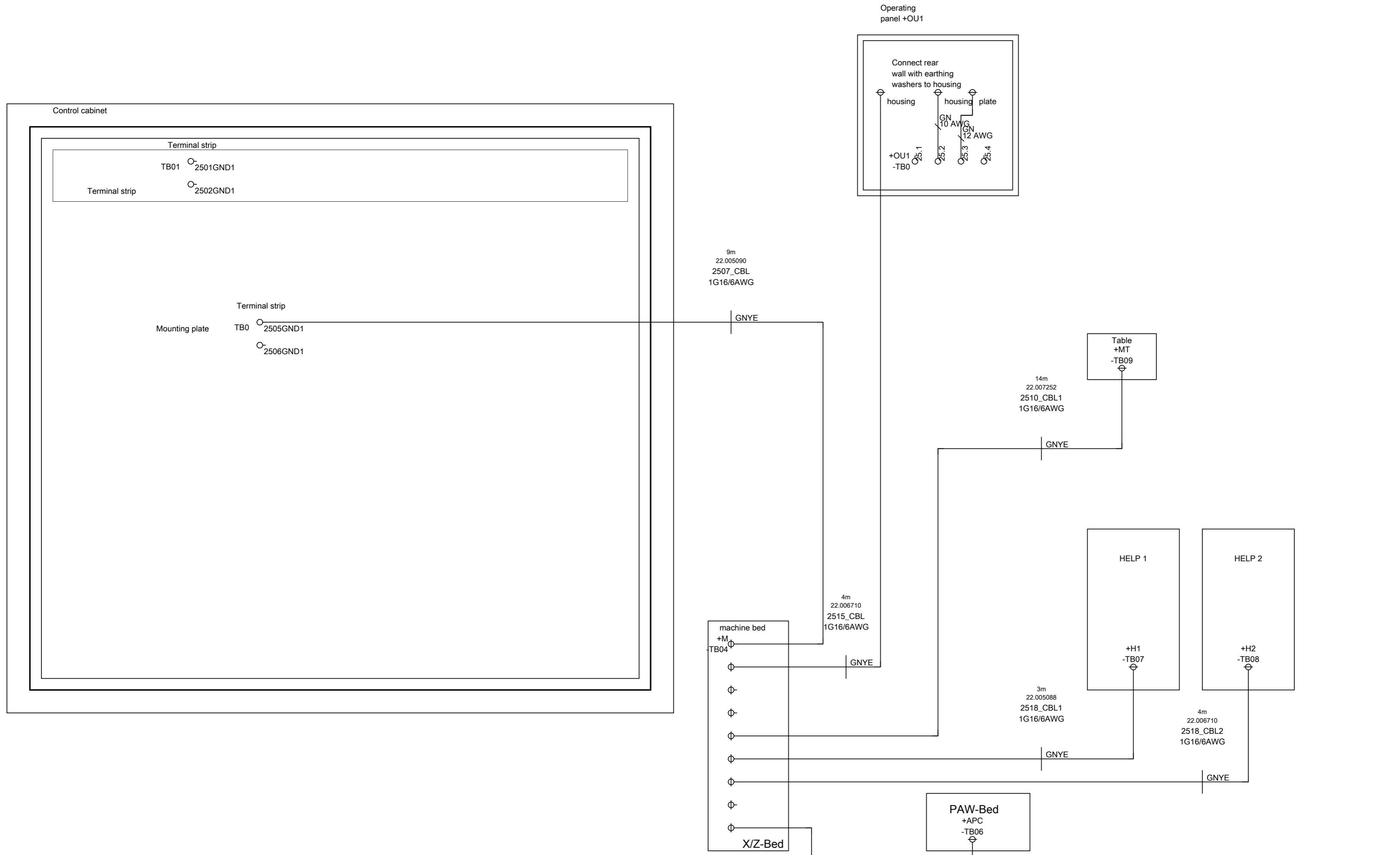
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Reserve

Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve					
				Number of sheets	275
ePLAN P8 2.2.5				=54794	Sheet
				23	25

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	22.03.2016	AHP5/EWD	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
PE distribution				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 25	
=54784				24 Sheet 26	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
PE distribution options				Inv.No.	
				Number of sheets 275 Sheet 26	
ePLAN P8 2.2.5		=54794		◀ 25 Sheet 27 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 275 Sheet 27	
ePLAN P8 2.2.5		=54784		◀ 26 Sheet 28 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 275 Sheet 28	
ePLAN P8 2.2.5		=54794		◀ 27 Sheet 29 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 275 Sheet 29	
ePLAN P8 2.2.5		=54794		◀ 28 Sheet 30 ▶	

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Reserve
Auxiliary drives

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				275	Sheet
=54784				30	Sheet

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Reserve
Auxiliary drives

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				275	Sheet
=54794				31	Sheet
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Reserve Auxiliary drives

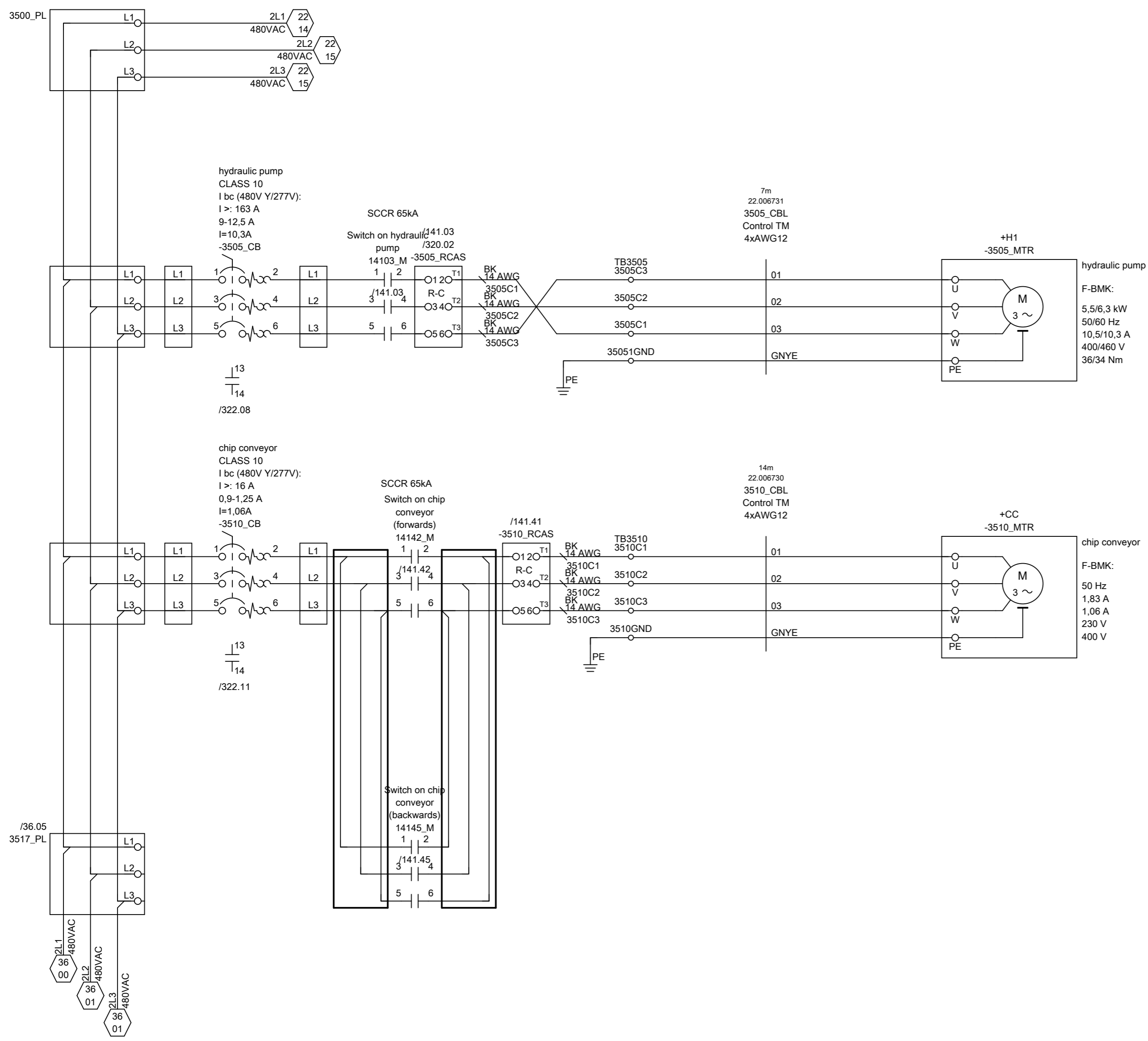
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				275	Sheet
=54794				32	Sheet
				34	Sheet

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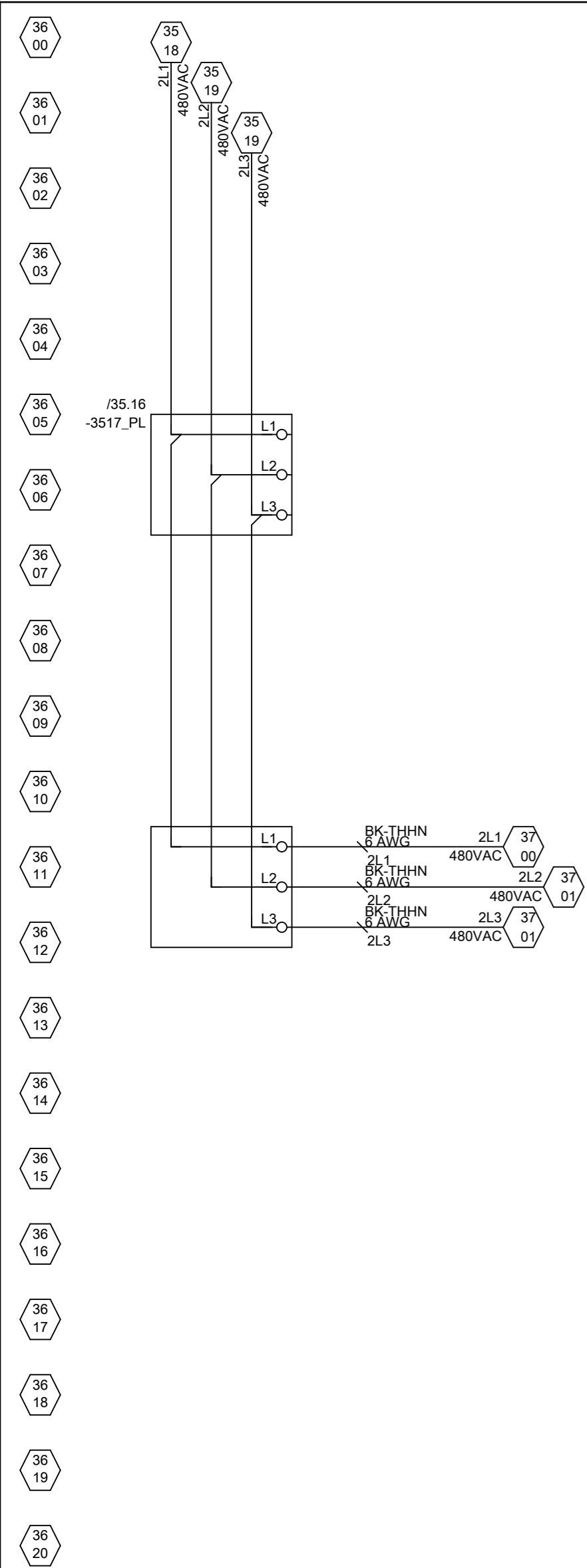
Reserve
Auxiliary drives

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				275	Sheet
=54794				33	Sheet
				35	Sheet

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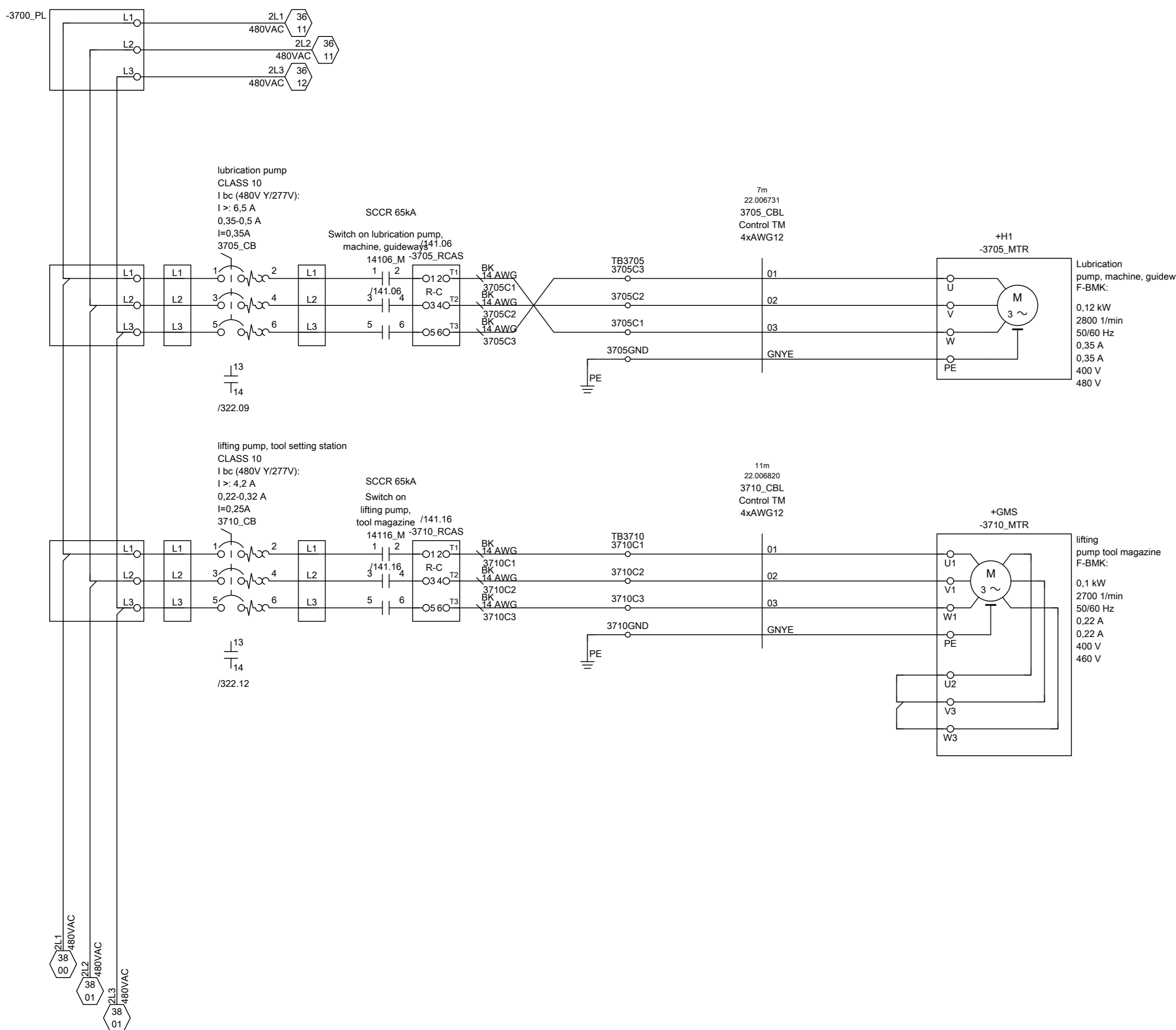


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				=54784	
Number of sheets				275	Sheet 35
◀ 34				Sheet	36 ▶



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	18.03.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
				Number of sheets 275 Sheet 36	
ePLAN P8 2.2.5		=54794		◀ 35 Sheet 37 ▶	

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lubrication pump, machine, guideways
F-BMK:

0,12 kW
2800 1/min
50/60 Hz
0,35 A
0,35 A
400 V
480 V

lubrication pump

lifting pump tool magazine
F-BMK:

0,1 kW
2700 1/min
50/60 Hz
0,22 A
0,22 A
400 V
460 V

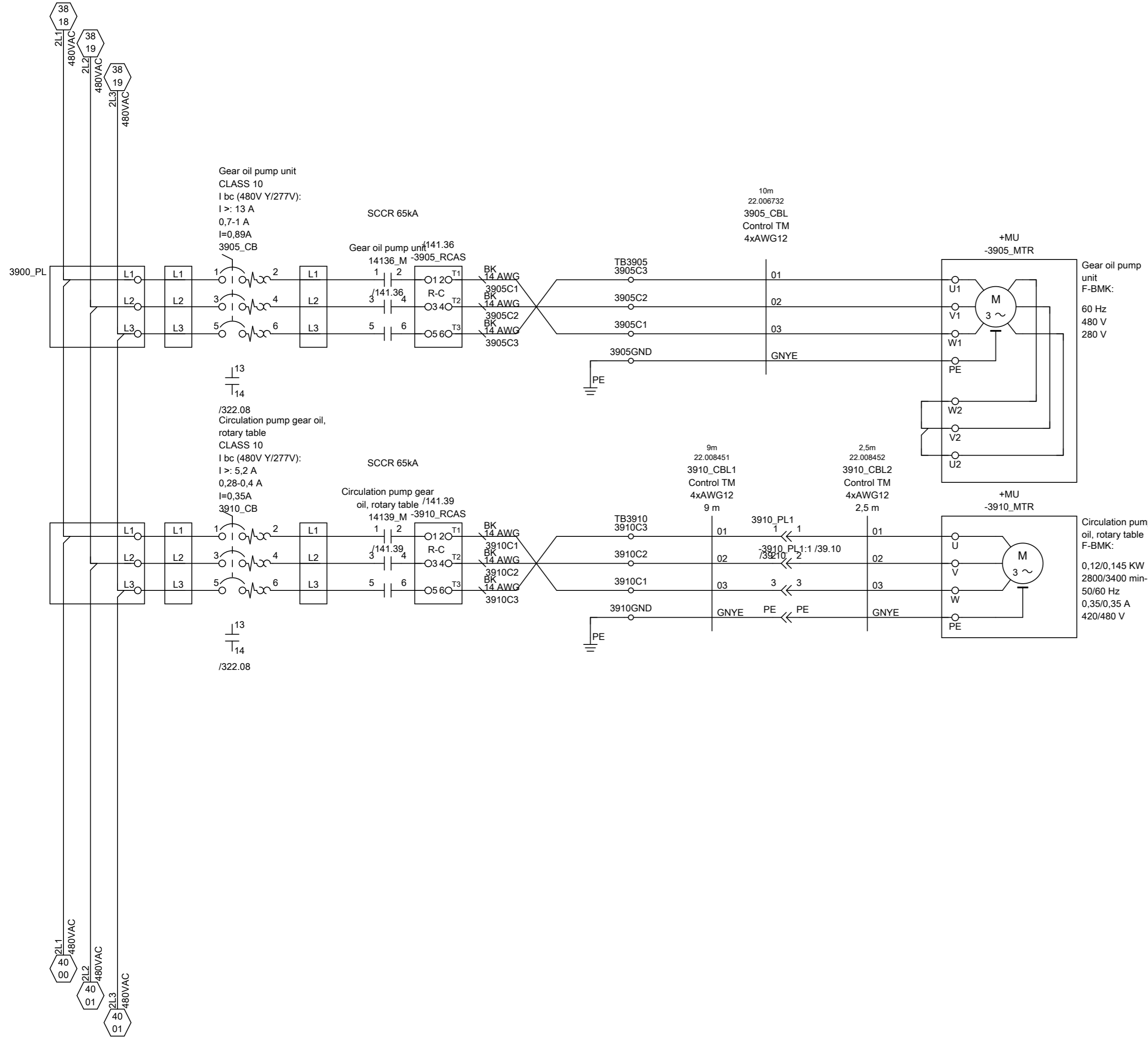
lifting pump, tool setting station

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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				=54784	
Number of sheets				275	Sheet
				36	38



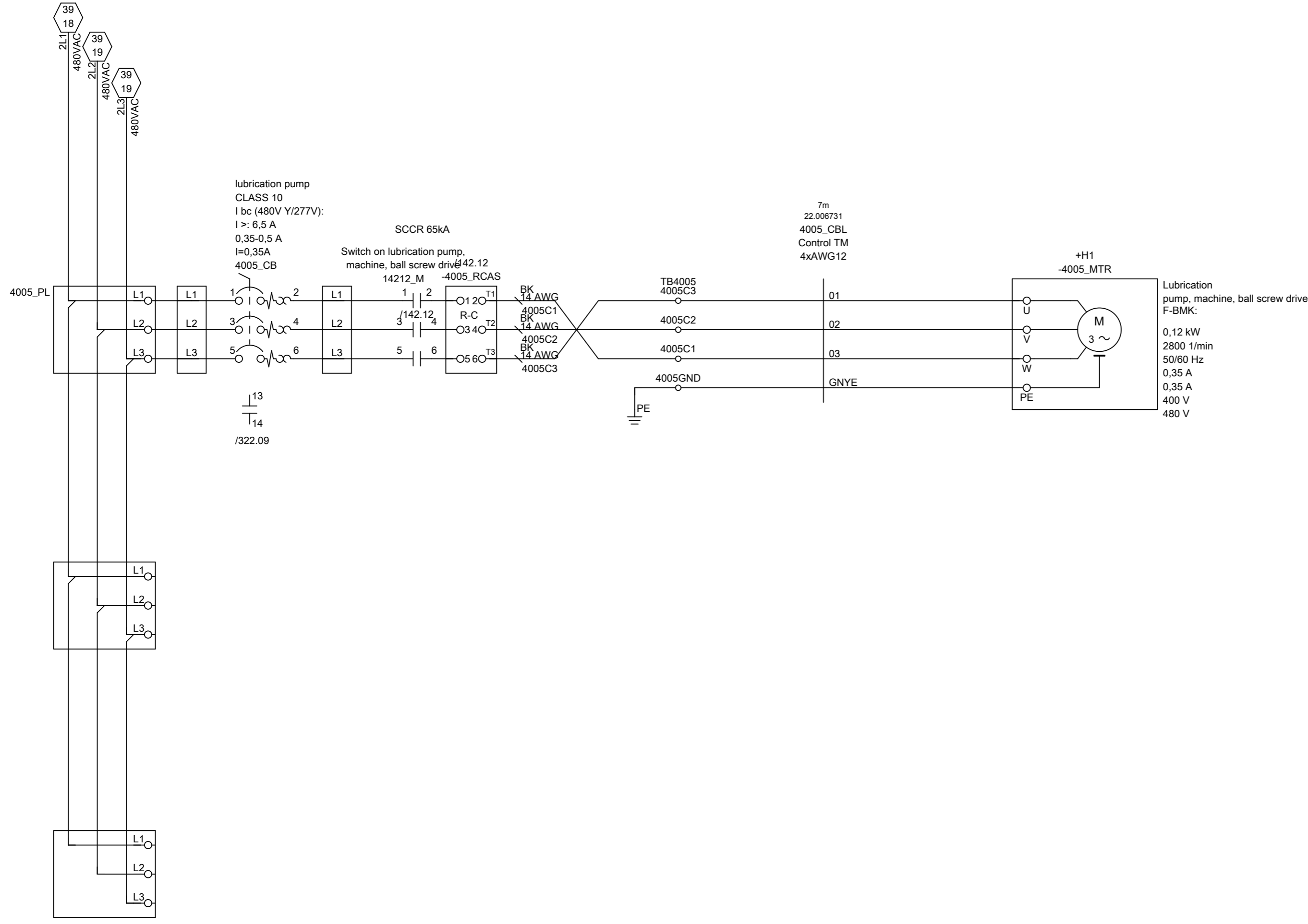
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	18.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Auxiliary drives				Inv.No.	
				Number of sheets 275 Sheet 38	
ePLAN P8 2.2.5		=54794		◀ 37 Sheet 39 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 39	
=54784				◀ 38 Sheet 40 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/RIG			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 40	
=54794				◀ 39 Sheet 41	

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Reserve page 41-57

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve page 41-57				Inv.No.	
				Number of sheets 275 Sheet 41	
ePLAN P8 2.2.5		=54794		◀ 40 Sheet 58 ▶	

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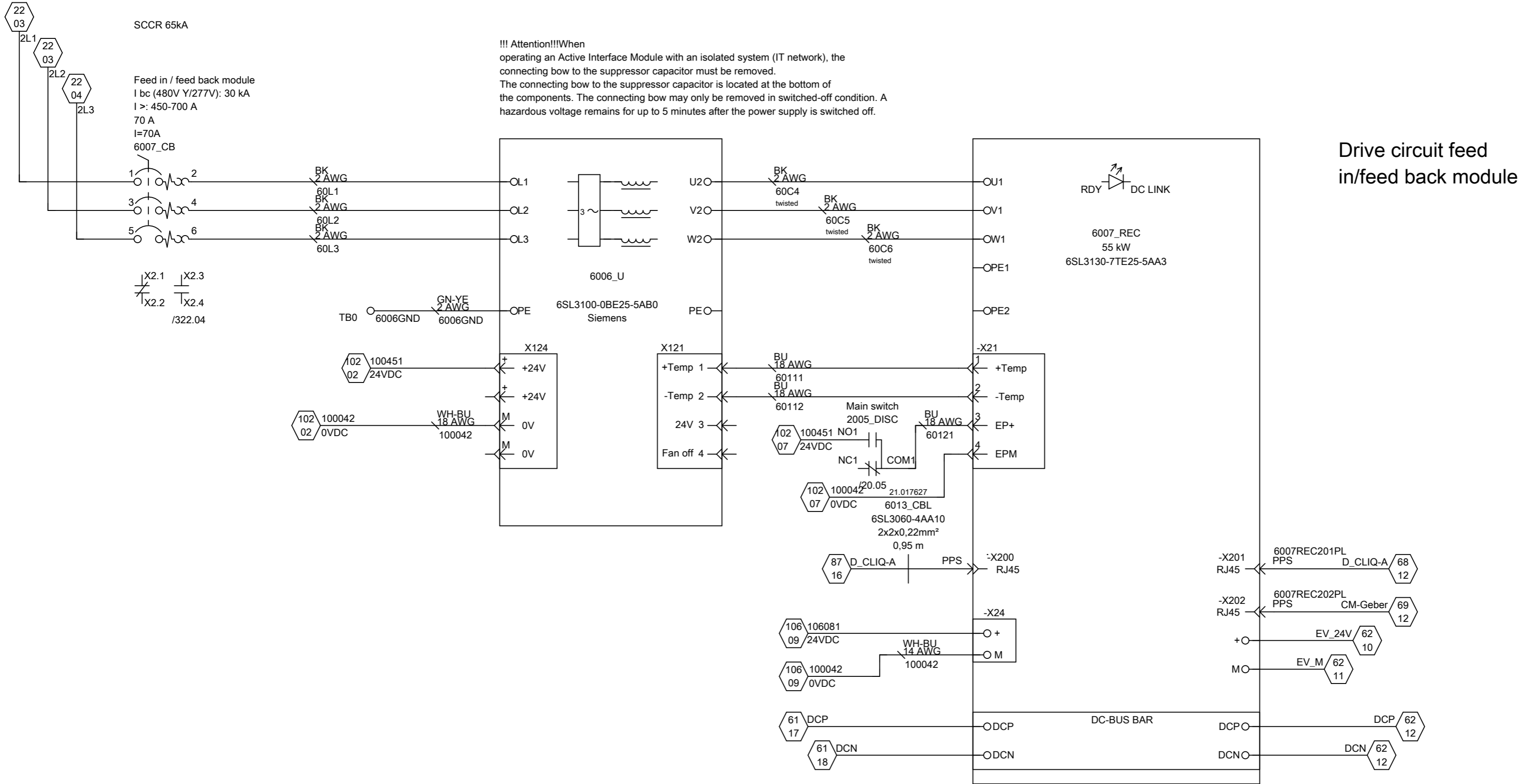
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Reserve page 58
Safety door drive, workpiece loading station

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	10.02.2016	AHP3/RIG			
Safety door drive, workpiece loading station				Inv.No.	
				Number of sheets	275
ePLAN P8 2.2.5				=54794	Sheet
				41	60

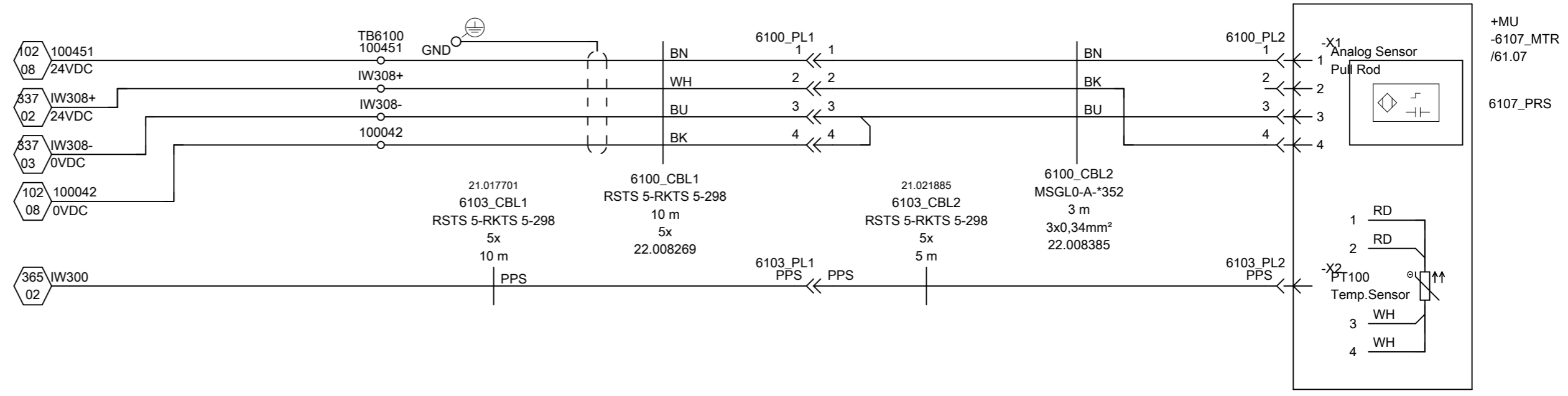
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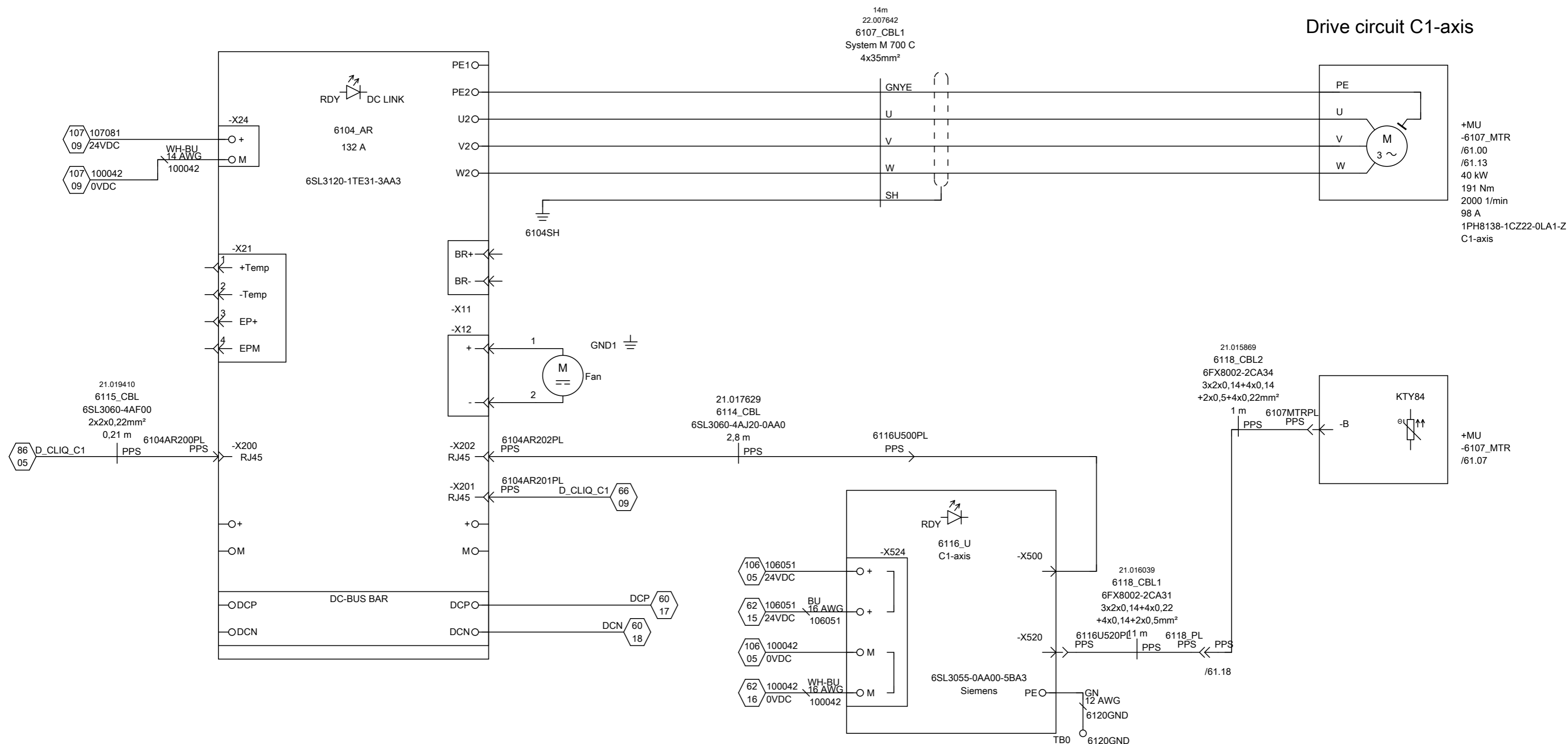
Drive circuit feed in/feed back module

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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				=54794	
Number of sheets				275	Sheet 60
58				Sheet	61

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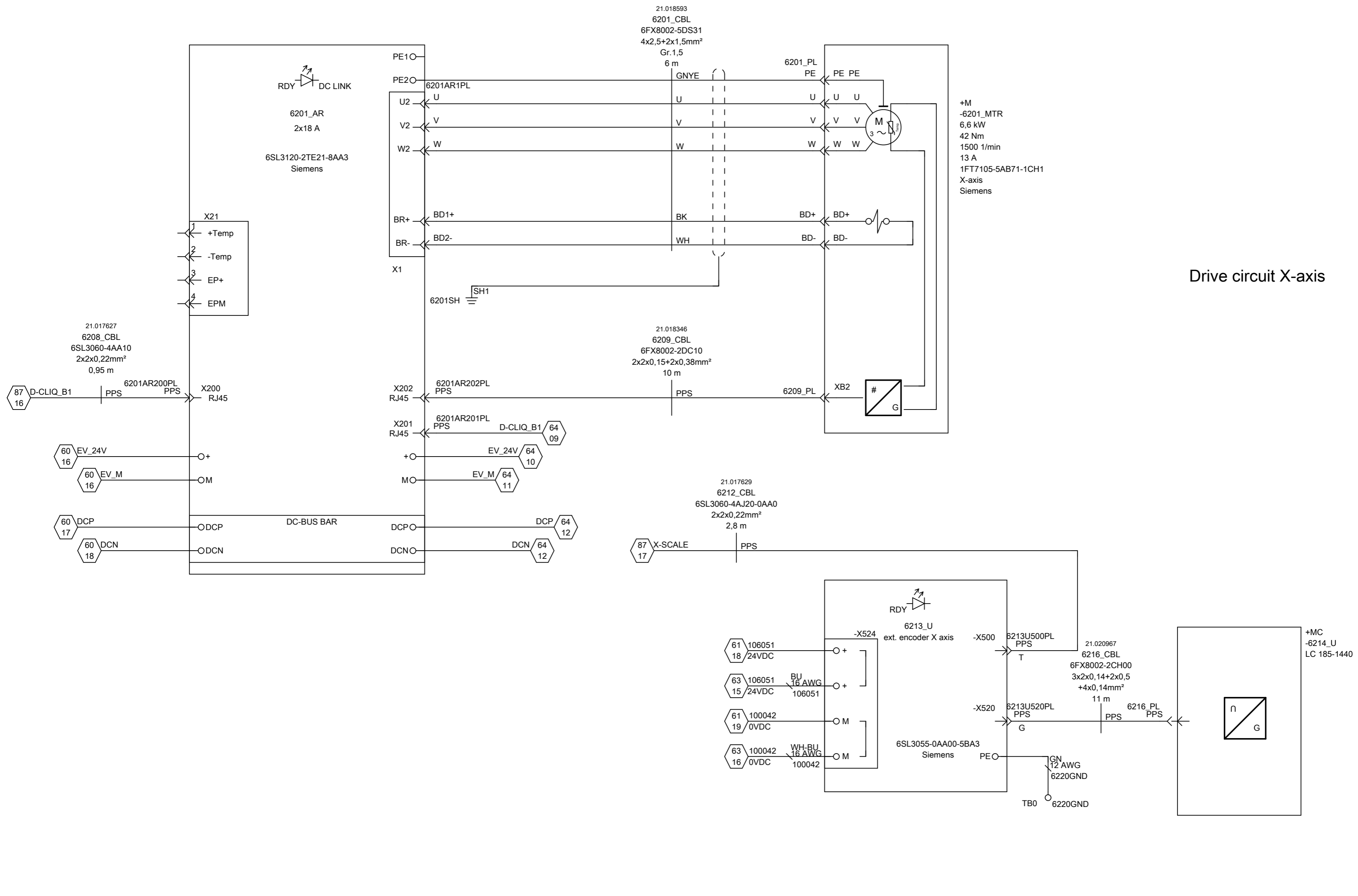


Drive circuit C1-axis



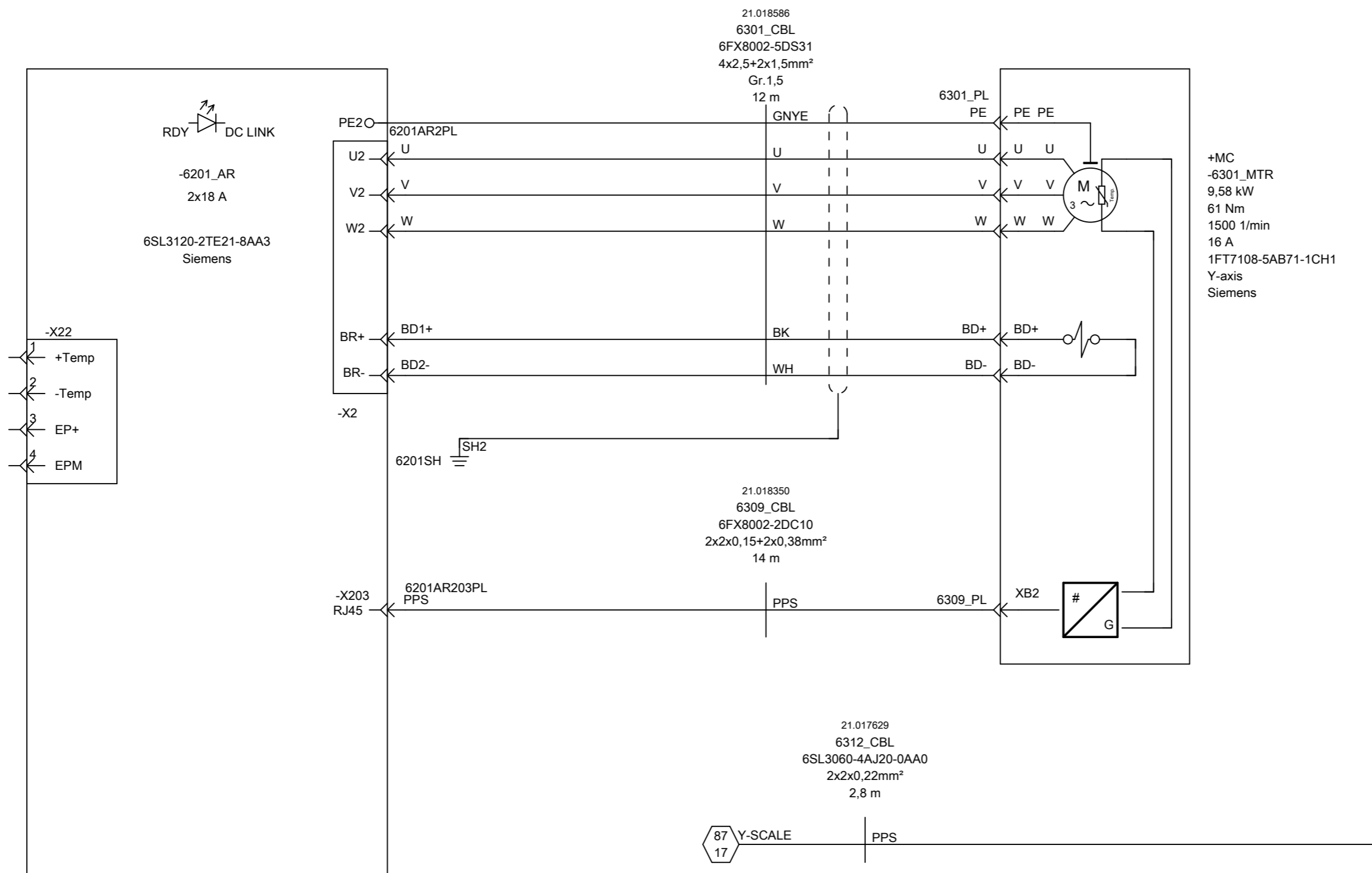
Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of sheets 275 Sheet 61	
Drive circuit C1-axis					
ePLAN P8 2.2.5		=54784		60 Sheet 62	

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Drive circuit X-axis

Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	22.03.2016	AHP5/EWD	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit X-axis				Inv.No.	
				Number of sheets	
ePLAN P8 2.2.5				275	
=54794				Sheet 62	



Drive circuit Y-axis

Project description P-009084				Project JIC_EP05479400		
				Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	22.03.2016	AHP5/EWD	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Drive circuit Y-axis				Inv.No.		
				Number of sheets		
ePLAN P8 2.2.5				=54794	275	Sheet 63
				62	Sheet	64

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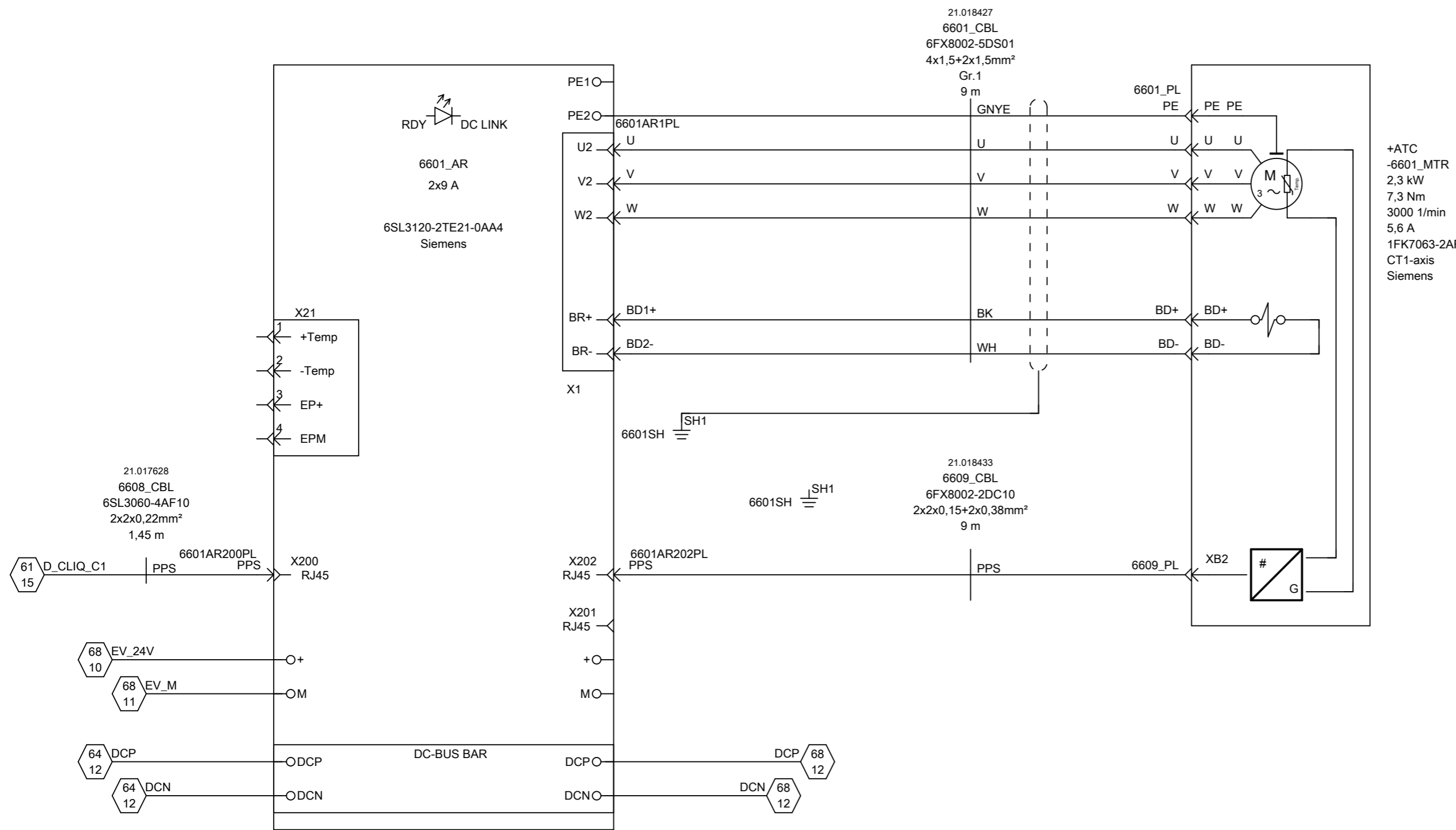
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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Z2-axis				Inv.No.	
				Number of sheets 275 Sheet 65	
ePLAN P8 2.2.5		=54794		◀ 64 Sheet 66 ▶	

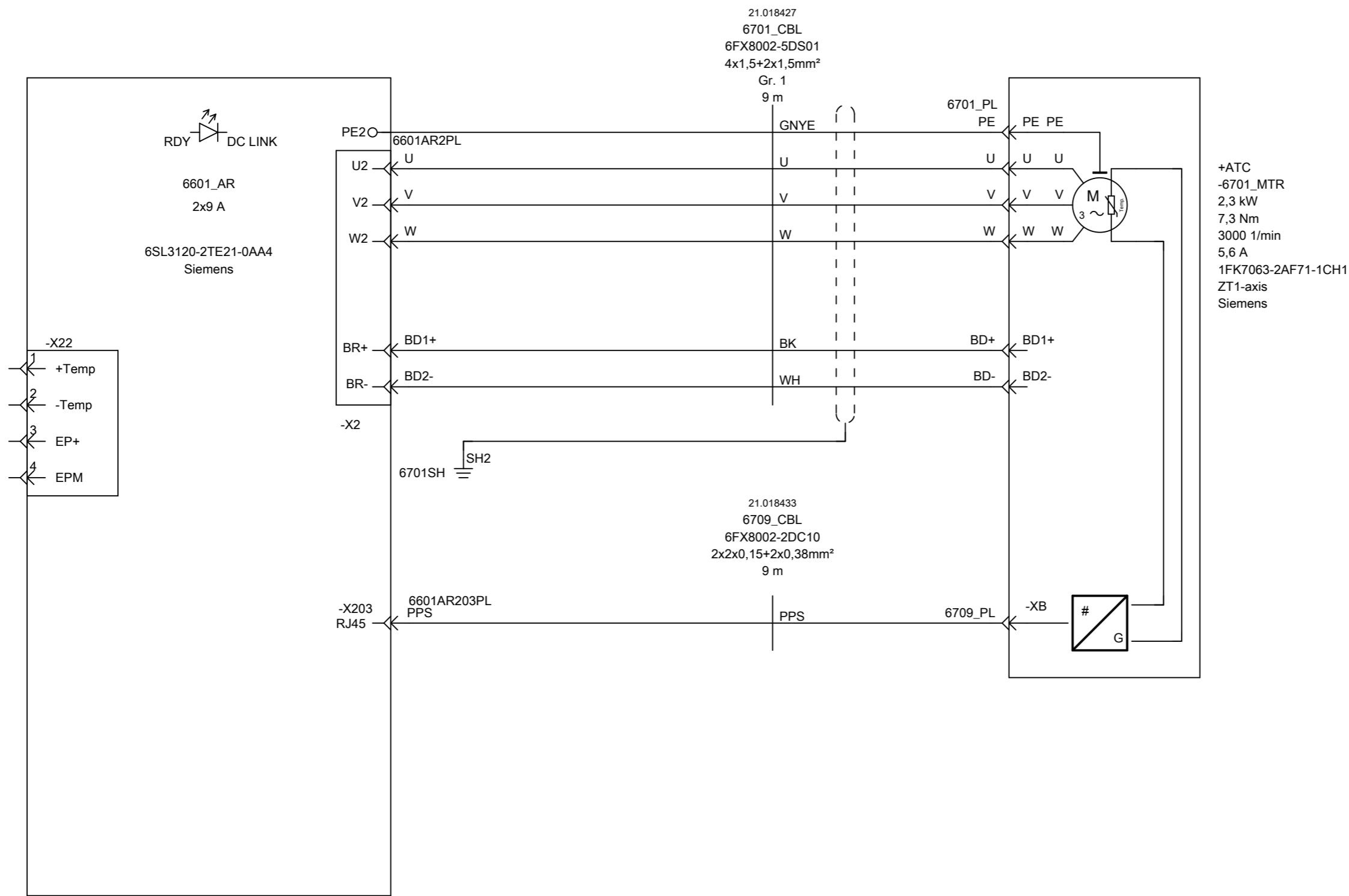
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+ATC
-6601_MTR
2,3 kW
7,3 Nm
3000 1/min
5,6 A
1FK7063-2AF71-1CH1
CT1-axis
Siemens

Drive circuit CT1-
axis

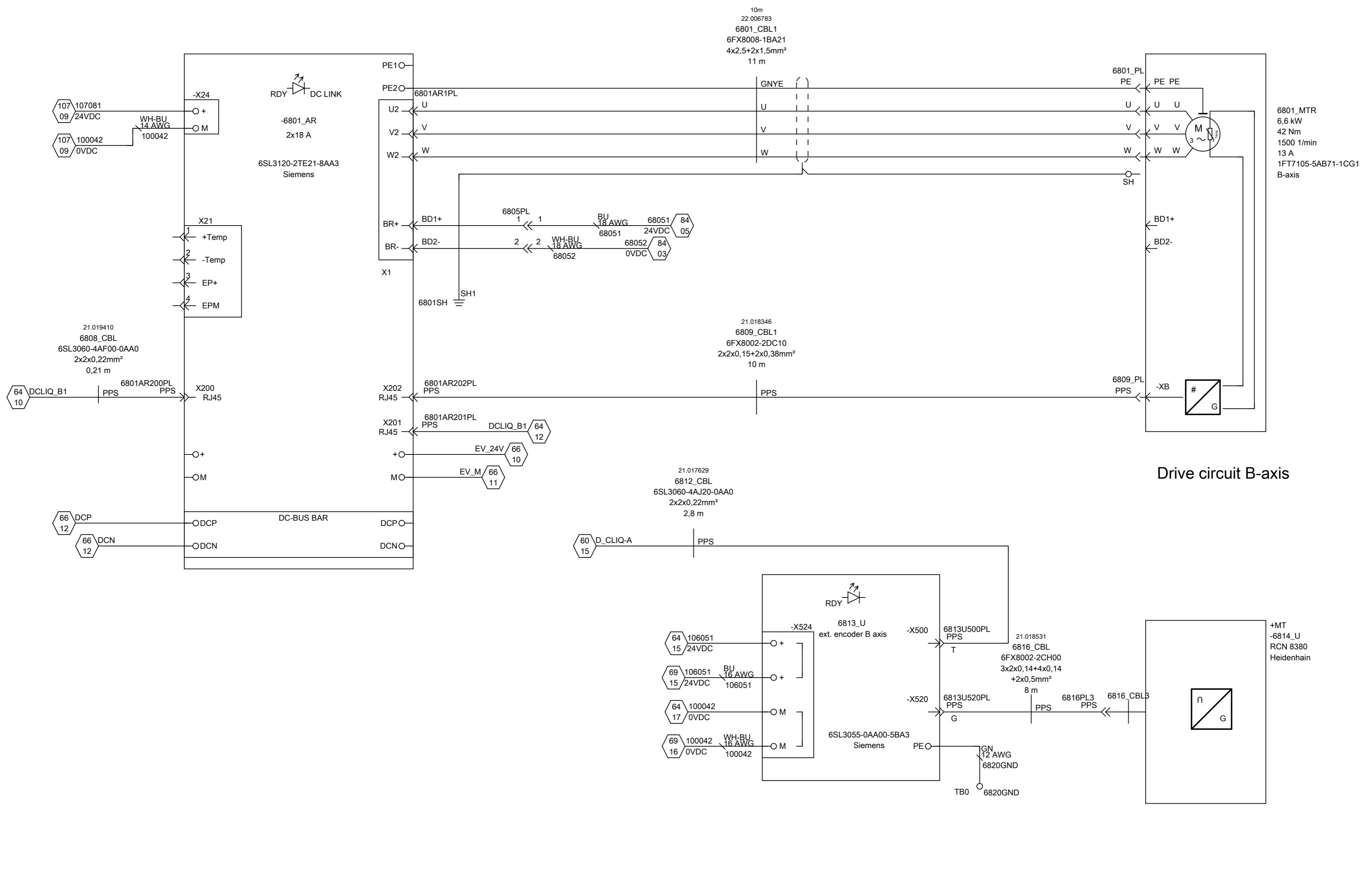
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit CT1-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 66	
=54794				65 Sheet 67	



Drive circuit ZT1-axis

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	22.03.2016	AHP5/EWD	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit ZT1-axis				Inv.No.	
Number of sheets				275	Sheet 67
ePLAN P8 2.2.5		=54794		66	Sheet 68

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Drive circuit B-axis

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit B-axis				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 68	
=54794				67 Sheet 69	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Drive circuit XM-axis				Number of sheets 275 Sheet 70	
ePLAN P8 2.2.5		=54784		69	Sheet 71

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit YM-axis				Number of sheets 275 Sheet 71	
ePLAN P8 2.2.5		=54784		70	Sheet 72

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit ZM-axis				Number of sheets 275 Sheet 72	
ePLAN P8 2.2.5		=54784		71	Sheet 73

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Drive circuit BM-axis				Inv.No.	
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				72	74

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit BP-axis				Number of sheets 275 Sheet 74	
ePLAN P8 2.2.5		=54794		73	Sheet 75

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Drive circuit BR-axis				Inv.No.	
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				74	75

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit U-axis				Number of sheets 275 Sheet 76	
ePLAN P8 2.2.5		=54794		75	Sheet 77

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
reserve drive circuit C-axis				Inv.No.	
				Number of sheets 275 Sheet 77	
ePLAN P8 2.2.5		=54784		◀ 76 Sheet 78 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve drive switching				Number of sheets 275 Sheet 78	
ePLAN P8 2.2.5		=54794		77	Sheet 79

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Drive circuit Voltage Sensing Module				Number of sheets 275 Sheet 79	
ePLAN P8 2.2.5		=54784		78	Sheet 80

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit, temperature evaluation, F-series torque motor				Number of sheets 275 Sheet 80	
ePLAN P8 2.2.5		=54794		79	Sheet 81

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Reserve

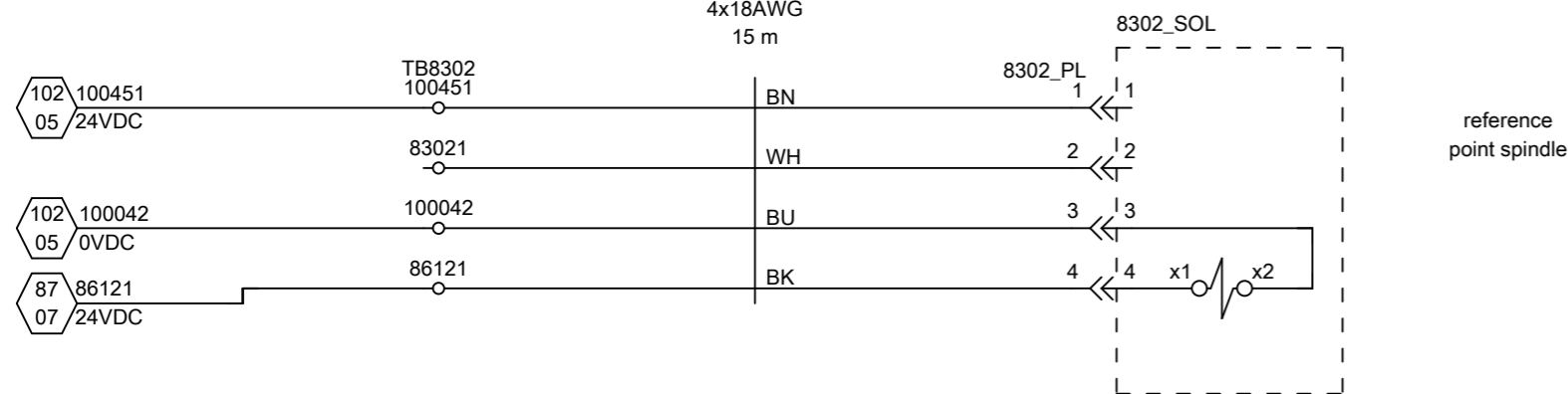
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit, external encoder evaluation (measuring scales), Fanuc only				Number of sheets 275 Sheet 81	
ePLAN P8 2.2.5		=54794		80	Sheet 82

Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve HPC/PSC gear shifting				Number of sheets 275 Sheet 82	
ePLAN P8 2.2.5		=54794		81	Sheet 83

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

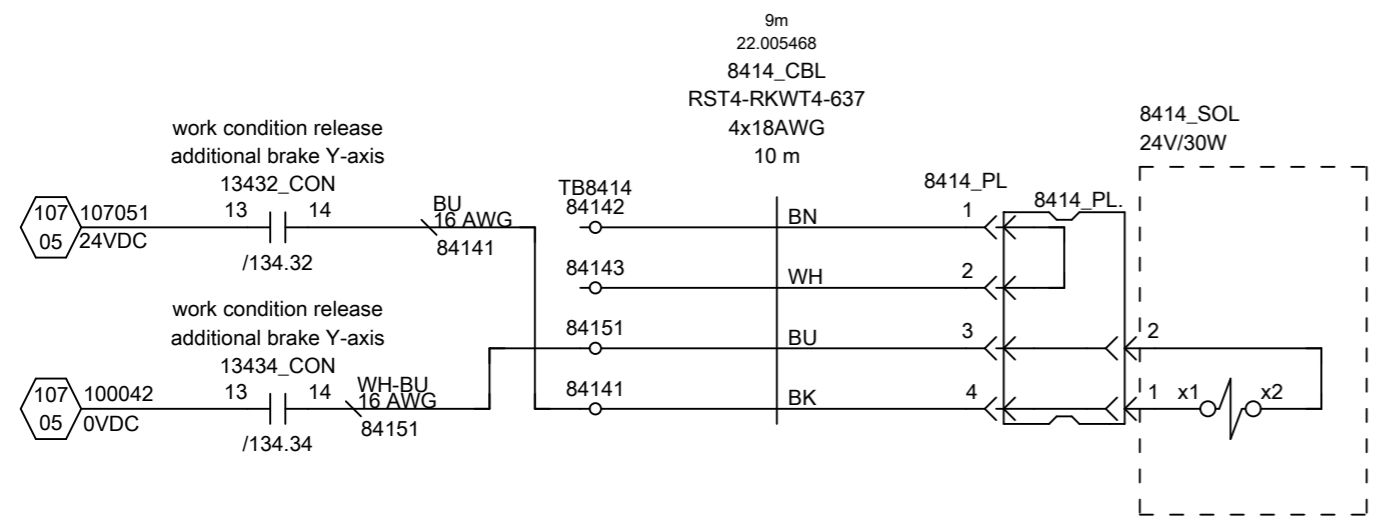
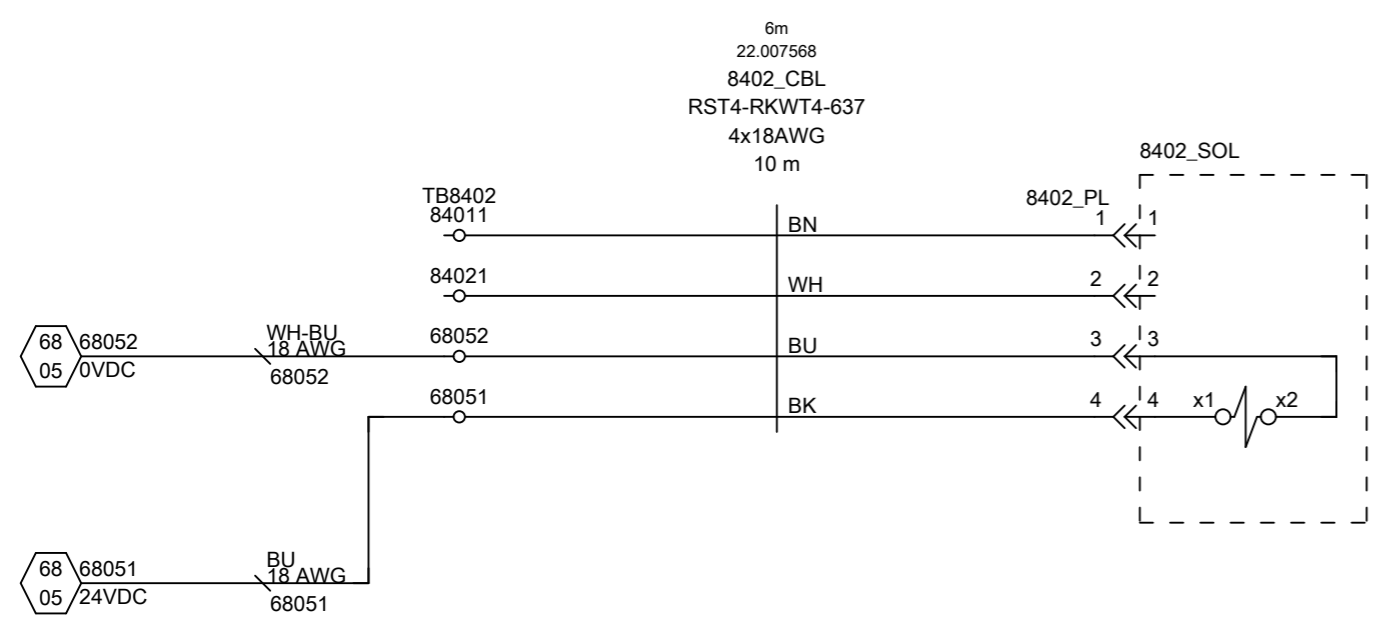


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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	01.12.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Monitoring: Reference point / Ext. encoder for gear unit					
ePLAN P8 2.2.5		=54794		82	Sheet 84

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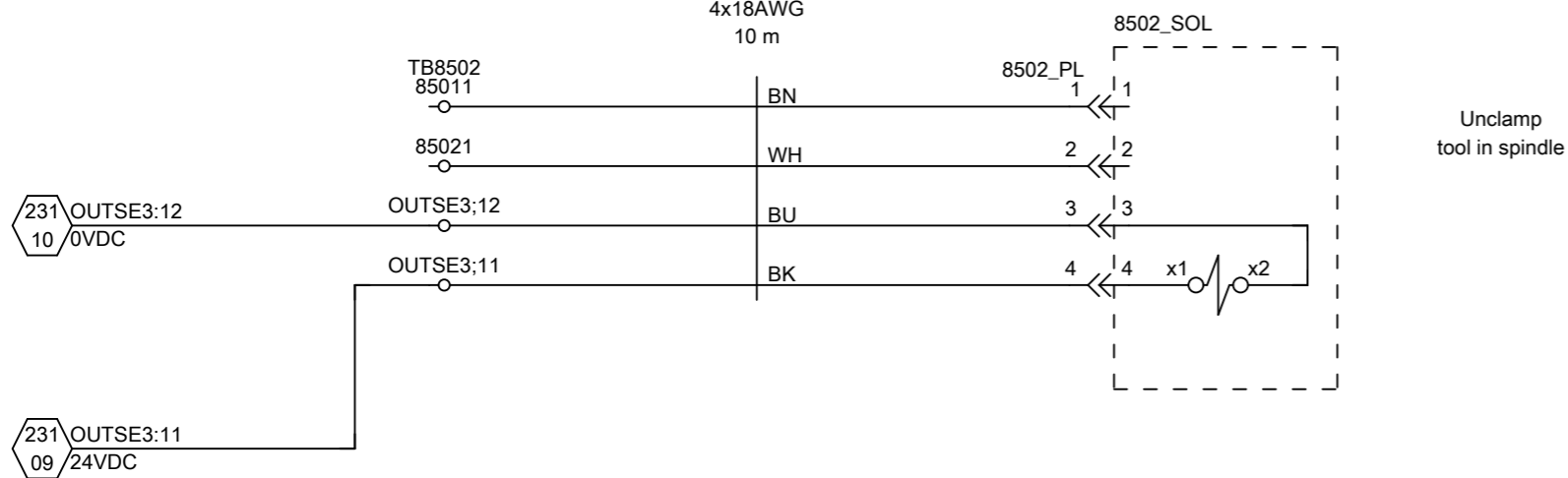
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	09.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Brake and lock control				Inv.No.	
ePLAN P8 2.2.5				=54794	
Number of sheets				275	Sheet 84
◀ 83				Sheet	85

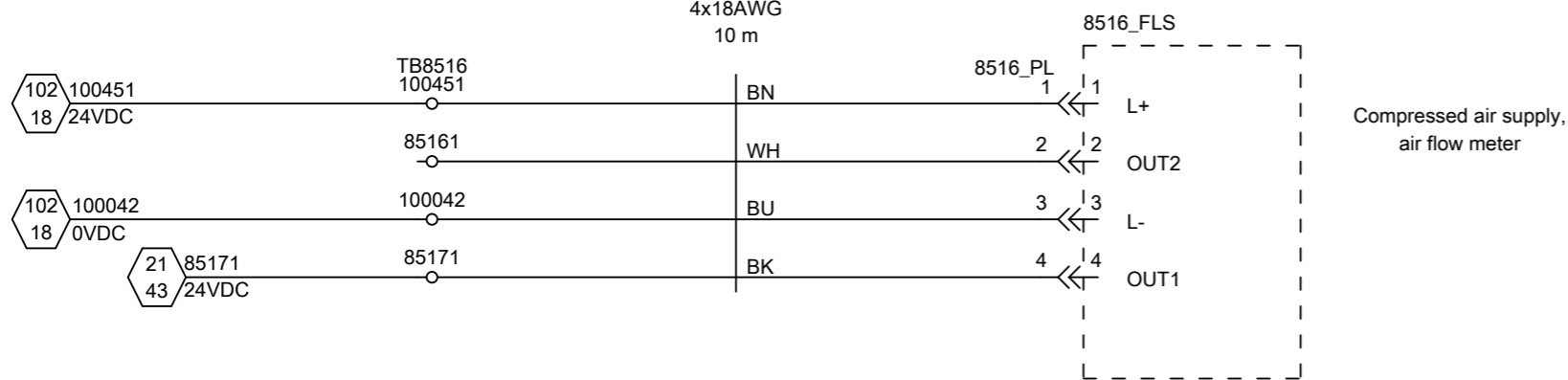
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10m
22.007689
8502_CBL
RST4-RKWT4-637
4x18AWG
10 m



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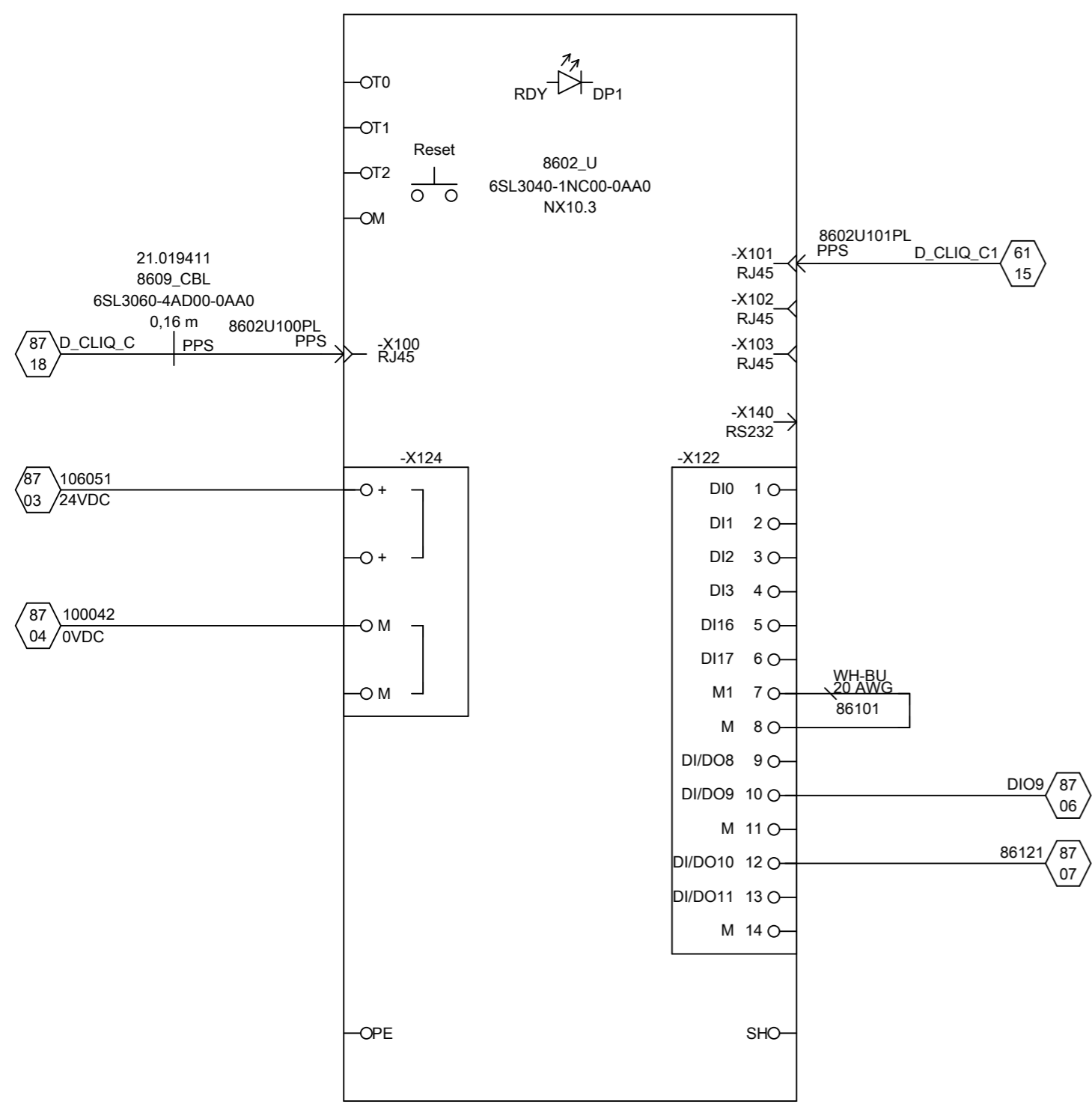
6m
22.007568
8516_CBL
RST4-RKWT4-637
4x18AWG
10 m



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Unclamp tool in spindle				Inv.No.		
				Number of sheets	275	
ePLAN P8 2.2.5				=54794	Sheet	85

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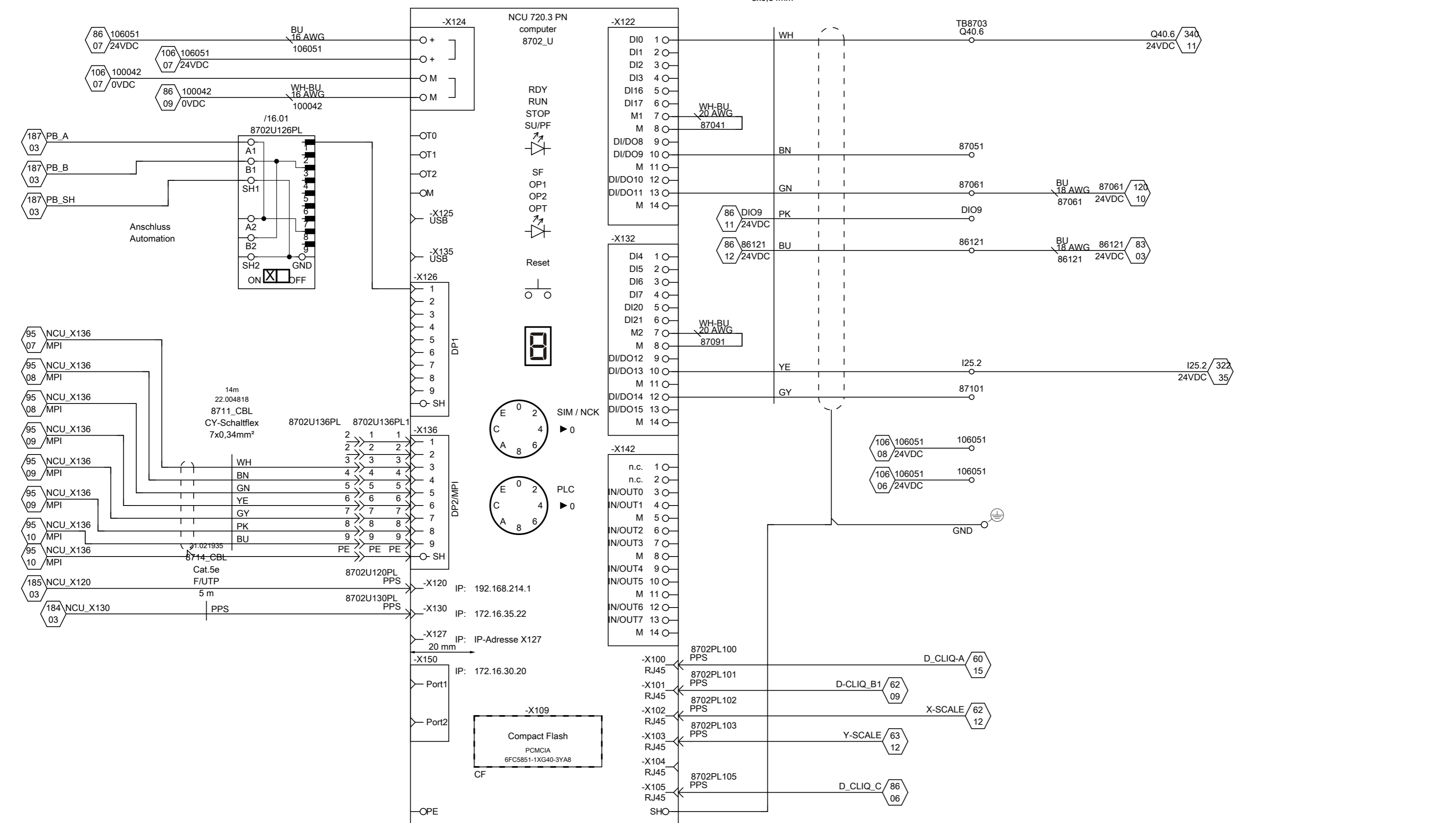
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Expansion assembly NC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 86	
=54794				85 Sheet 87	

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4m
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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_EP05479400 Machine serial number M54802	
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				275	Sheet 87
ePLAN P8 2.2.5		=54794	86		Sheet 88

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 275 Sheet 88	
ePLAN P8 2.2.5		=54794		◀ 87 Sheet 89 ▶	

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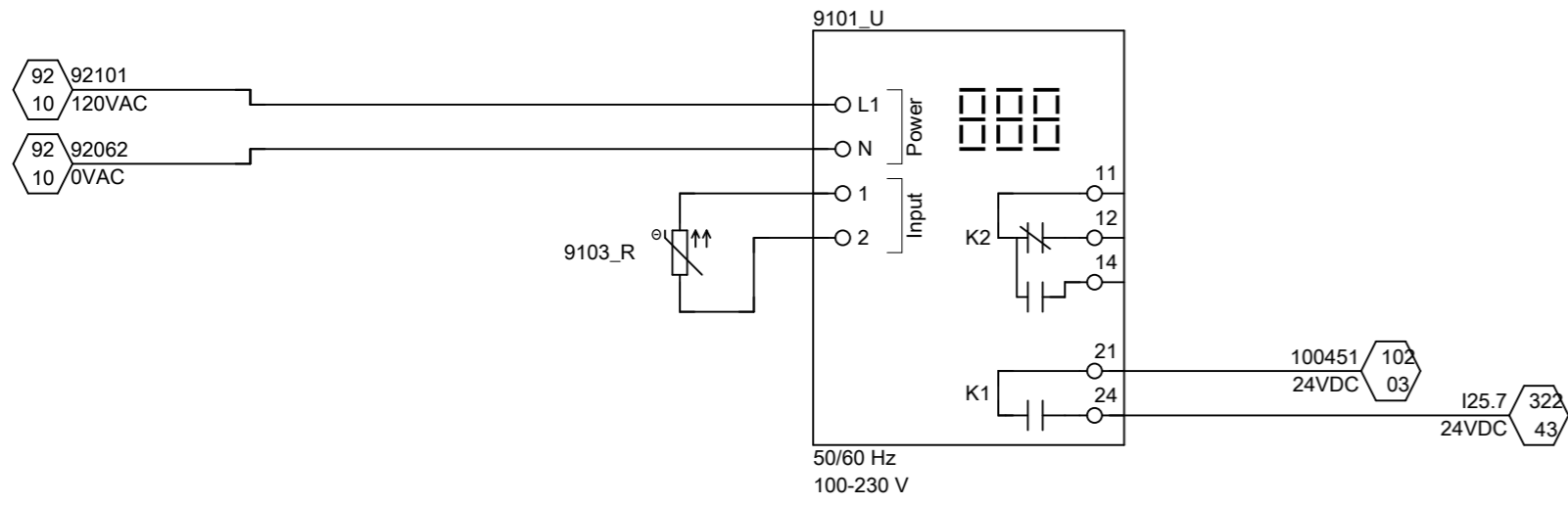
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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 275 Sheet 89	
ePLAN P8 2.2.5		=54794		88	Sheet 90

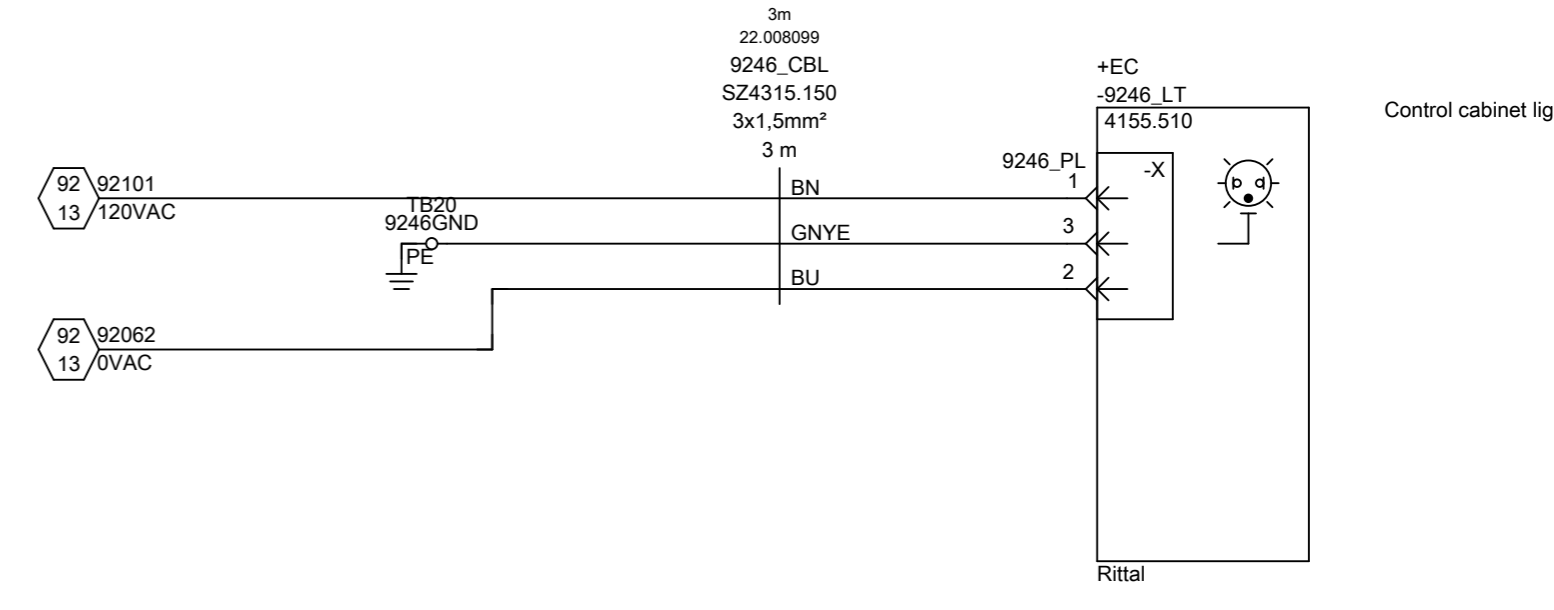
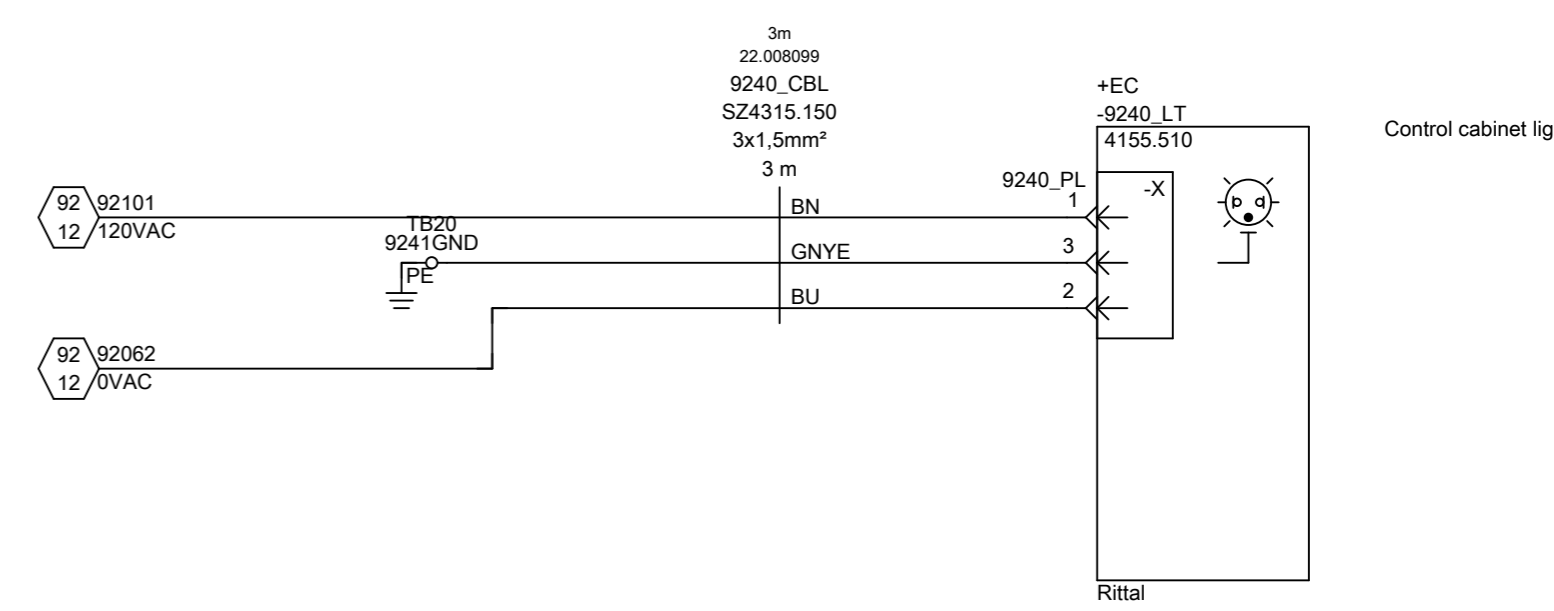
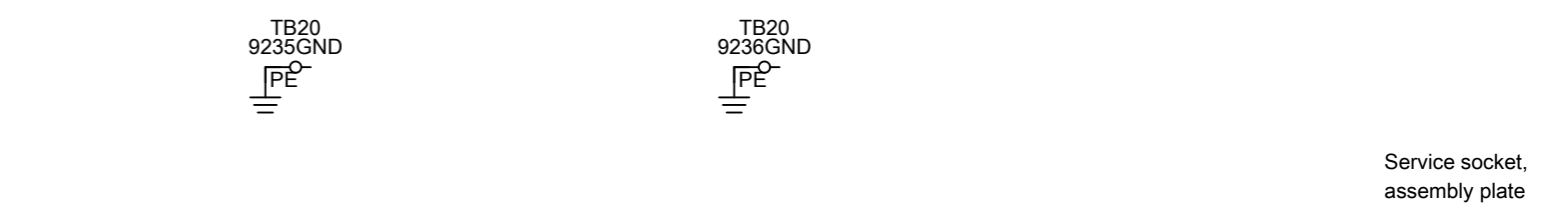
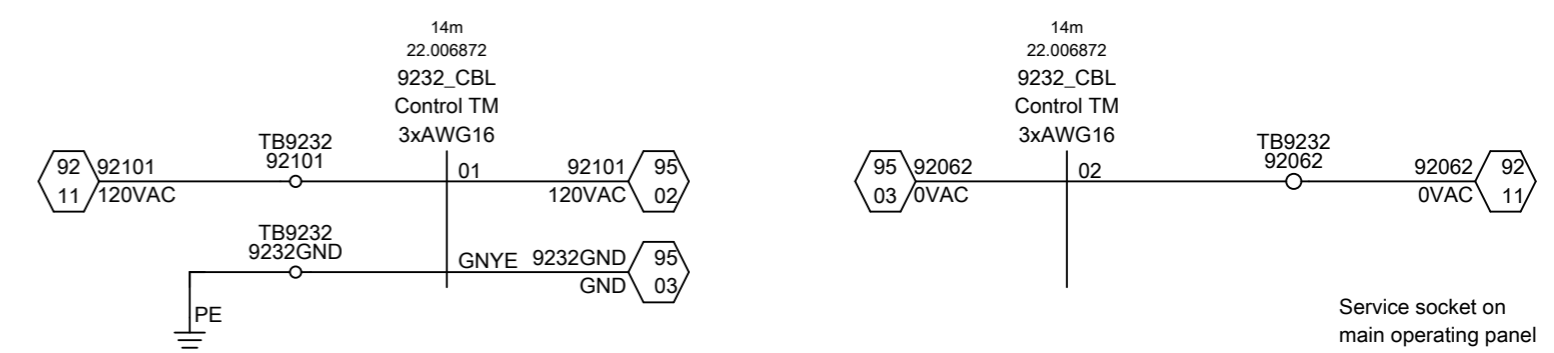
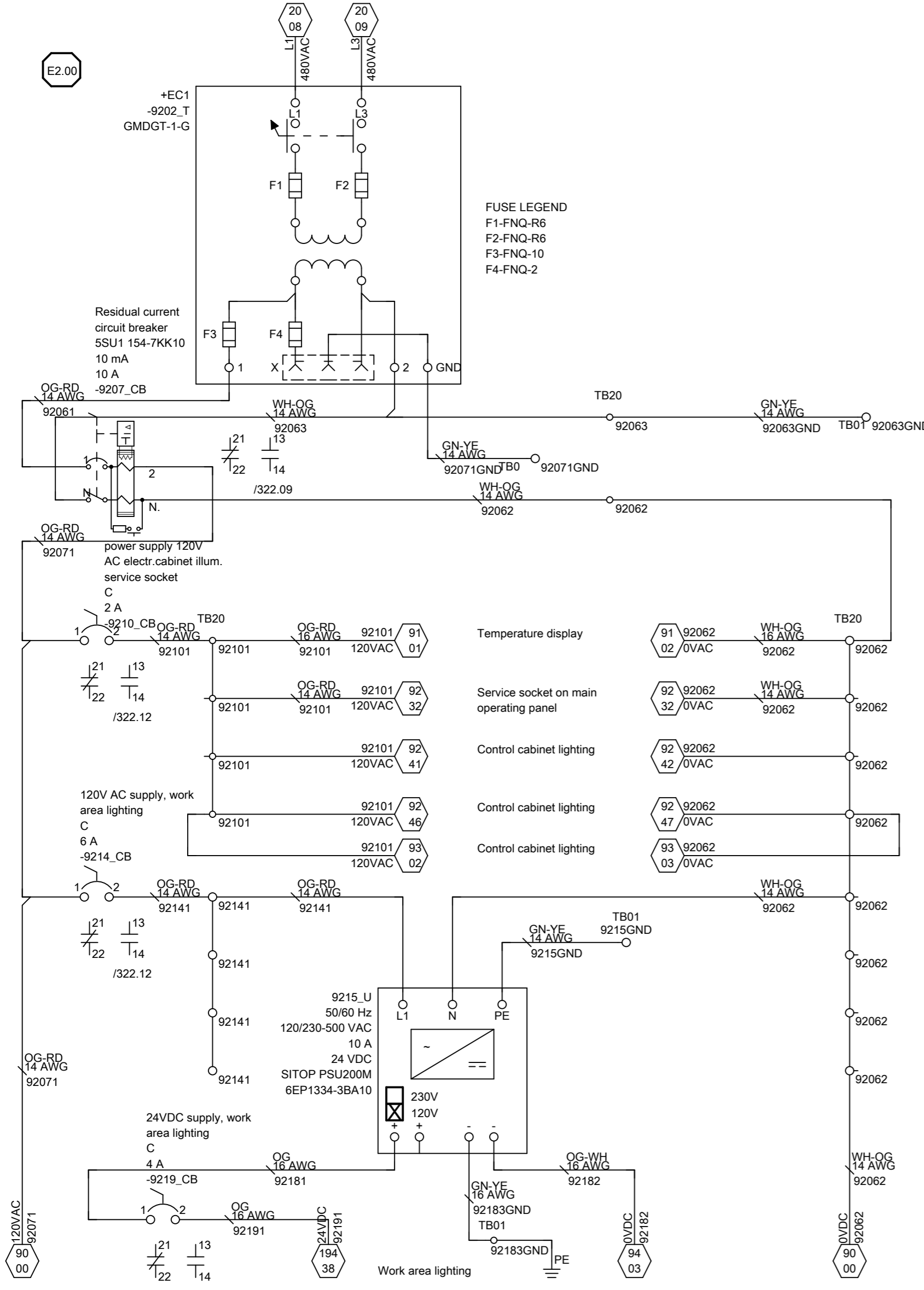
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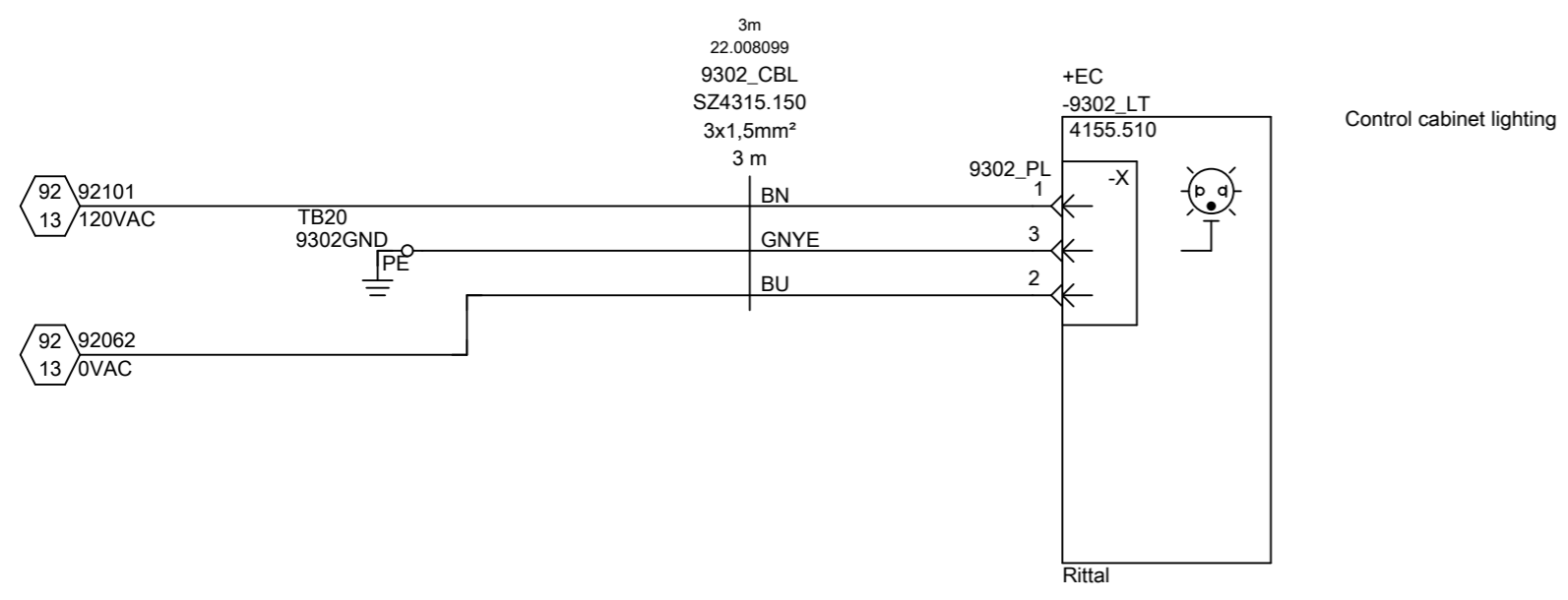
Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	09.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Temperature display Rittal reserve 120V AC supply				Number of sheets 275 Sheet 91	
ePLAN P8 2.2.5		=54784		90	Sheet 92



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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 275 Sheet 92	
power supply 120V AC				Inv.No.	
ePLAN P8 2.2.5 =54784				Number of sheets 275 Sheet 92	

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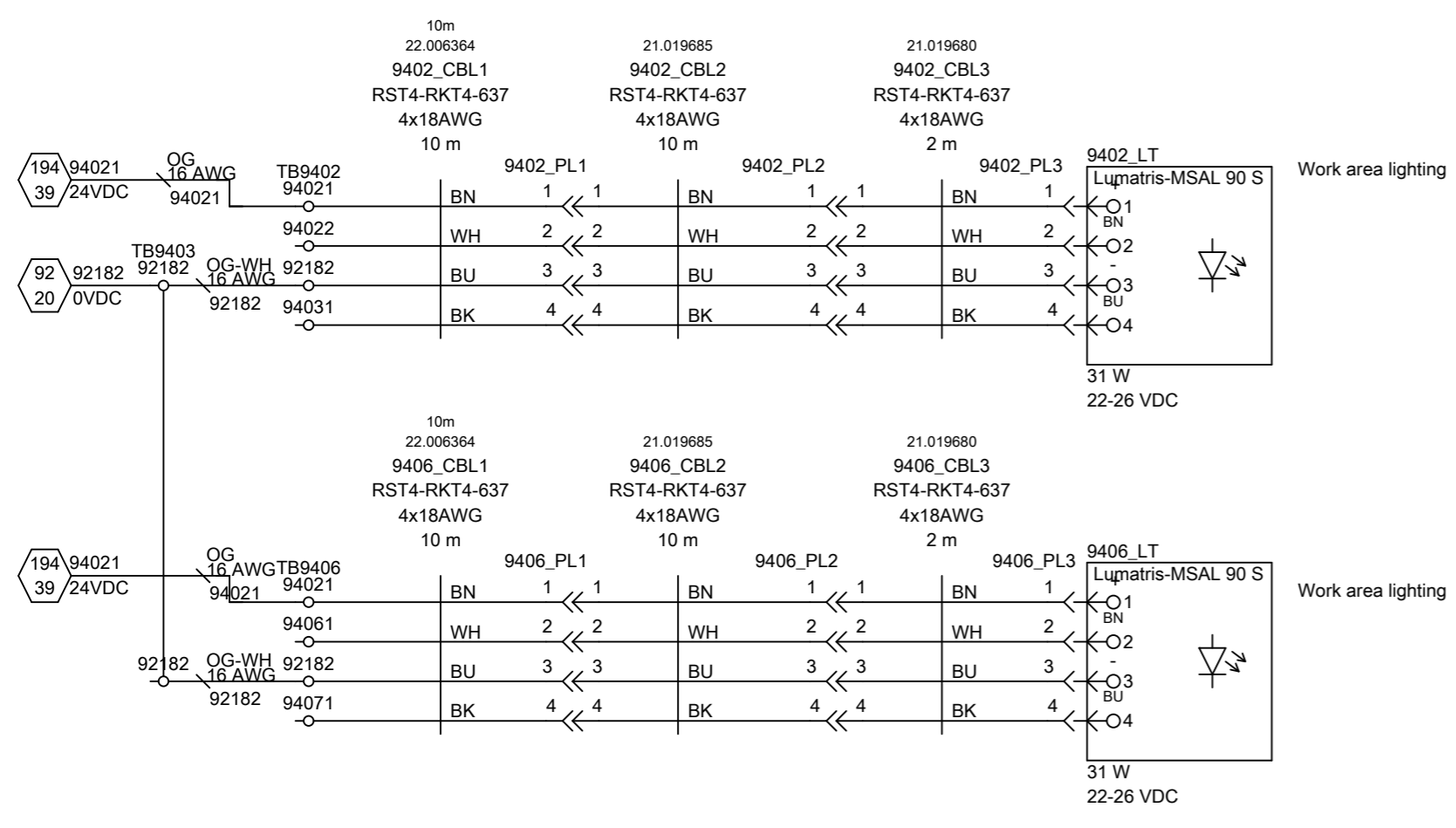
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Control cabinet lighting

Reserve
power supply 120V AC

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Supply 120V AC				Inv.No.	
				Number of sheets 275 Sheet 93	
ePLAN P8 2.2.5		=54794		◀ 92 Sheet 94 ▶	

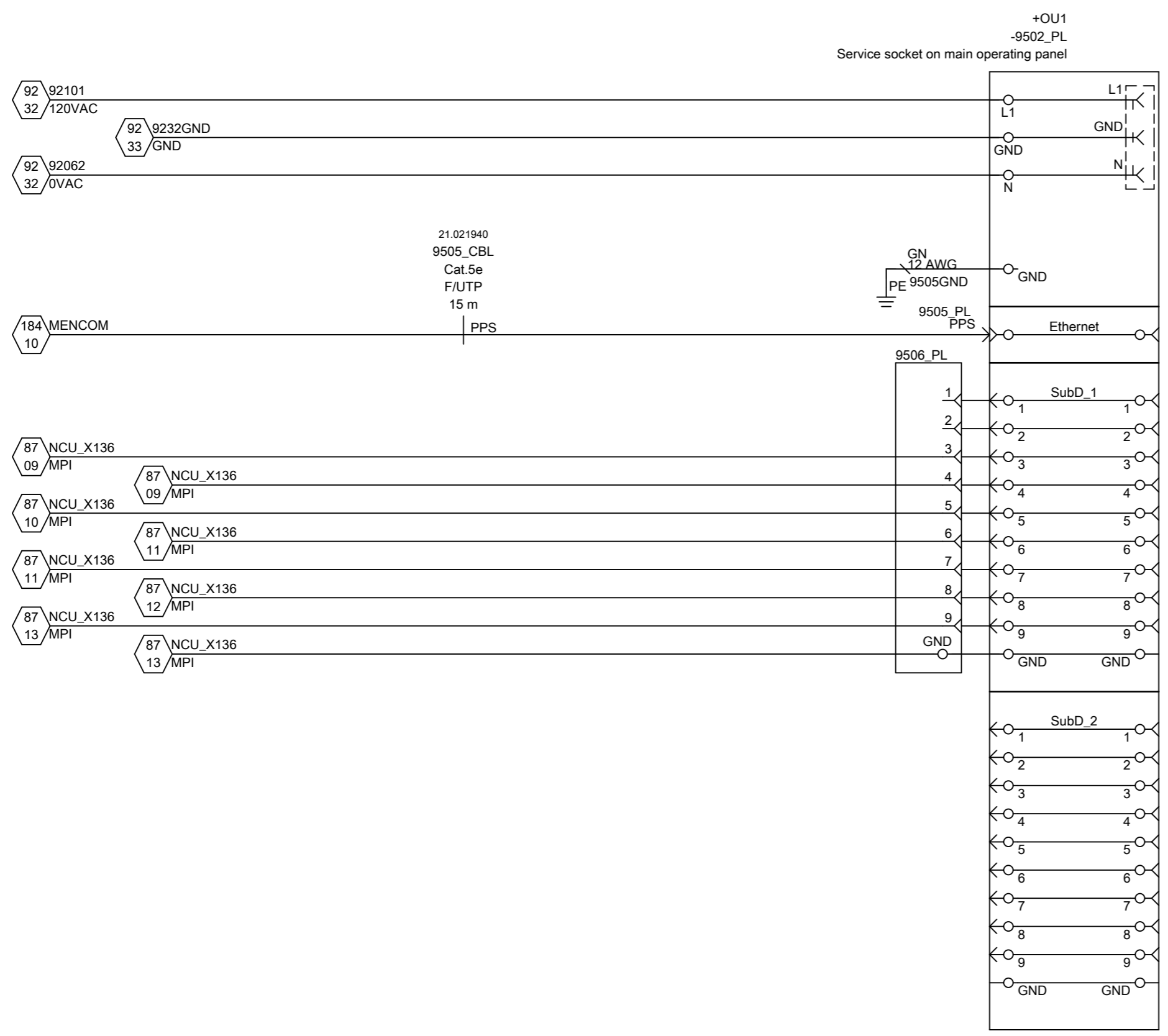
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 120V AC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 94	
=54784				93 Sheet 95	

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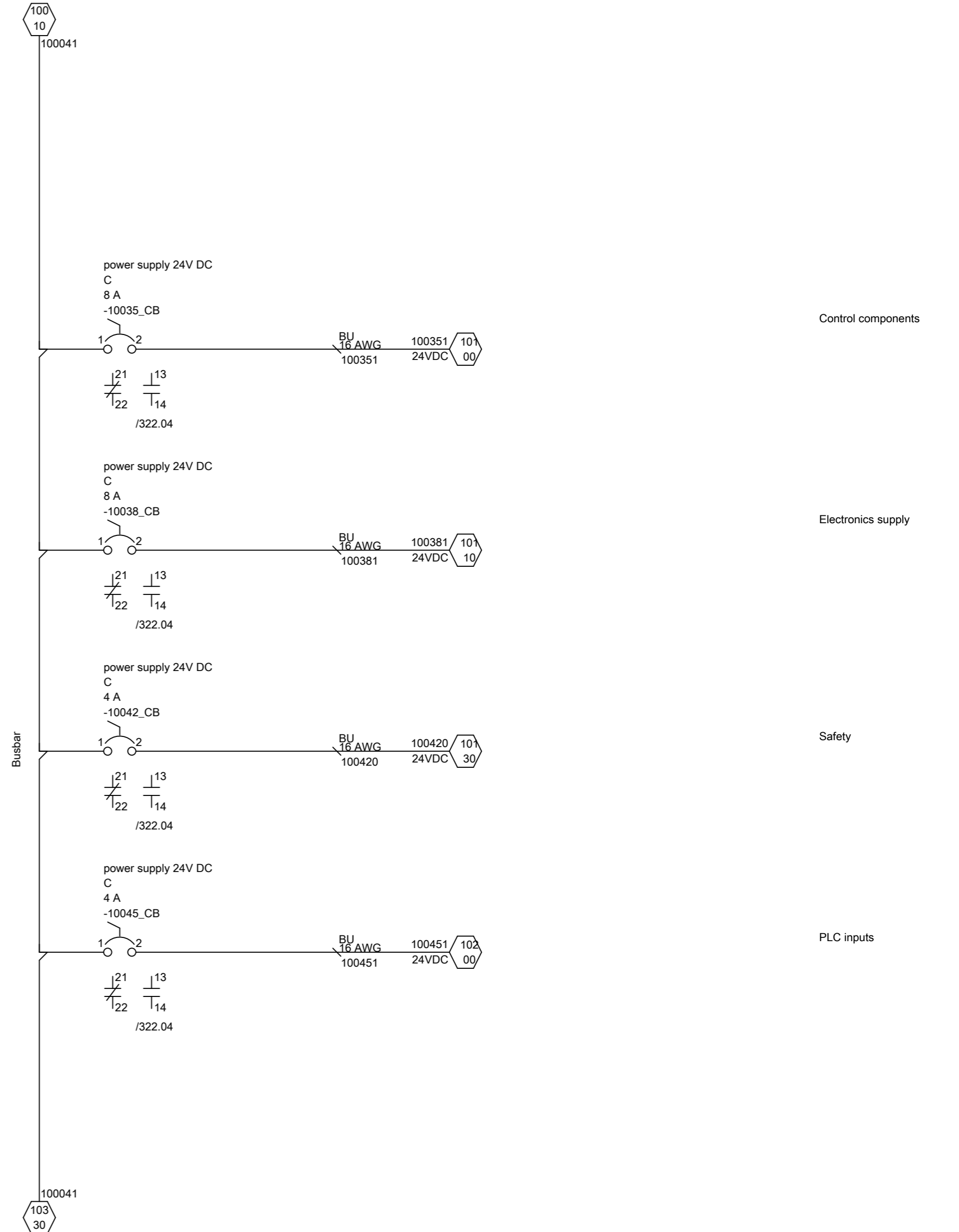
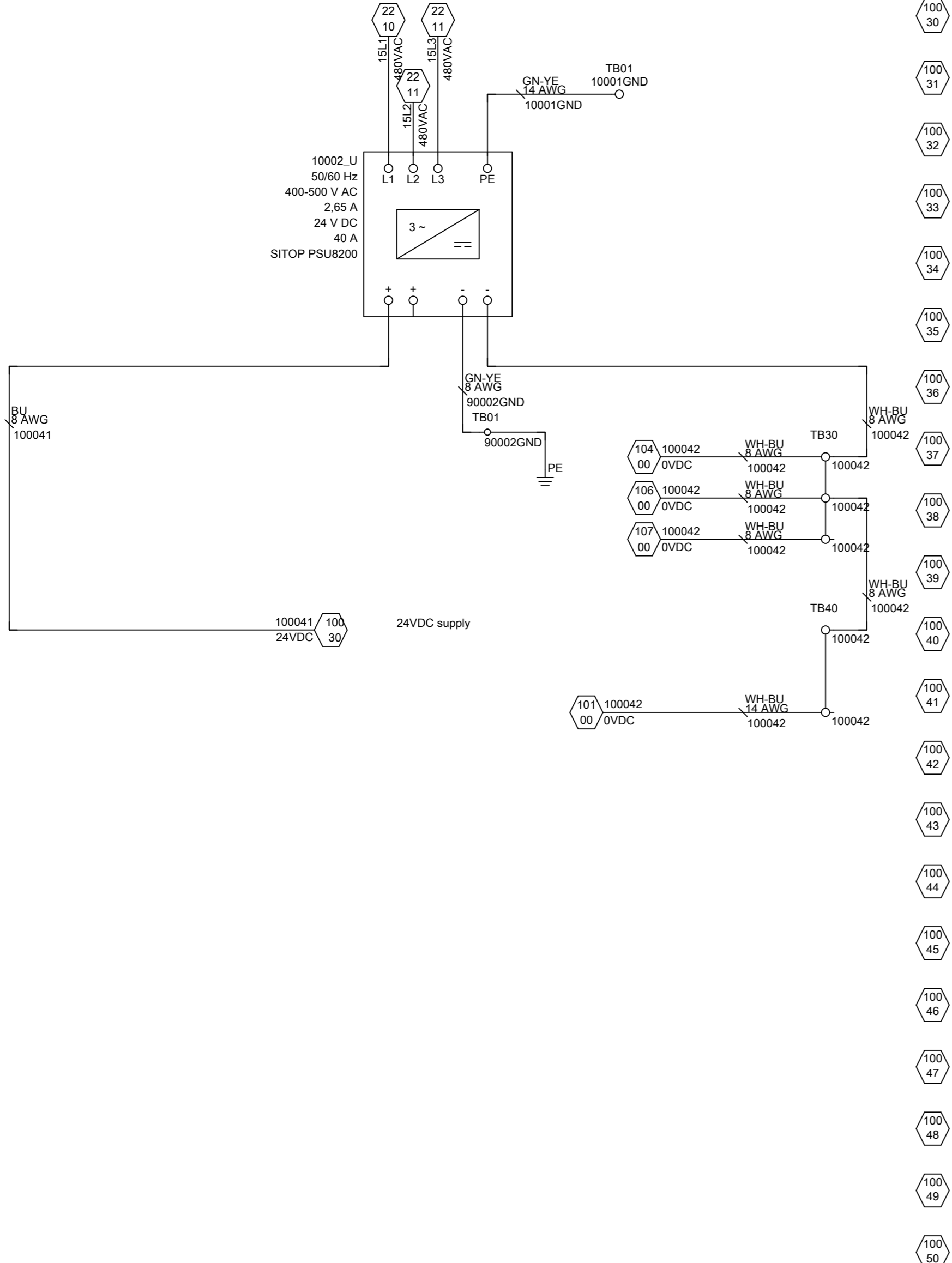


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
MENCOM - interface				Inv.No.	
ePLAN P8 2.2.5				=54784	
Number of sheets				275	Sheet
94				Sheet	96

Reserve
page 96-99

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	29.06.2015	AHP3/RIG			
Reserve page 96-99				Inv.No.	
				Number of sheets 275 Sheet 96	
ePLAN P8 2.2.5		=54794		◀ 95 Sheet 100 ▶	

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Control components

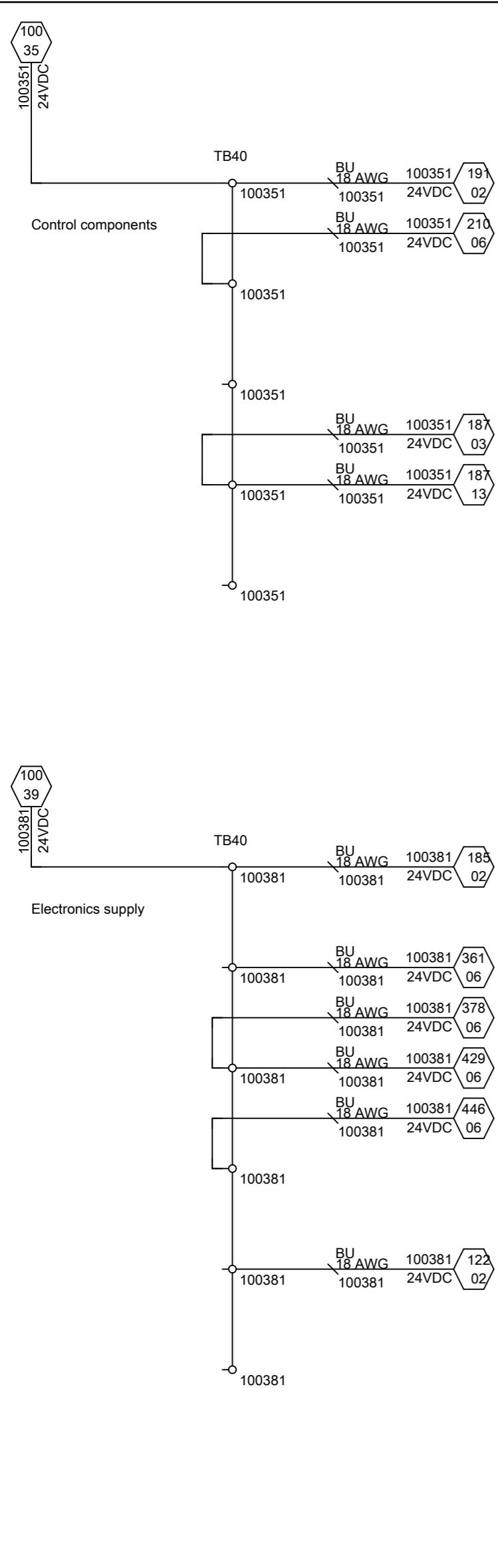
Electronics supply

Safety

PLC inputs

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	09.06.2016	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 275 Sheet 100	
=54784				96 Sheet 101	

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OP012/TCU
main operating panel

Profibus-Interface

HT2
Sheet 200

HT2

Diagnose-Repeater 1

Diagnose-Repeater 2

Switch

Inputs/outputs
HELP 1/1

Inputs/outputs
HELP 1/2

Inputs/outputs
HELP 2

Inputs/outputs
HELP 1/5

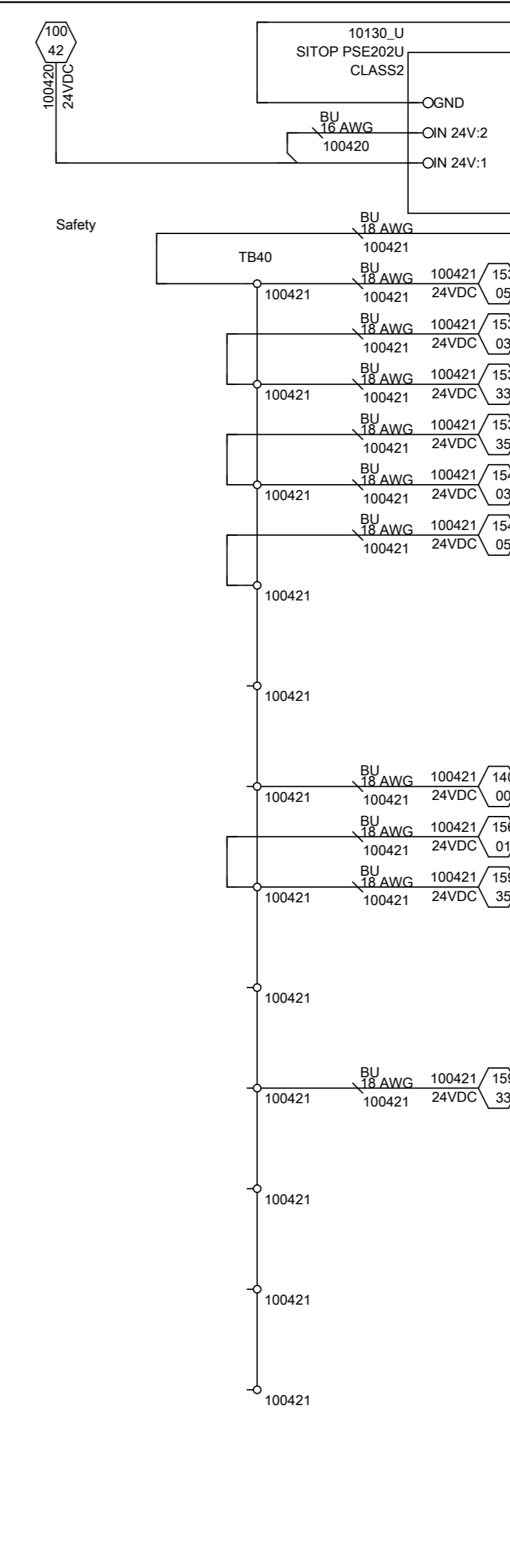
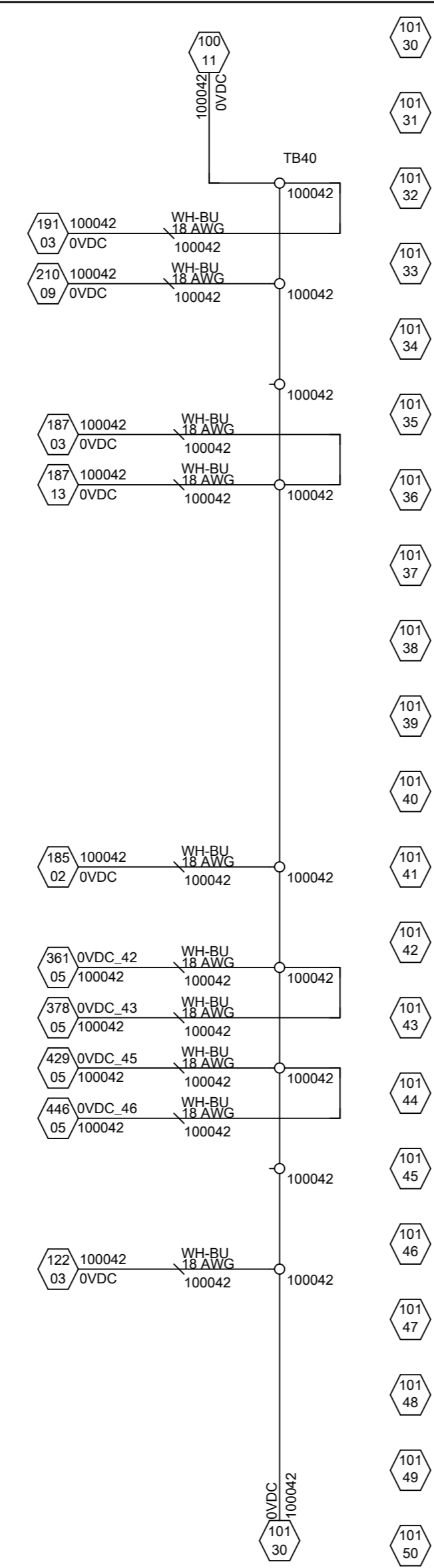
Scalance

Barcodeleser-Handscanner

Tool identification

Tool rack magazine

CIAB



Work area
safety door

Work area
safety door

Tool loading
station safety door

Tool loading
station safety door
Safety door

workpiece loading
station (front)
Safety door

workpiece loading
station (front)

Light curtain
workpiece setting station

Light curtain
workpiece setting station

Workpiece setting station
work area rotary screen

Safety door tool magazine
tool setting station

Workpiece setting station
work area rotary screen

Rear wall maintenance door

Maintenance
door, rack-type tool magazine

Maintenance
door, rack-type tool magazine

Two-handed operation
tool magazine

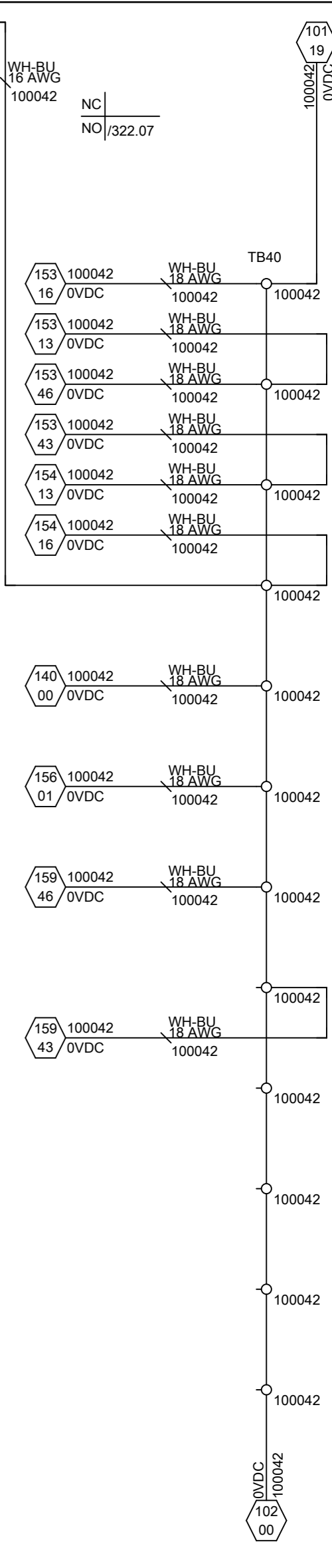
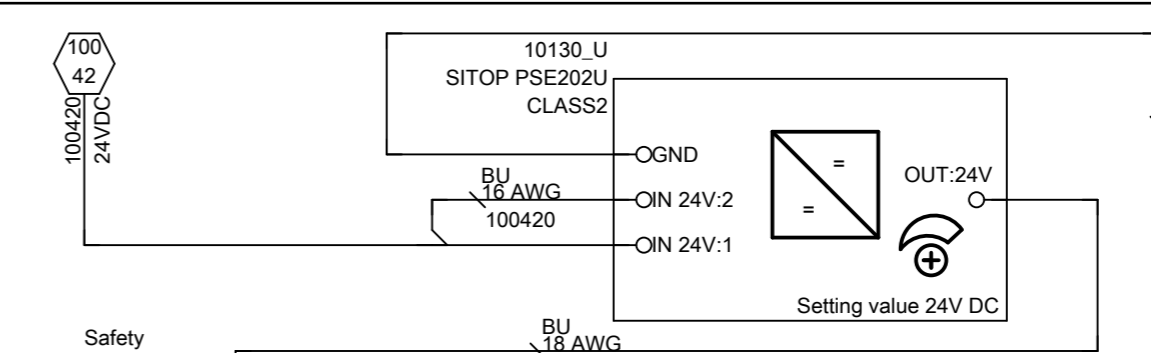
Safety door/rotary plate
work area / workpiece loading
station, position monitoring

Tool drawer 1,
rack-type tool magazine

Tool drawer 1,
rack-type tool magazine

Tool drawer 2,
rack-type tool magazine

Tool drawer 2,
rack-type tool magazine



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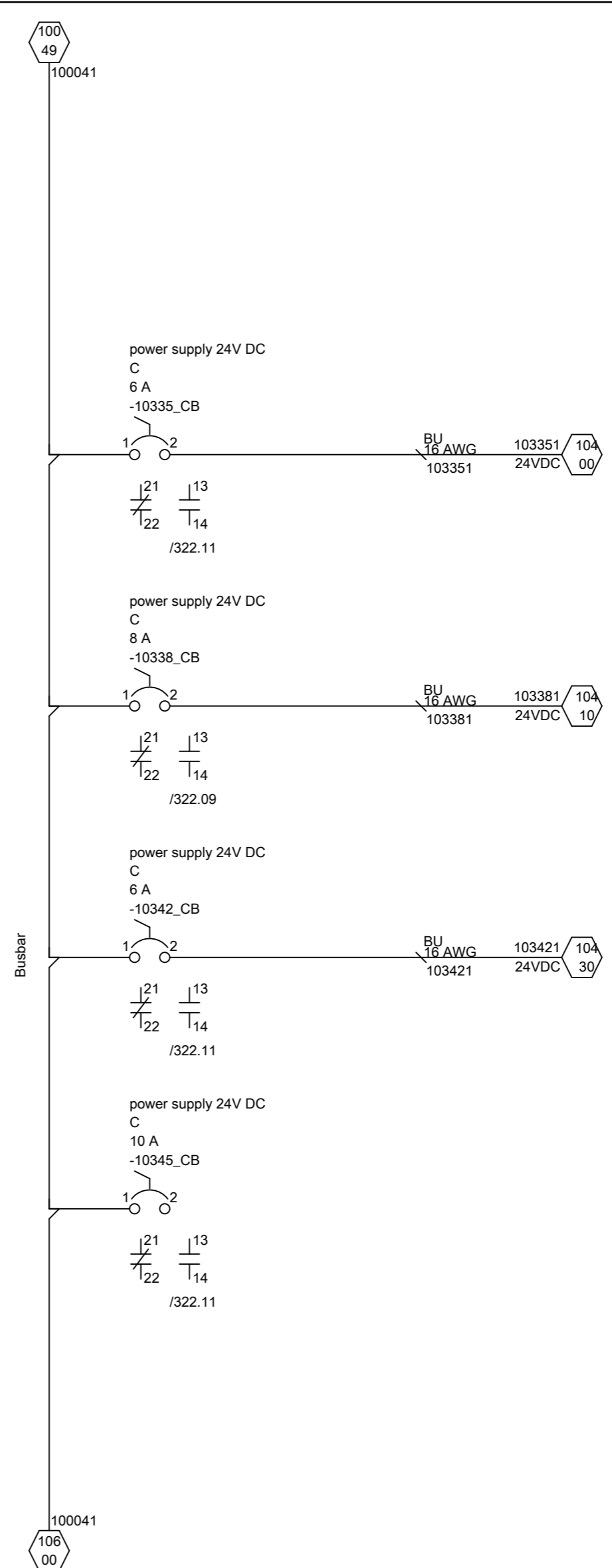
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 101	
=54784				100 Sheet 102	

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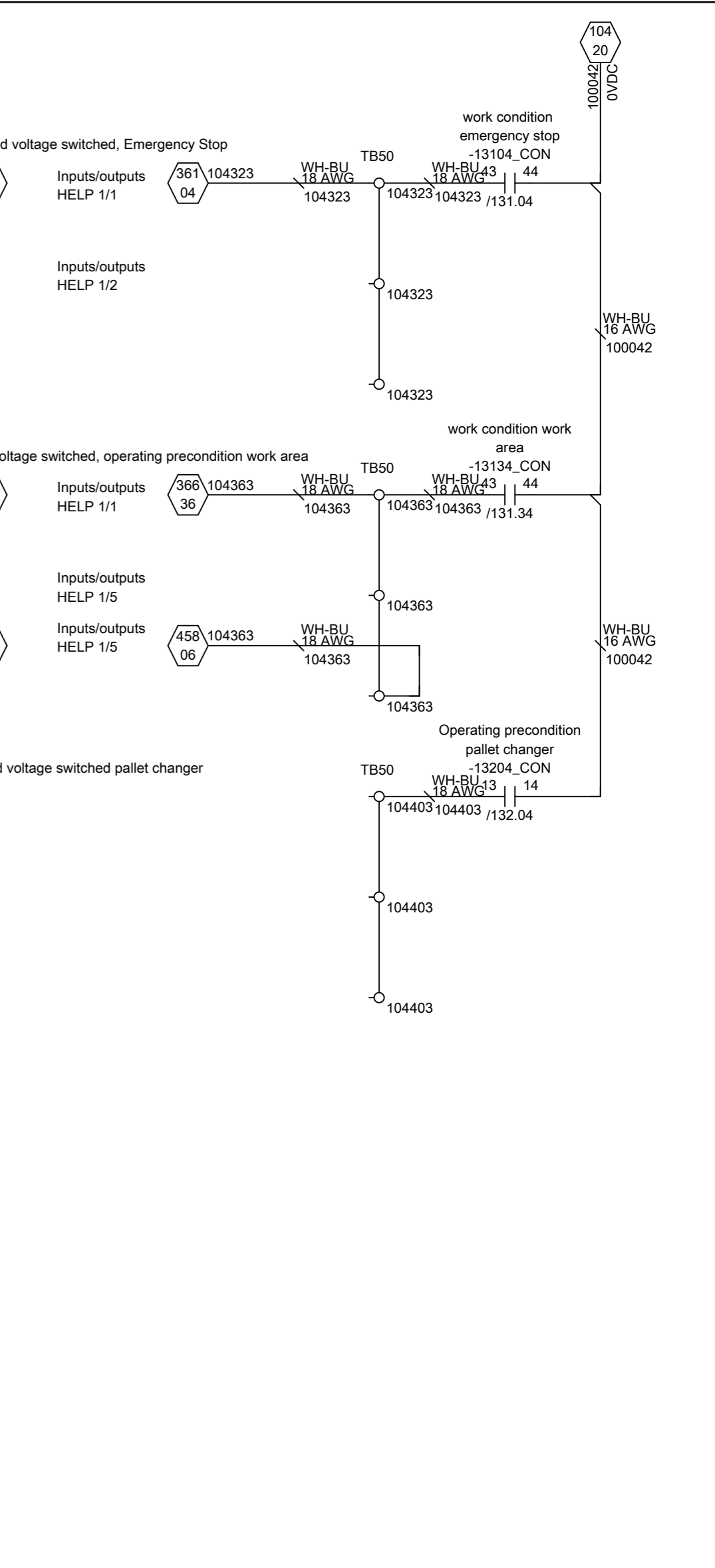
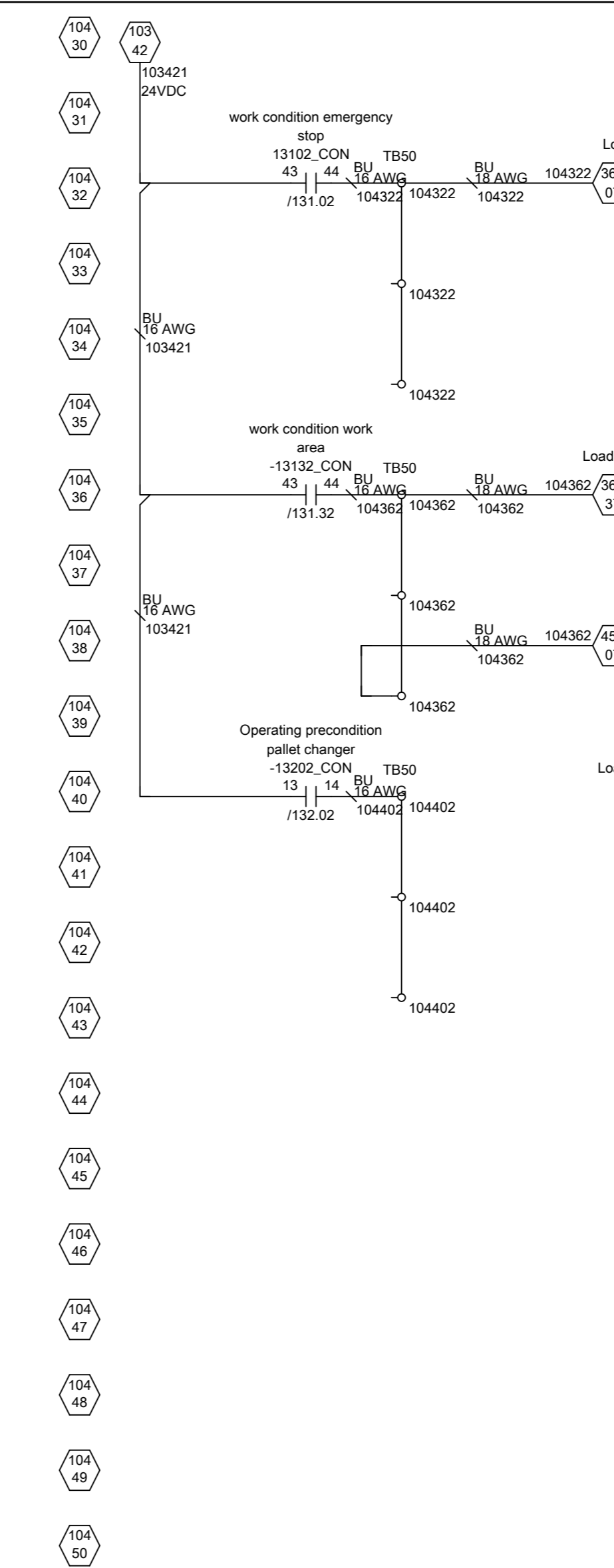
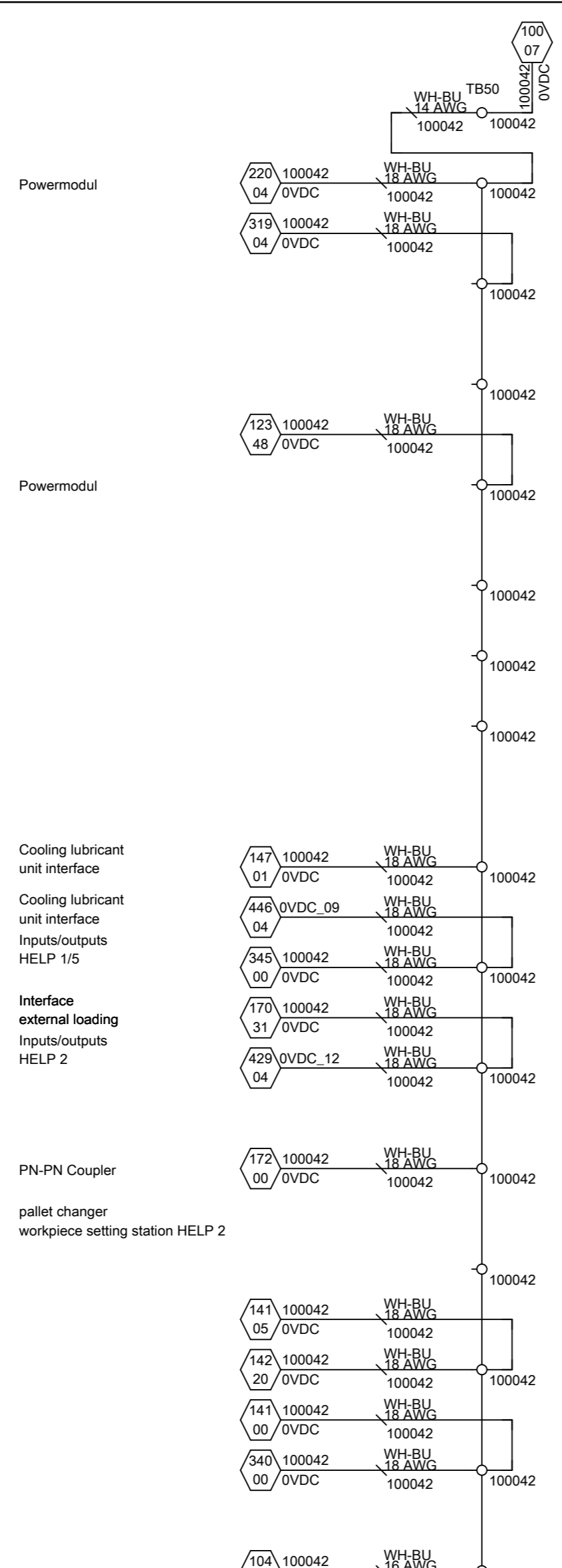
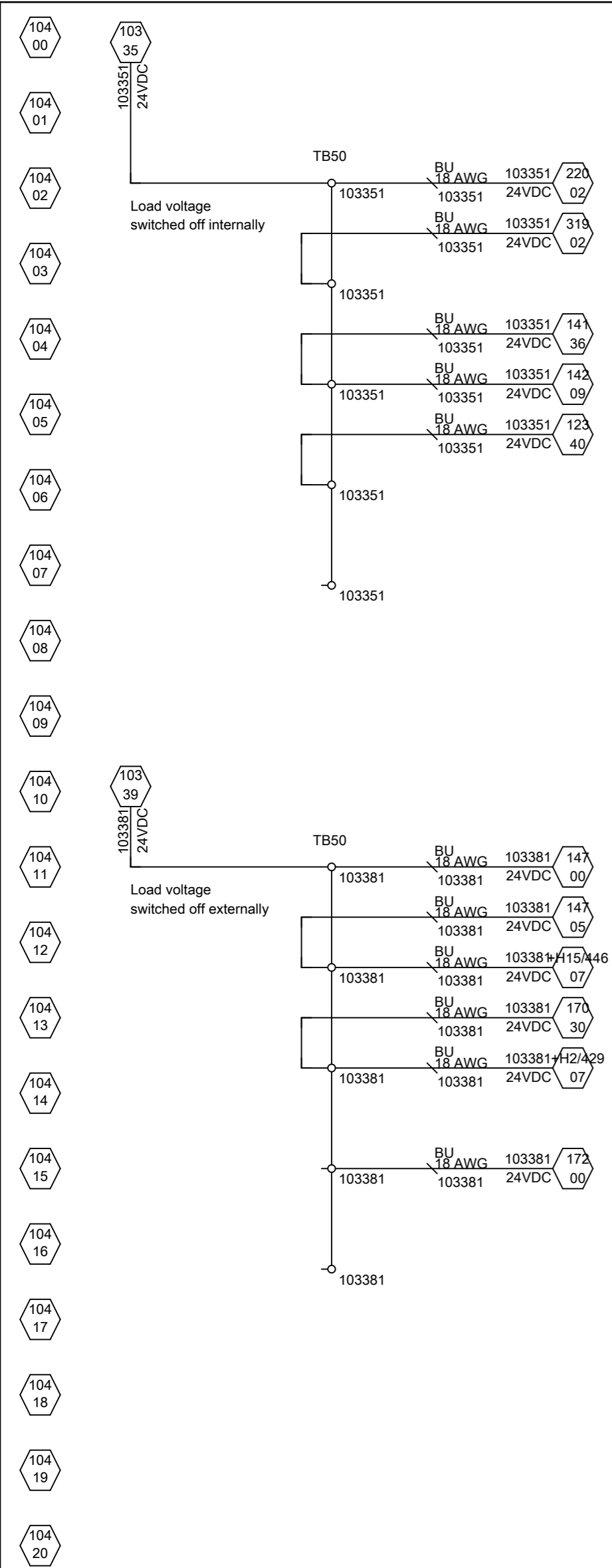
Load voltage
switched off internally

Load voltage
switched off externally

Load voltage
switched

Load voltage
switched

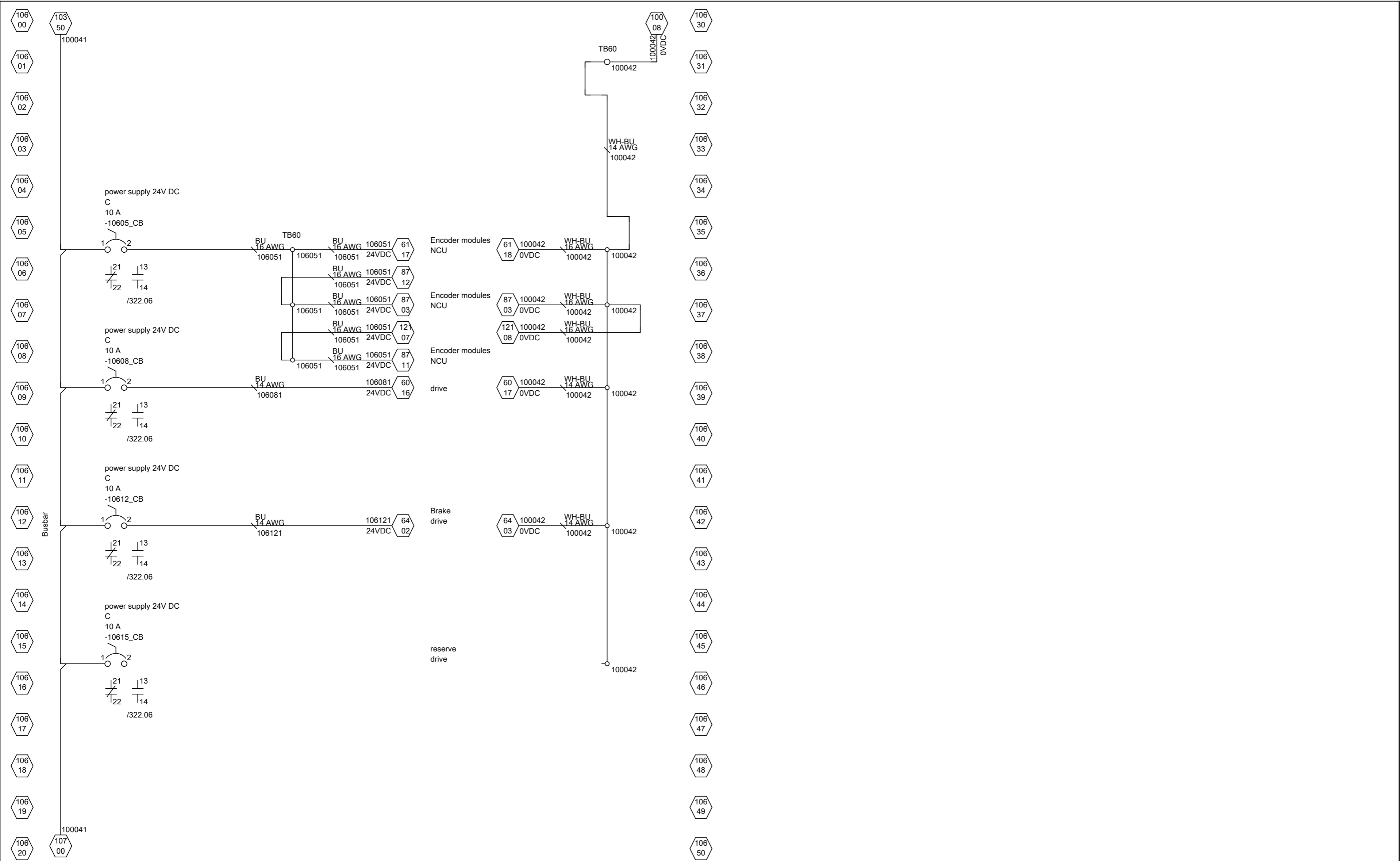
Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	09.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
				Number of sheets 275 Sheet 103	
ePLAN P8 2.2.5		=54784		102 Sheet 104	



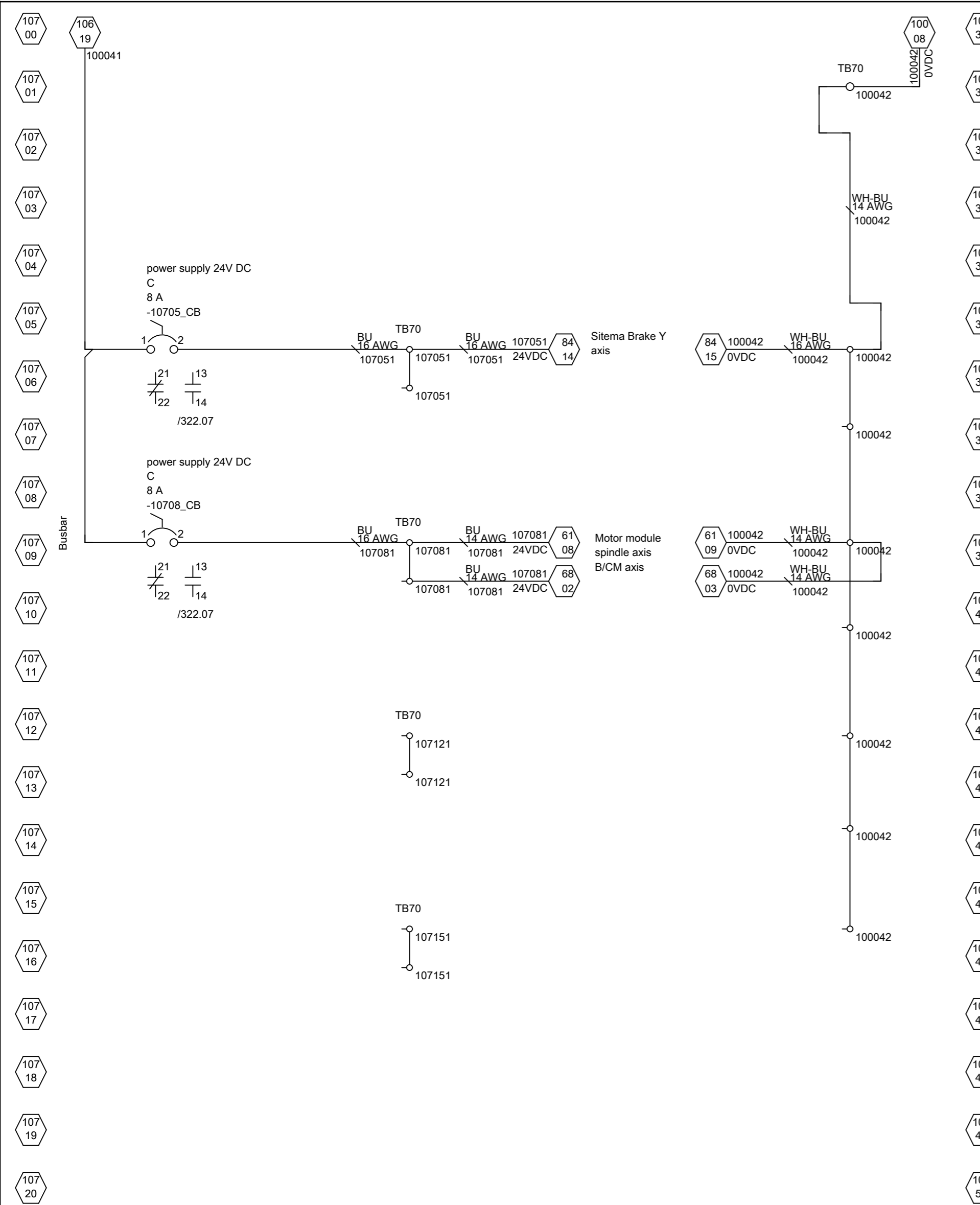
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
ePLAN P8 2.2.5				=54784	
Number of sheets				275	Sheet 104
◀ 103				Sheet	105

Reserve
page 105

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	15.03.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
power supply 24V DC				Number of sheets 275 Sheet 105	
ePLAN P8 2.2.5		=54784		104	Sheet 106



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
				Number of sheets 275 Sheet 106	
ePLAN P8 2.2.5		=54784		◀ 105 Sheet 107	



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	09.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC options				Inv.No.	
				Number of sheets 275 Sheet 107	
ePLAN P8 2.2.5		=54794		◀ 106 Sheet 108 ▶	

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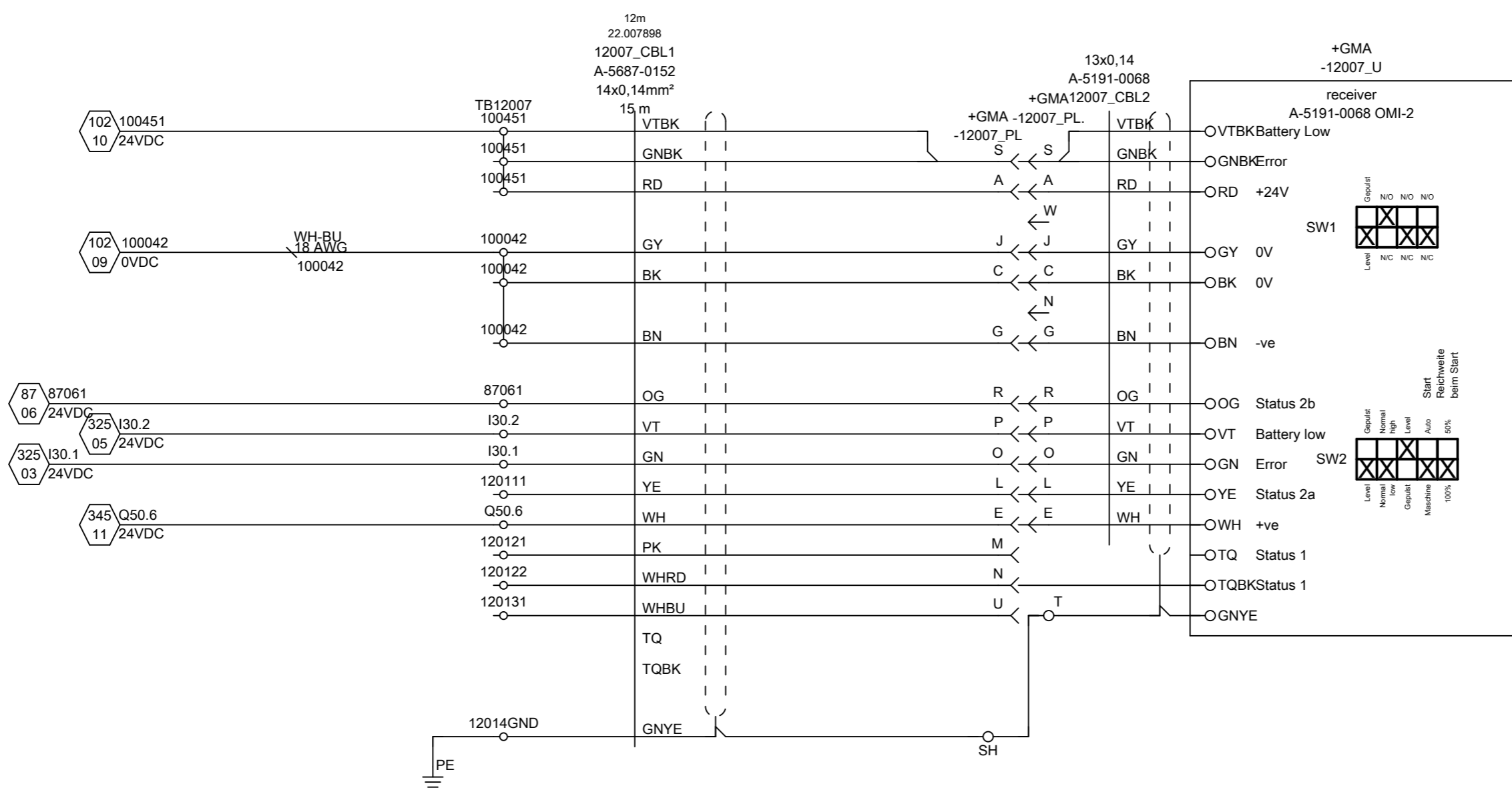
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Reserve
page 108-119

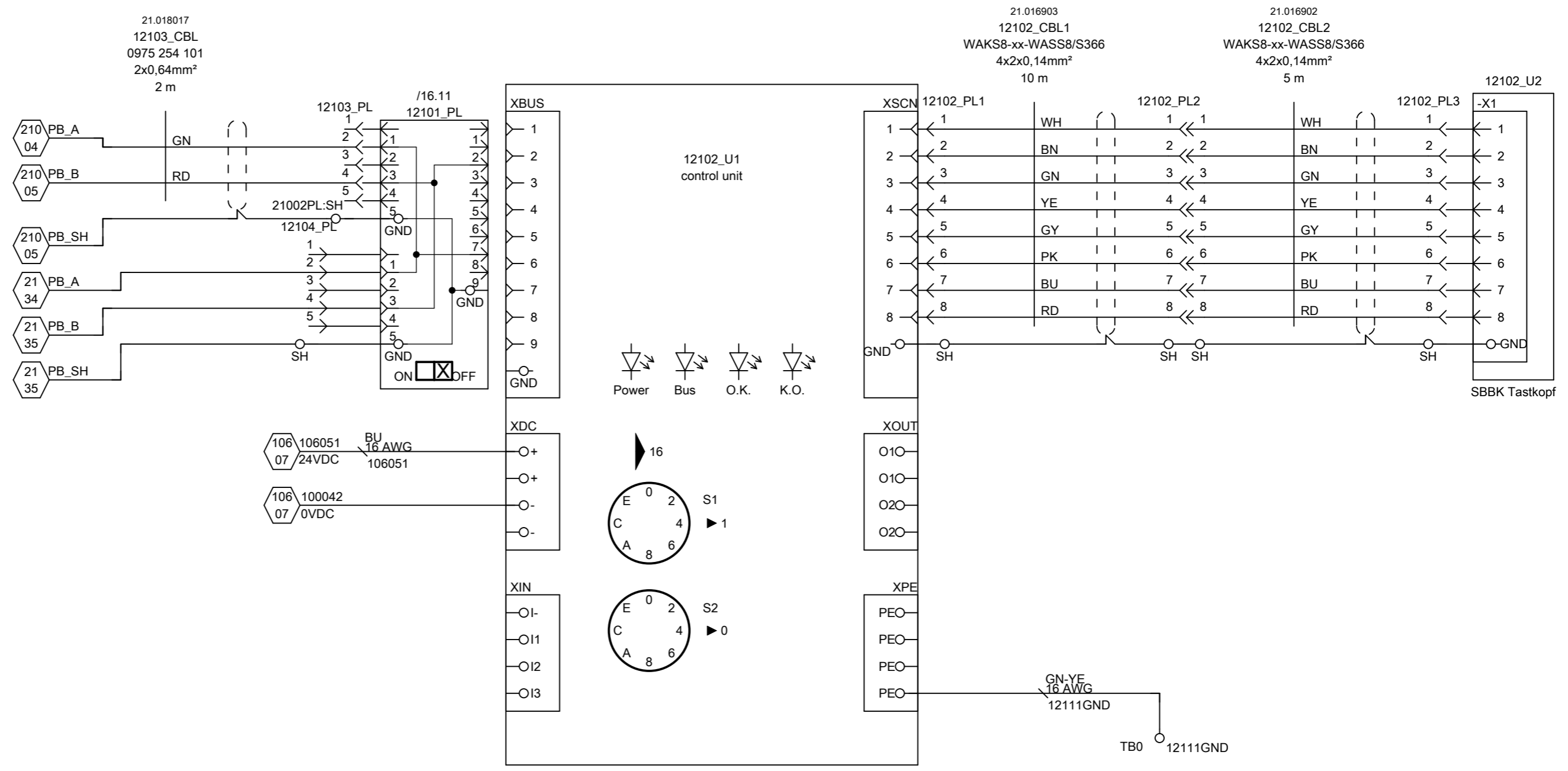
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve page 108-119				Inv.No.	
				Number of sheets 275 Sheet 108	
ePLAN P8 2.2.5		=54784		◀ 107 Sheet 120 ▶	

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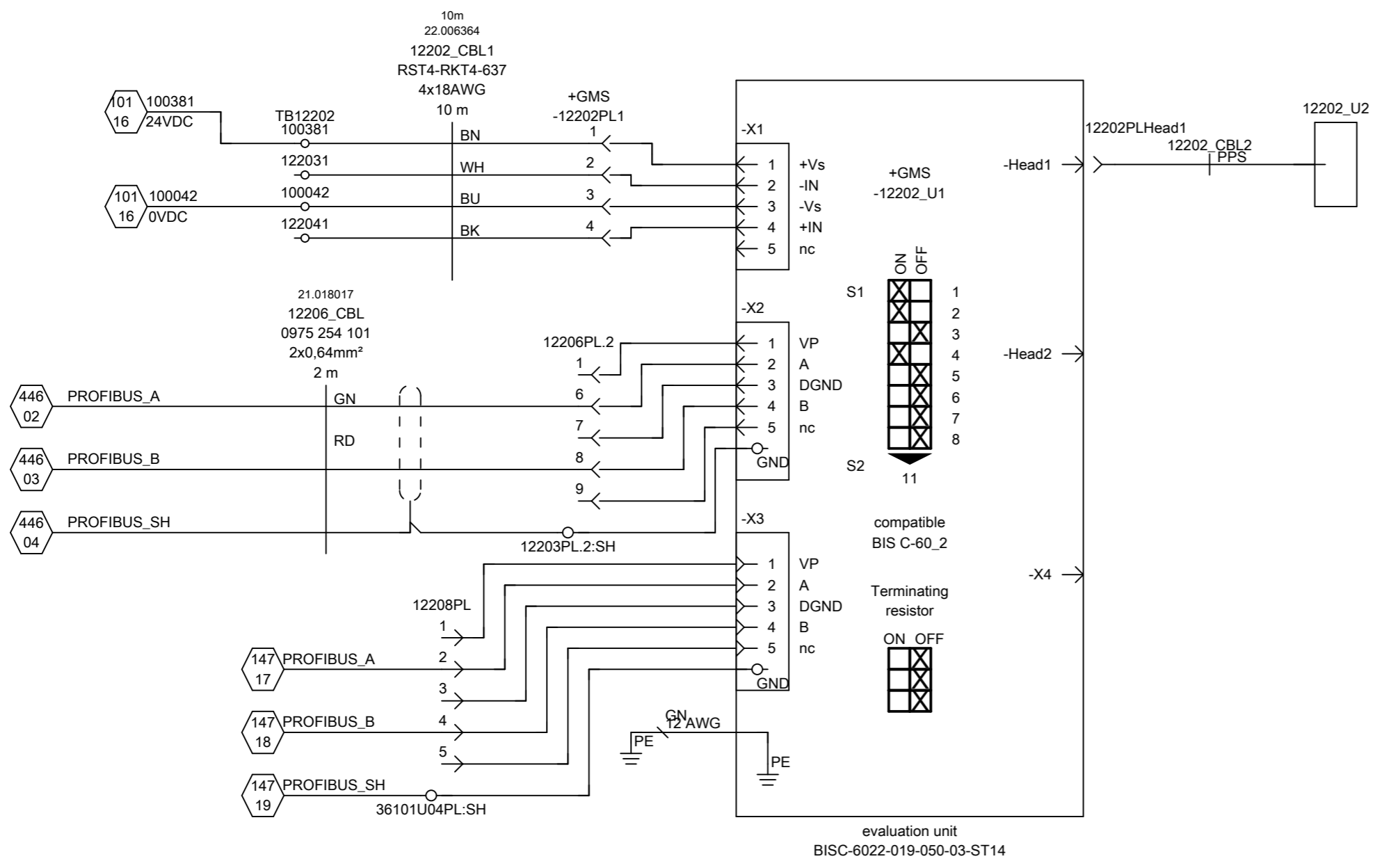
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CHECK	Date	Dep./Name	Machine type	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC	
DRAWN	26.05.2015	AHP3/GMI		
measuring probe			Inv.No.	
			Number of sheets 275 Sheet 120	
ePLAN P8 2.2.5		=54784	108	Sheet 121

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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	
=54784				275	Sheet
120				Sheet	122

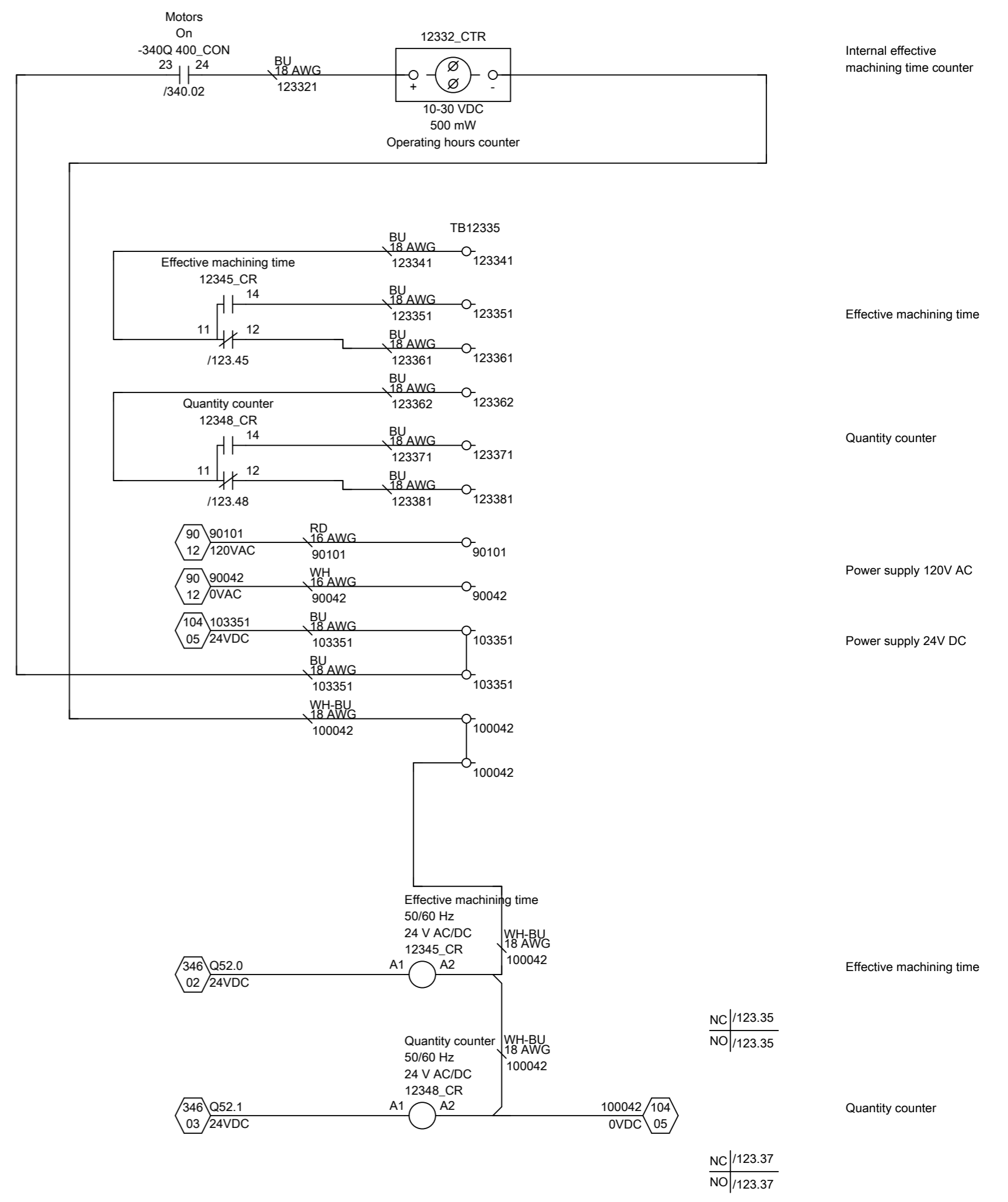
122 00
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool coding				Inv.No.	
Number of sheets				275	Sheet
ePLAN P8 2.2.5				=54784	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_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 =54784				Number of sheets 275 Sheet 123	
				◀ 122 Sheet 124 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 275 Sheet 124	
ePLAN P8 2.2.5		=54794		◀ 123 Sheet 125 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Vibration analysis				Number of sheets 275 Sheet 125	
ePLAN P8 2.2.5		=54794		124	Sheet 126

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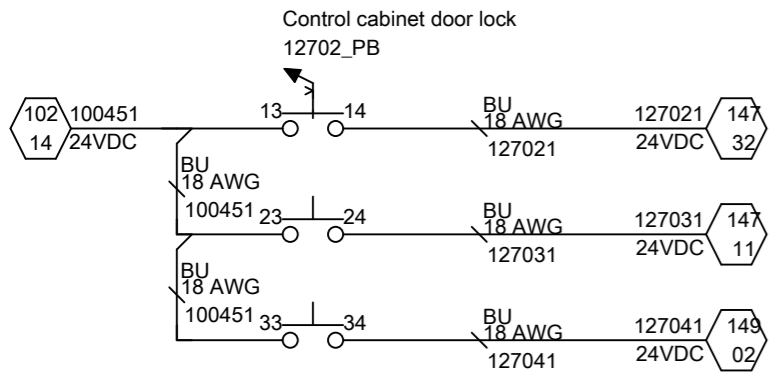
126
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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets	
				275	Sheet
ePLAN P8 2.2.5				=54784	
				125	Sheet
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	18.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Control cabinet door lock					
Number of sheets				275	Sheet
ePLAN P8 2.2.5		=54794		126	Sheet

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve				Inv.No.	
				Number of sheets 275 Sheet 128	
ePLAN P8 2.2.5		=54794		◀ 127 Sheet 129 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 275 Sheet 129	
ePLAN P8 2.2.5		=54794		128	Sheet 130

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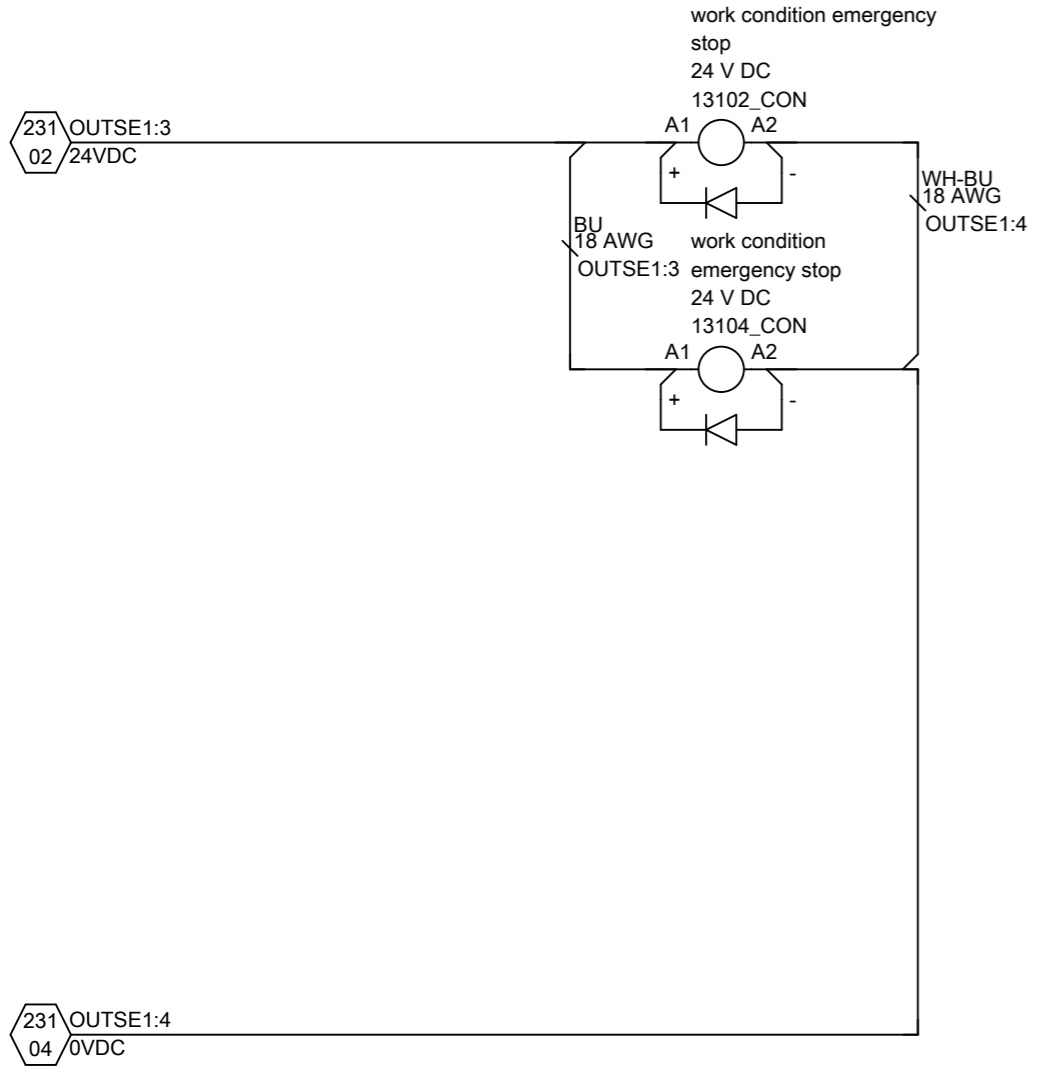
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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	13.07.2015	AHP3/RIG		Inv.No.	
Reserve				Number of sheets 275 Sheet 130	
ePLAN P8 2.2.5		=54794		129	Sheet 131

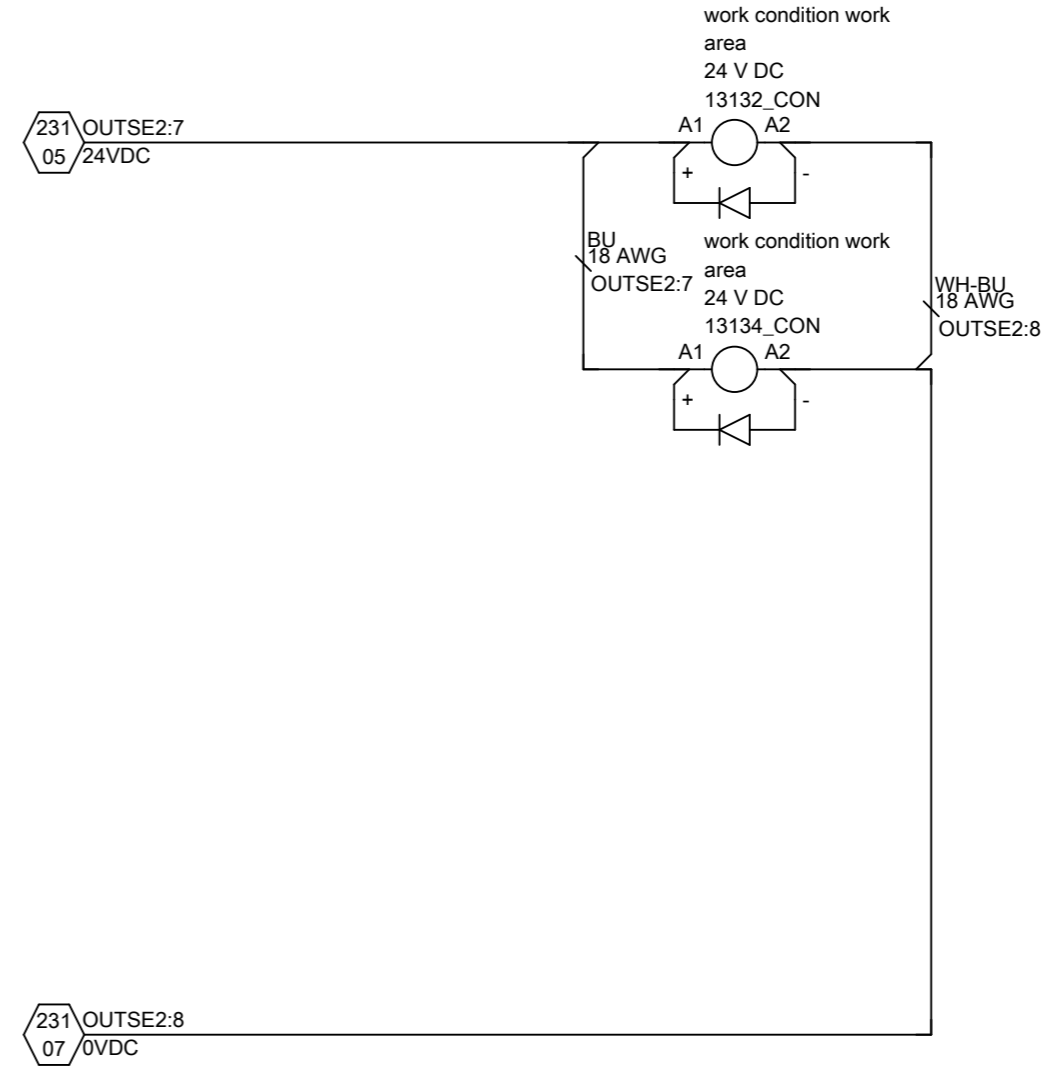
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NC /320.02
NO /141.03 /147.02 /104.32 /147.07
work condition emergency stop

NC /320.02
NO /141.03 /147.02 /104.32 /147.07
work condition emergency stop

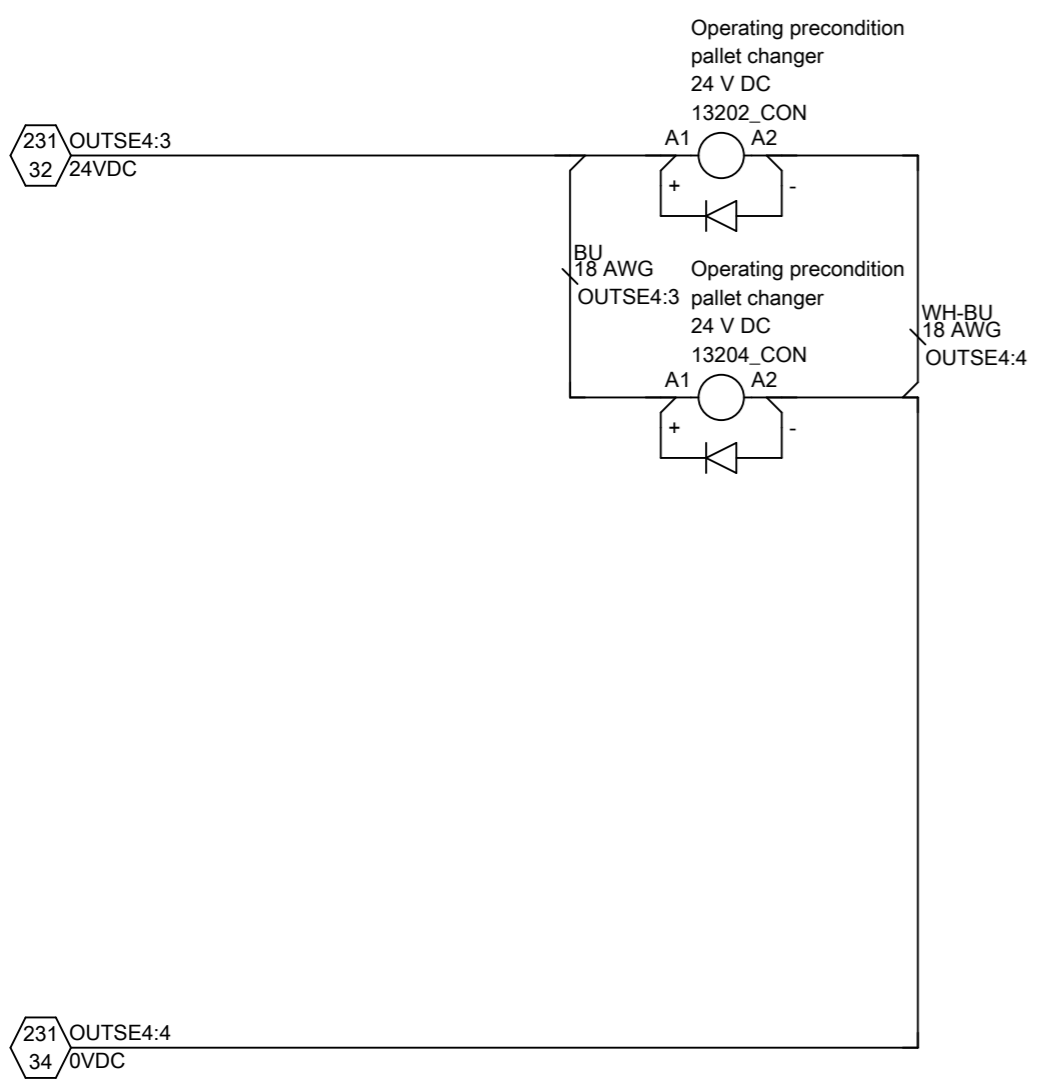


NC /320.03
NO /141.42 /147.03 /147.04 /104.36 /141.45
work condition work area

NC /320.03
NO /141.42 /147.03 /147.04 /104.36
work condition work area

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	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 275 Sheet 131	
=54794				◀ 130 Sheet 132	

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NC / 320.07
NO / 104.40

NC / 320.07
NO / 104.40

Operating precondition
pallet changer

Operating precondition
pallet changer

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	09.06.2016	OE1/SMC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
work condition workpiece handling				Number of sheets 275 Sheet 132	
ePLAN P8 2.2.5		=54794		131	Sheet 133

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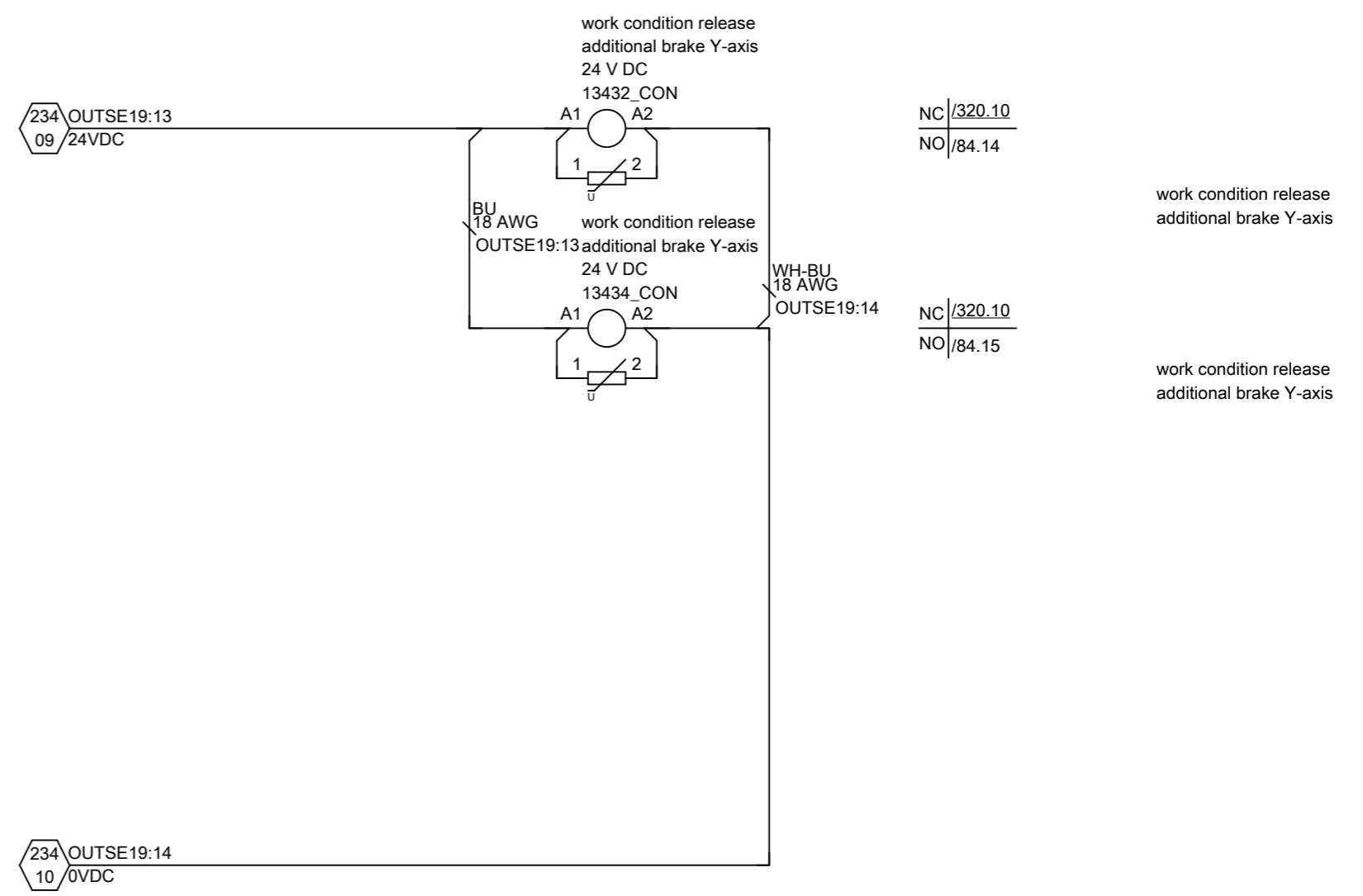
Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve operating precondition				Number of sheets 275 Sheet 133	
ePLAN P8 2.2.5		=54794		132	Sheet 134

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Reserve

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
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 =54794				Number of sheets	275	Sheet	134
				133	Sheet	135	

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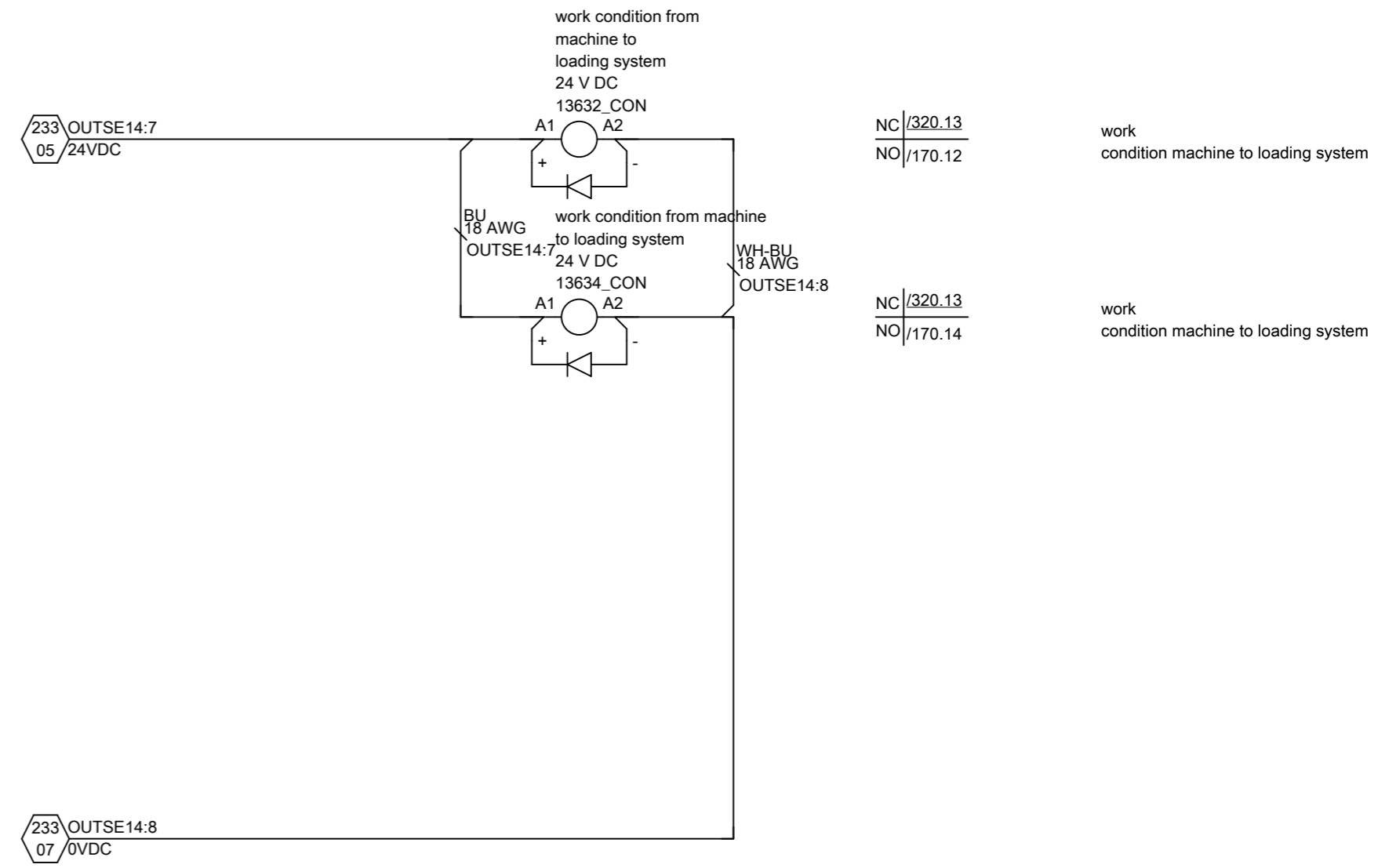
Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	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	
=54794				275	Sheet
				134	136

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Reserve

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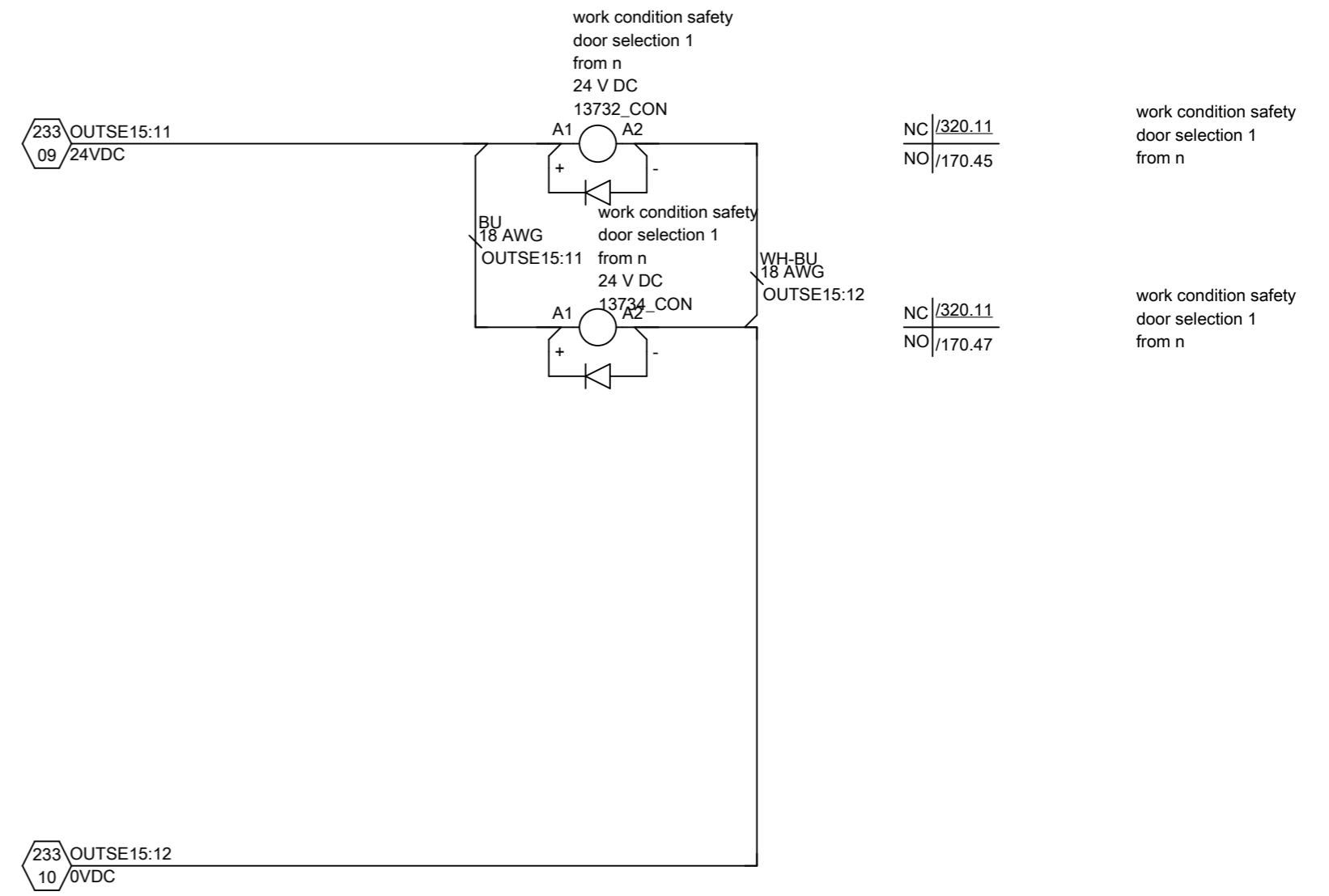


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
work condition external loading				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 136	
=54784				135 Sheet 137	

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Reserve

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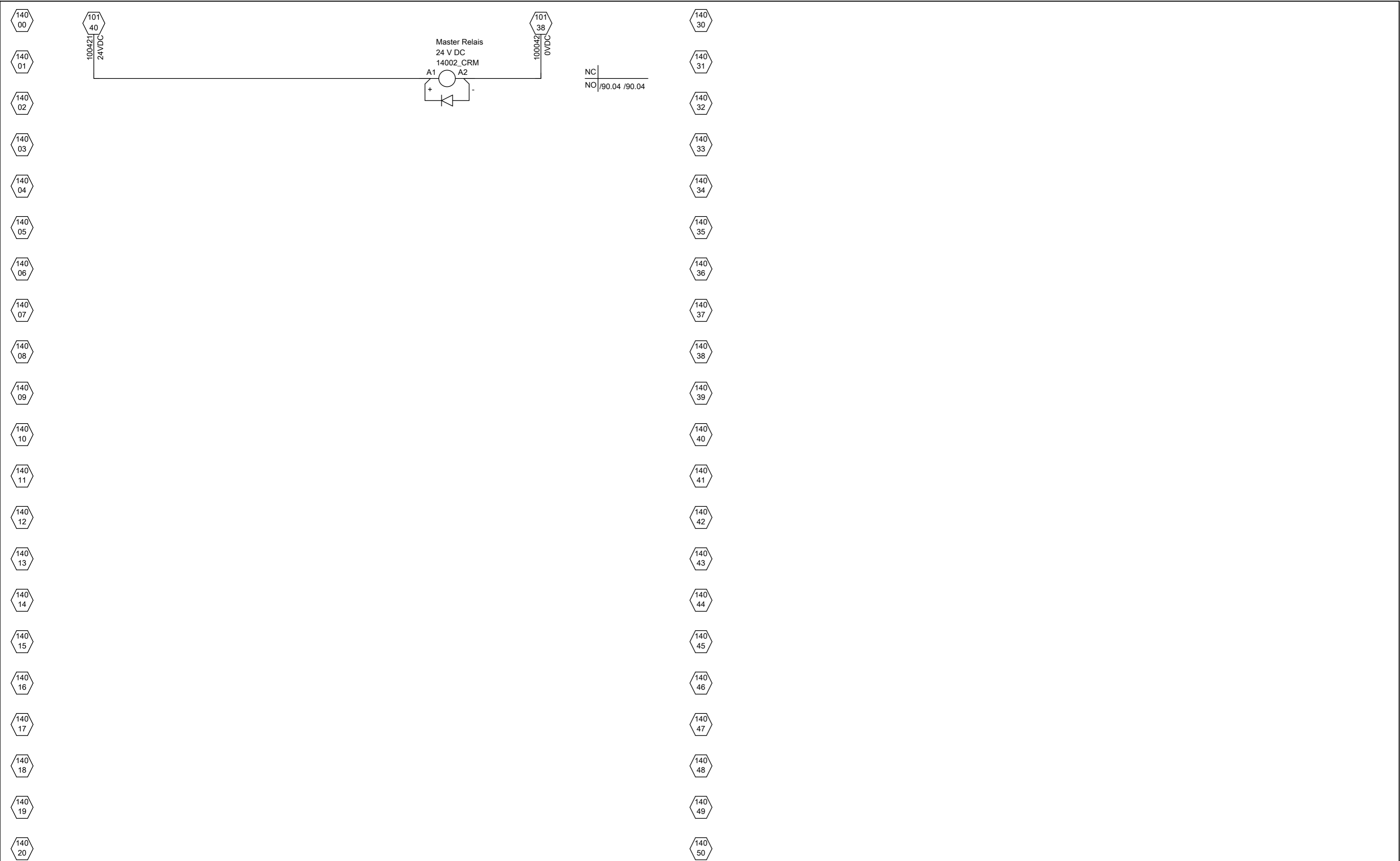


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	10.11.2015	AHP3/EWD			
work condition external loading				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 137	
=54794				136 Sheet 138	

Reserve
page 138-139

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve page 137-139				Inv.No.			
				Number of sheets			
ePLAN P8 2.2.5				=54794	275	Sheet	138
				137	Sheet	140	

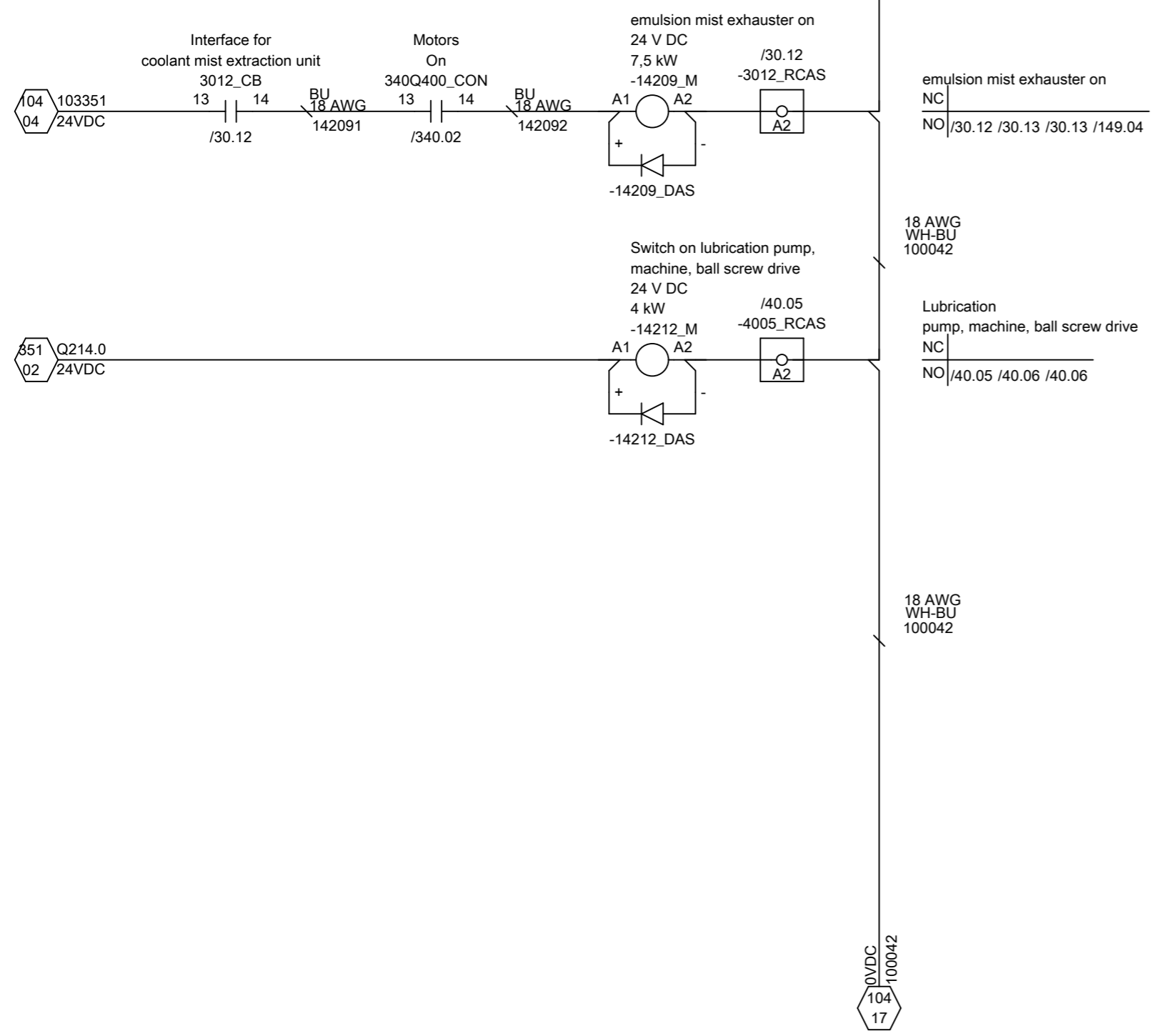
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	04.04.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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ePLAN P8 2.2.5		=54794	138		Sheet 141

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Controls				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 142	
=54794				◀ 141 Sheet 143 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Two-handed operation tool magazine				Number of sheets 275 Sheet 143	
ePLAN P8 2.2.5		=54794		◀ 142 Sheet 144 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			Inv.No.
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve page 144 selection				Number of sheets			
ePLAN P8 2.2.5				=54794	143	Sheet	145

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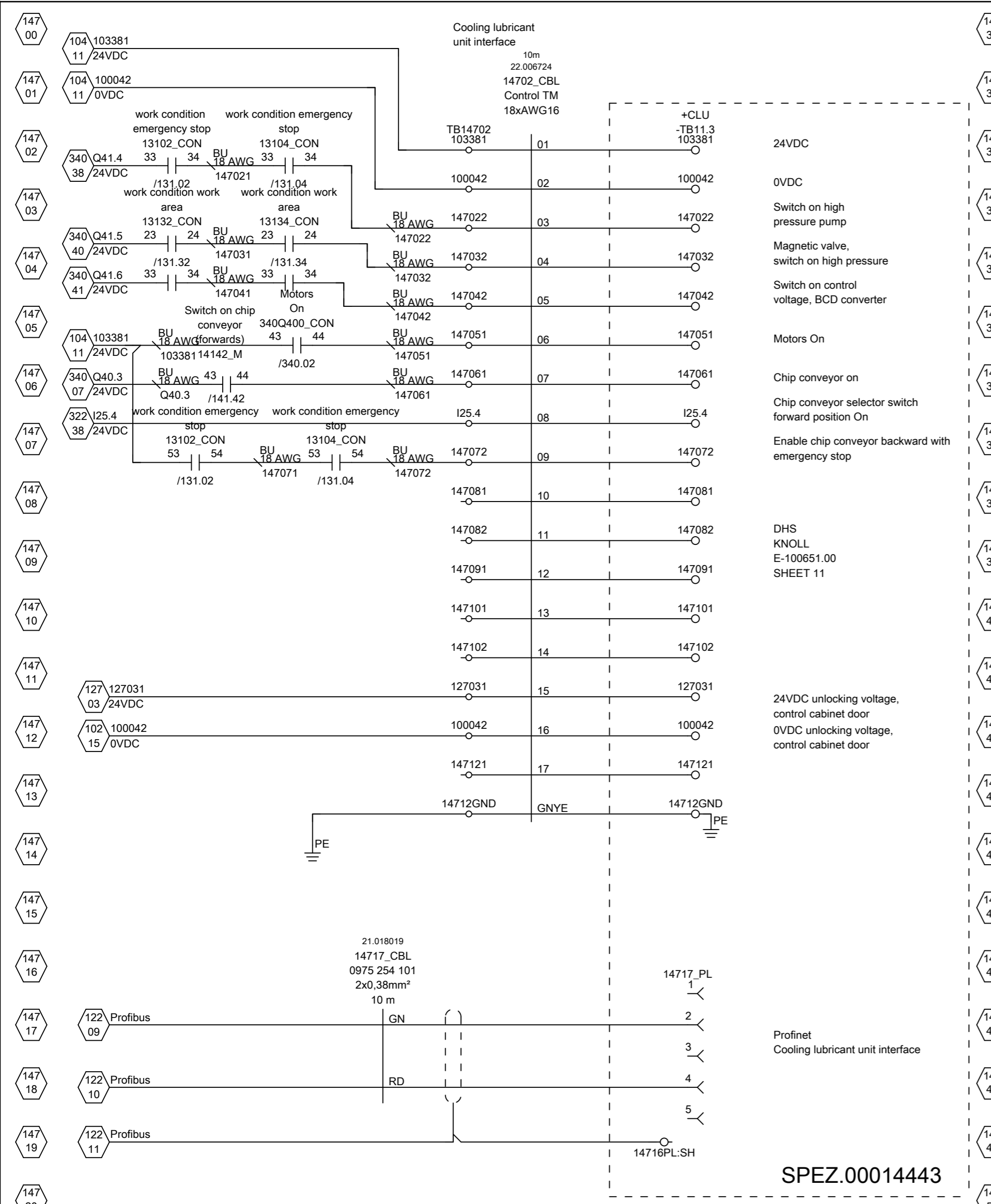
Reserve Volume sensor for pallet clamping check

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Volume sensor for pallet clamping check				Inv.No.	
				Number of sheets 275 Sheet 145	
ePLAN P8 2.2.5		=54794		◀ 144 Sheet 146 ▶	

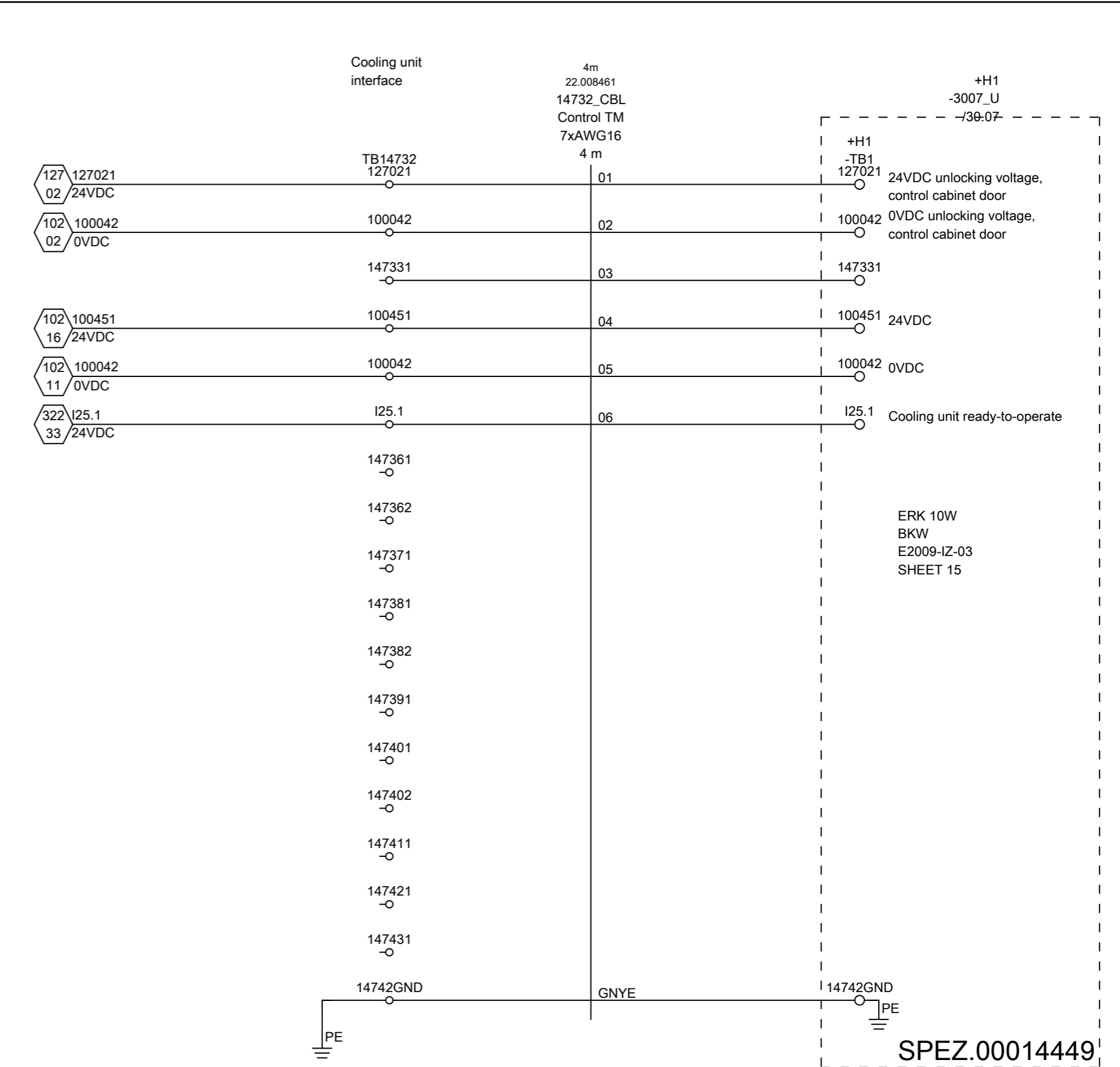
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Volume sensor, attachment head clamping, interface adapter				Inv.No.	
				Number of sheets 275 Sheet 146	
ePLAN P8 2.2.5		=54794		◀ 145 Sheet 147 ▶	



SPEZ.00014443



SPEZ.00014449

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Interface coolant system, interface cooling unit				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 147	
=54784				146 Sheet 148	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Volume sensor, spindle extension					
ePLAN P8 2.2.5				Number of sheets 275 Sheet 148	
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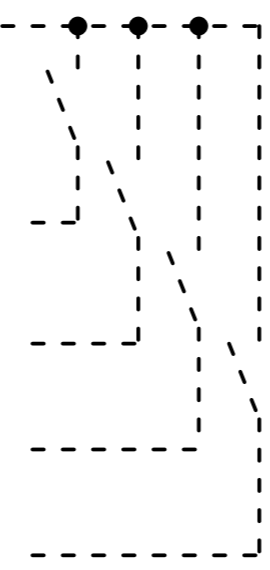
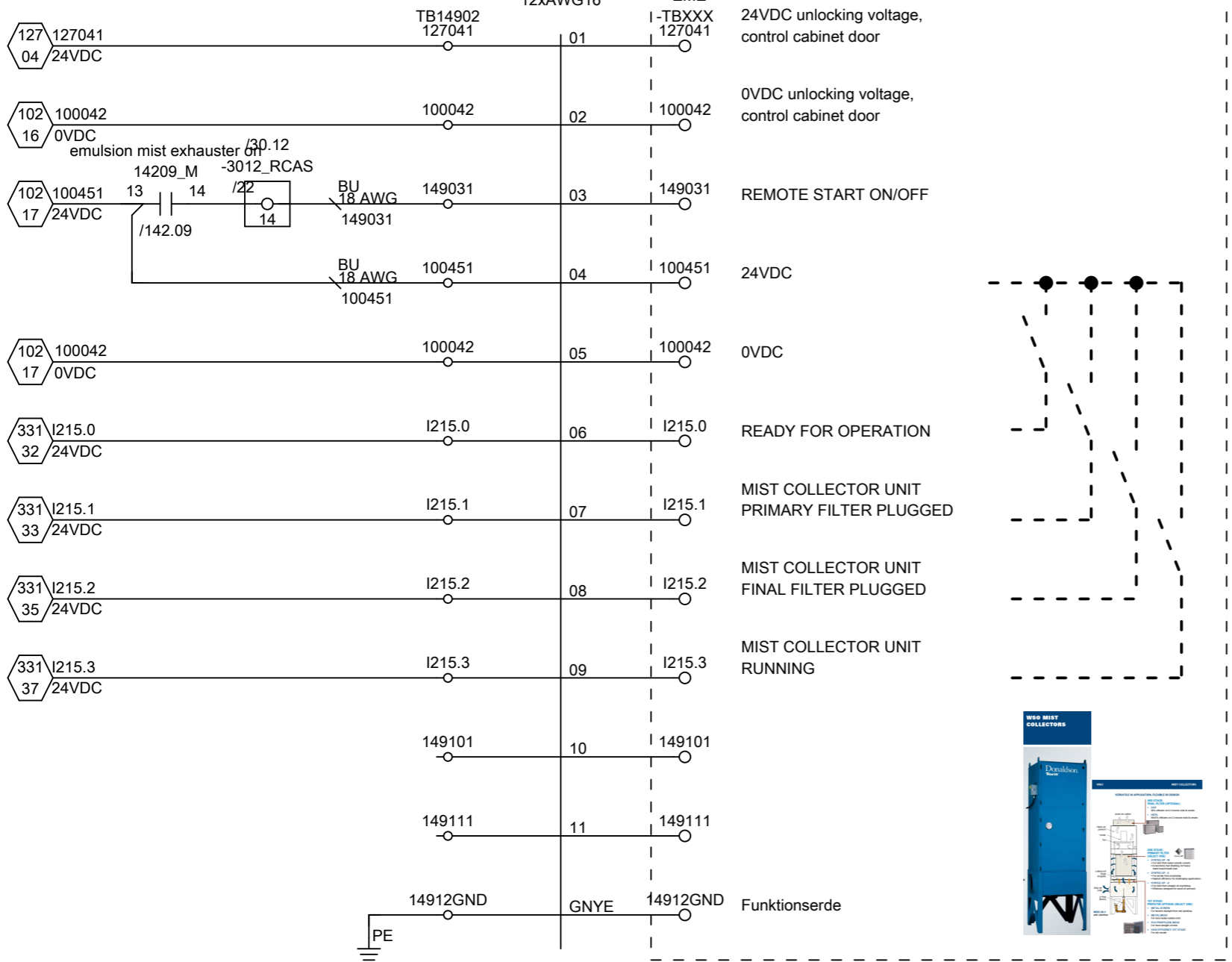
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Interface for coolant mist extraction unit

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Emulsion mist extraction



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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	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 275 Sheet 149	
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Interface for coolant mist extraction unit				Number of sheets 275 Sheet 150	
ePLAN P8 2.2.5		=54794		149	Sheet 151

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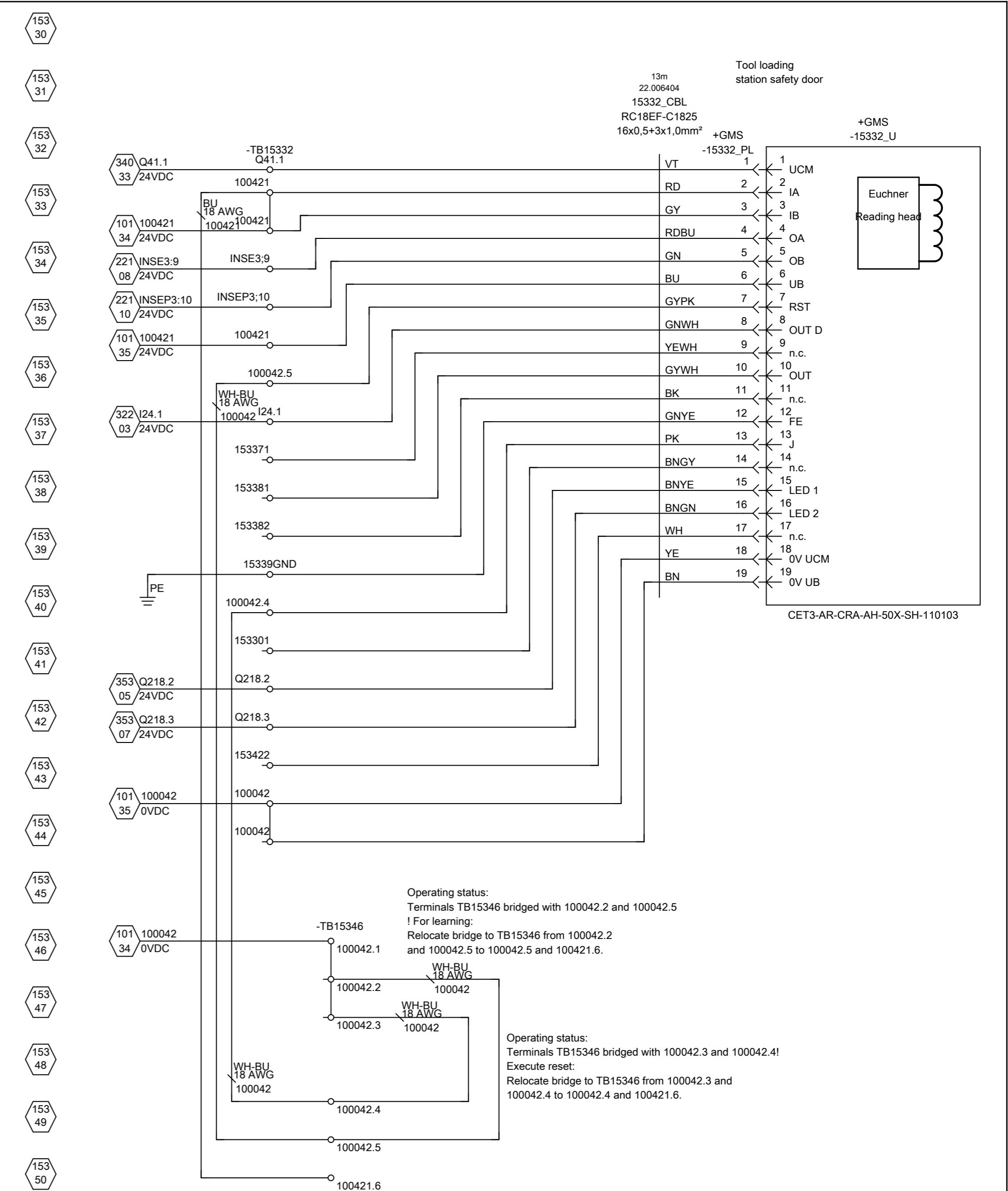
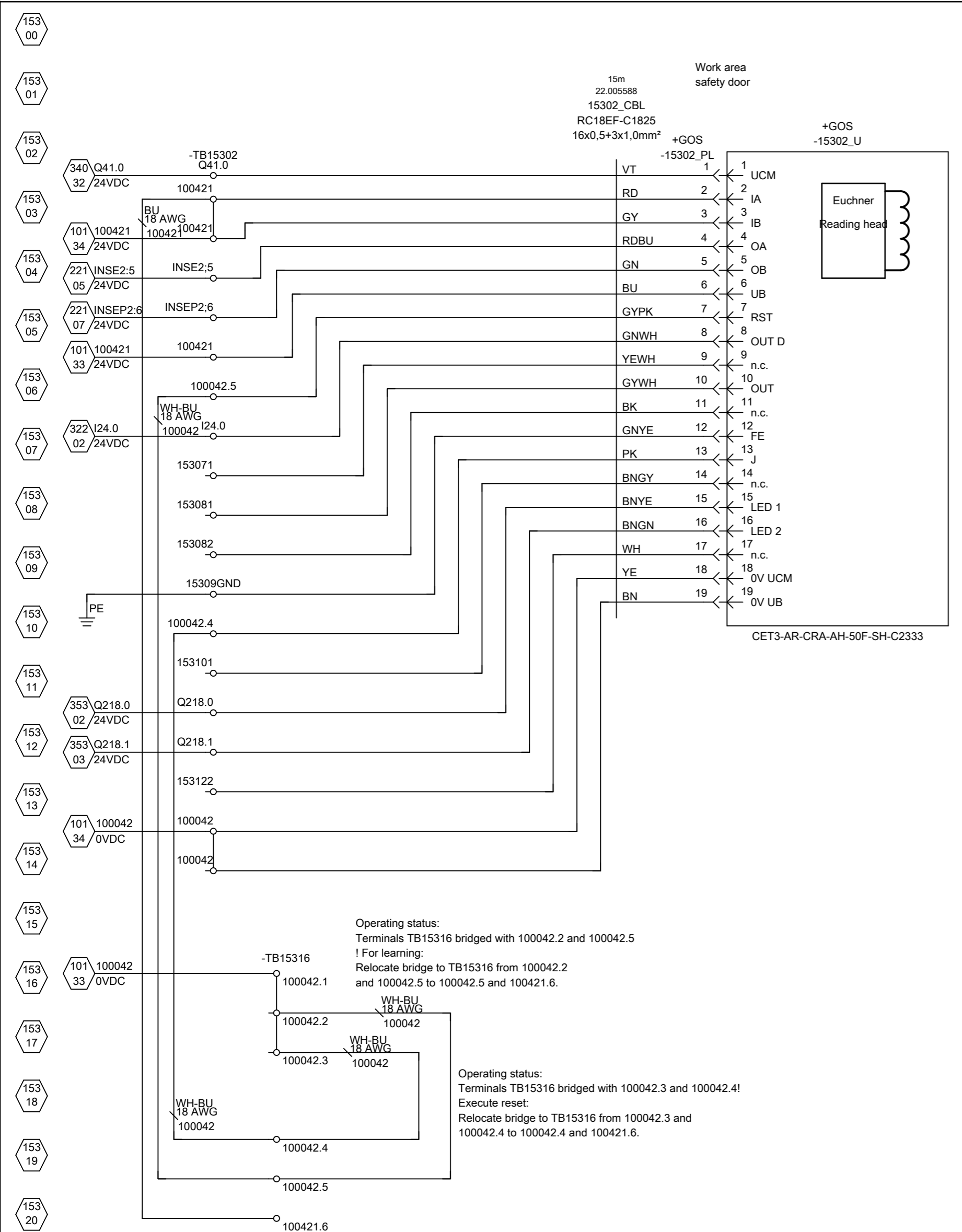
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Minimal quantity lubrication interface				Number of sheets 275 Sheet 151	
ePLAN P8 2.2.5		=54794		150	Sheet 152

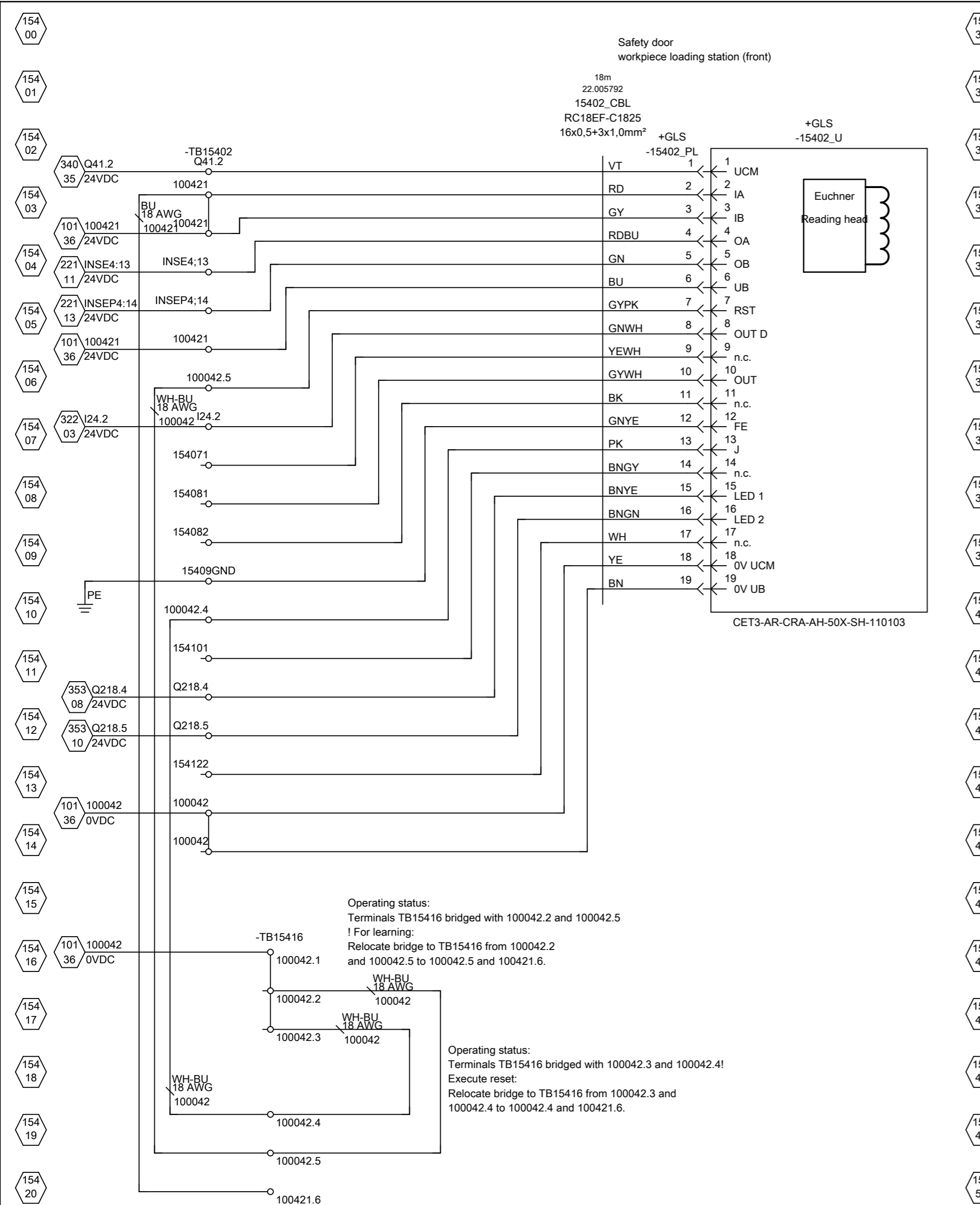
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Rack-type magazine measurement				Number of sheets 275 Sheet 152	
ePLAN P8 2.2.5	=54794			151	Sheet 153



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	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	
=54784				275	Sheet
				152	154



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Workpiece loading station (front) safety door, light curtain				Inv.No.	
ePLAN P8 2.2.5 =54784				Number of sheets 275 Sheet 154	
				◀ 153 Sheet 155 ▶	

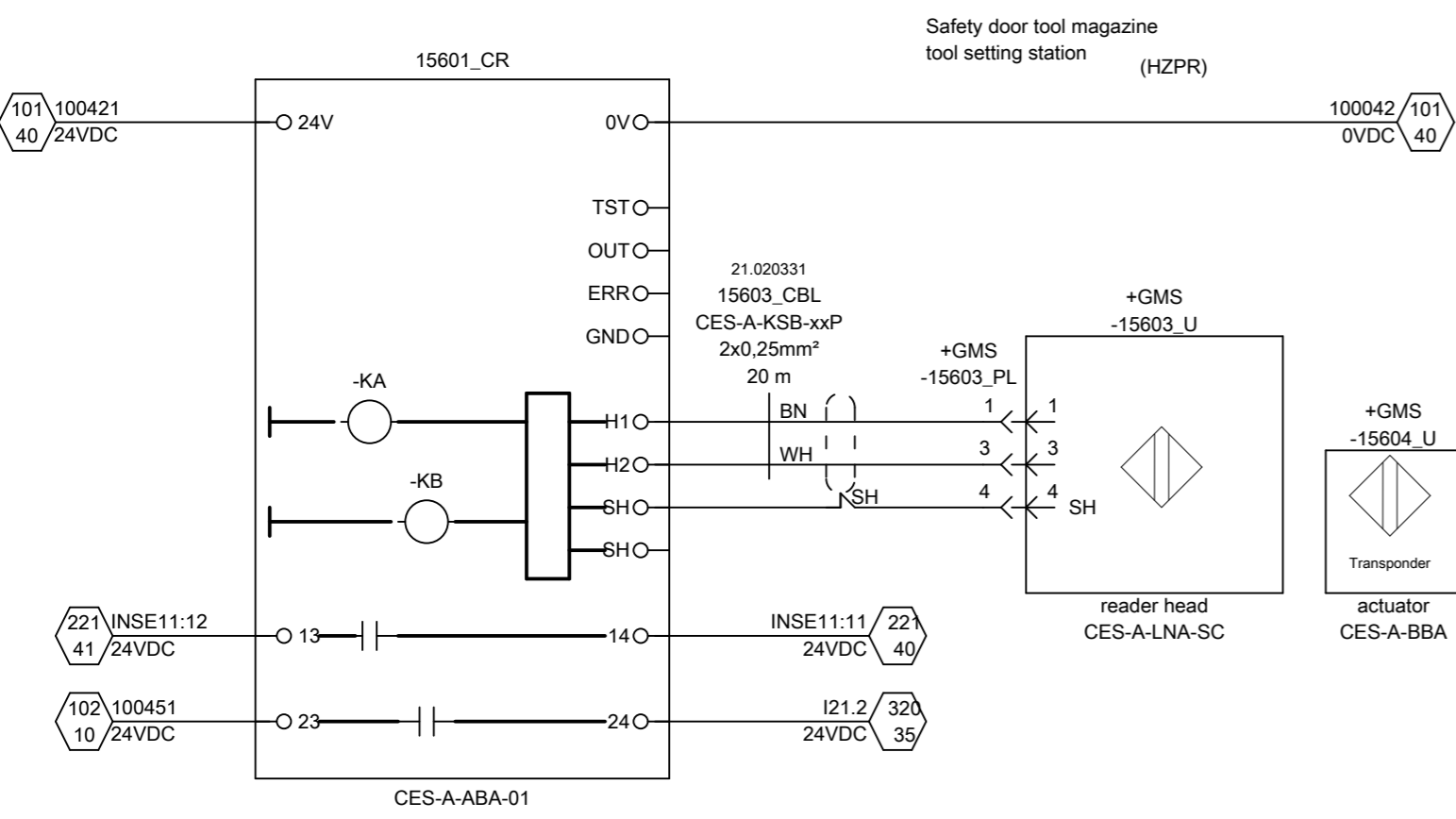
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve, Workpiece loading station safety door operating side, work area / workpiece loading station rotary plate				Inv.No.	
				Number of sheets 275 Sheet 155	
ePLAN P8 2.2.5		=54794		◀ 154 Sheet 156 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 157	

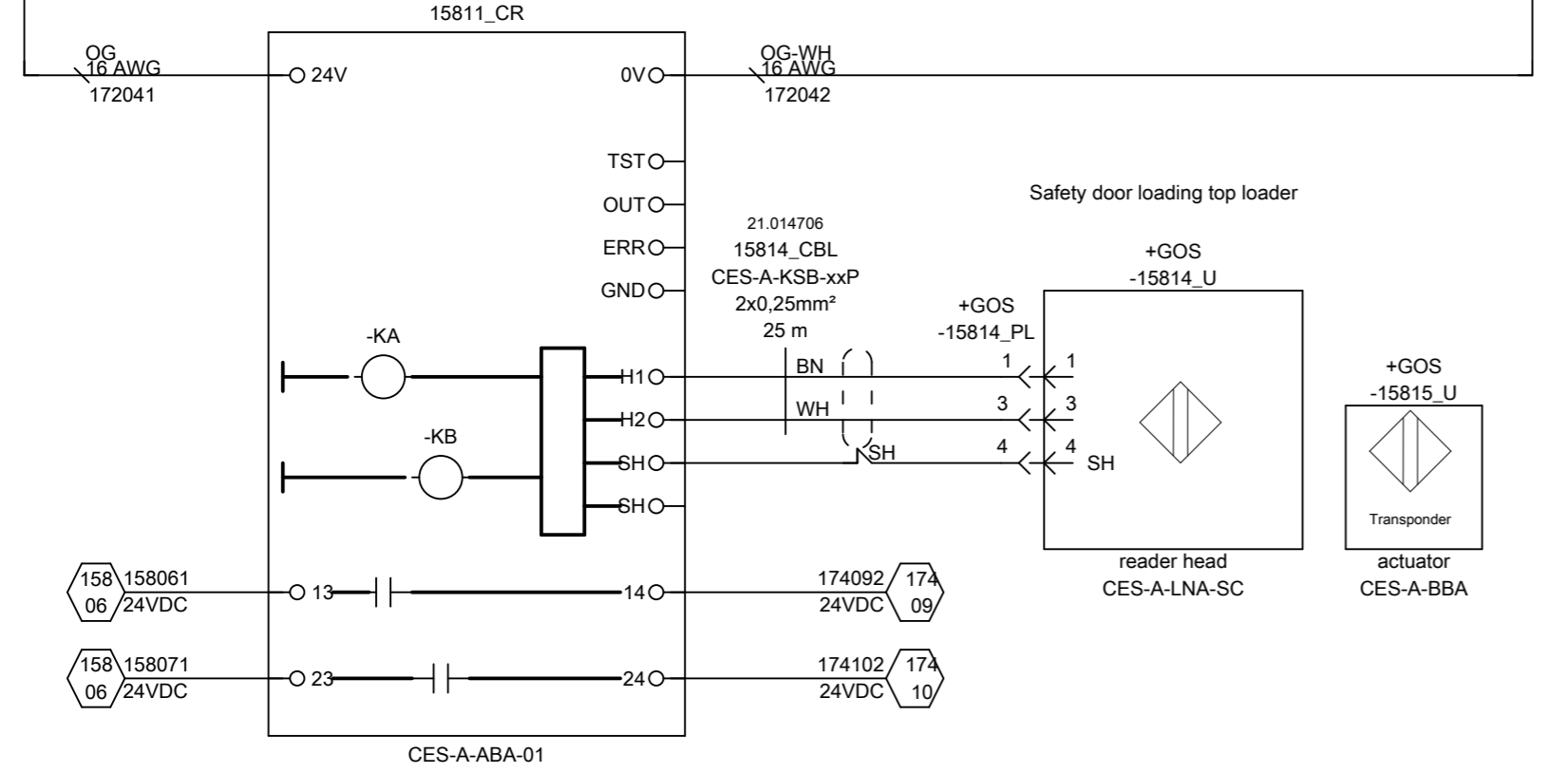
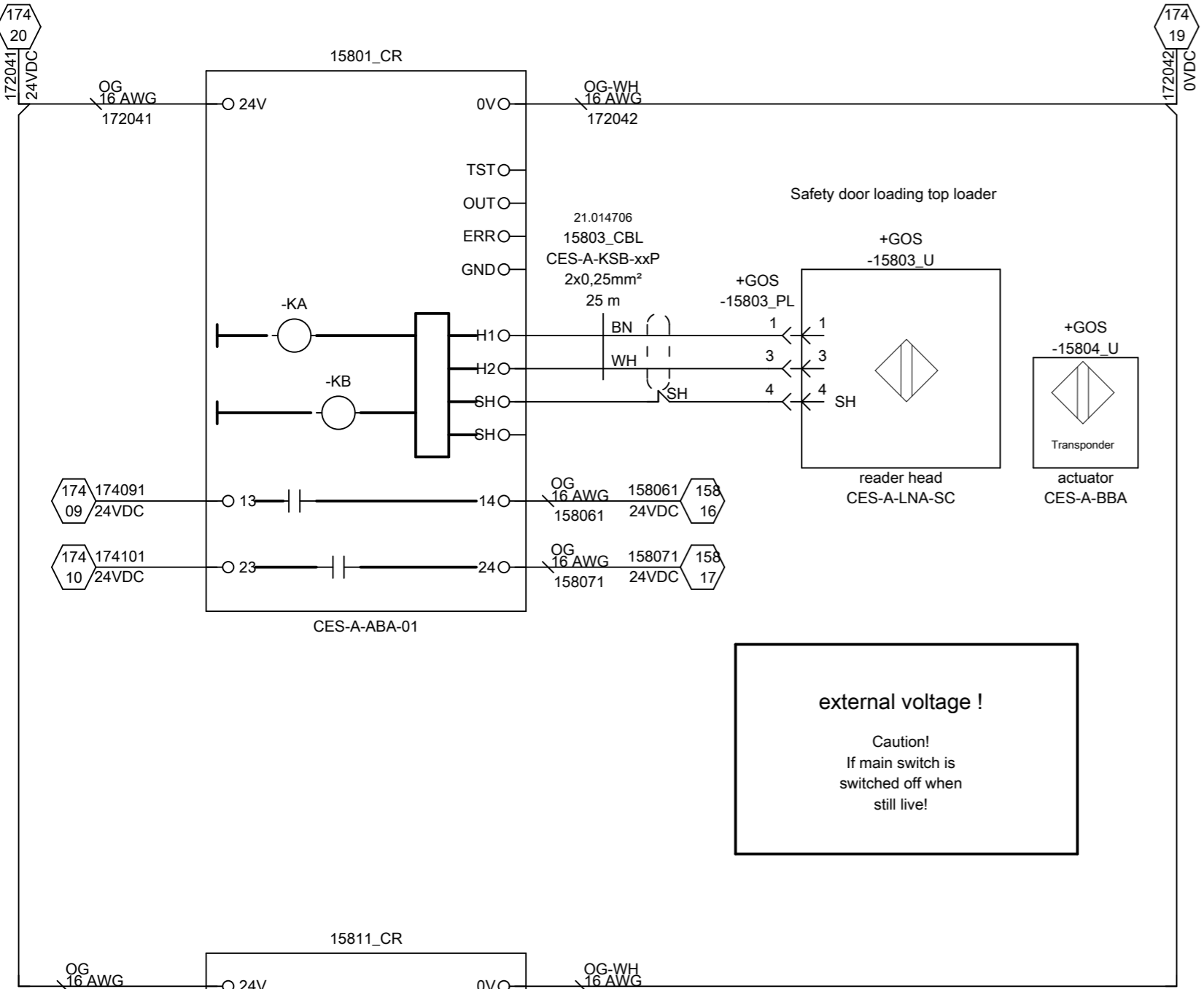
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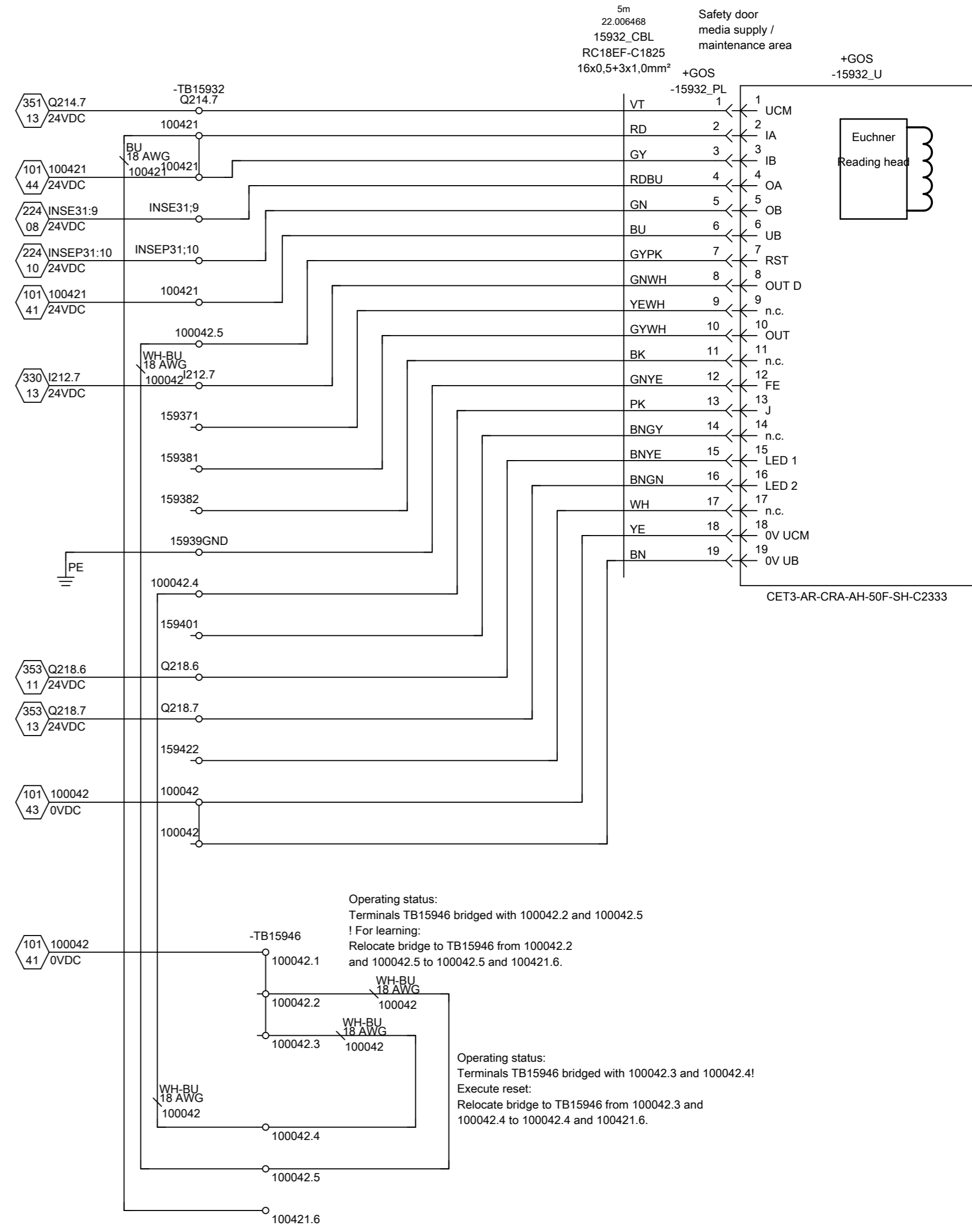
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve, Rotary magazine maintenance door, workpiece setting station/rotary magazine safety door closed (CMS)				Number of sheets 275 Sheet 157	
ePLAN P8 2.2.5		=54794		156	Sheet 158



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Safety door loading top loader				Inv.No.	
				Number of sheets 275 Sheet 158	
ePLAN P8 2.2.5		=54794		157 Sheet 159	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 159	
=54784				158 Sheet 160	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 160-163					
				Number of sheets	275
ePLAN P8 2.2.5				=54794	Sheet
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Rear wall maintenance door maintenance door media supply				Number of sheets 275 Sheet 164	
ePLAN P8 2.2.5		=54794		160	Sheet 165

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 275 Sheet 165	
ePLAN P8 2.2.5		=54794		164	Sheet 166

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/EWD		Inv.No.	
Tool drawer 1 + 2, rack-type tool magazine				Number of sheets 275 Sheet 166	
ePLAN P8 2.2.5		=54794		165	Sheet 167

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	13.07.2015	AHP3/EWD		Inv.No.	
Reserve page 167-169				Number of sheets 275 Sheet 167	
ePLAN P8 2.2.5		=54794		166	Sheet 170

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Reserve

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 171				Number of sheets 275 Sheet 171	
ePLAN P8 2.2.5		=54784		170	Sheet 172

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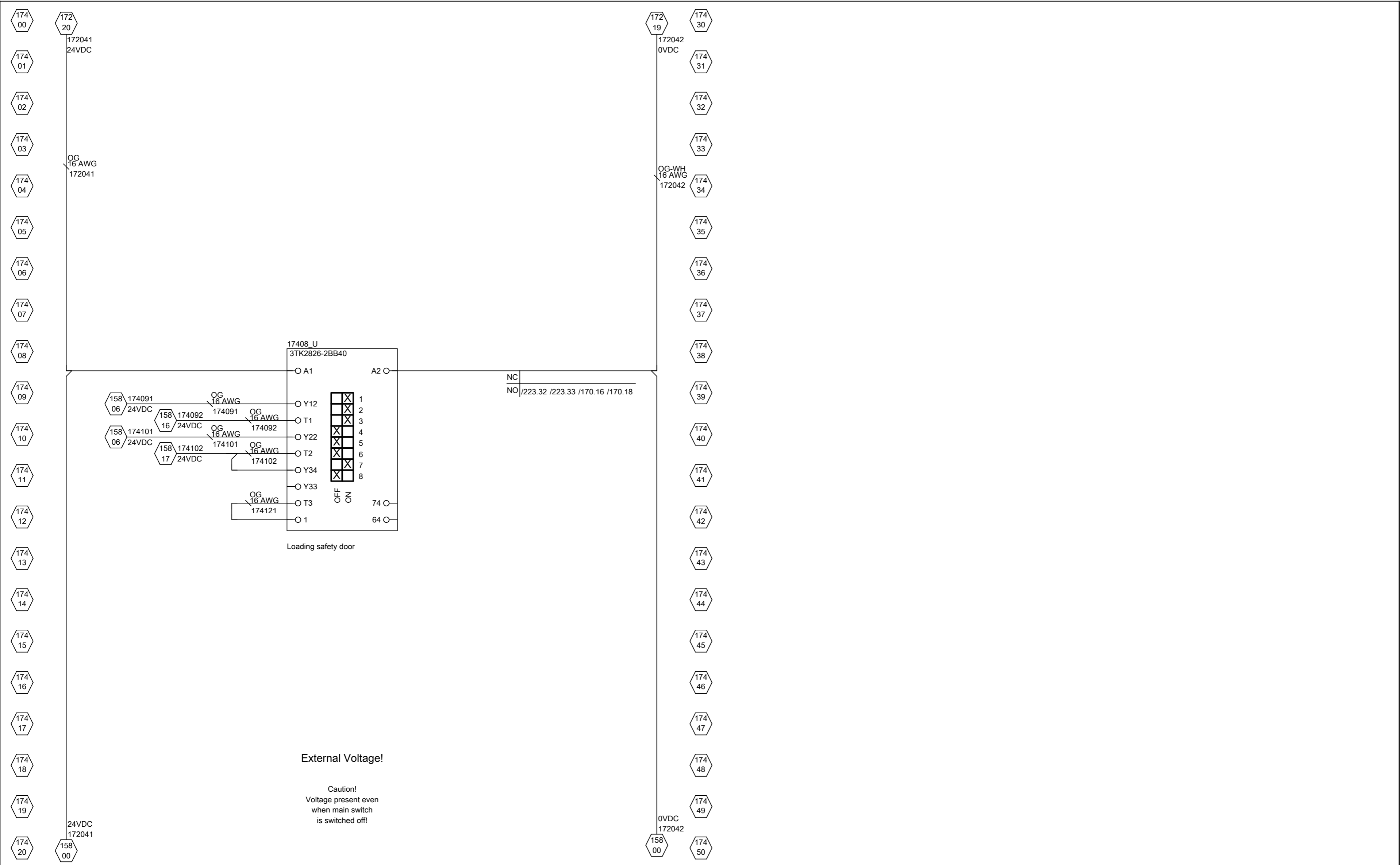
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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Safety door work area/workpiece setting station to external loading				Number of sheets 275 Sheet 173	
ePLAN P8 2.2.5		=54784		172	Sheet 174



External Voltage!

Caution!
Voltage present even
when main switch
is switched off!

Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Loading safety door				Inv.No.	
				Number of sheets 275 Sheet 174	
ePLAN P8 2.2.5		=54784		◀ 173 Sheet 175 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Profibus DP external loading				Number of sheets 275 Sheet 175	
ePLAN P8 2.2.5		=54784		◀ 174	Sheet 176 ▶

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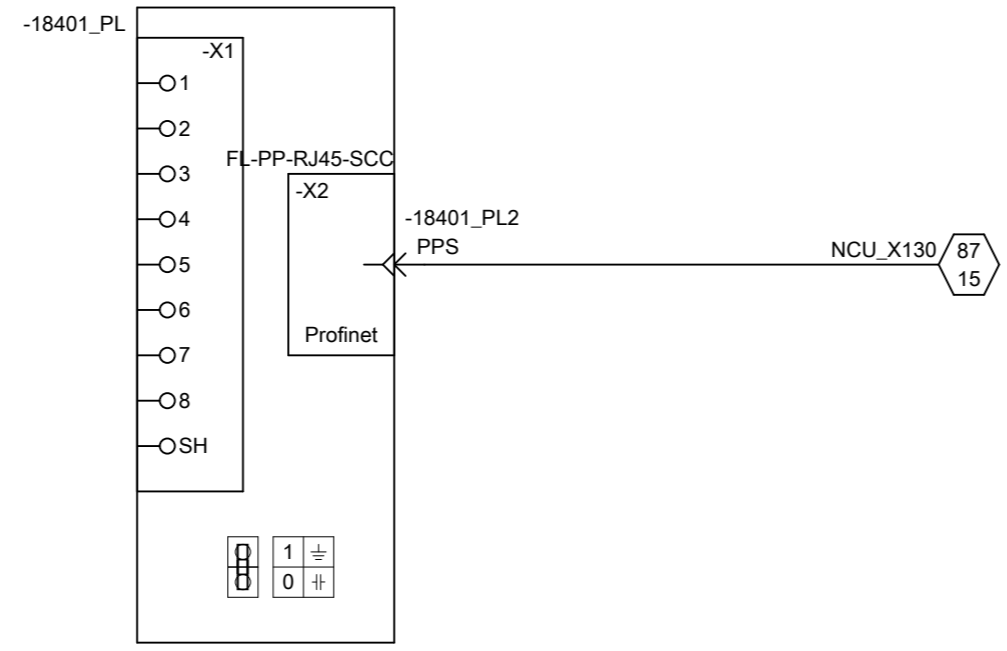
176
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Reserve

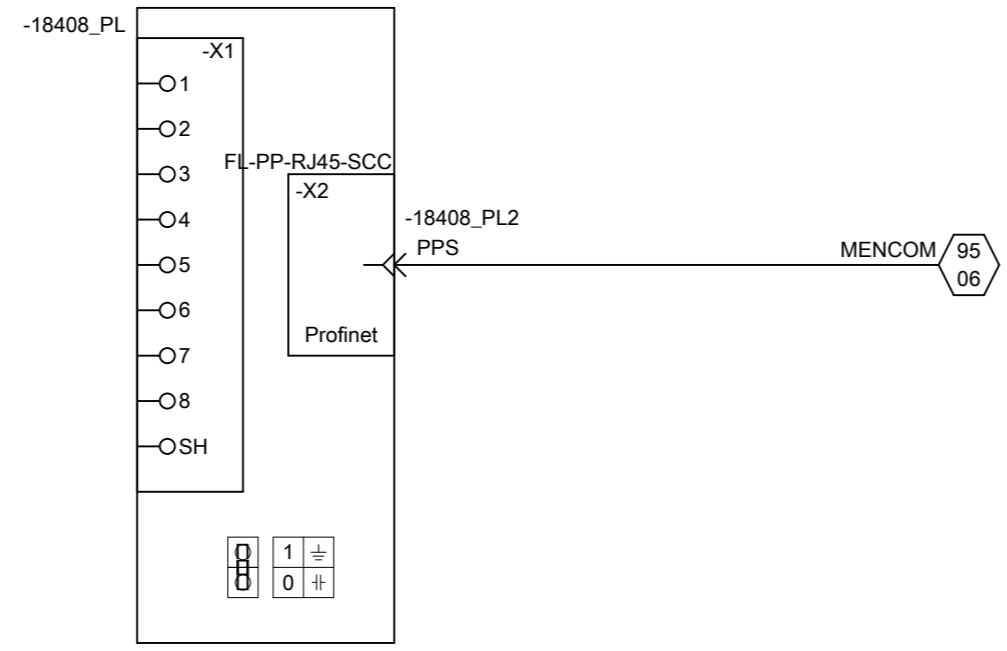
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve page 176 - 183				Inv.No.	
				Number of sheets	
				275	Sheet
ePLAN P8 2.2.5				=54794	175
				Sheet	184

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Plant Ethernet

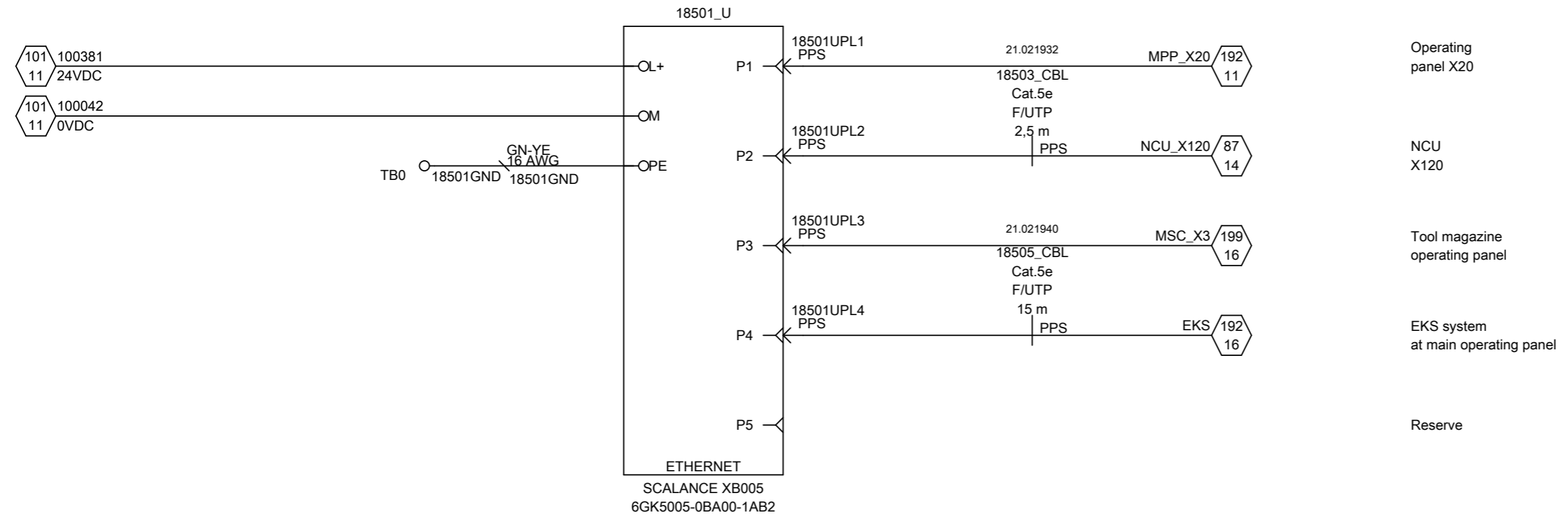


Plant Ethernet



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	30.06.2015	AHP3/RIG			
Patchpanel				Inv.No.	
ePLAN P8 2.2.5				=54794	
Number of sheets				275	Sheet
◀ 176				Sheet	185

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Operating panel X20

NCU X120

Tool magazine operating panel

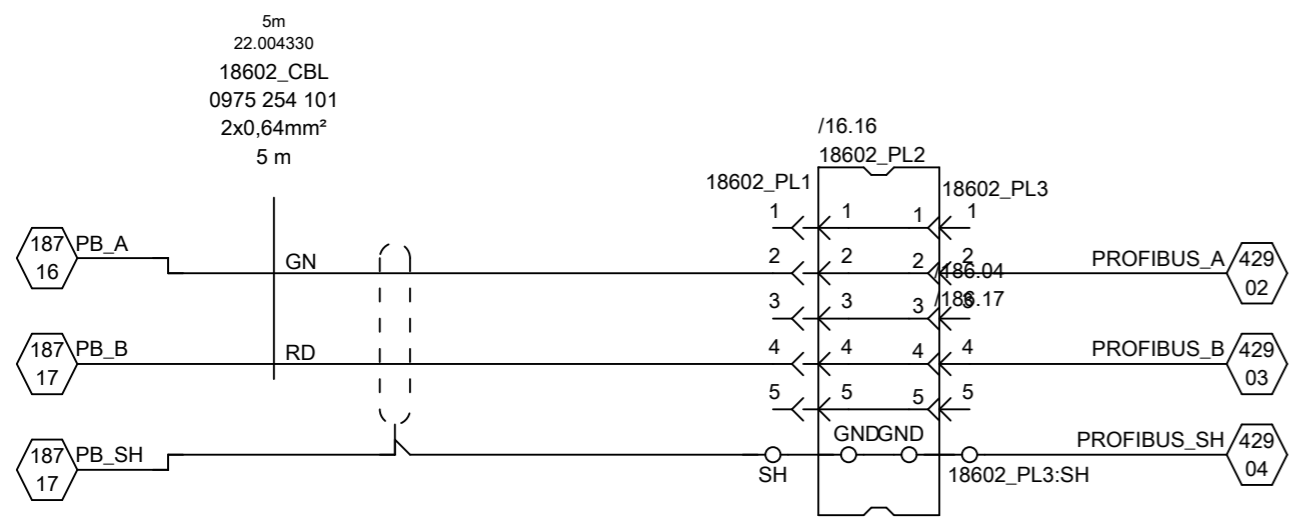
EKS system at main operating panel

Reserve

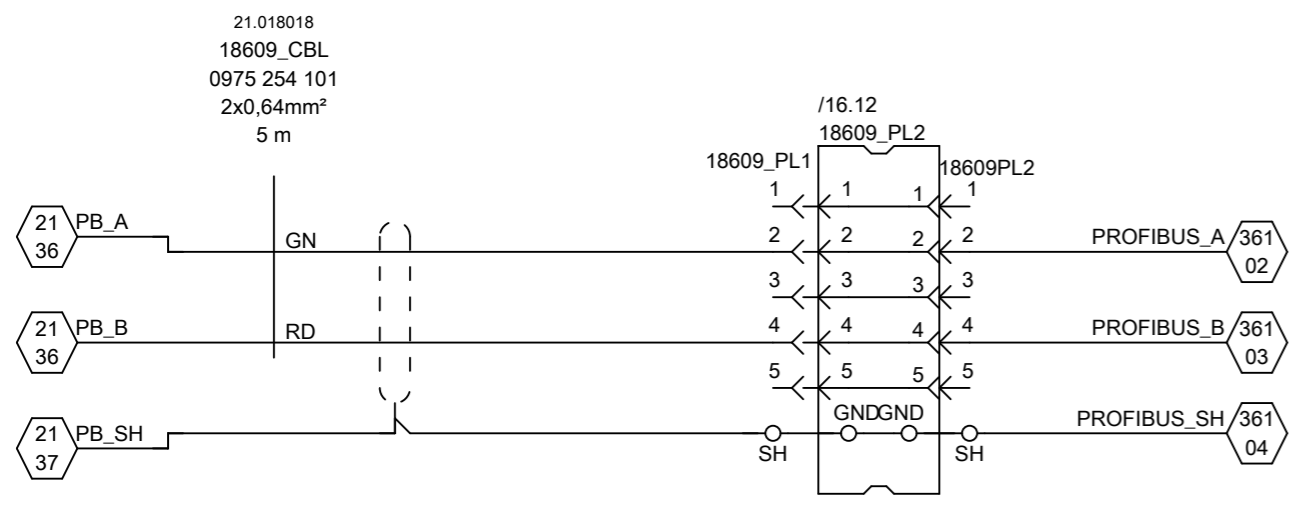
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	29.10.2015	AHP3/EWD			
Industrial Ethernet				Inv.No.	
Number of sheets				275	Sheet
ePLAN P8 2.2.5				=54794	184
				Sheet	186

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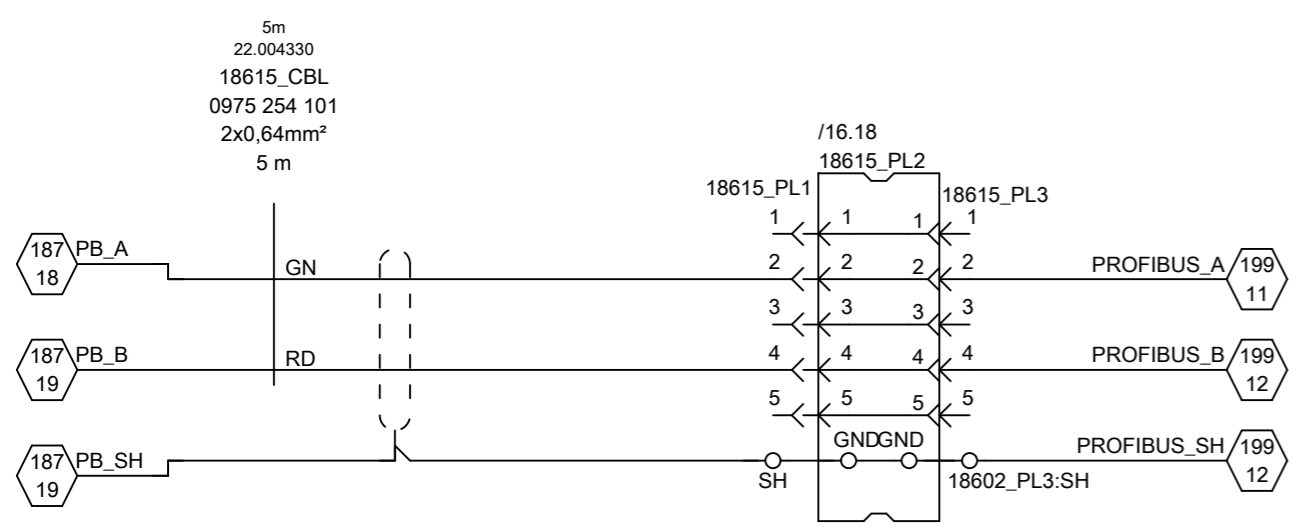
186 30
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ET200Pro



ET200pro
interface cooling
lubricant unit

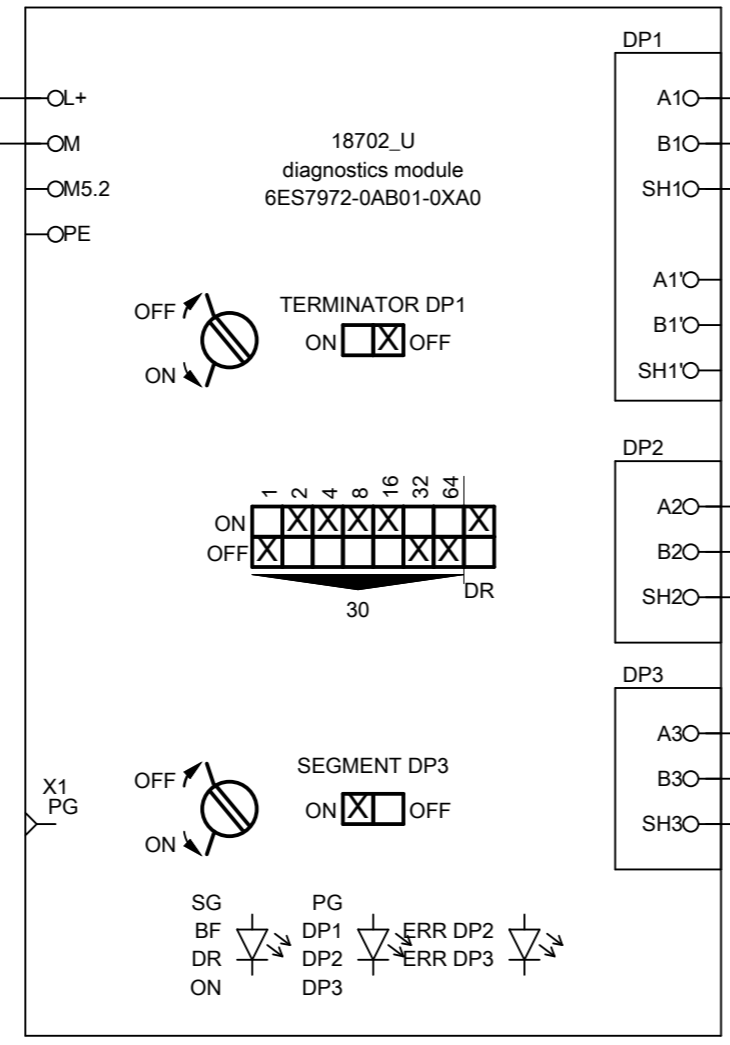


rack-type magazine
chain-type magazine

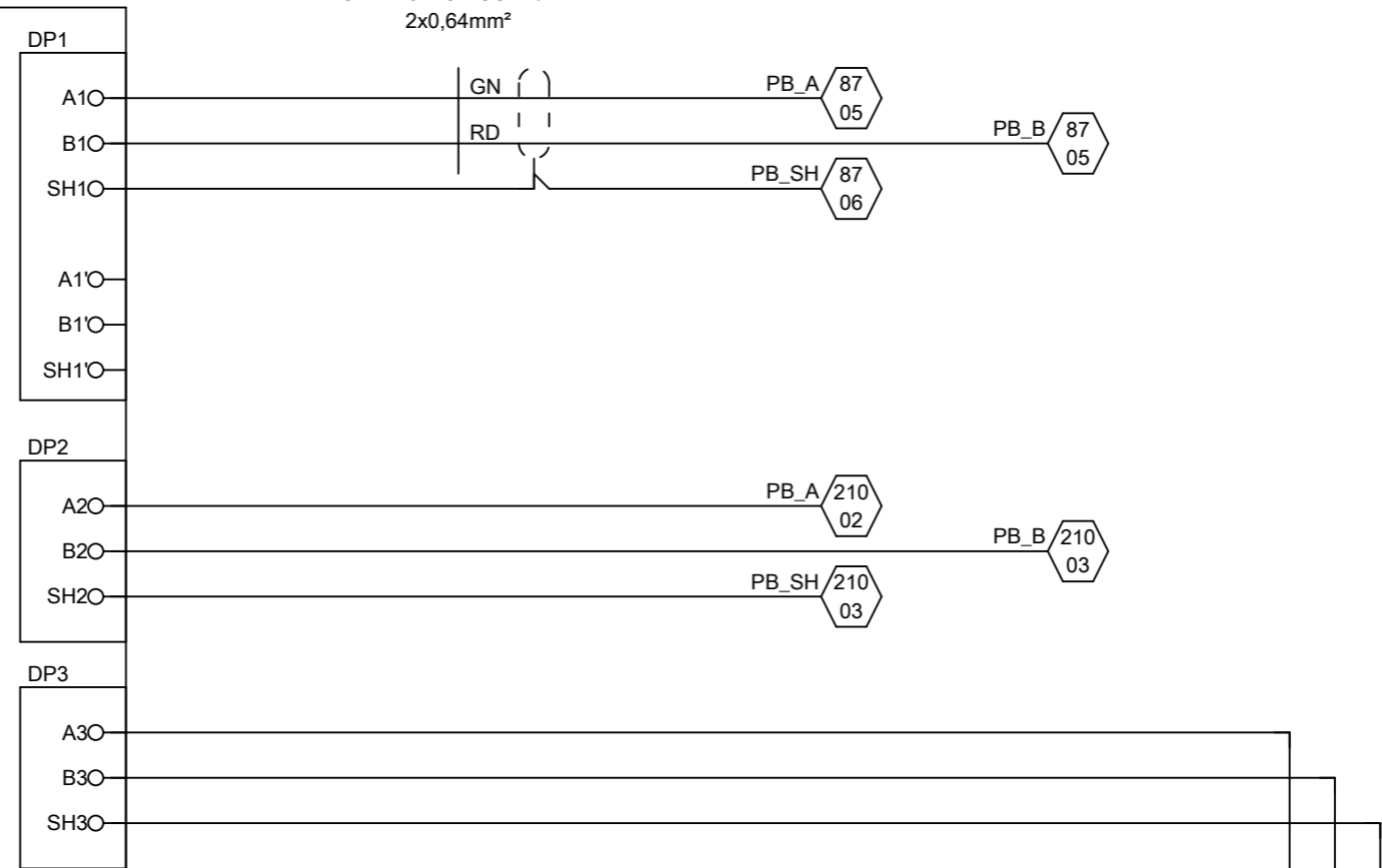
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus DP Field bus coupling				Inv.No.	
				Number of sheets 275 Sheet 186	
ePLAN P8 2.2.5		=54794		185 Sheet 187	

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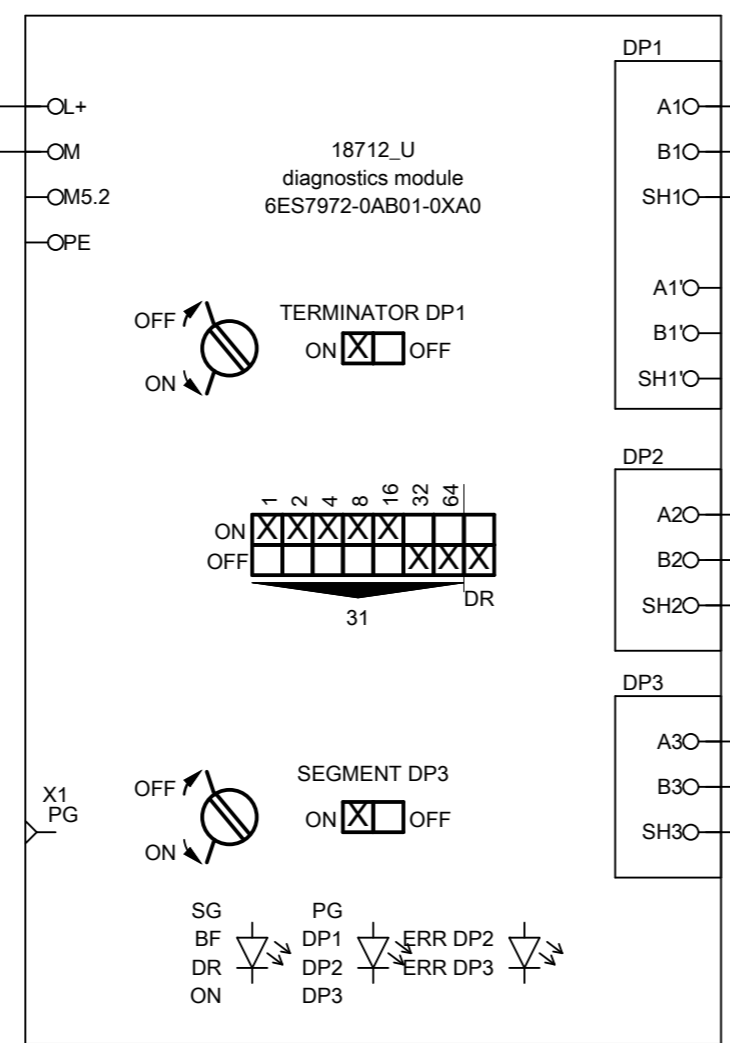
101 100042 05 0VDC
101 100351 05 24VDC



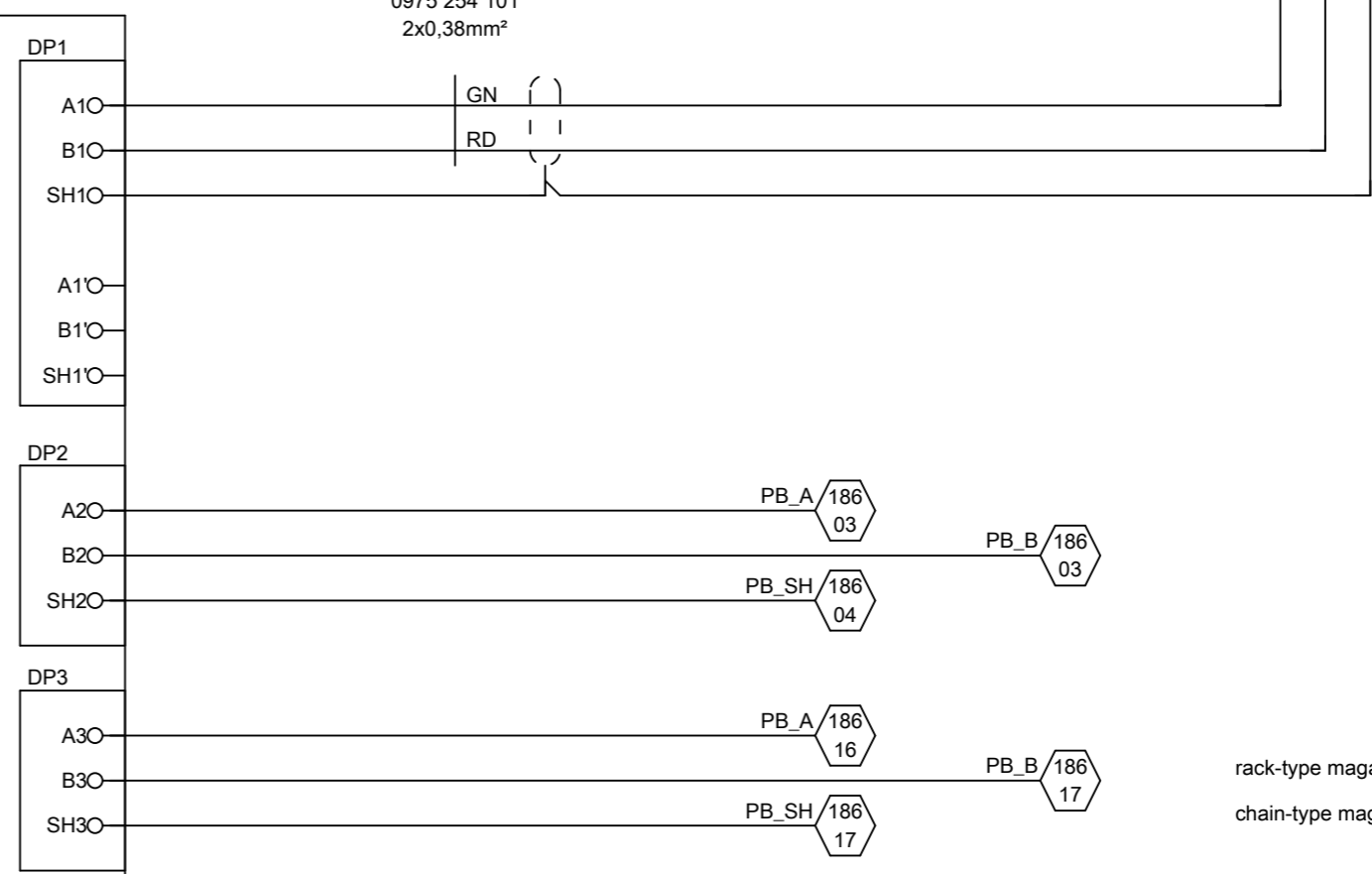
4m
22.005547
18702_CBL
UNITRONIC BUS-L2/FIP
2x0,64mm²



101 100042 06 0VDC
101 100351 06 24VDC



0,4m
22.008720
18712_CBL
0975 254 101
2x0,38mm²



rack-type magazine
chain-type magazine

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus DP diagnostics repeater				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 187	
=54794				186 Sheet 188	

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Reserve
barcode reader, handheld
scanner, workpiece loading station

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Barcode reader, handheld scanner with Ethernet				Number of sheets 275 Sheet 188			
ePLAN P8 2.2.5		=54794		◀ 187		Sheet 189 ▶	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets 275 Sheet 189	
ePLAN P8 2.2.5		=54794		188	Sheet 190

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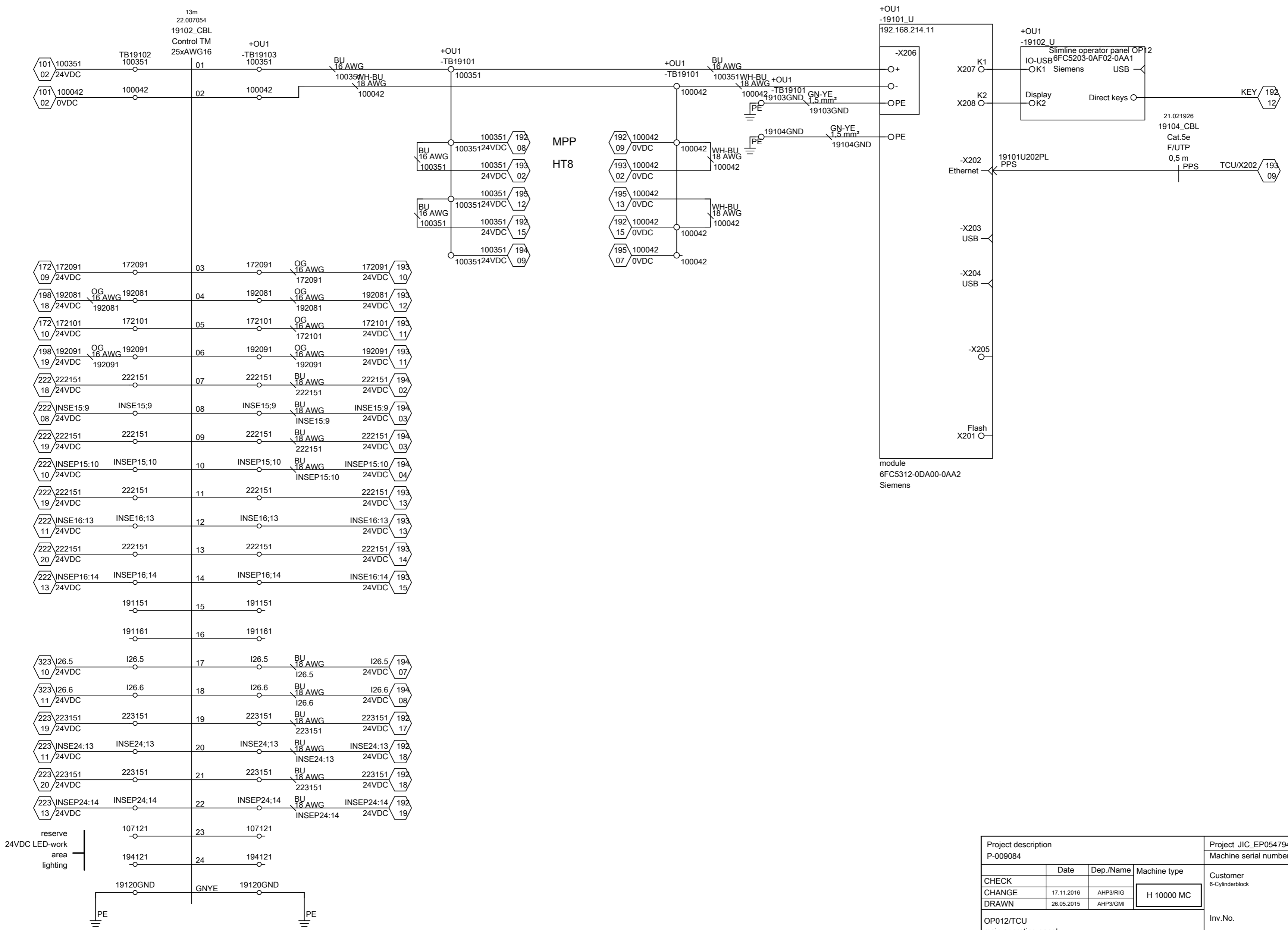
Reserve

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Reserve

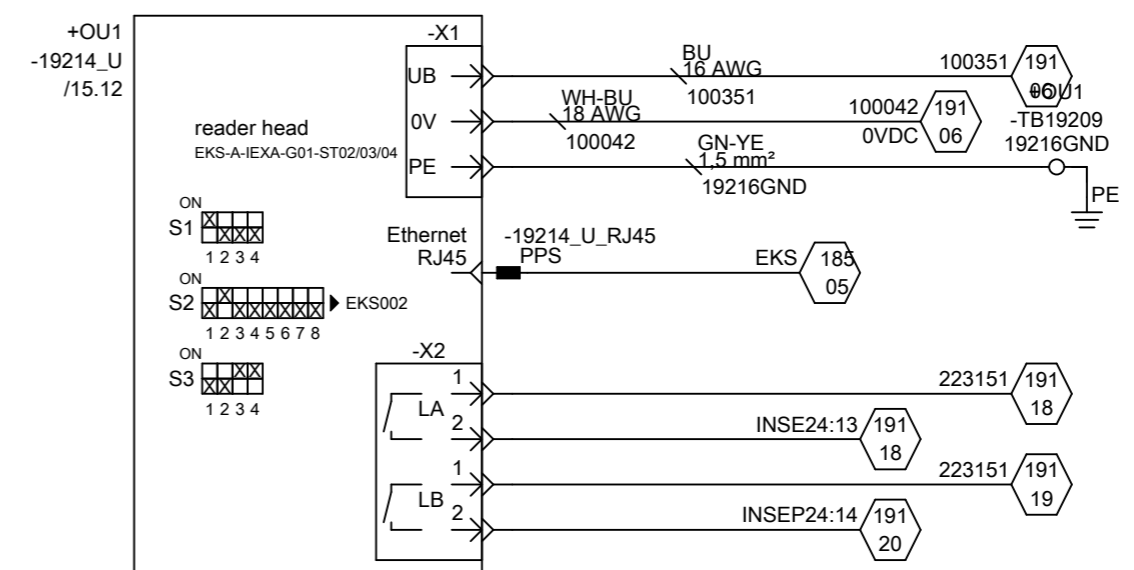
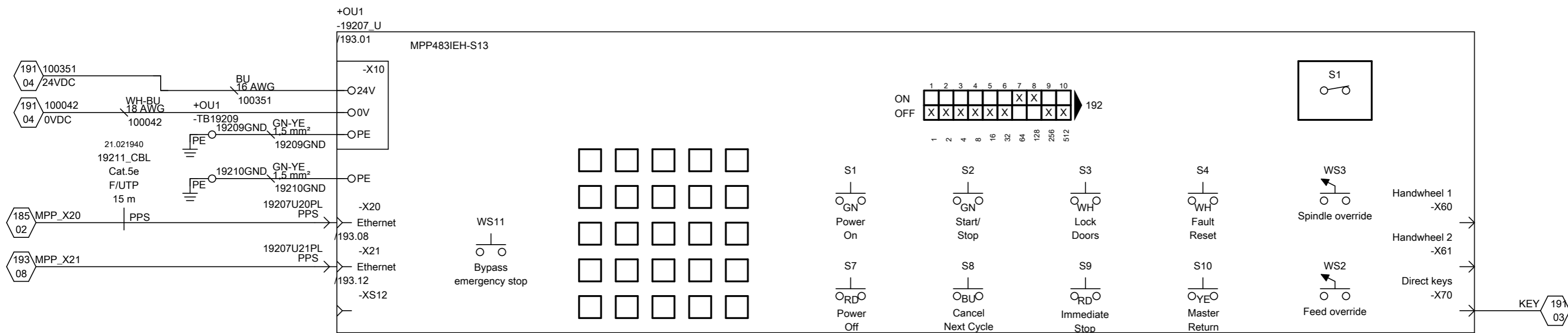
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 190
=54794				189	Sheet 191

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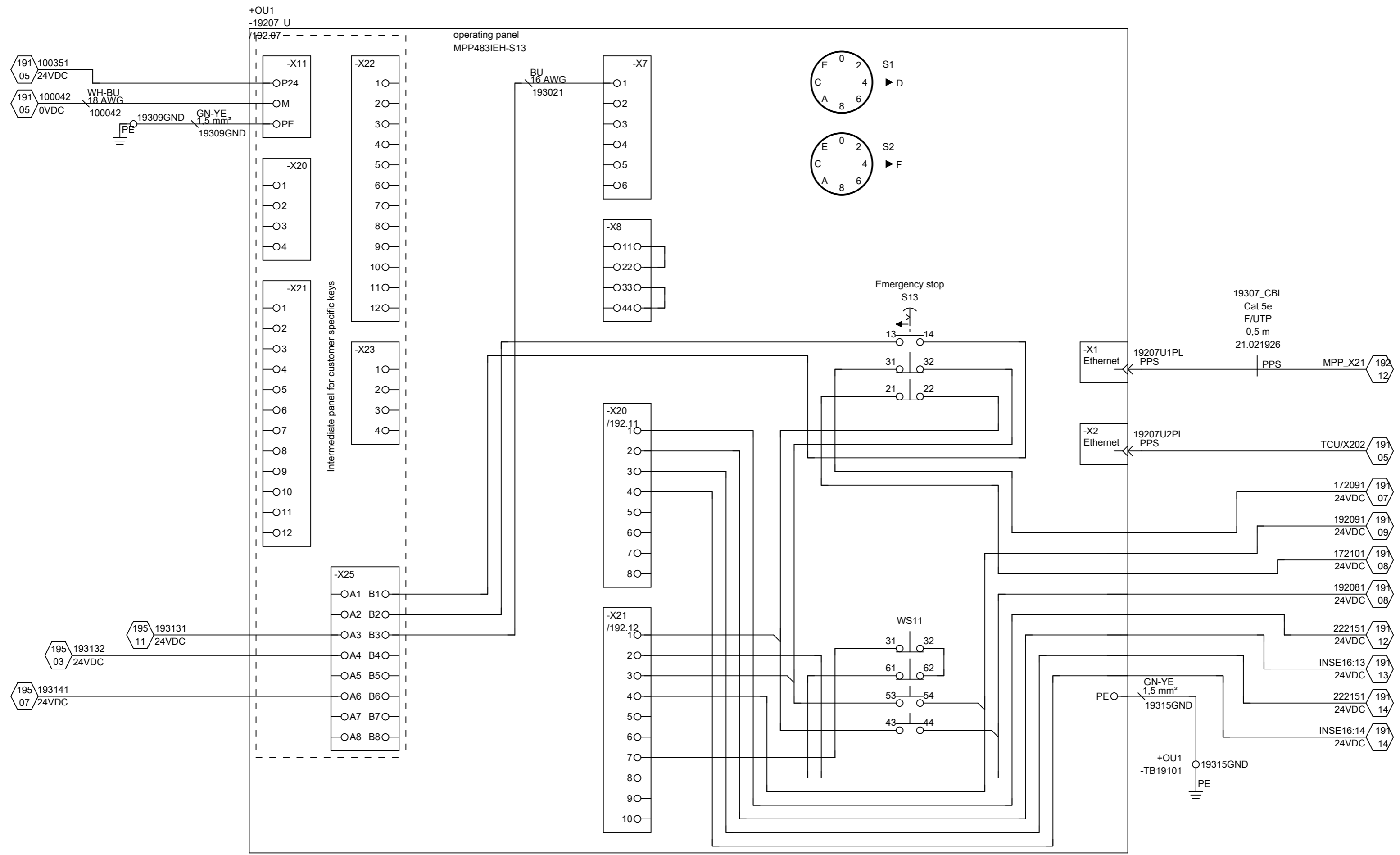
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
OP012/TCU main operating panel				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 191	
=54784				190 Sheet 192	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Machine operating panel, main operating panel				Inv.No.		
ePLAN P8 2.2.5				=54794		
Number of sheets				275	Sheet	192
191				Sheet	193	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 193	
=54784				192 Sheet 194	

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Approval
main operator panel
+OU1
-19402_PB
WH



Approval key,
main operator panel

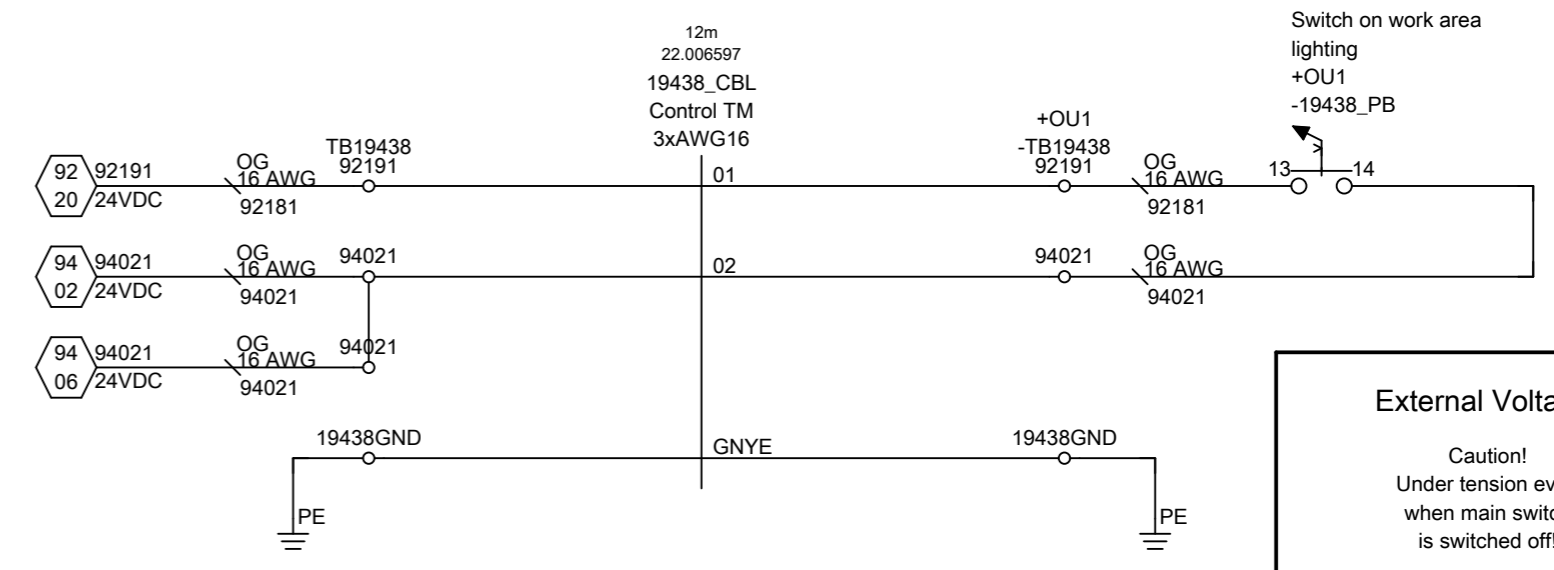
Spiral chip conveyer
+OU1
-19407_PB



Spiral chip conveyer
forwards on

Jogging spiral chip
conveyor backwards

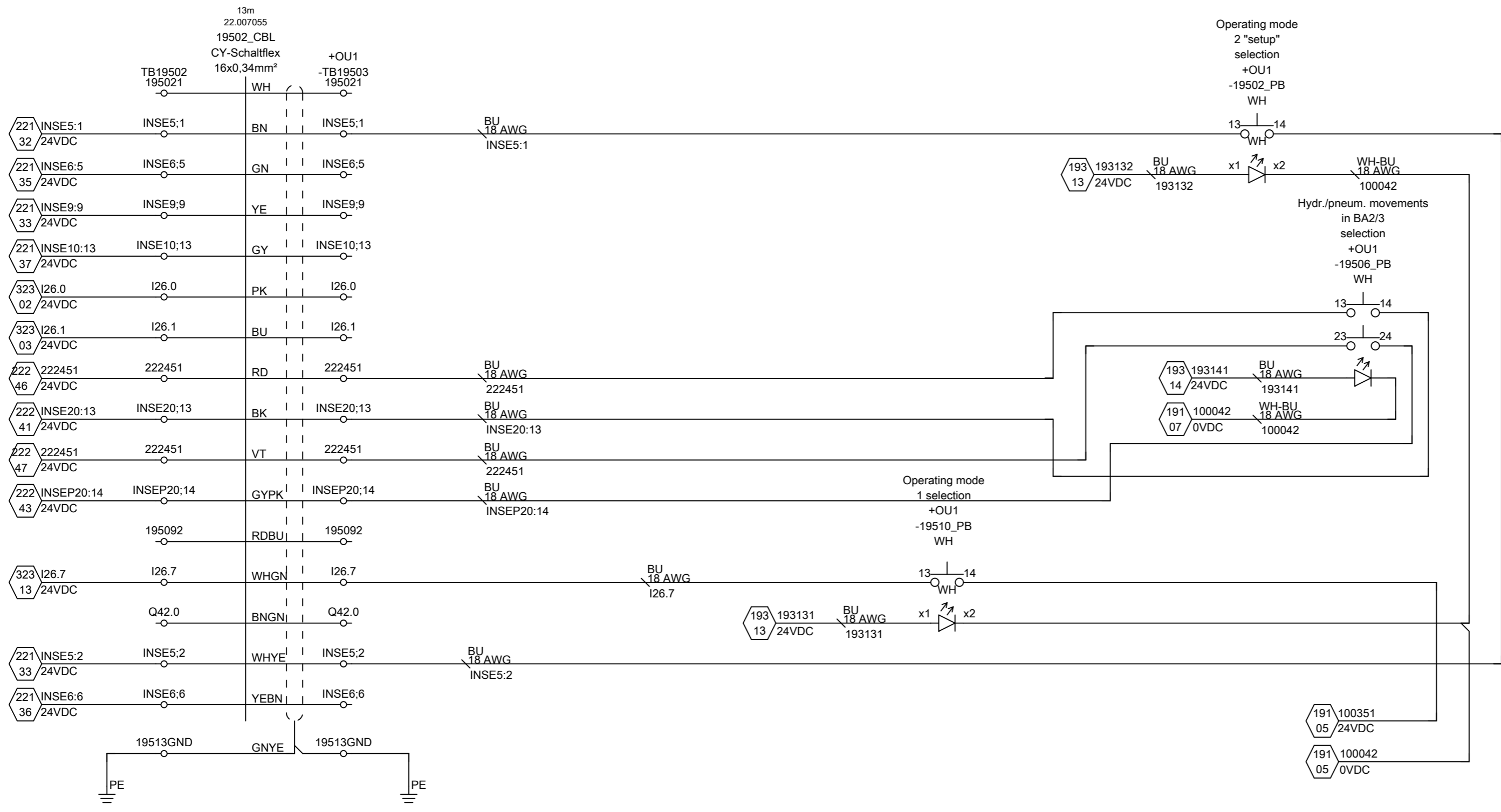
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External Voltage!
Caution!
Under tension even
when main switch
is switched off!

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	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 275 Sheet 194	
=54784				193 Sheet 195	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Operating mode selection, main operating panel				Inv.No.		
ePLAN P8 2.2.5				=54784		
Number of sheets				275	Sheet	195
◀ 194				Sheet	196	

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Hand-held operating unit main operating unit				Inv.No.	
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				195	197

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Reserve

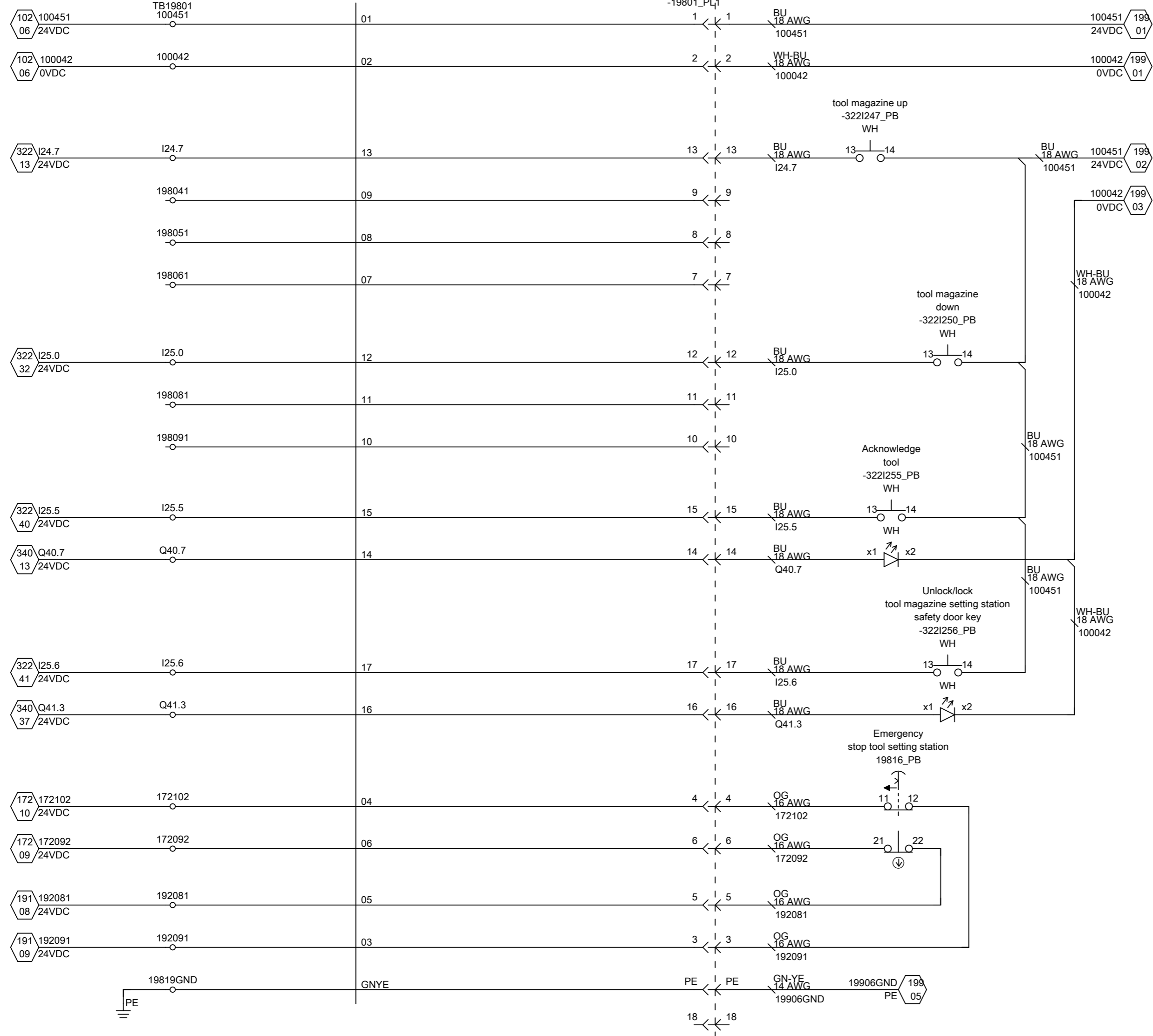
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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve, control panel rear wall media supply				Number of sheets 275 Sheet 197	
ePLAN P8 2.2.5		=54784		196	Sheet 198

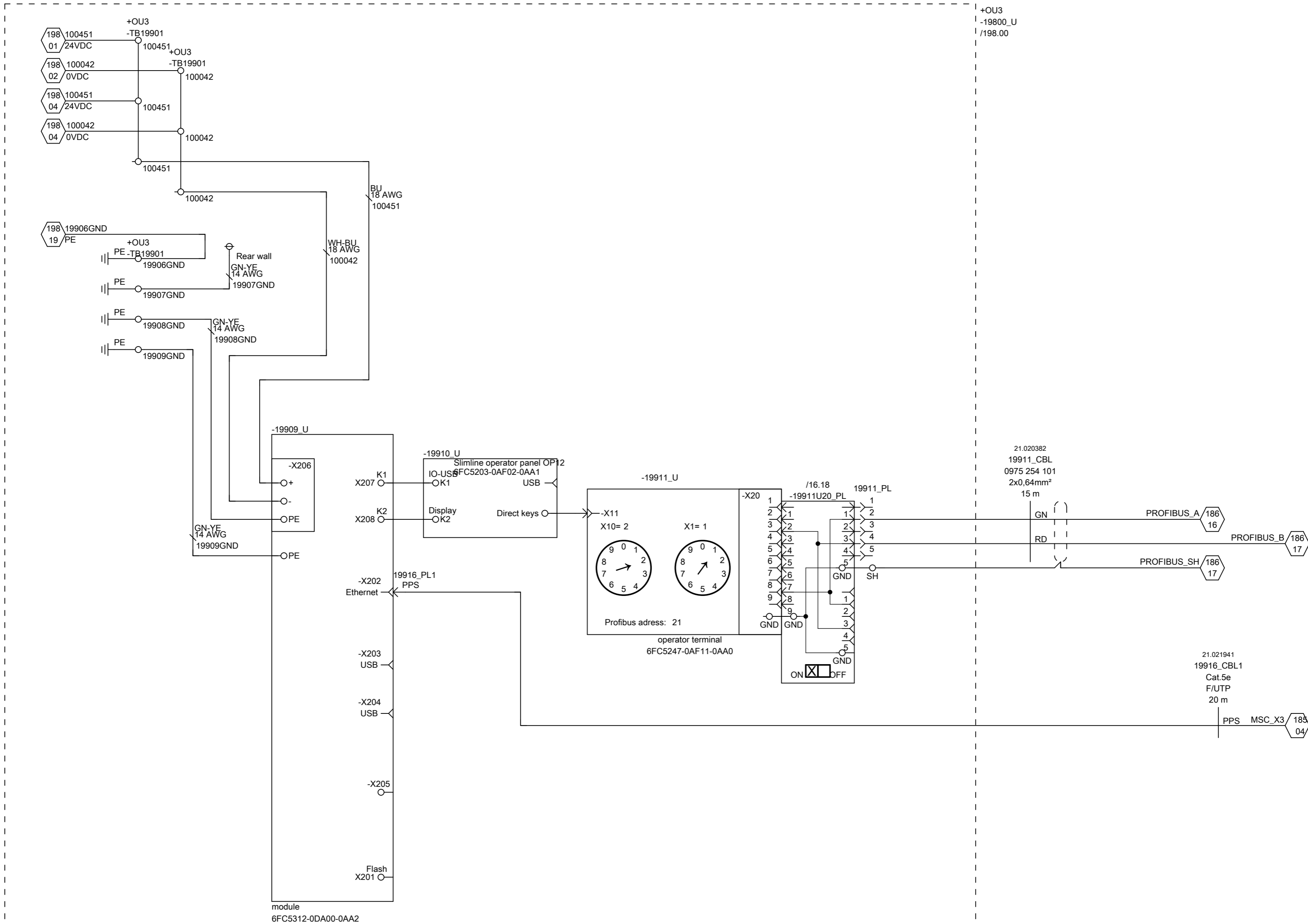
19801_CBL1
Control TM
18xAWG16

+OU3
-19800_U
/199.00



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	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 275 Sheet 198	
=54794				197 Sheet 199	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool setting station magazine control panel				Inv.No.	
				Number of sheets	
ePLAN P8 2.2.5				275	Sheet
=54794				198	200

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Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Interface for rack-type magazine handheld operating unit					
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				199	201

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Reserve workpiece loading station
operating unit

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Workpiece setting station operator panel				Inv.No.	
				Number of sheets 275 Sheet 201	
ePLAN P8 2.2.5		=54784		◀ 200 Sheet 202 ▶	

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Reserve
workpiece loading station operating unit

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Workpiece setting station operator panel				Inv.No.	
				Number of sheets 275 Sheet 202	
ePLAN P8 2.2.5		=54784		◀ 201 Sheet 203 ▶	

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Reserve
workpiece loading station operating unit

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve workpiece loading station operating panel preset start				Inv.No.	
				Number of sheets 275 Sheet 203	
ePLAN P8 2.2.5		=54784		◀ 202 Sheet 204 ▶	

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Reserve

Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Workpiece setting station operator panel					
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				◀ 203	205 ▶

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Reserve

Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Workpiece setting station operator panel					
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				◀ 204	206 ▶

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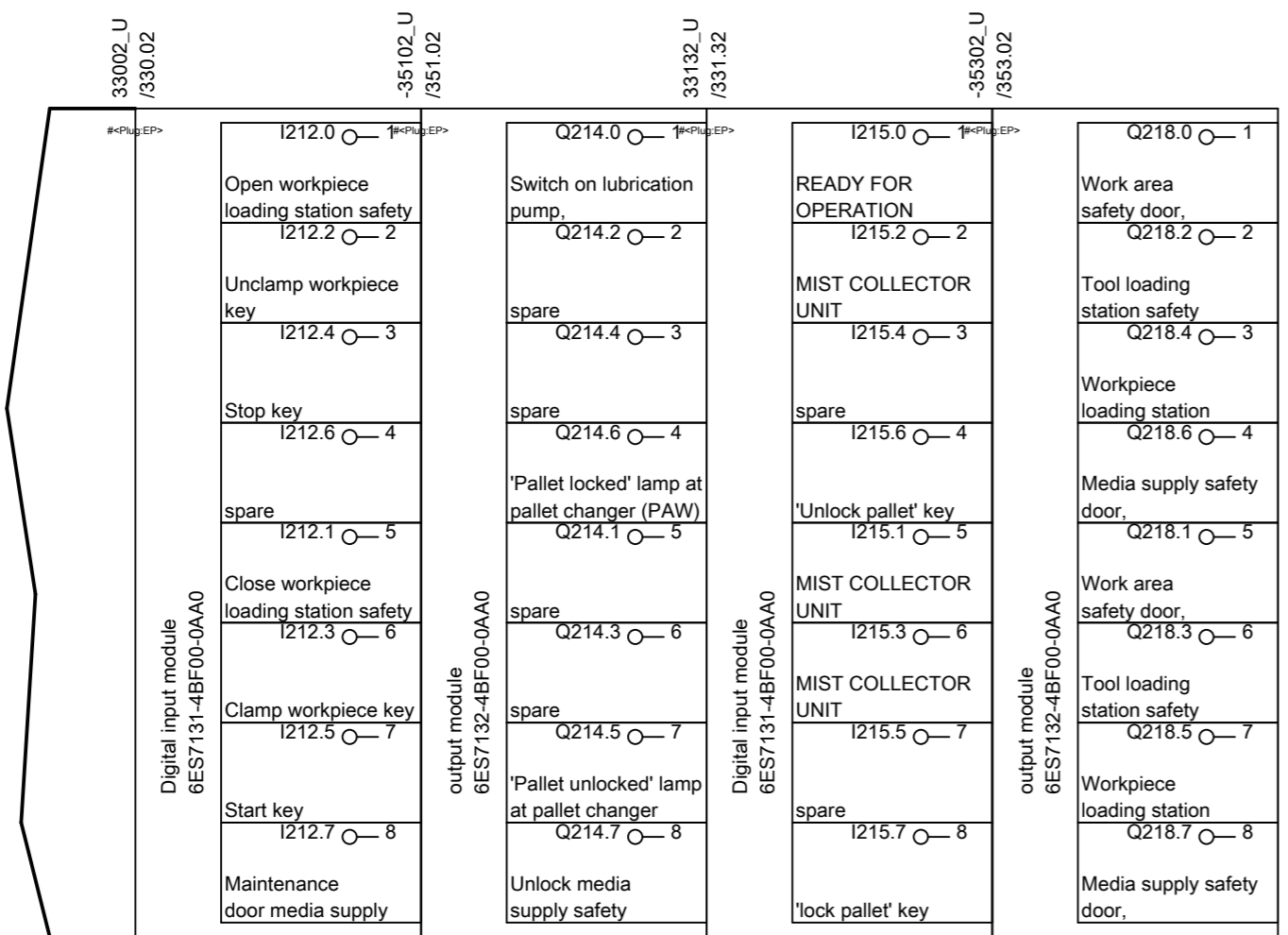
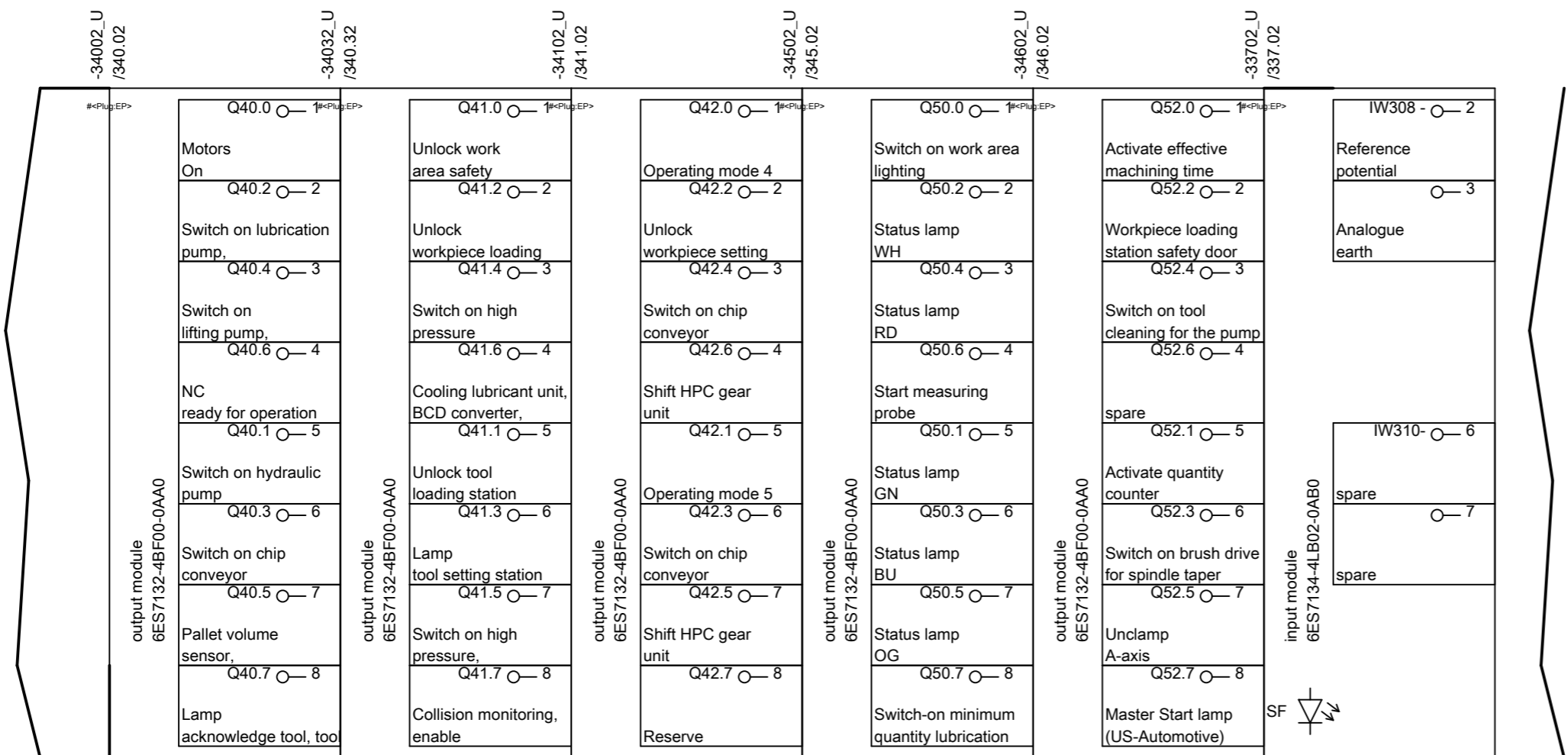
206
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Reserve

Reserve

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	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 275 Sheet 206	
ePLAN P8 2.2.5		=54784		◀ 205 Sheet 207 ▶	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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.	
				Number of sheets 275 Sheet 208	
ePLAN P8 2.2.5		=54784		◀ 207 Sheet 209 ▶	

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Reserve
Overview of inputs/outputs
control cabinet

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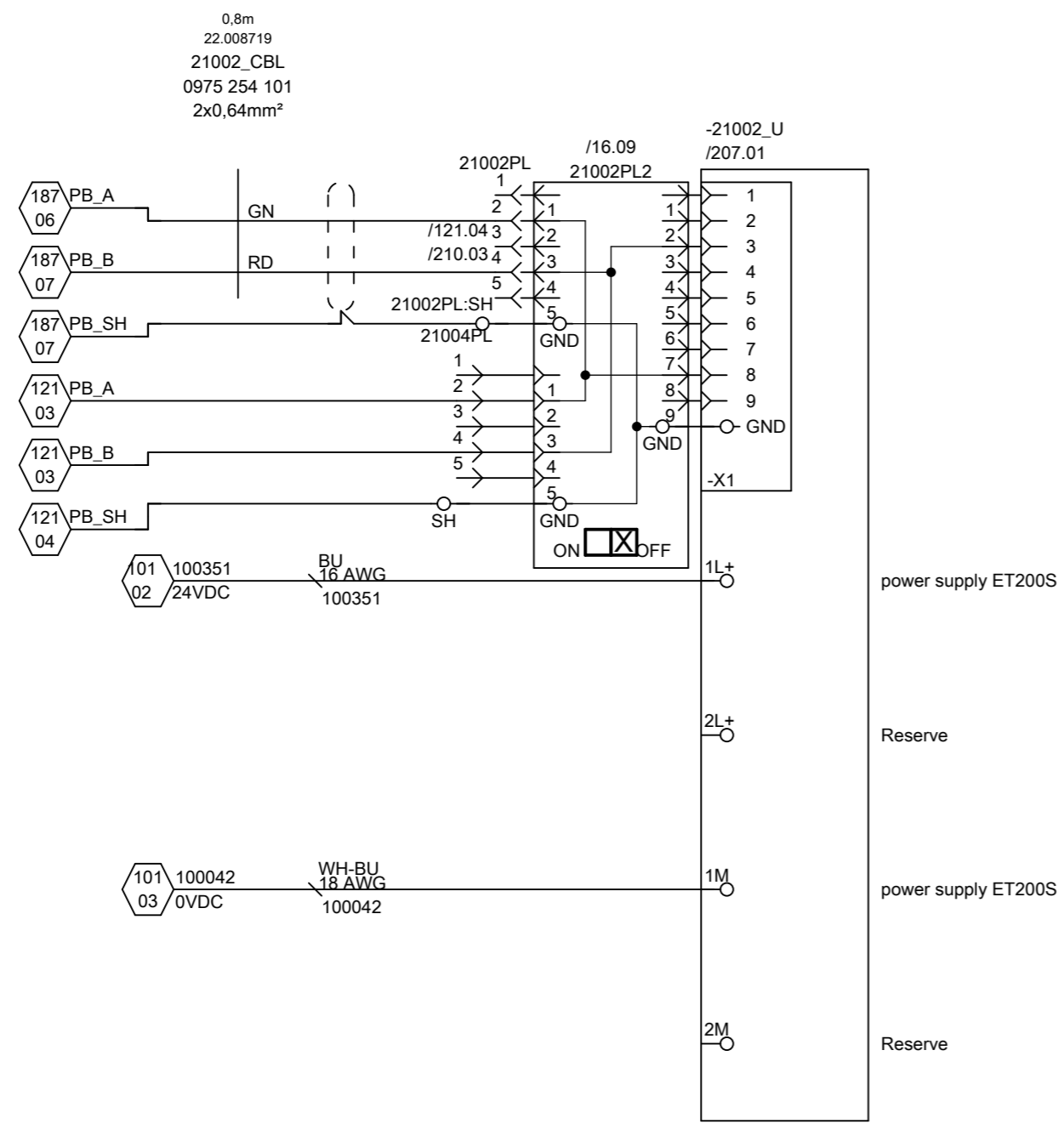
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Reserve Overview of inputs/outputs control cabinet				Inv.No.		
ePLAN P8 2.2.5				=54784	Number of sheets 275 Sheet 209	
				◀ 208	Sheet	210 ▶

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus interface				Inv.No.	
				Number of sheets 275 Sheet 210	
ePLAN P8 2.2.5		=54794		209 Sheet 211	

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Reserve
page 211-218
Profibus interface

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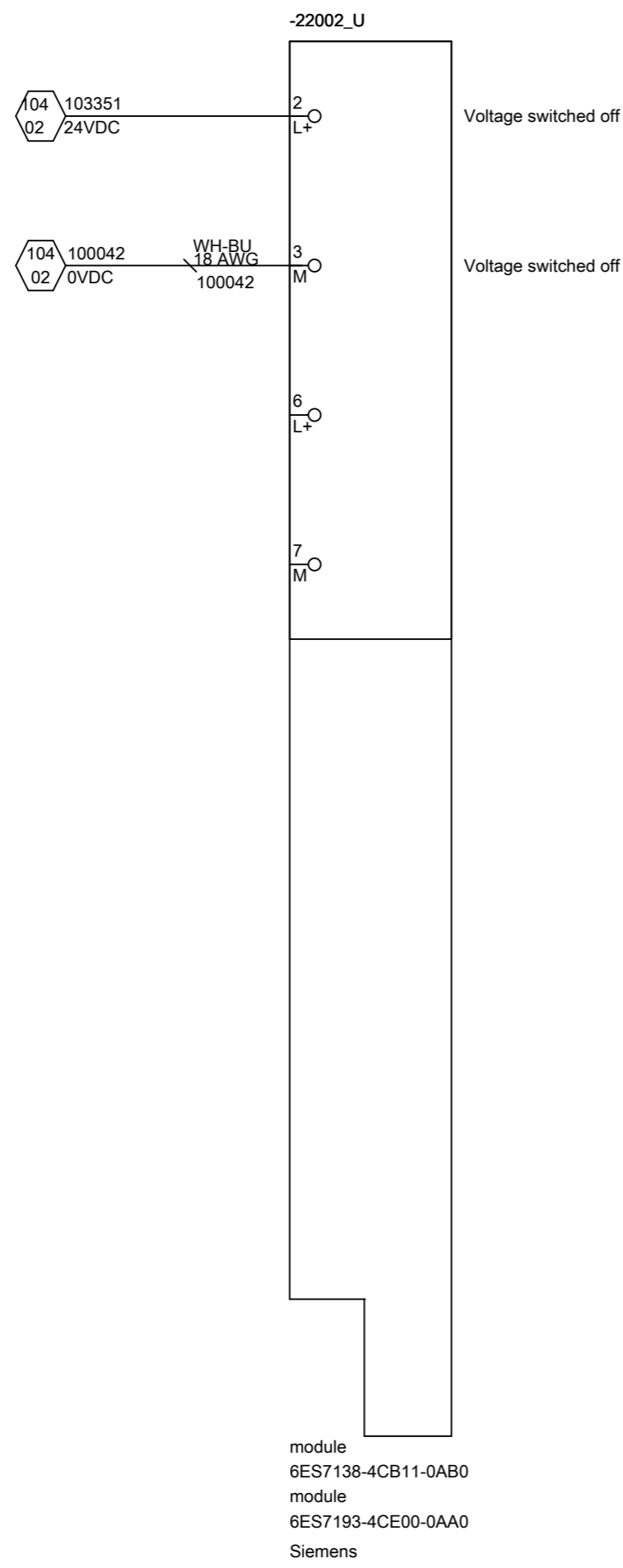
211
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve page 211-218 Profibus-Interface				Inv.No.	
ePLAN P8 2.2.5 =54784				Number of sheets 275 Sheet 211	
				◀ 210 Sheet 219 ▶	

Reserve
Power module 24V DC

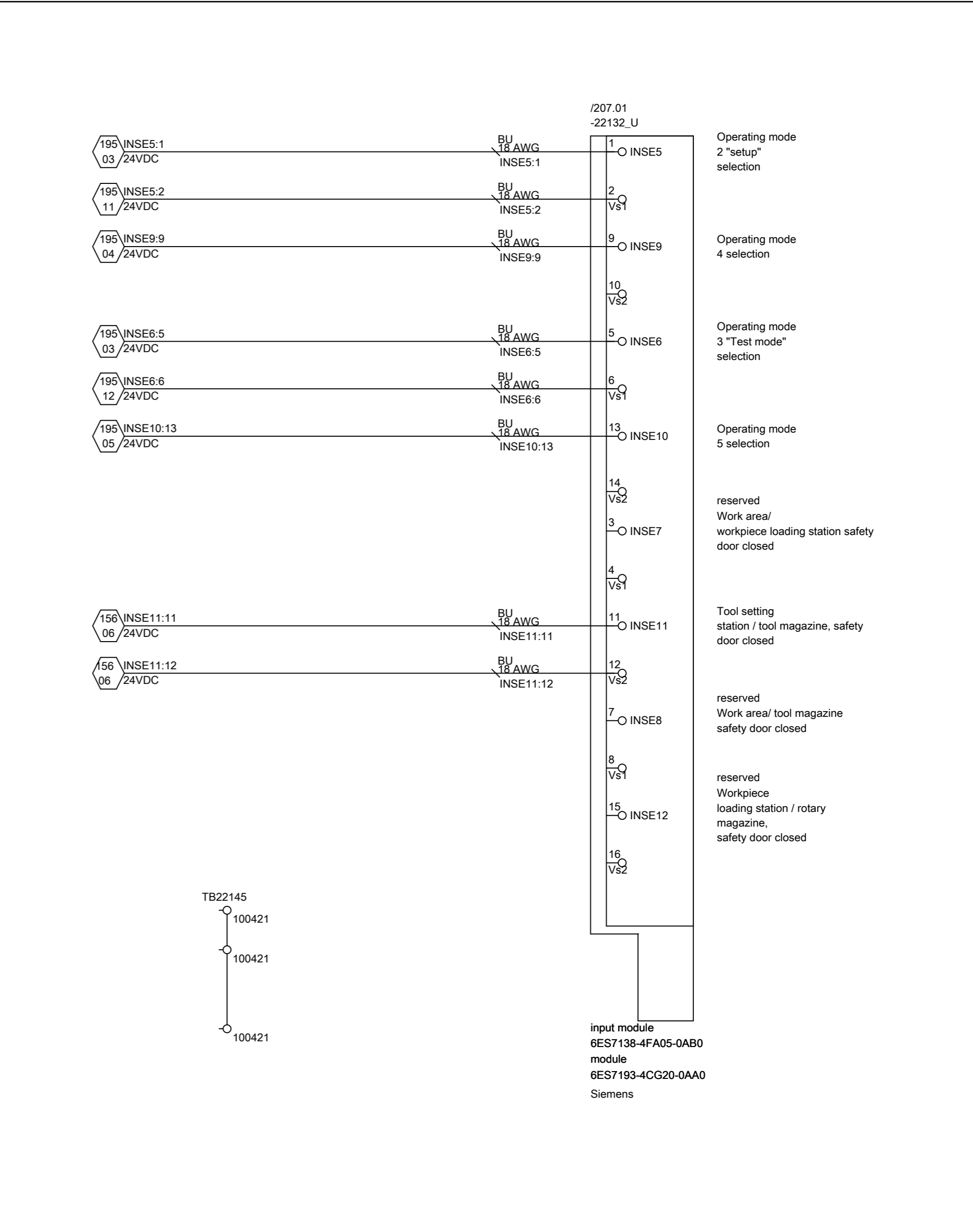
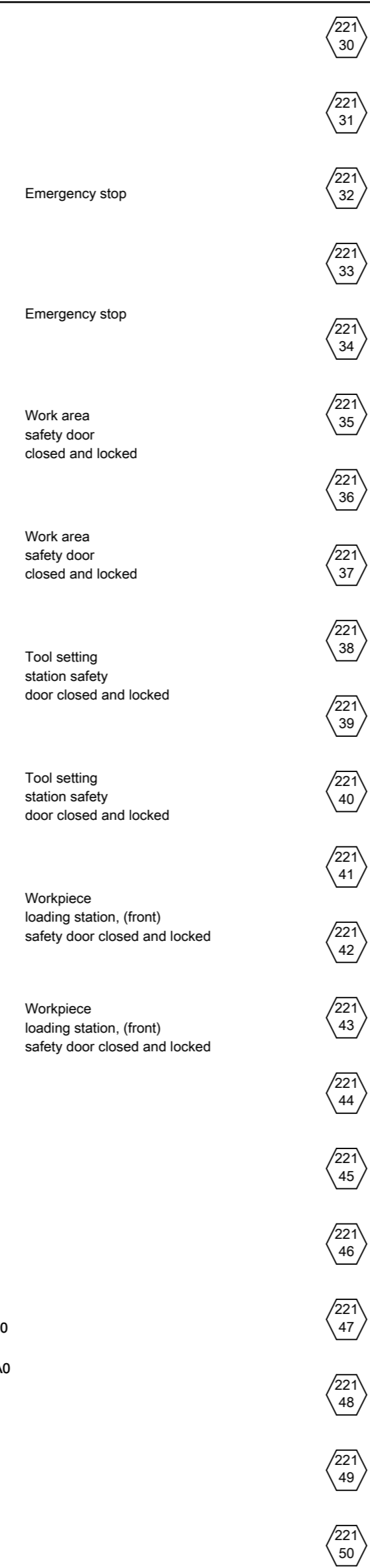
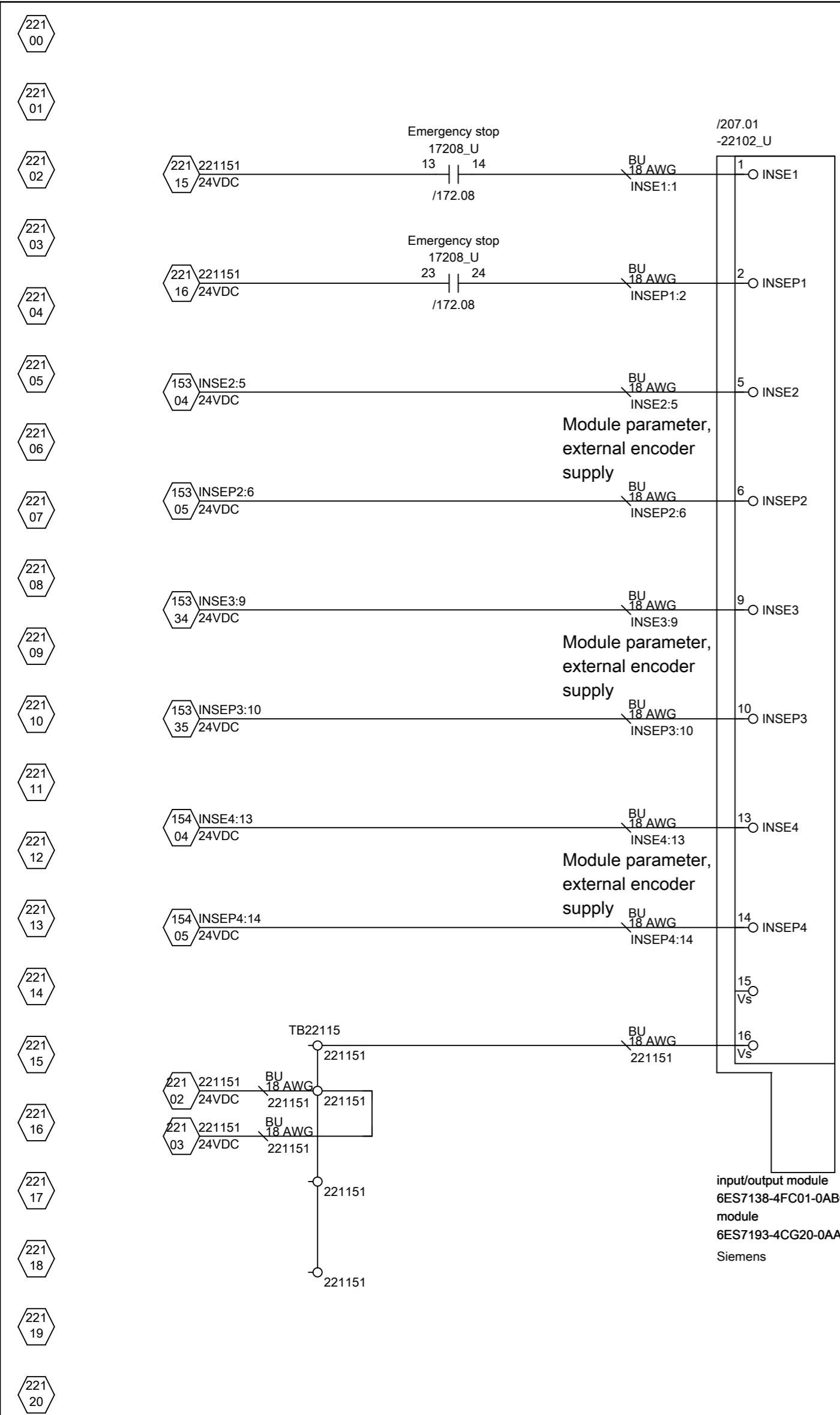
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Powermodul 24V DC				Number of sheets	
ePLAN P8 2.2.5 =54794				275	Sheet 219
				211	Sheet 220

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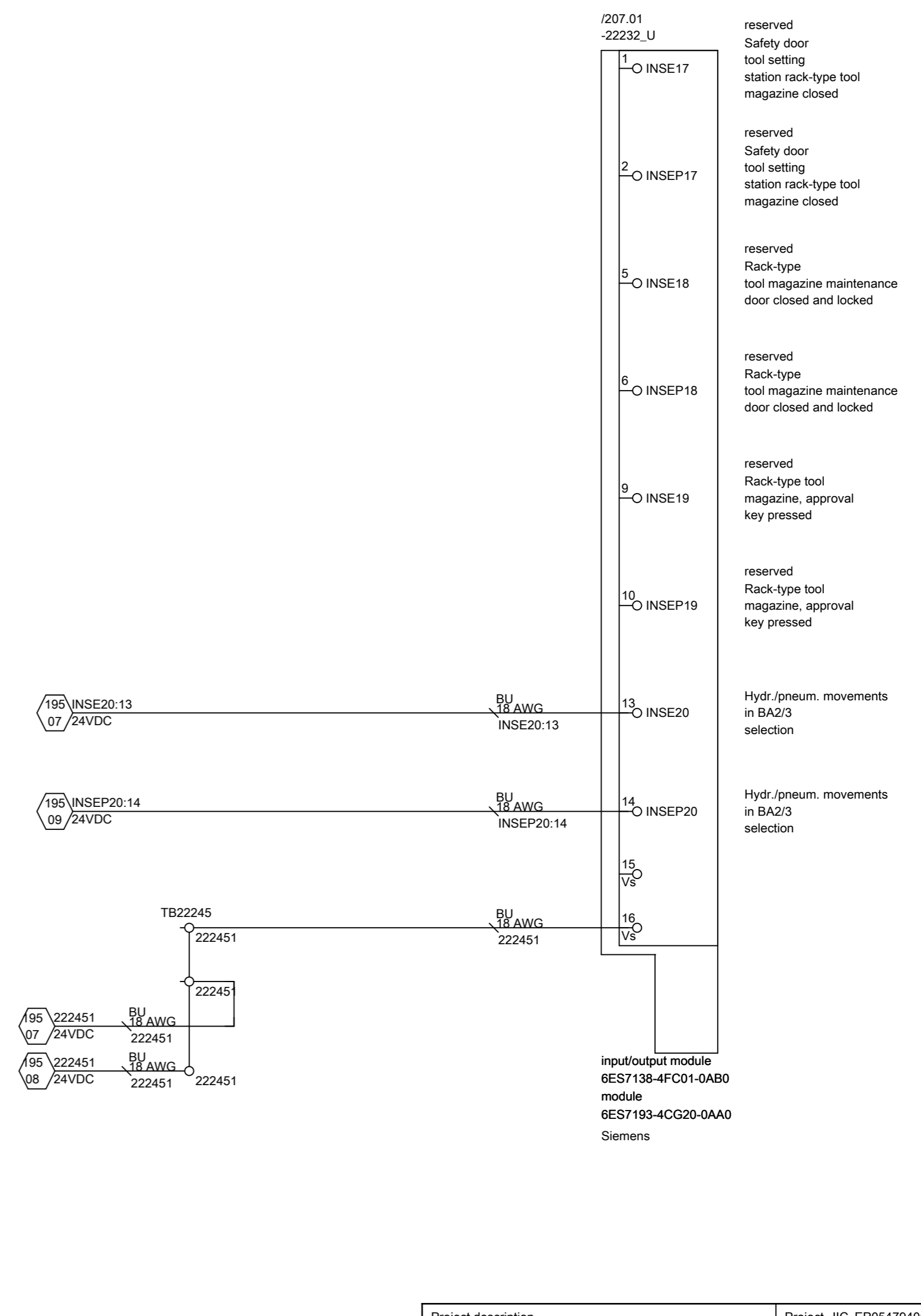
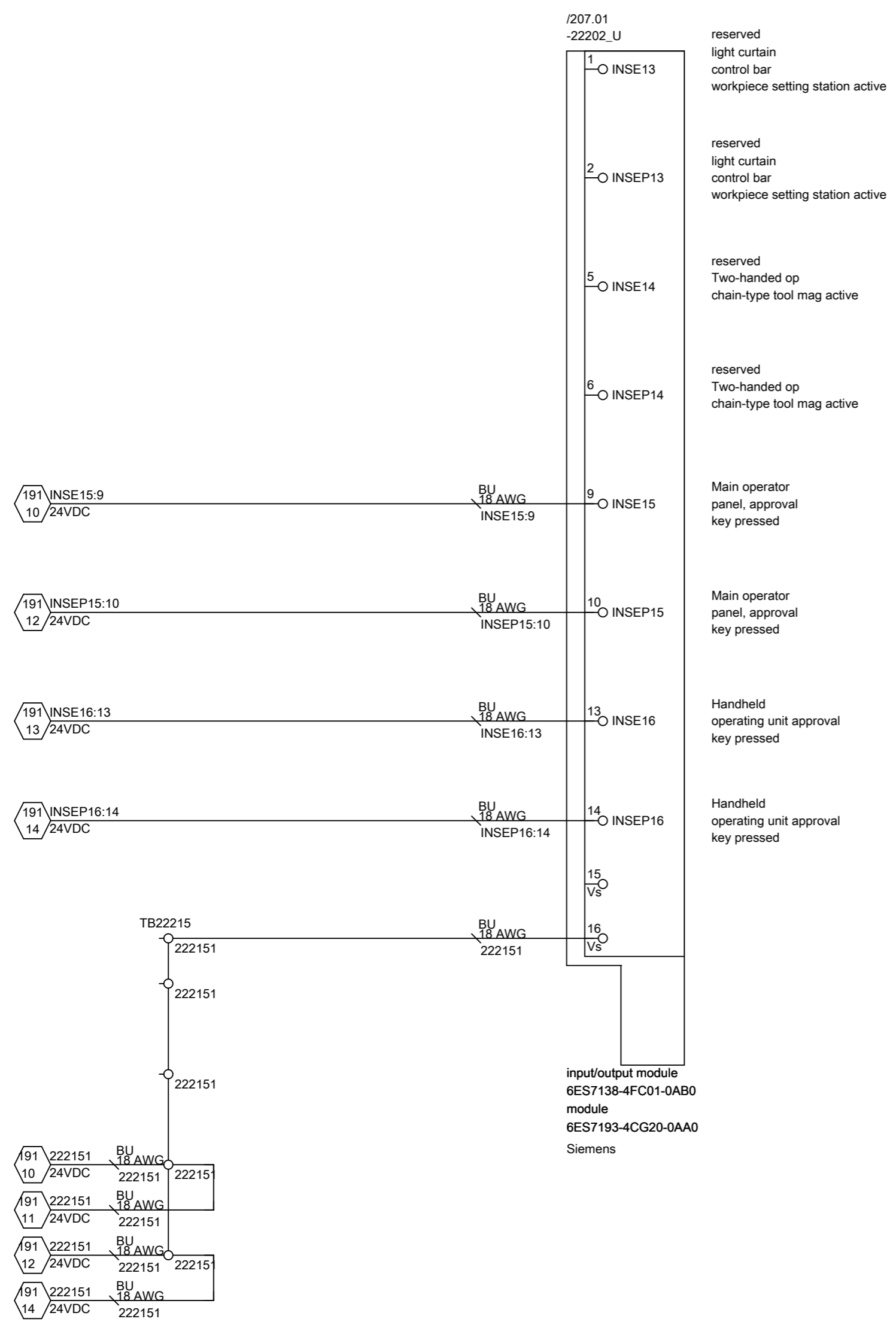
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	18.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Power module 24V DC				Inv.No.	
ePLAN P8 2.2.5				Number of sheets	
=54784				219	Sheet
				275	Sheet
				220	221



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 221	
=54784				220 Sheet 222	

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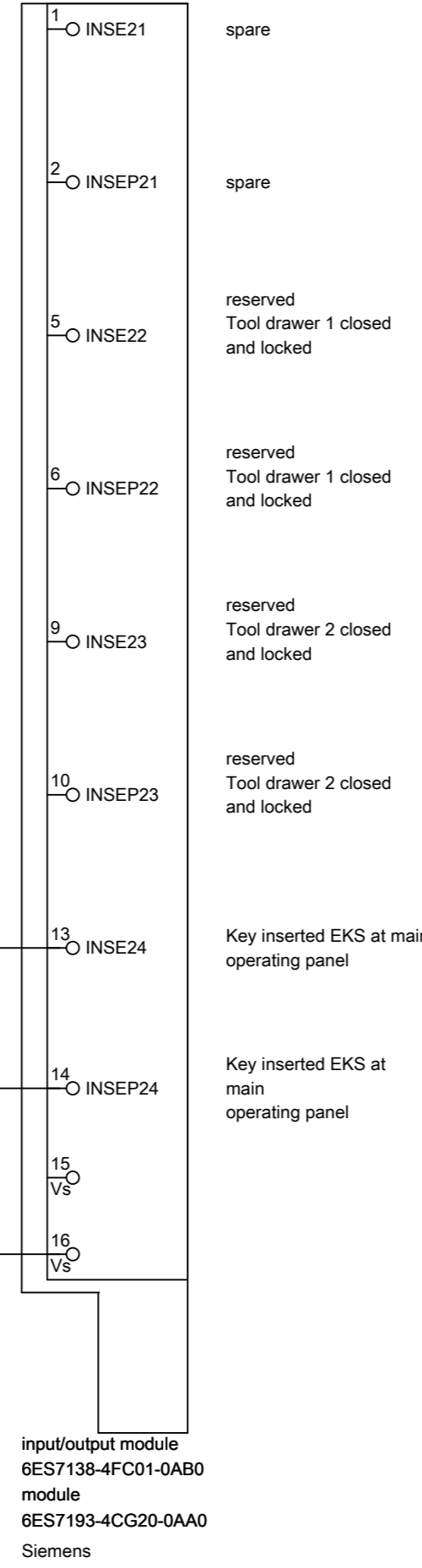
222 30
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
INSE13 - INSE16 INSE17 - INSE20				Inv.No.		
ePLAN P8 2.2.5				=54794	Number of sheets	275
				Sheet	222	223

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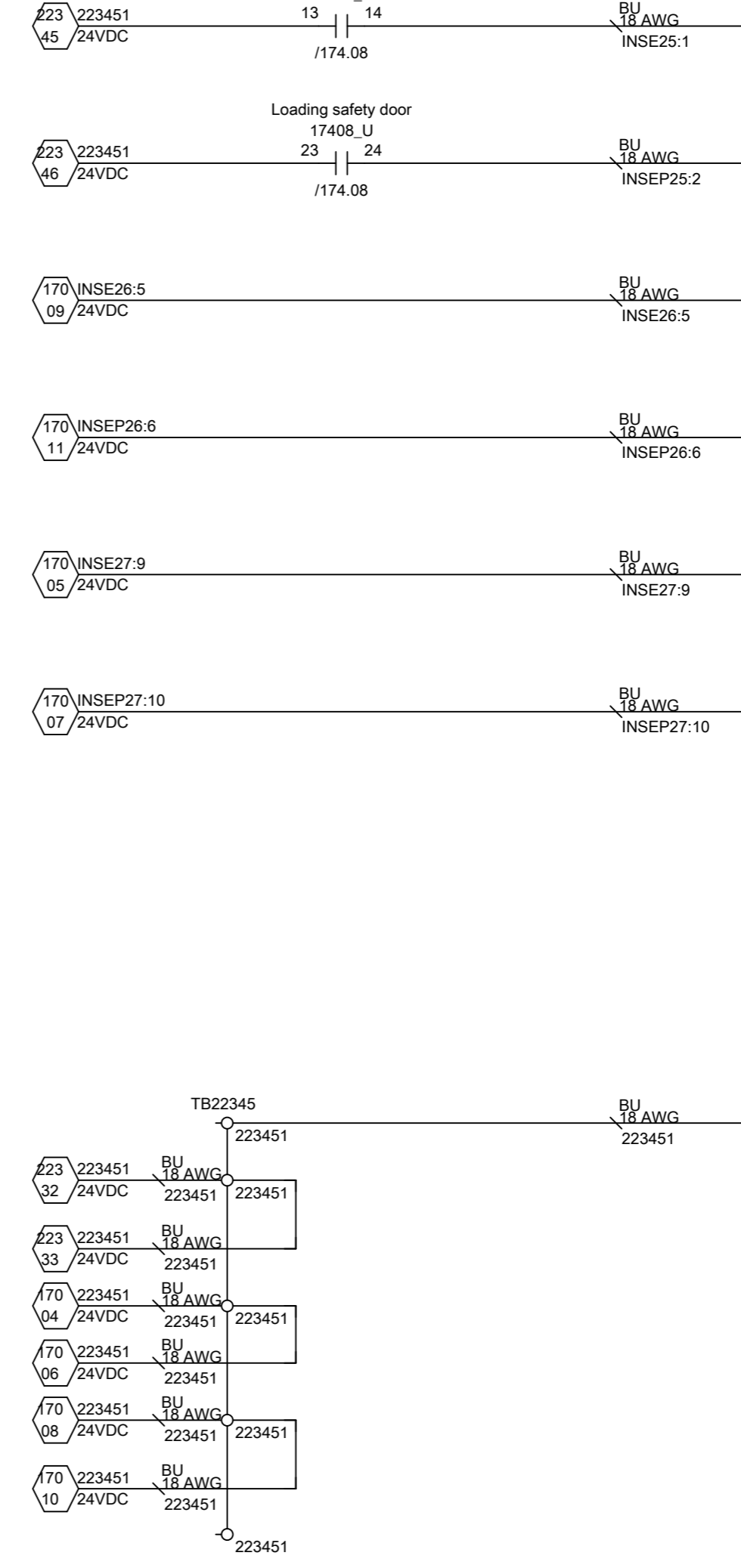
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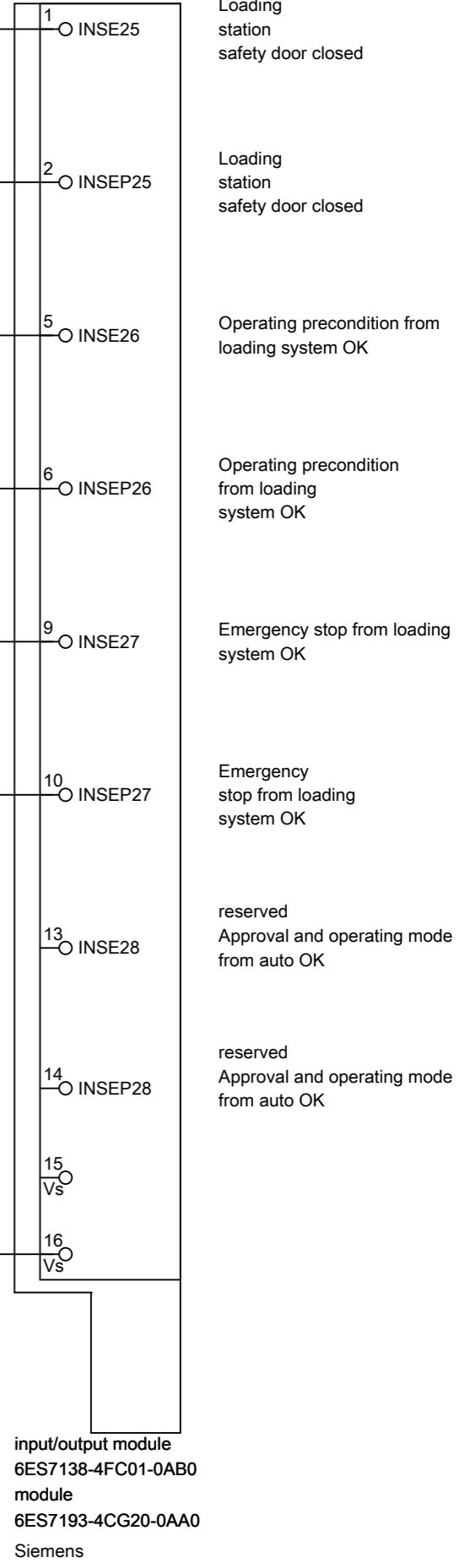
1 spare
2 spare
5 reserved
Tool drawer 1 closed
and locked
6 reserved
Tool drawer 1 closed
and locked
9 reserved
Tool drawer 2 closed
and locked
10 reserved
Tool drawer 2 closed
and locked
13 Key inserted EKS at main
operating panel
14 Key inserted EKS at main
operating panel

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Loading safety door
17408_U

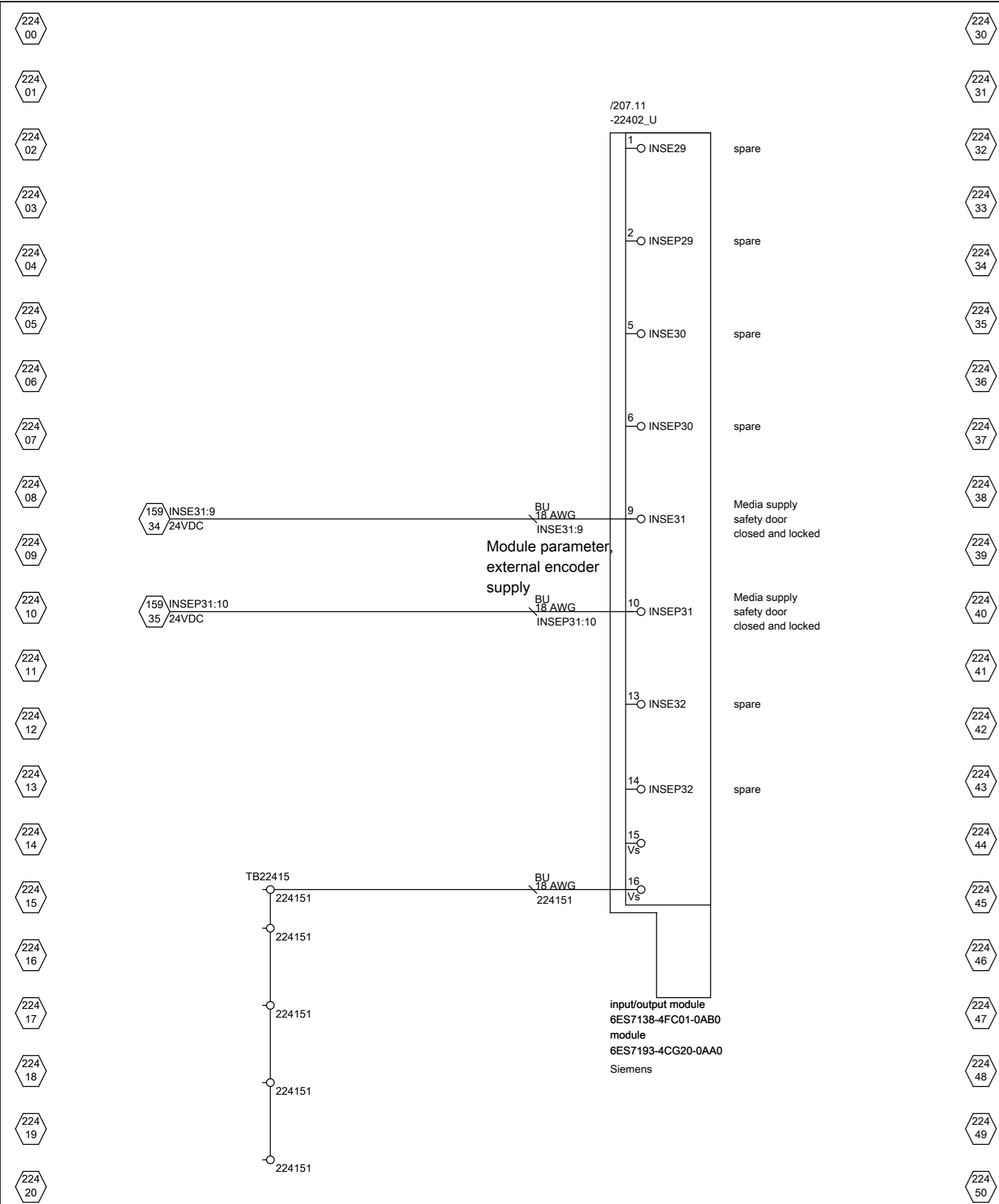


/207.01
-22332_U



1 Loading station
safety door closed
2 Loading station
safety door closed
5 Operating precondition from
loading system OK
6 Operating precondition
from loading
system OK
9 Emergency stop from loading
system OK
10 Emergency
stop from loading
system OK
13 reserved
Approval and operating mode
from auto OK
14 reserved
Approval and operating mode
from auto OK

Project description P-009084				Project JIC_EP05479400	
				Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
INSEP21 - INSEP24 INSEP25 - INSEP28				Inv.No.	
				Number of sheets 275 Sheet 223	
ePLAN P8 2.2.5		=54784		222 Sheet 224	



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
INSE29 - INSE32				Inv.No.		
Number of sheets				275	Sheet	224
ePLAN P8 2.2.5		=54784		223	Sheet	225

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Reserve
page 225-230

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG			
DRAWN	12.08.2015	AHP3/RIG		Inv.No.	
Reserve page 225-230					
Number of sheets					
ePLAN P8 2.2.5		=54784		224	Sheet
				225	225

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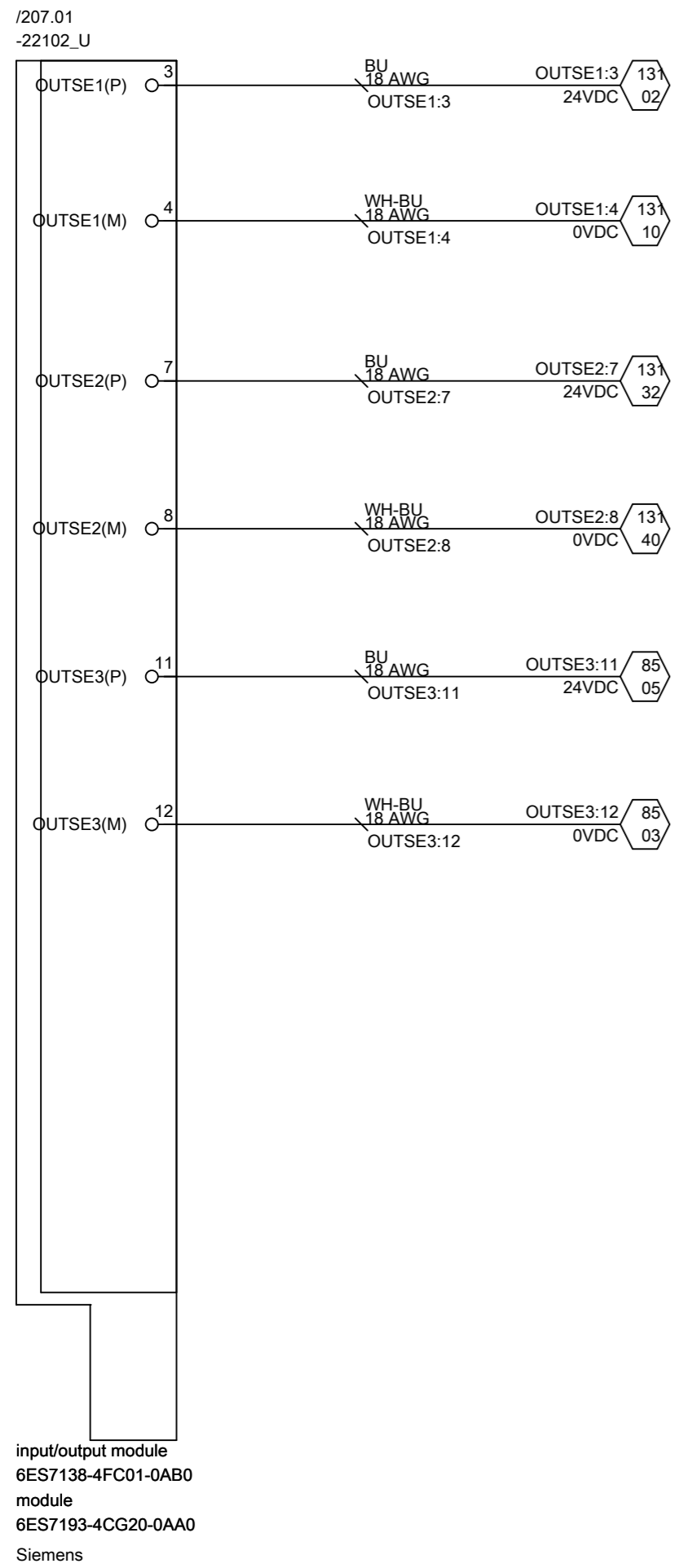
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Reserve
page 225-230

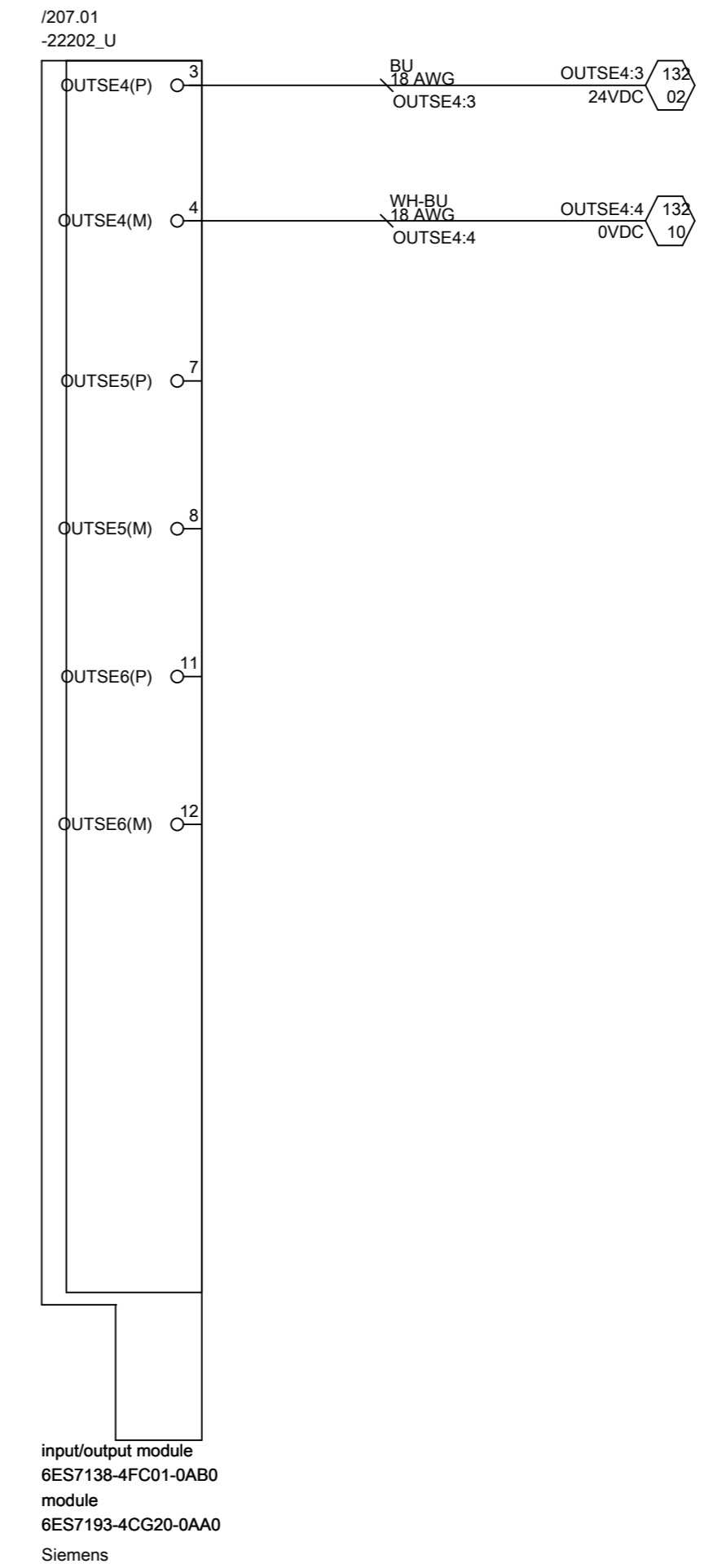
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	04.09.2015	AHP3/GMI			
Reserve page 225-230				Inv.No.	
				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 226
=54784				225	Sheet 231

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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

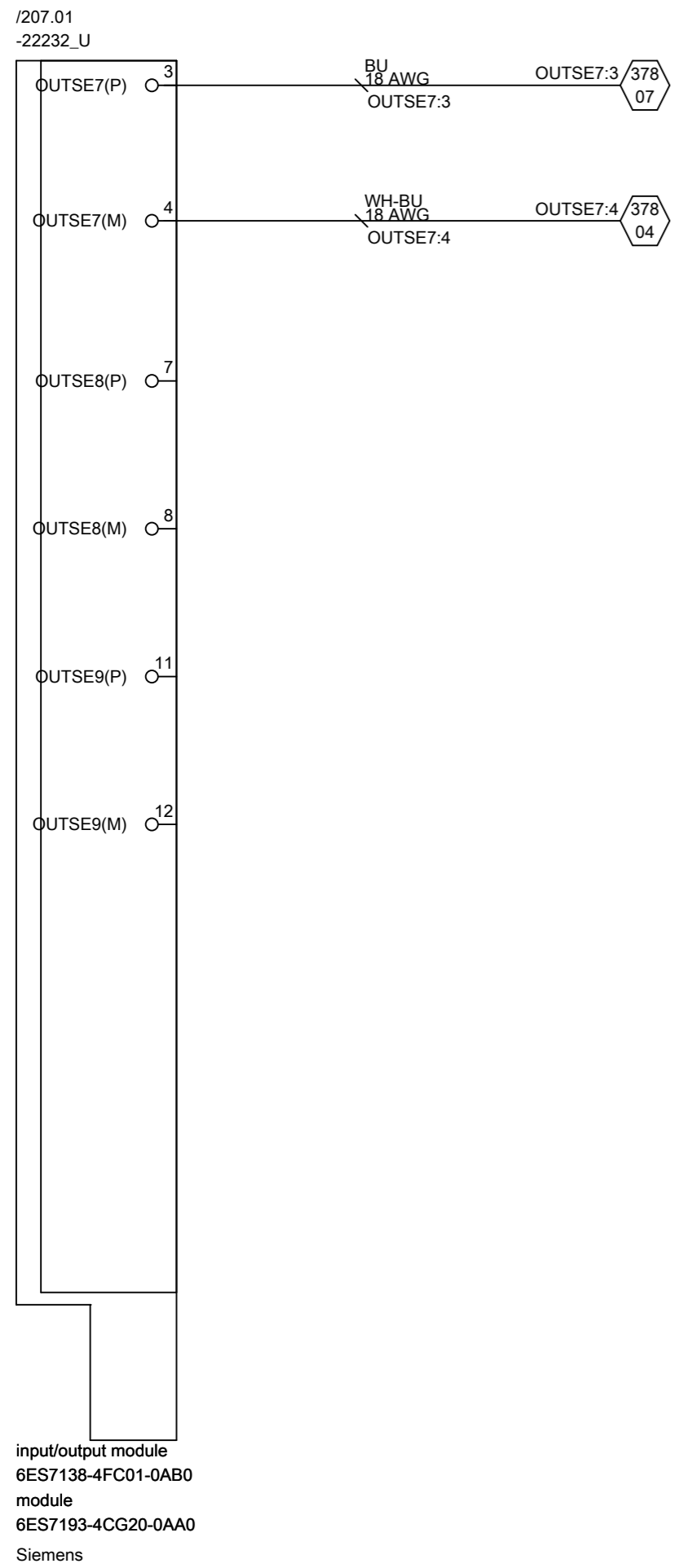
231 30
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work condition pallet changer
work condition pallet changer
reserved
work condition workpiece setting station
reserved
work condition workpiece setting station
reserved
work condition workpiece loading station safety door
reserved
work condition workpiece loading station safety door

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
OUTSE1 - OUTSE3 OUTSE4 - OUTSE6				Inv.No.		
ePLAN P8 2.2.5				=54784	Number of sheets 275	Sheet 231
				226	Sheet	232

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work condition tool setting station

work condition tool setting station

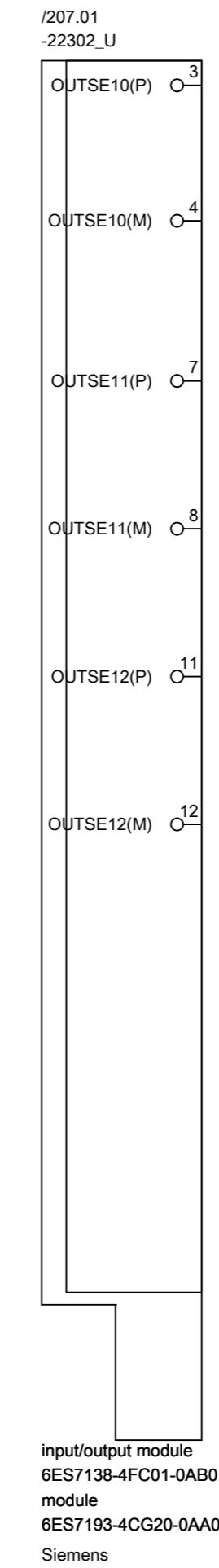
reserved work condition rack-type tool magazine

reserved work condition rack-type tool magazine

reserved work condition hydraulic workpiece clamping

reserved work condition hydraulic workpiece clamping

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spare

spare

spare

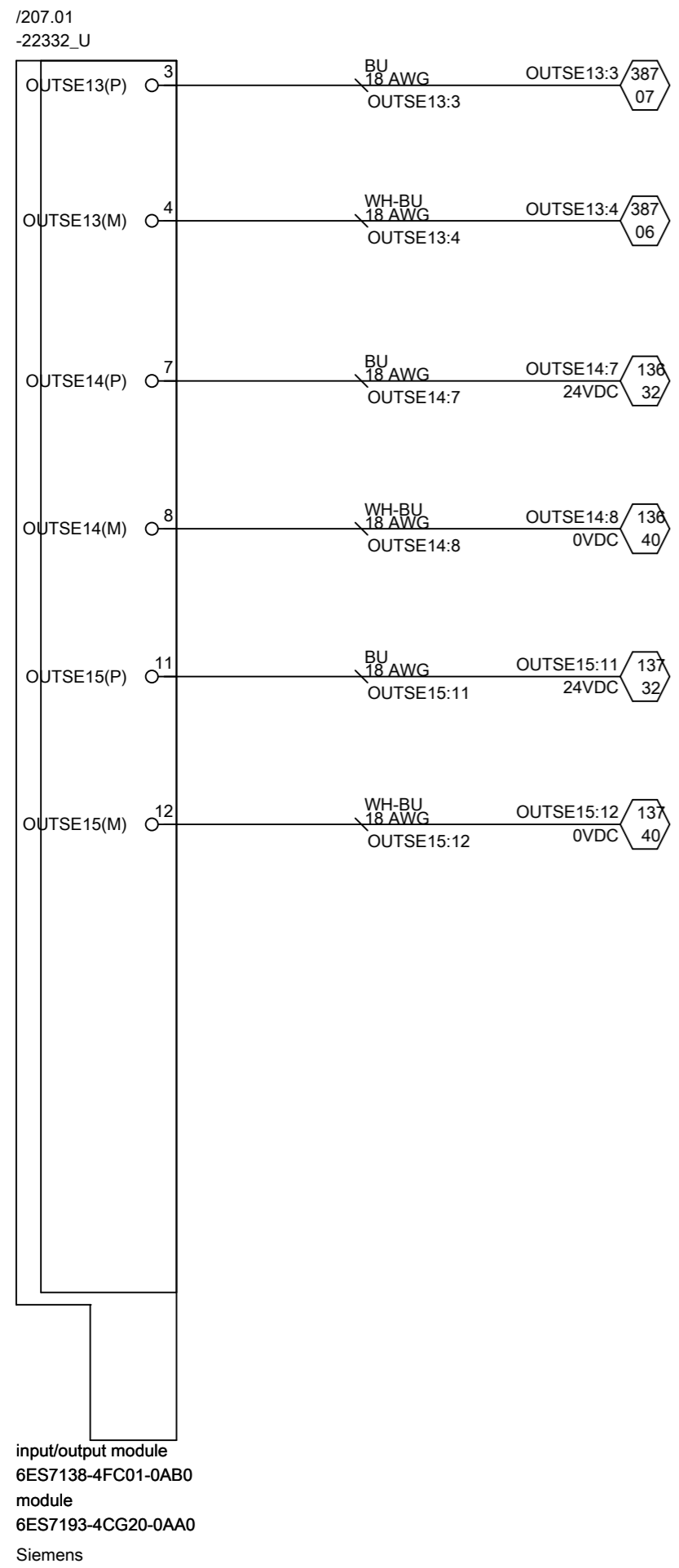
spare

spare

spare

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
OUTSE7 - OUTSE9 OUTSE10 - OUTSE12				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 232	
=54784				231 Sheet 233	

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work condition safety
door loading (top
loader)

work condition safety
door loading (top
loader)

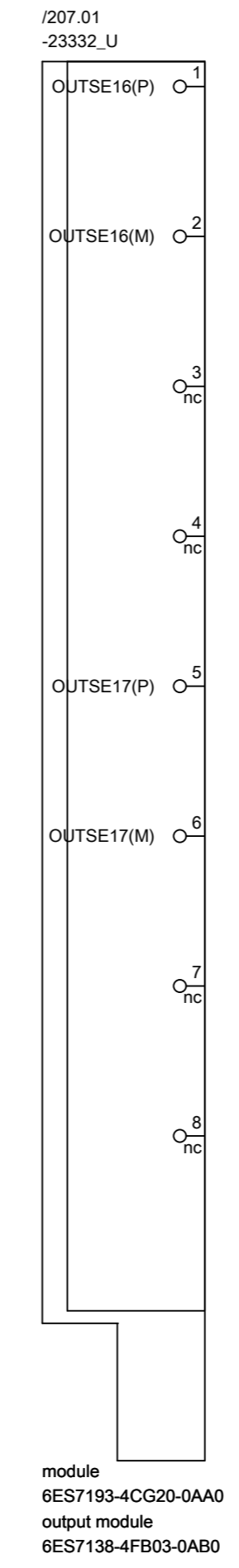
work condition from
machine to
loading system

work condition from
machine to
loading system

work condition safety
door selection 1
from n

work condition safety
door selection 1
from n

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reserved
work condition unclamp pallet
in work area

reserved
work condition unclamp pallet
in work area

spare

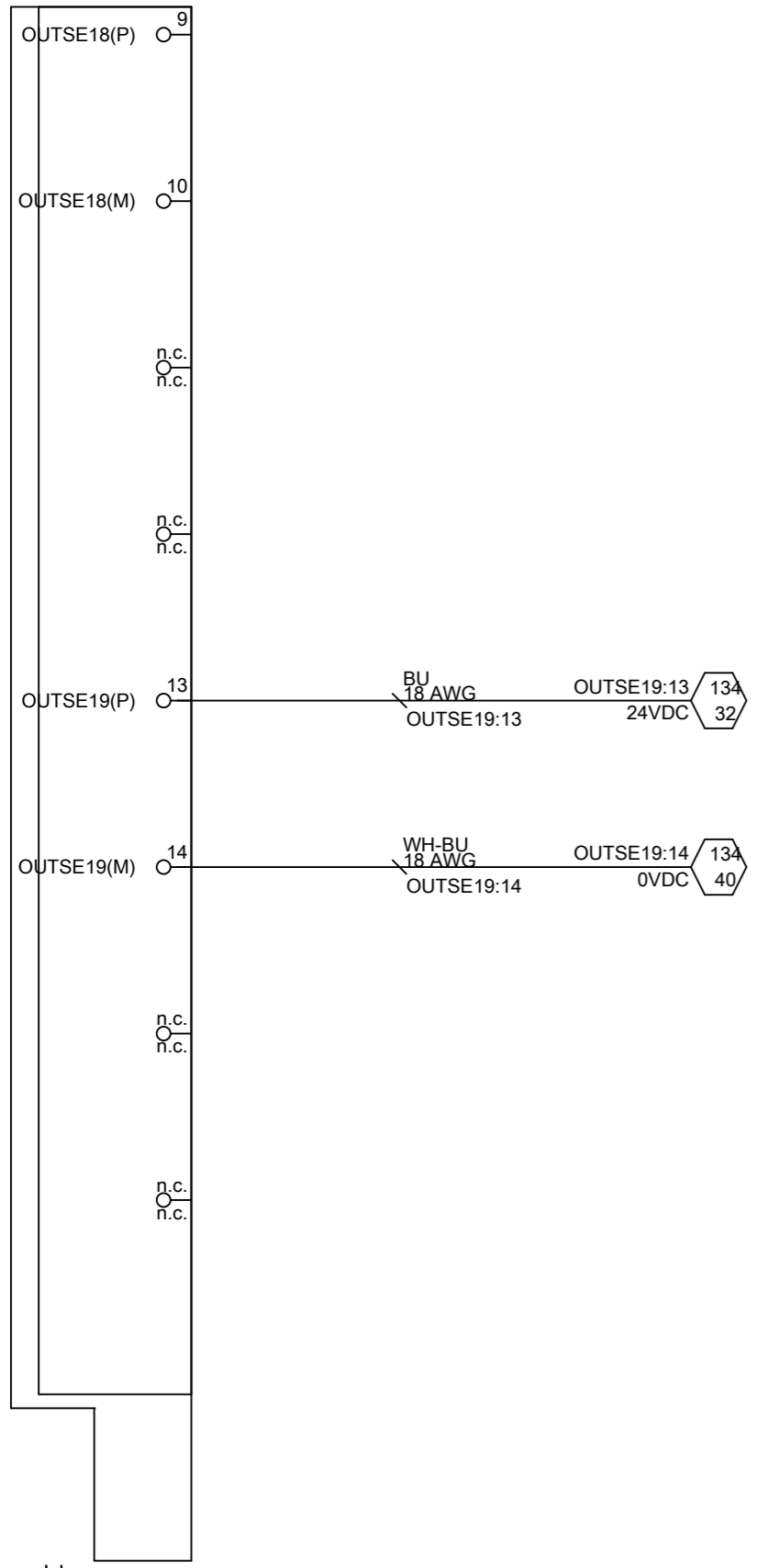
spare

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 233	
=54784				232 Sheet 234	

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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

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

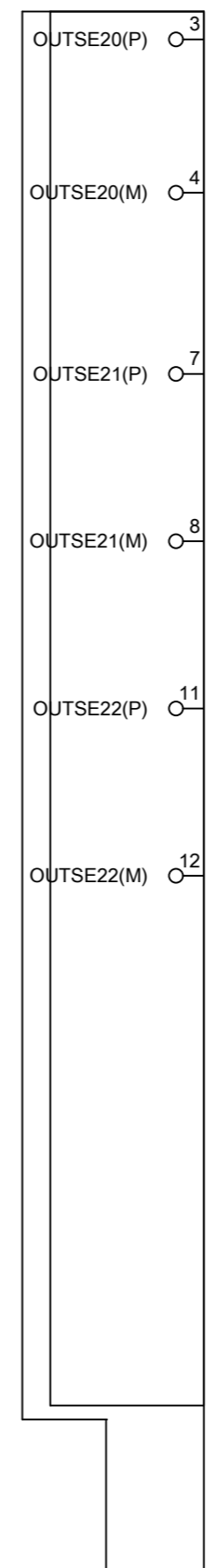
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
OUTSE18 - OUTSE19				Inv.No.		
ePLAN P8 2.2.5				=54784		
Number of sheets				275	Sheet	234
◀ 233				Sheet	235 ▶	

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Reserve
OUTSE23 - OUTSE25

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

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK			H 10000 MC			
CHANGE	15.11.2016	AHP3/RIG				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
OUTSE20 - OUTSE22						Number of sheets
ePLAN P8 2.2.5				=54784	275	Sheet 235
				234	Sheet	236

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Reserve
page 236-240

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	12.08.2015	AHP3/RIG		Inv.No.	
Reserve page 236-240				Number of sheets	
ePLAN P8 2.2.5 =54784				275	Sheet 236
				235	Sheet 241

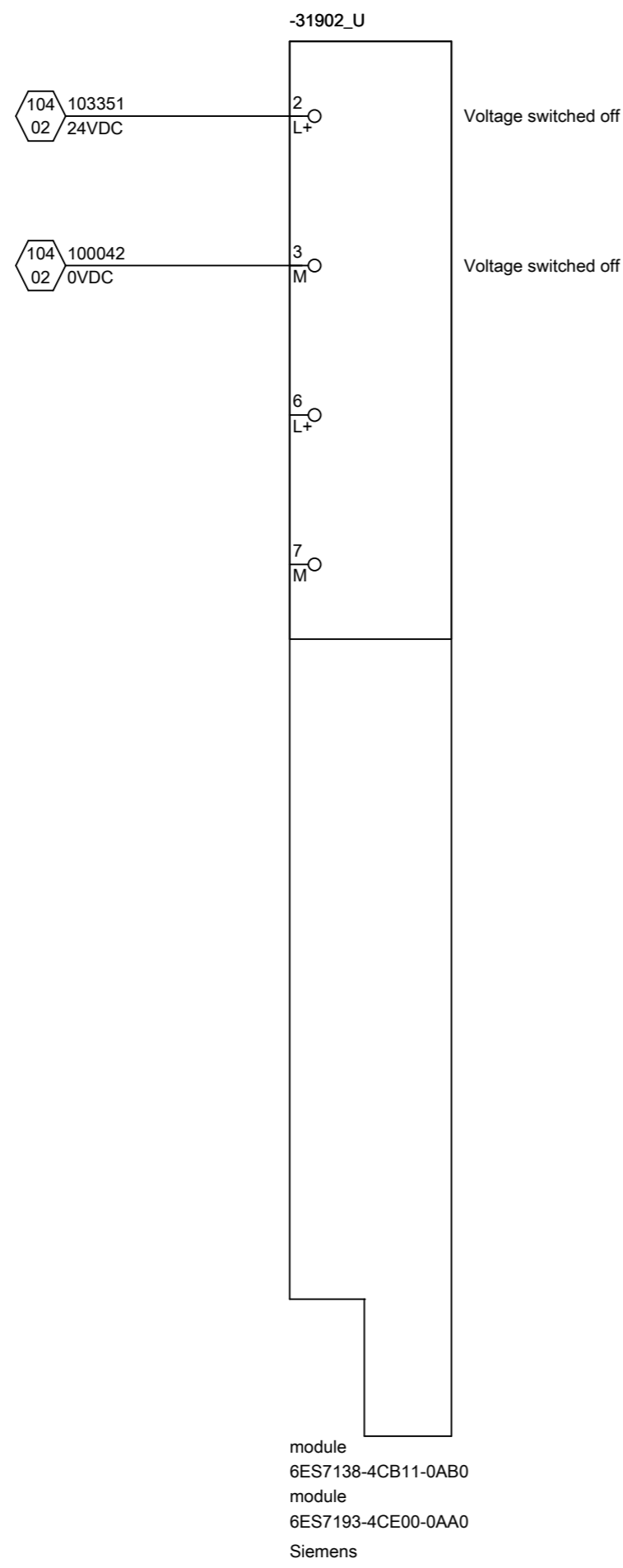
Reserve
page 241-318

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 241-318				Number of sheets	
ePLAN P8 2.2.5 =54794				275	Sheet 241
				236	Sheet 319

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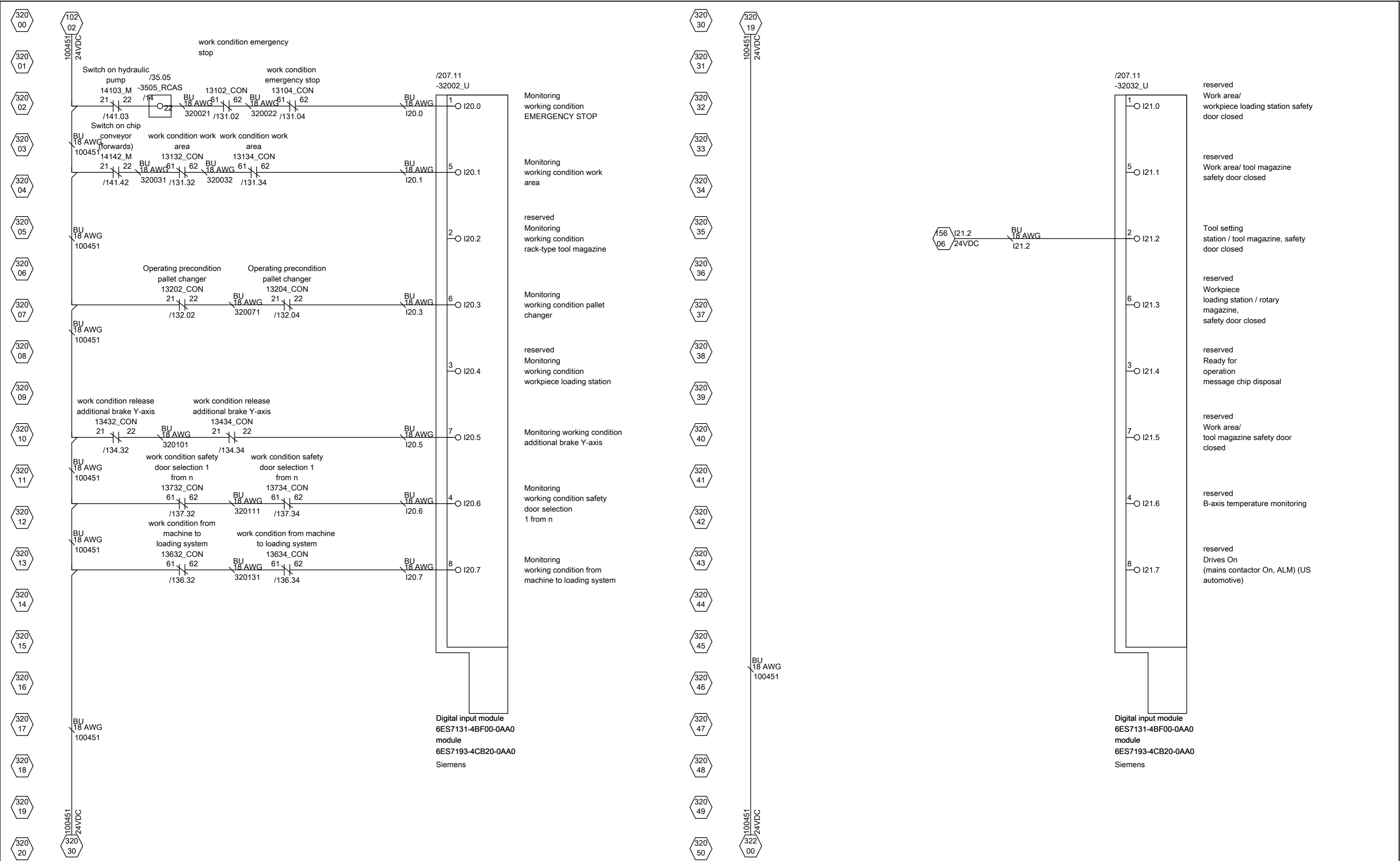
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK			H 10000 MC			
CHANGE	18.03.2016	AHP3/RIG				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Power module 24V DC						Number of sheets
ePLAN P8 2.2.5				=54794	275	Sheet 319
				241	Sheet	320



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 275 Sheet 320	
=54784				319 Sheet 321	

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Reserve
I22.0 - I22.7

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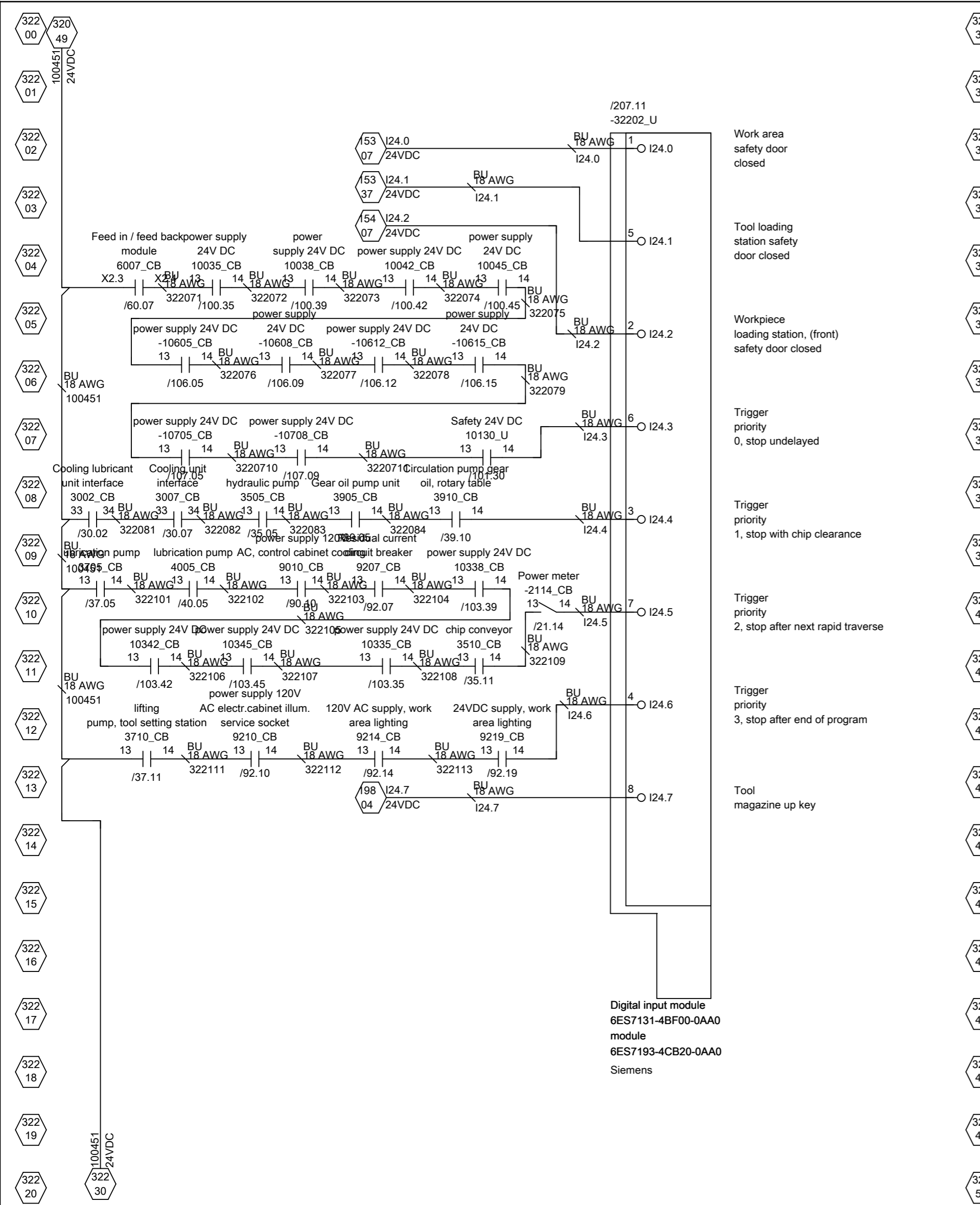
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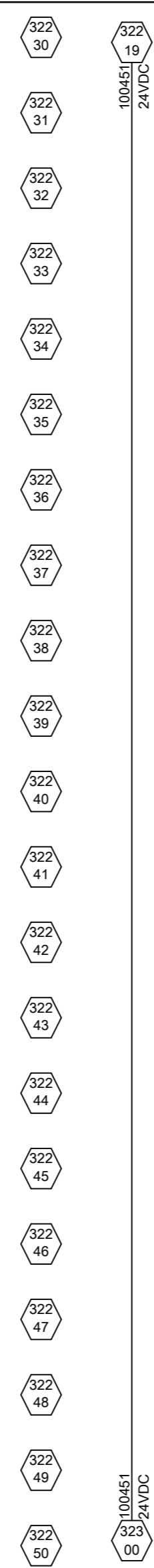
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Reserve
I23.0 - I23.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	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				=54794	320	Sheet	321

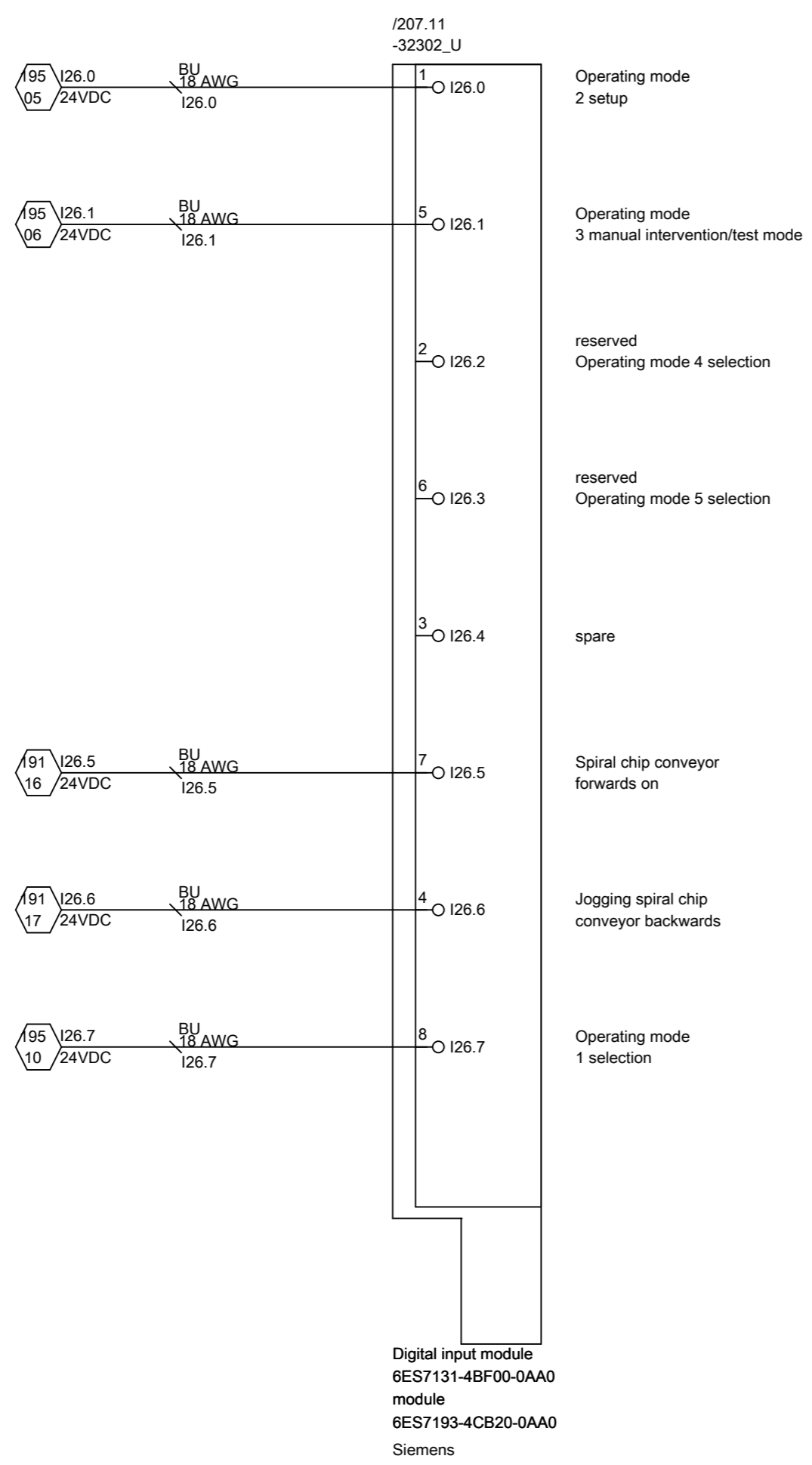
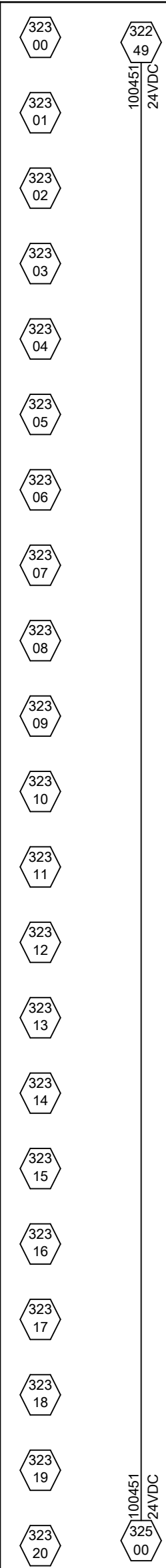


Digital input module
6ES7131-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

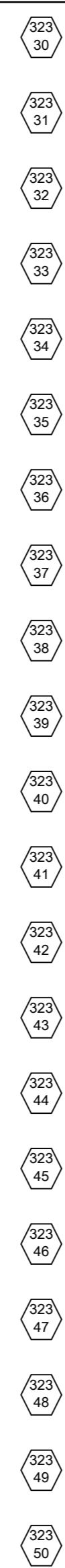


Digital input module
6ES7131-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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				Number of sheets 275 Sheet 322	
=54784				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_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	15.11.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
I26.0 - I26.7 I27.0 - I27.7				Number of sheets 275 Sheet 323	
ePLAN P8 2.2.5		=54784	322		Sheet 324

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Reserve
I28.0 - I28.7

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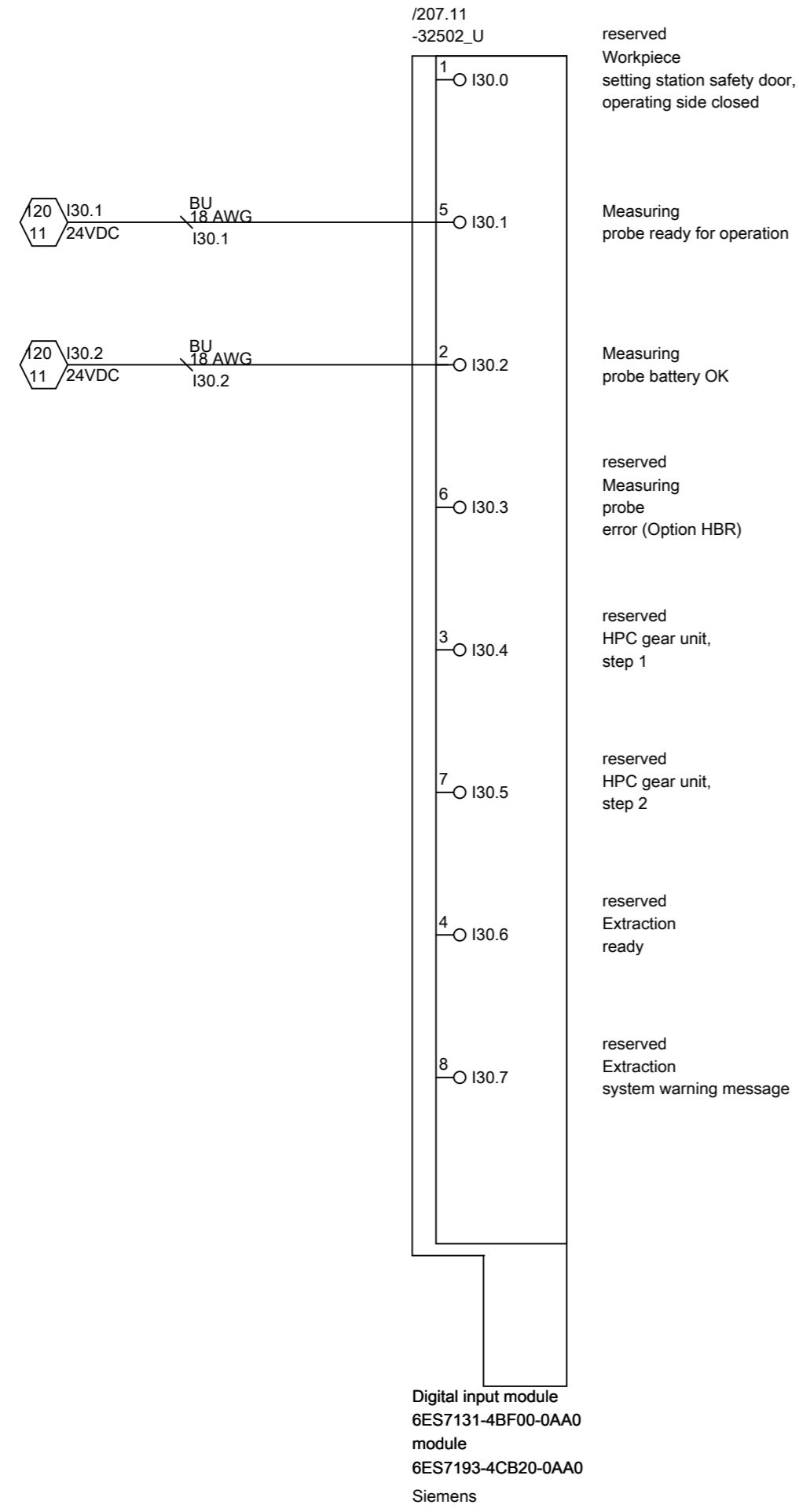
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Reserve
I29.0 - I29.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	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				=54794	323	Sheet	325

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Reserve
I31.0 - I31.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	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				=54784	Number of sheets 275	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_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	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 =54784				Number of sheets	275
				Sheet	326

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Reserve
I34.0 - I34.7

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Reserve
I35.0 - I35.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I34.0 - I34.7 I35.0 - I35.7				Number of sheets			
ePLAN P8 2.2.5 =54794				275	Sheet	327	
				326	Sheet	328	

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Reserve
I36.0 - I36.7

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Reserve
I37.0 - I37.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
I36.0 - I36.7 I37.0 - I37.7				Number of sheets			
ePLAN P8 2.2.5				=54784	327	Sheet	275
					Sheet	328	329

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Reserve
I38.0 - I38.7

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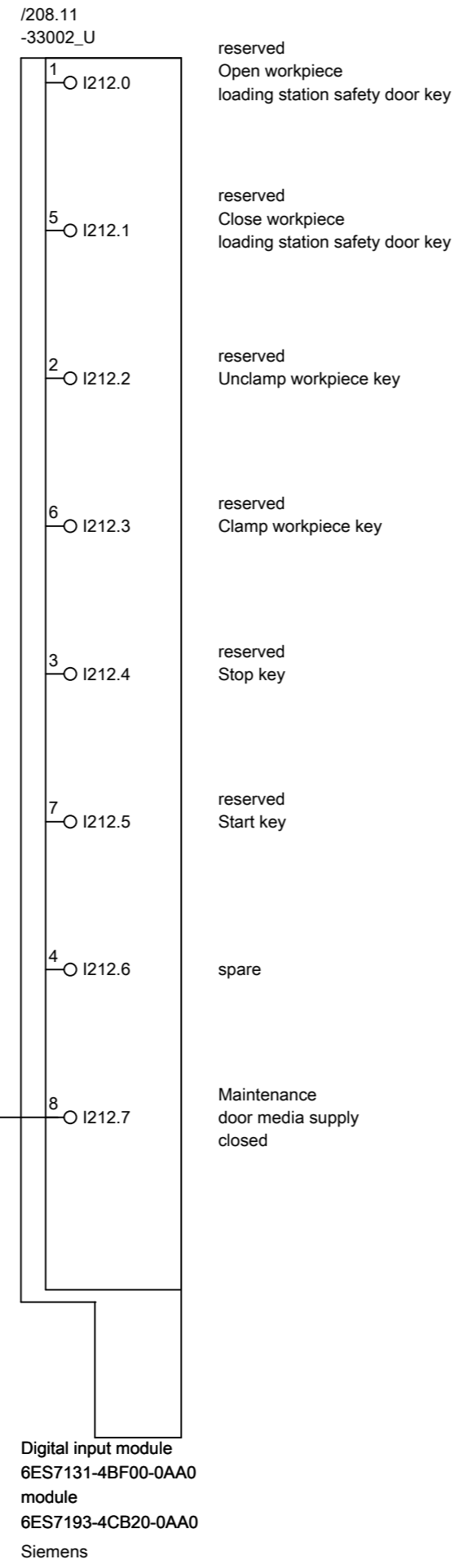
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Reserve
I39.0 - I39.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	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				=54794	328	Sheet	330

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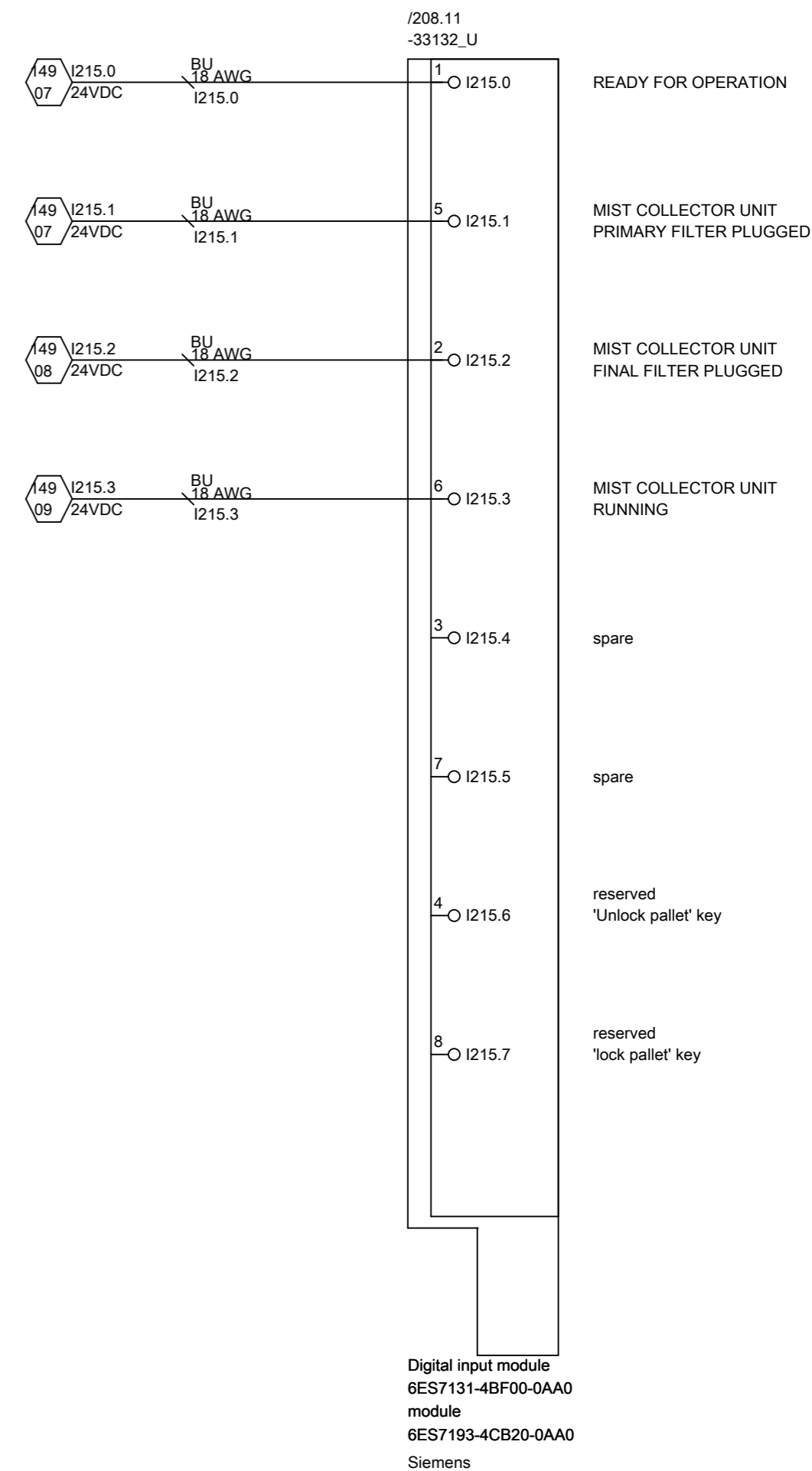
Reserve
I213.0 - I213.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	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 =54784				Number of sheets 275 Sheet 330	
				◀ 329 Sheet 331 ▶	

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Reserve
I214.0 - I214.7



Project description P-009084				Project JIC_EP05479400		
				Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	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				=54784		Number of sheets 275
				Sheet 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_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	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				=54784	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_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I218.0 - I218.7 I219.0 - I219.7				Number of sheets 275 Sheet 333			
ePLAN P8 2.2.5 =54784				◀ 332 Sheet 334 ▶			

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Reserve
I220.0 - I220.7

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Reserve
I221.0 - I221.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve I220.0 - I220.7 I221.0 - I221.7				Number of sheets 275 Sheet 334			
ePLAN P8 2.2.5 =54784				◀ 333 Sheet 335 ▶			

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Reserve
page 335-336

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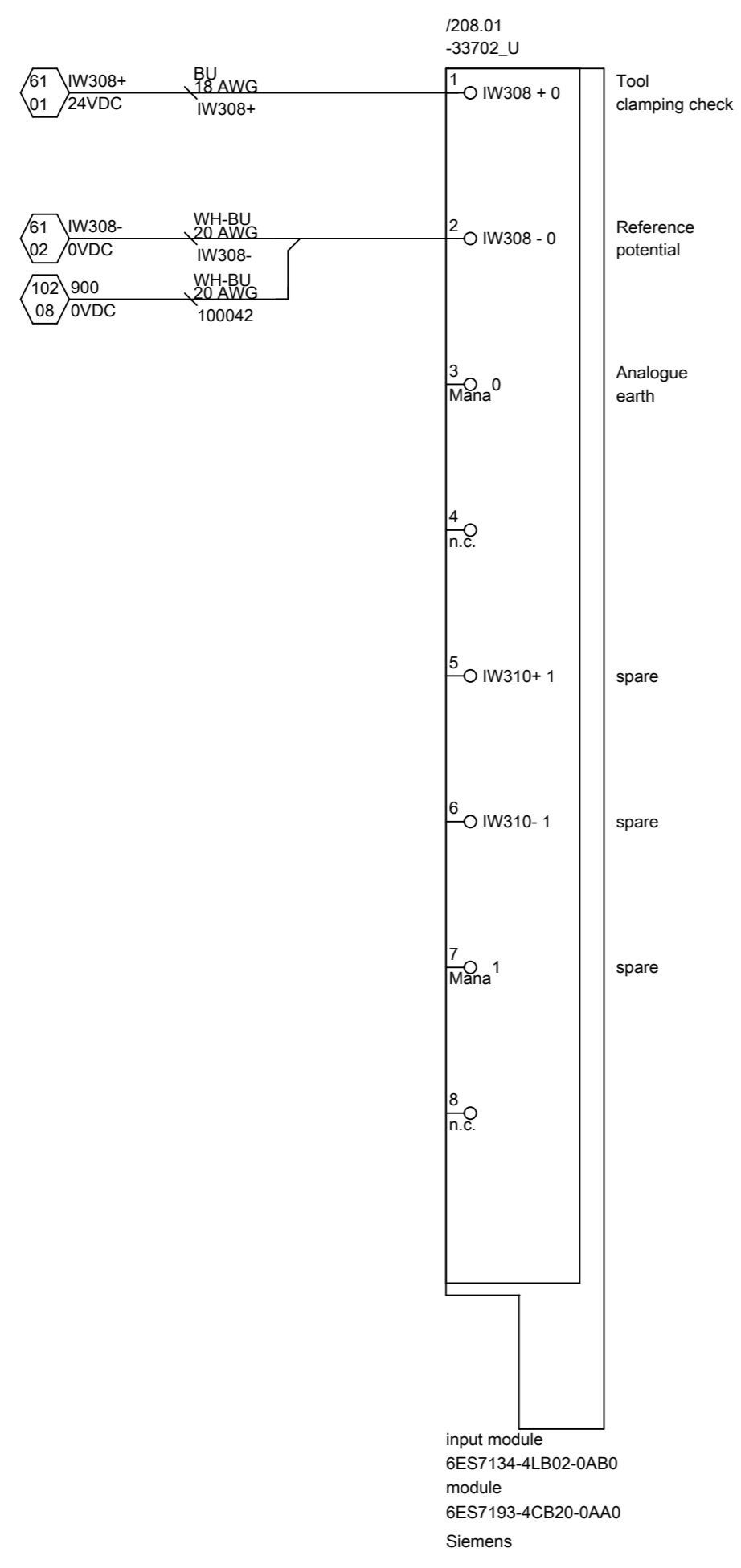
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Reserve
page 335-336

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 335-336				Number of sheets 275 Sheet 335	
ePLAN P8 2.2.5		=54794		334	Sheet 337

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	15.11.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
IW308 - IW310 IW312 - IW314				Number of sheets 275 Sheet 337	
ePLAN P8 2.2.5		=54784	335		Sheet 338

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Reserve
IW372 - IW374

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Reserve
IW376 - IW378

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve IW372 - IW374 IW376 - IW378				Number of sheets 275 Sheet 338	
ePLAN P8 2.2.5		=54784		◀ 337 Sheet 339 ▶	

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Reserve
IW379 - IW381

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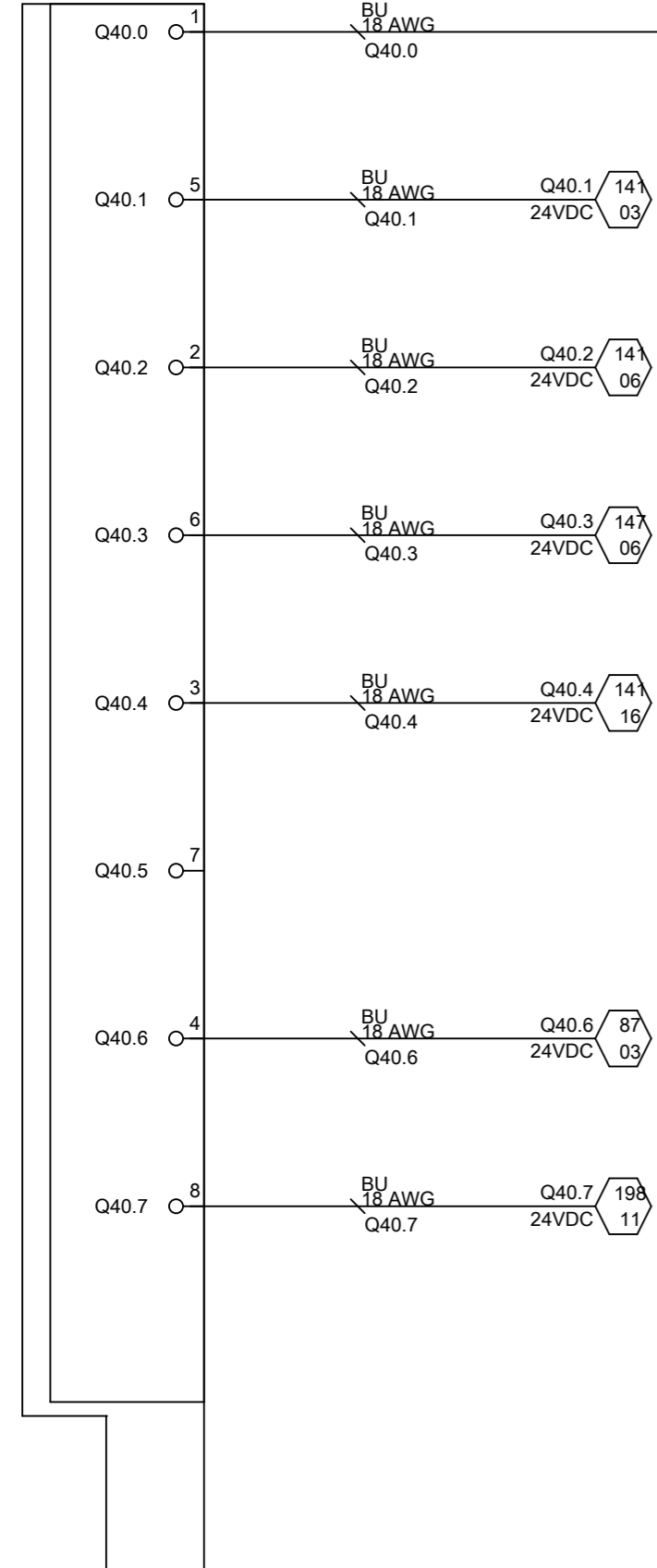
339
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Reserve
IW382 - IW384

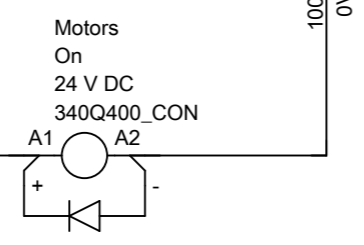
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve IW379 - IW381 IW382 - IW384				Number of sheets 275 Sheet 339	
ePLAN P8 2.2.5		=54794		338	Sheet 340

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/208.01
-34002_U



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



NC
NO /142.09 /123.32 /141.36 /147.05

Motors
On

Switch on hydraulic
pump

Switch on lubrication pump,
machine, guideways

Switch on chip
conveyor
(forwards)

Switch on lifting pump,
tool magazine

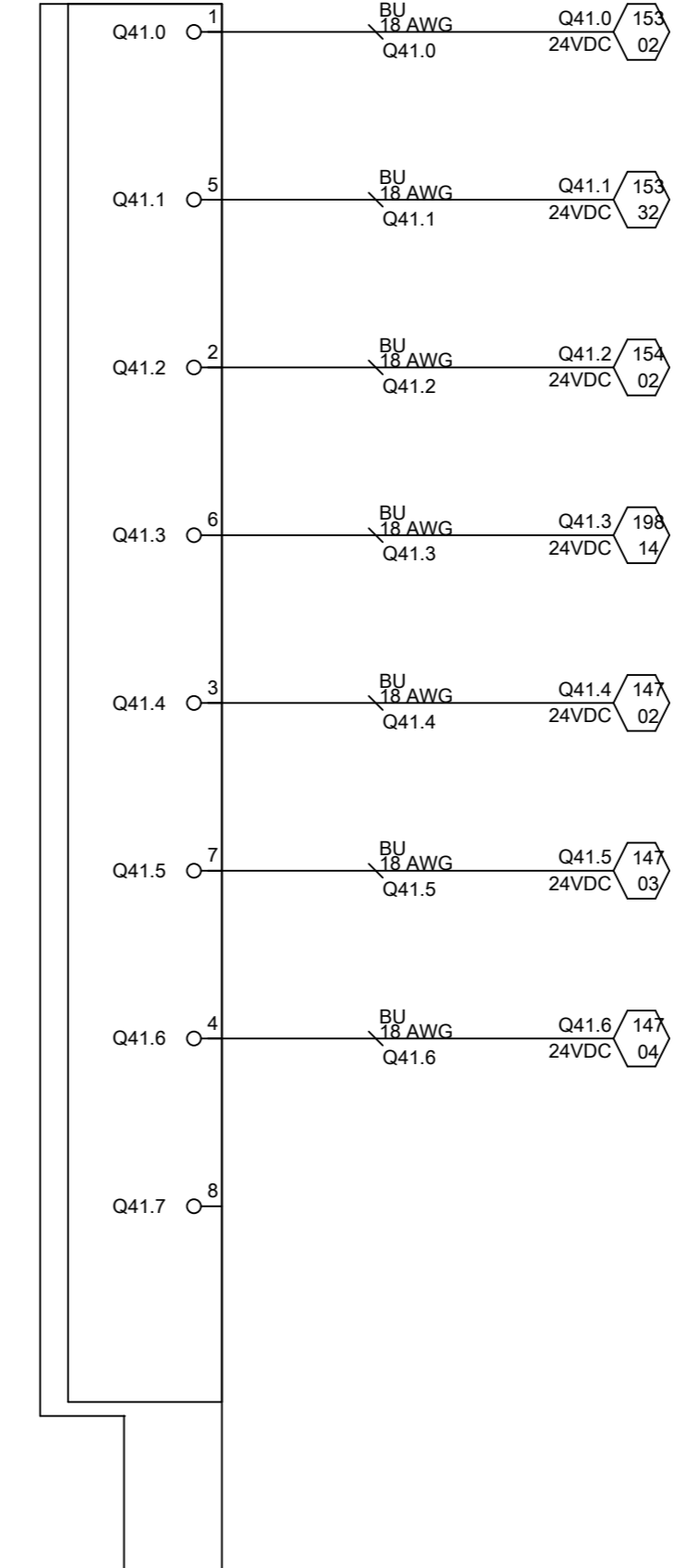
reserved
Pallet volume
sensor,
counter reset

NC
ready for operation

Lamp
acknowledge tool, tool
magazine

340 30
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/208.01
-34032_U



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

Unlock work
area safety
door

Unlock tool
loading station
safety door

Unlock
workpiece loading station (front)
safety door

Lamp
tool setting station safety
door locked/unlocked

Switch on high pressure
pump of cooling
lubricant unit

Switch on high pressure,
cooling lubricant unit,
magnetic valve

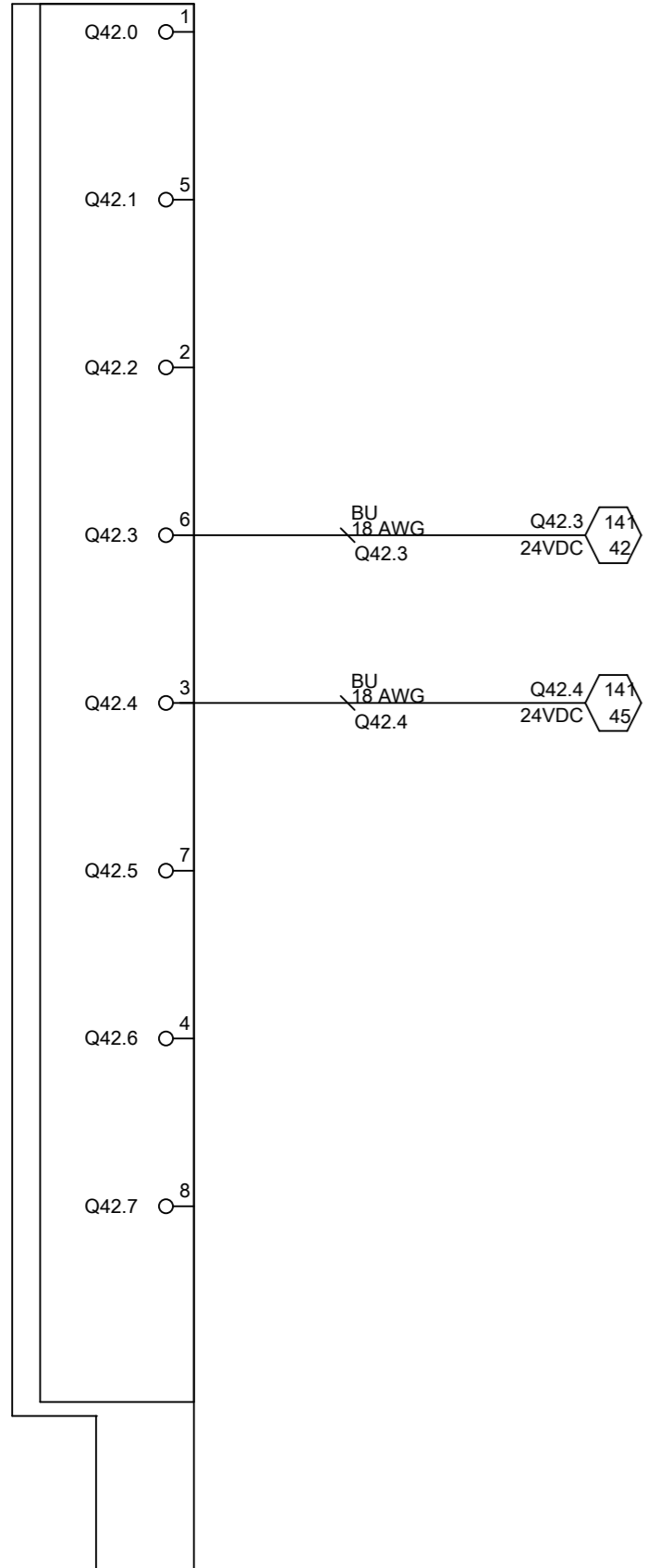
Cooling lubricant unit,
BCD converter, switch on
control voltage

reserved
Collision monitoring,
enable
(Brankamp)

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	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				=54784	Number of sheets 275	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

Reserve

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Reserve Q43.0 - Q43.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK			H 10000 MC				
CHANGE	15.11.2016	AHP3/RIG					
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Q42.0 - Q42.7 Reserve Q43.0 - Q43.7							
ePLAN P8 2.2.5		=54794		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_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q44.0 - Q44.7 Q45.0 - Q45.7				Number of sheets 275 Sheet 342			
ePLAN P8 2.2.5		=54784		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_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q46.0 - Q46.7 Q47.0 - Q47.7				Number of sheets 275 Sheet 343			
ePLAN P8 2.2.5 =54784				◀ 342 Sheet 344 ▶			

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Reserve
Q48.0 - Q48.7

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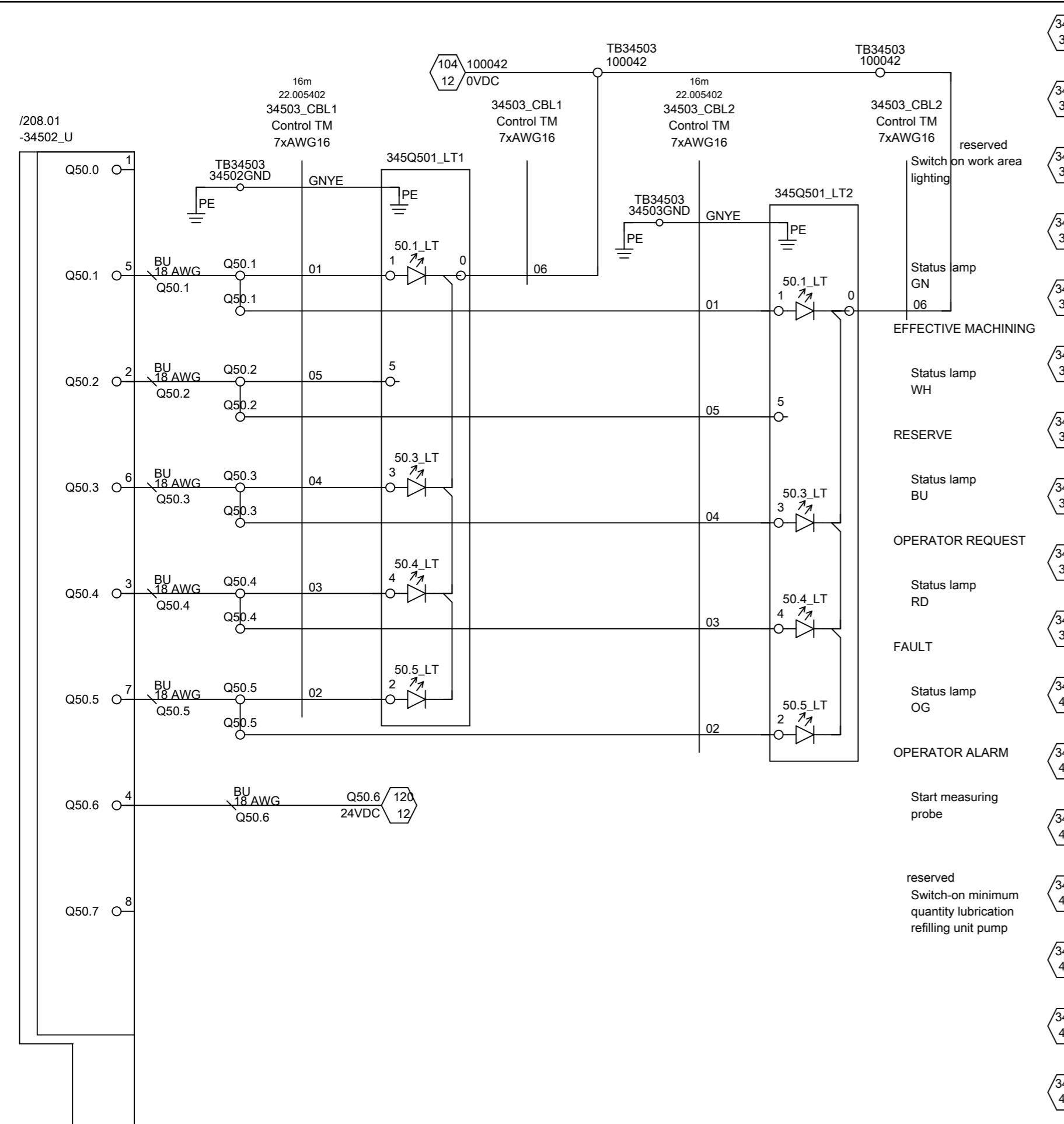
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Reserve
Q49.0 - Q49.7

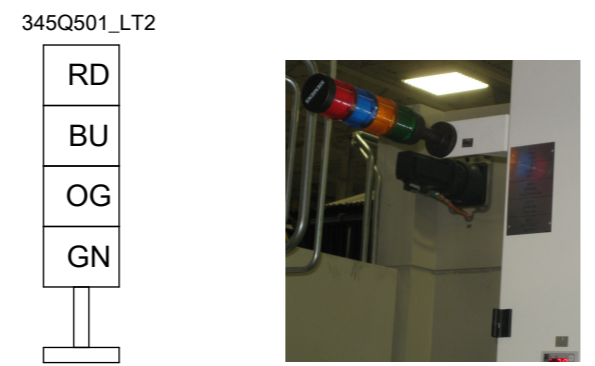
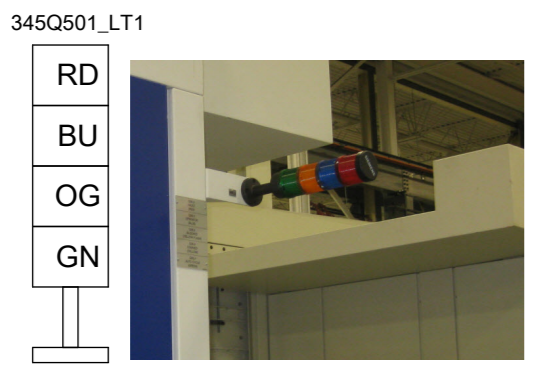
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q48.0 - Q48.7 Q49.0 - Q49.7				Number of sheets			
ePLAN P8 2.2.5				=54794	275	Sheet	344
				343	Sheet	345	

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Reserve Q51.0 - Q51.7

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

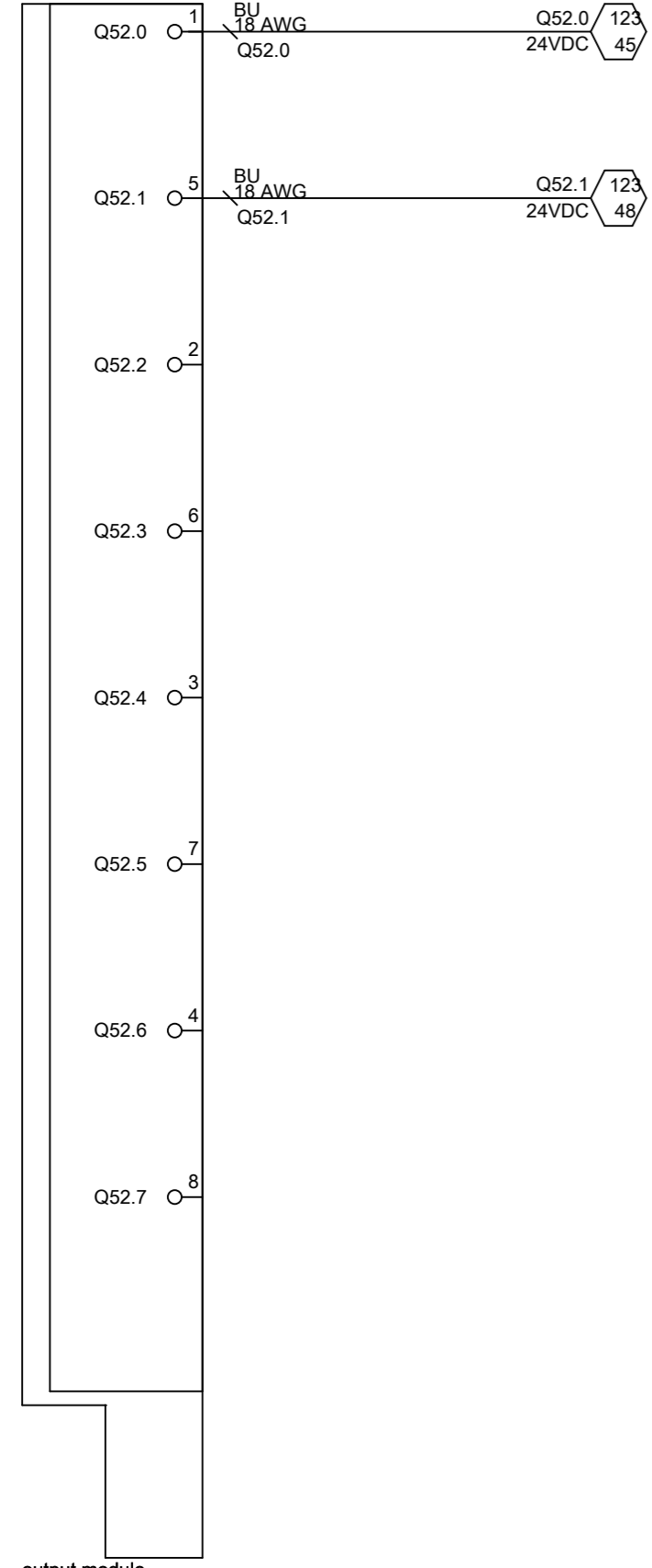


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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Q50.0 - Q50.7 Q51.0 - Q51.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 345	
=54784				344 Sheet 346	

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/208.01
-34602_U



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

Activate effective machining time

Activate quantity counter

reserved
Workpiece loading station safety door closed

reserved
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_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	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				=54794	Number of sheets 275	Sheet 346
				345	Sheet	347

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Reserve
Q54.0 - Q54.7

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Reserve
Q55.0 - Q55.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	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				=54794	275	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_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q56.0 - Q56.7 Q57.0 - Q57.7				Number of sheets 275 Sheet 348	
ePLAN P8 2.2.5		=54784		◀ 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_EP05479400 Machine serial number M54802			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK							
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
Reserve Q58.0 - Q58.7 Q59.0 - Q59.7				Number of sheets			
ePLAN P8 2.2.5				=54794	348	Sheet	350

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Reserve
Q212.0 - Q212.7

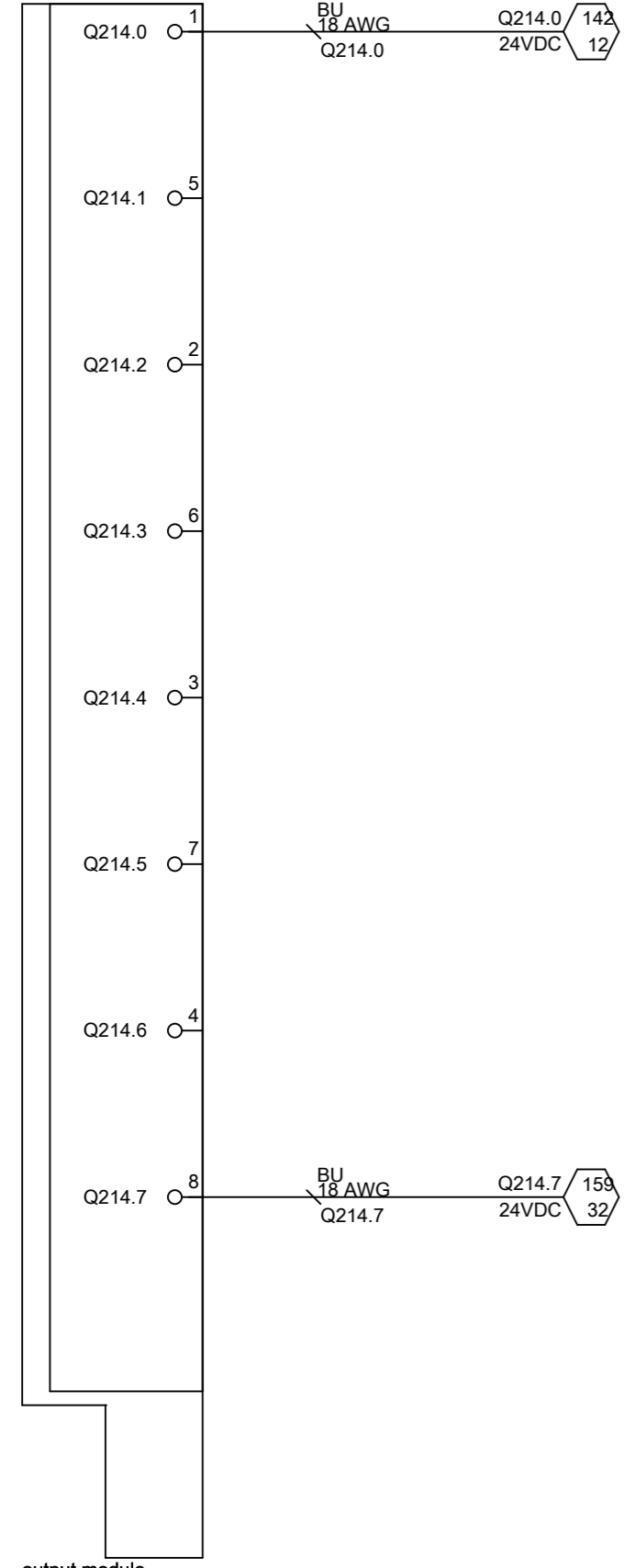
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Reserve
Q213.0 - Q213.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q212.0 - Q212.7 Q213.0 - Q213.7				Number of sheets 275 Sheet 350	
ePLAN P8 2.2.5		=54794		349	Sheet 351

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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

reserved
'Pallet unlocked' lamp at pallet
changer (PAW)

reserved
'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_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Reserve Q214.0 - Q214.7 Q215.0 - Q215.7				Inv.No.		
ePLAN P8 2.2.5				=54794	Number of sheets 275	Sheet 351
◀ 350				Sheet	352	

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Reserve
Q216.0 - Q216.7

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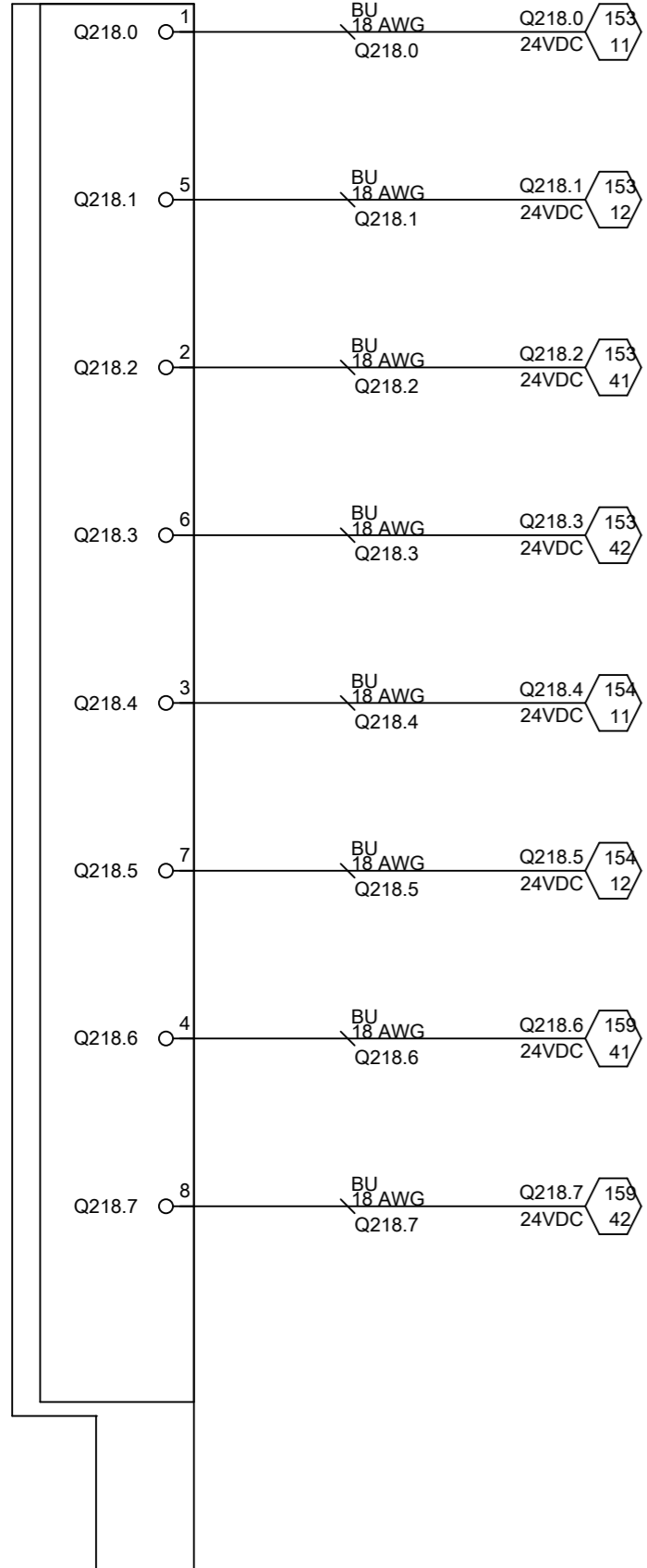
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Reserve
Q217.0 - Q217.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q216.0 - Q216.7 Q217.0 - Q217.7				Inv.No.	
				Number of sheets 275 Sheet 352	
ePLAN P8 2.2.5		=54794		◀ 351 Sheet 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_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	10.08.2016	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				=54784	Number of sheets 275	Sheet 353
				352	Sheet	354

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Reserve
Q220.0 - Q220.7

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Reserve
Q221.0 - Q221.7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802					
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock					
CHECK									
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC						
DRAWN	26.05.2015	AHP3/GMI							
Reserve Q220.0 - Q220.7 Q221.0 - Q221.7				Inv.No.					
				Number of sheets		275	Sheet	354	
ePLAN P8 2.2.5				=54794		◀ 353		Sheet	355 ▶

Reserve
page 355-359

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 355-359				Number of sheets 275 Sheet 355	
ePLAN P8 2.2.5		=54794		354	Sheet +H1/360

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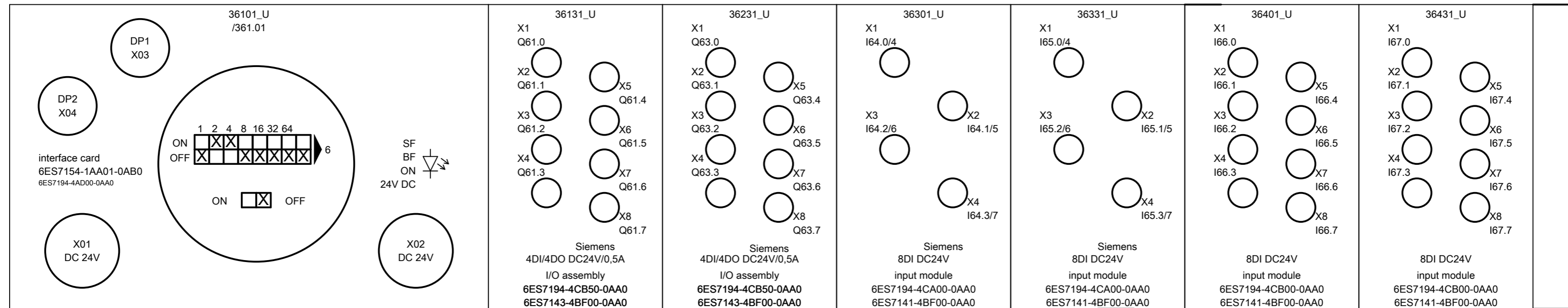
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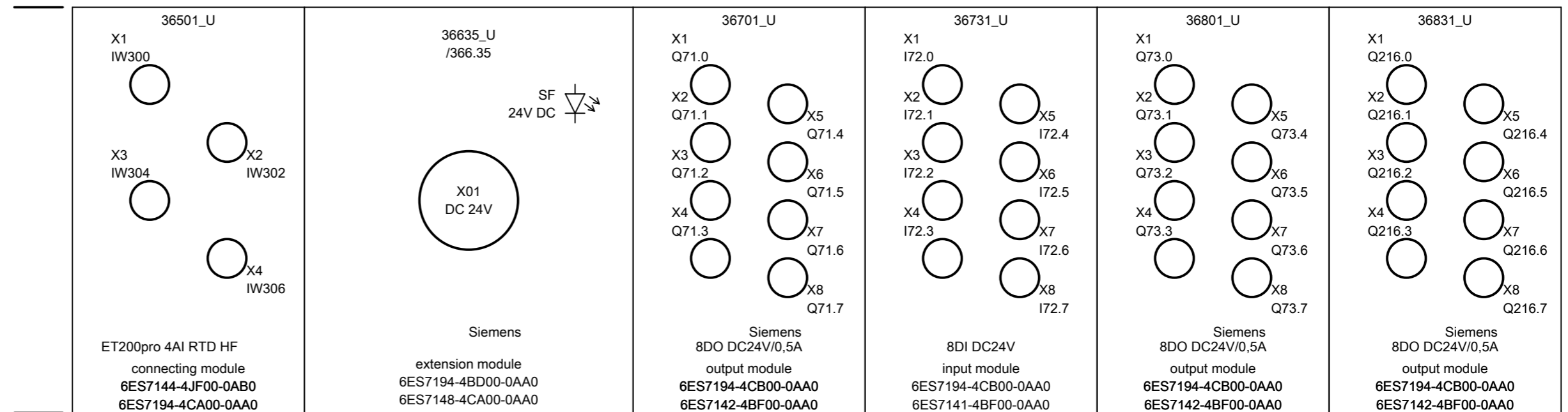
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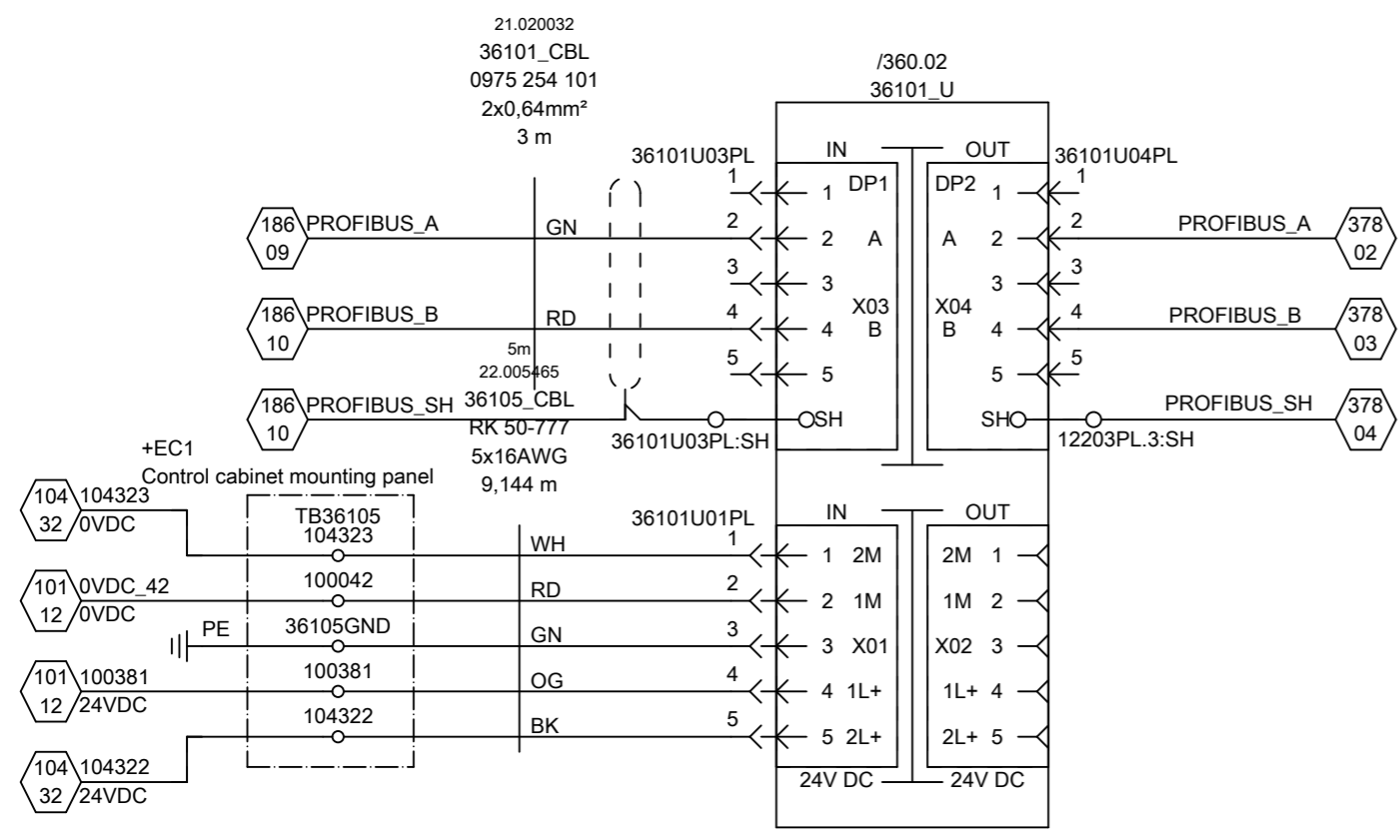
Operating precondition emergency Stop switch-off



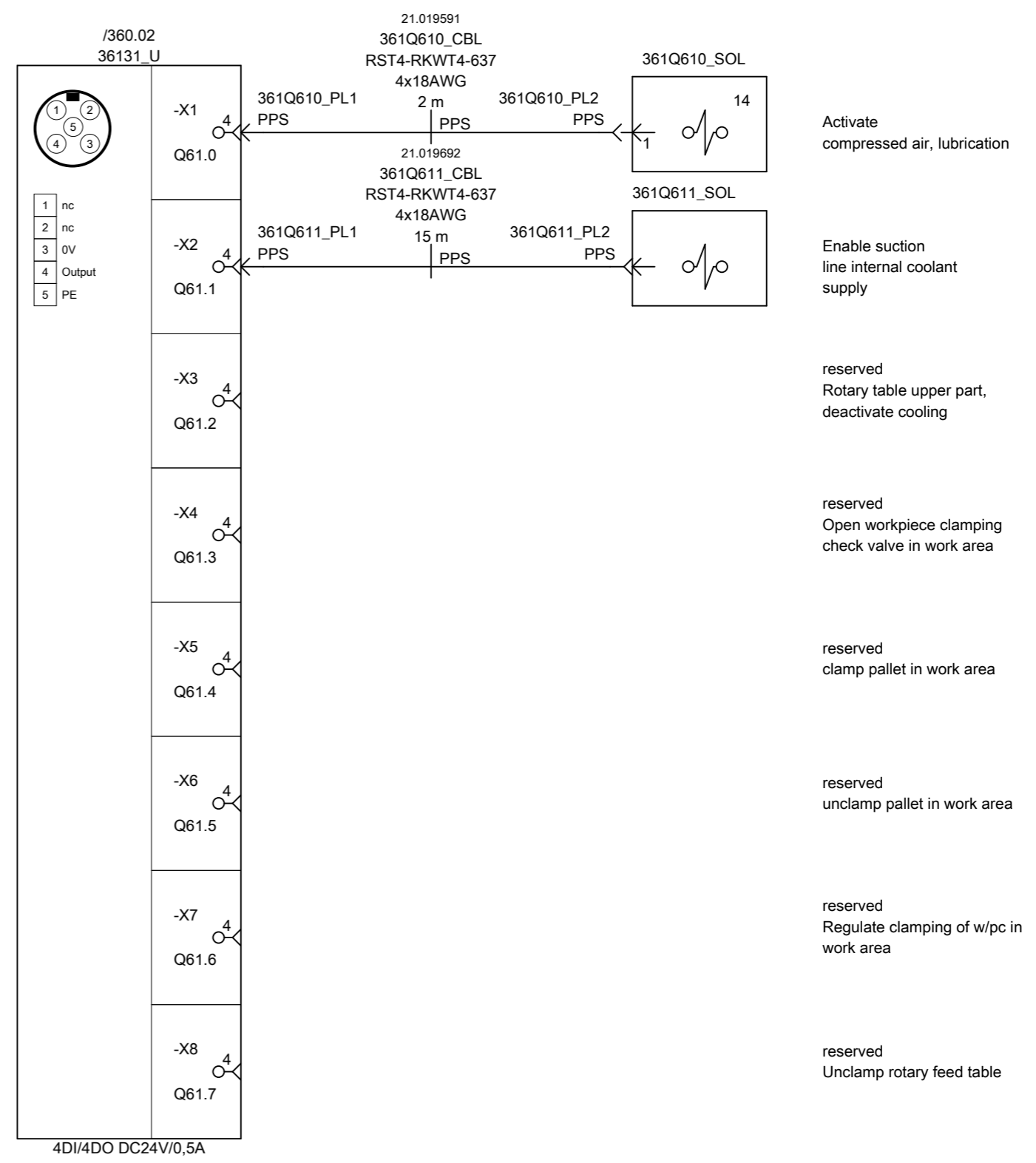
Operating precondition work area, switch-off

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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.	
				Number of sheets 275 Sheet 360	
ePLAN P8 2.2.5		=54794		+EC1/355 Sheet 361	

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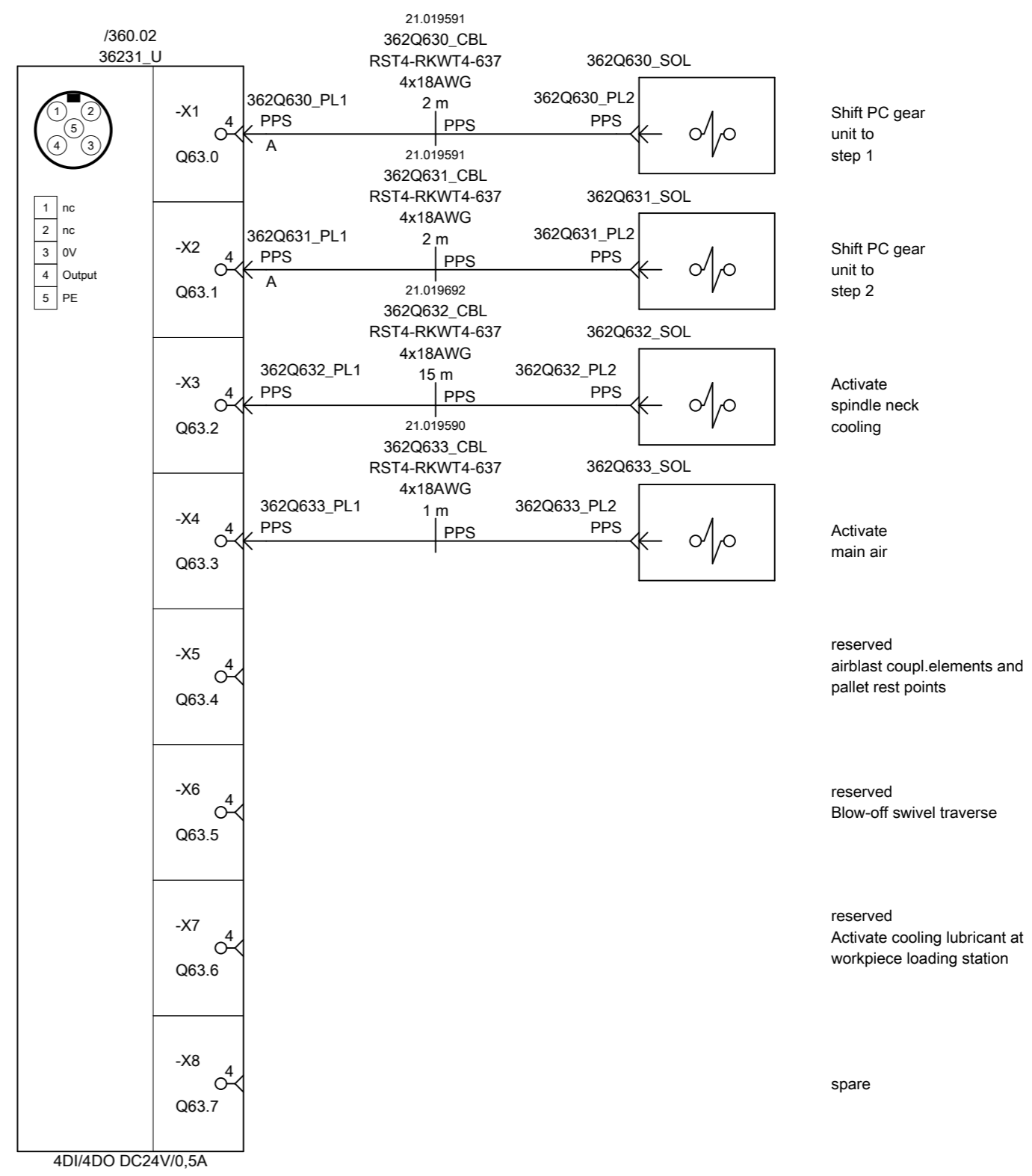
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Q61.0 - Q61.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 361	
=54784				360 Sheet 362	

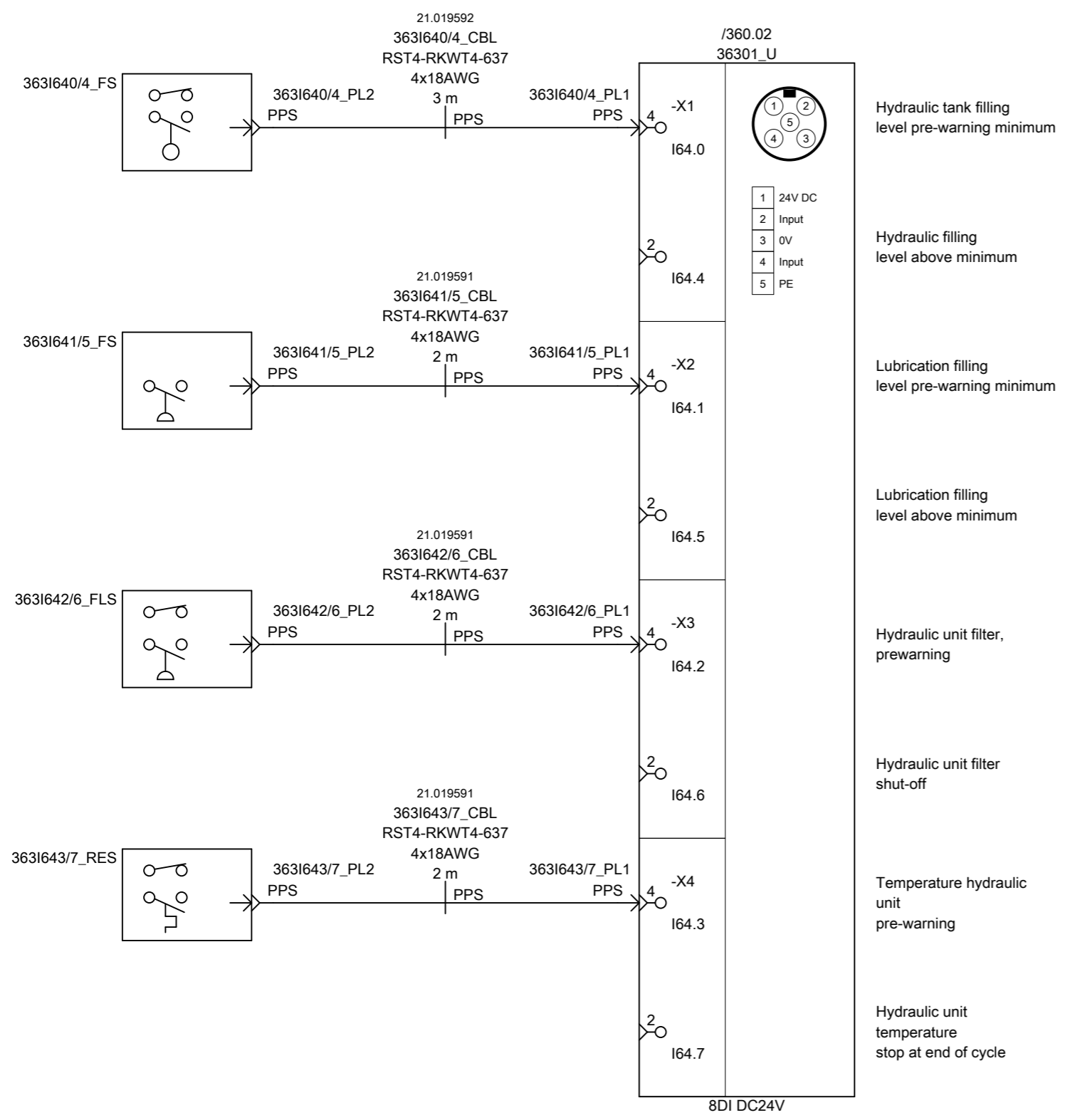
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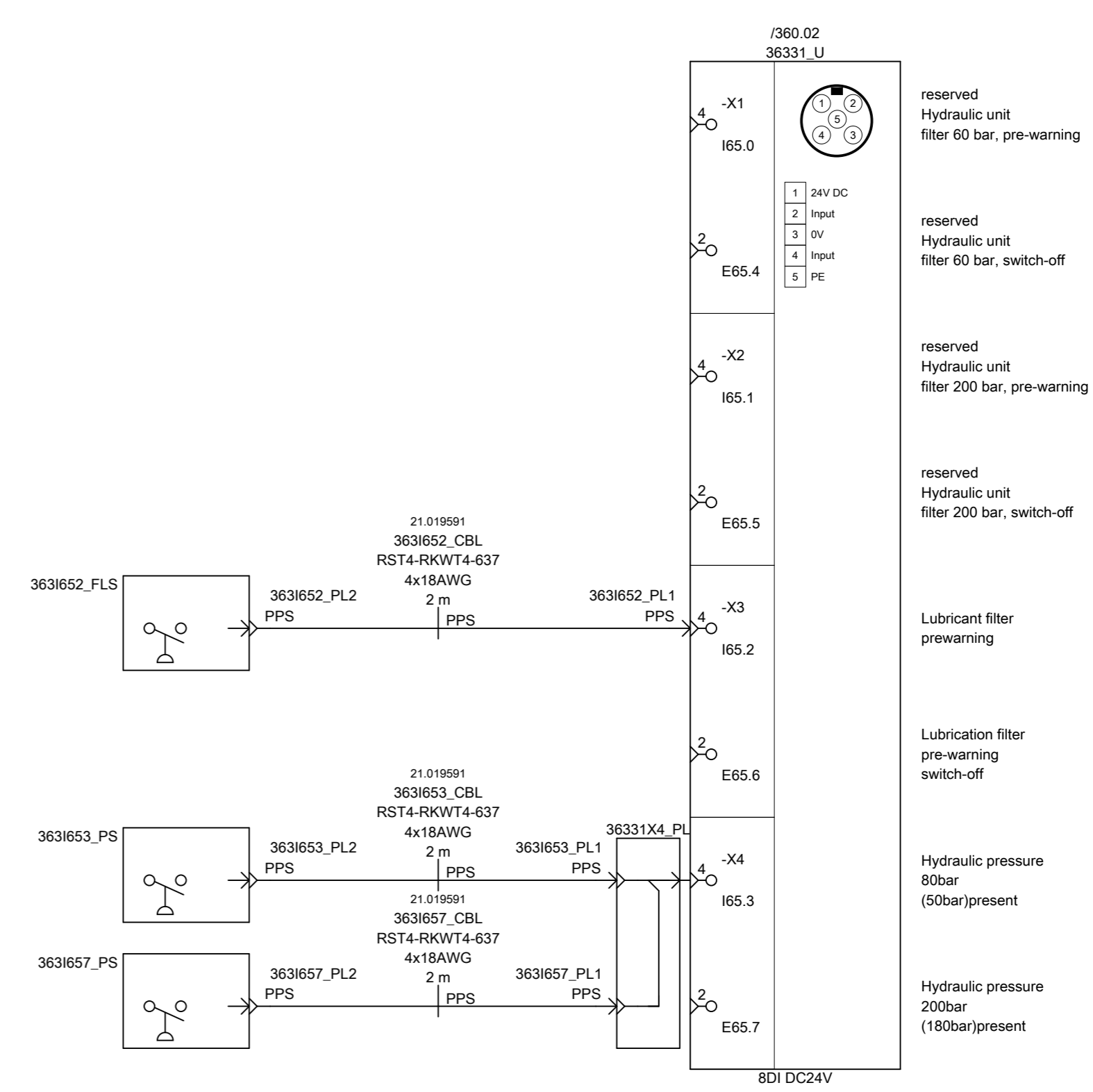


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Reserve I/Q62.x I/Q63.x				Inv.No.		
ePLAN P8 2.2.5				=54794	Number of sheets 275	Sheet 362
				361	Sheet	363

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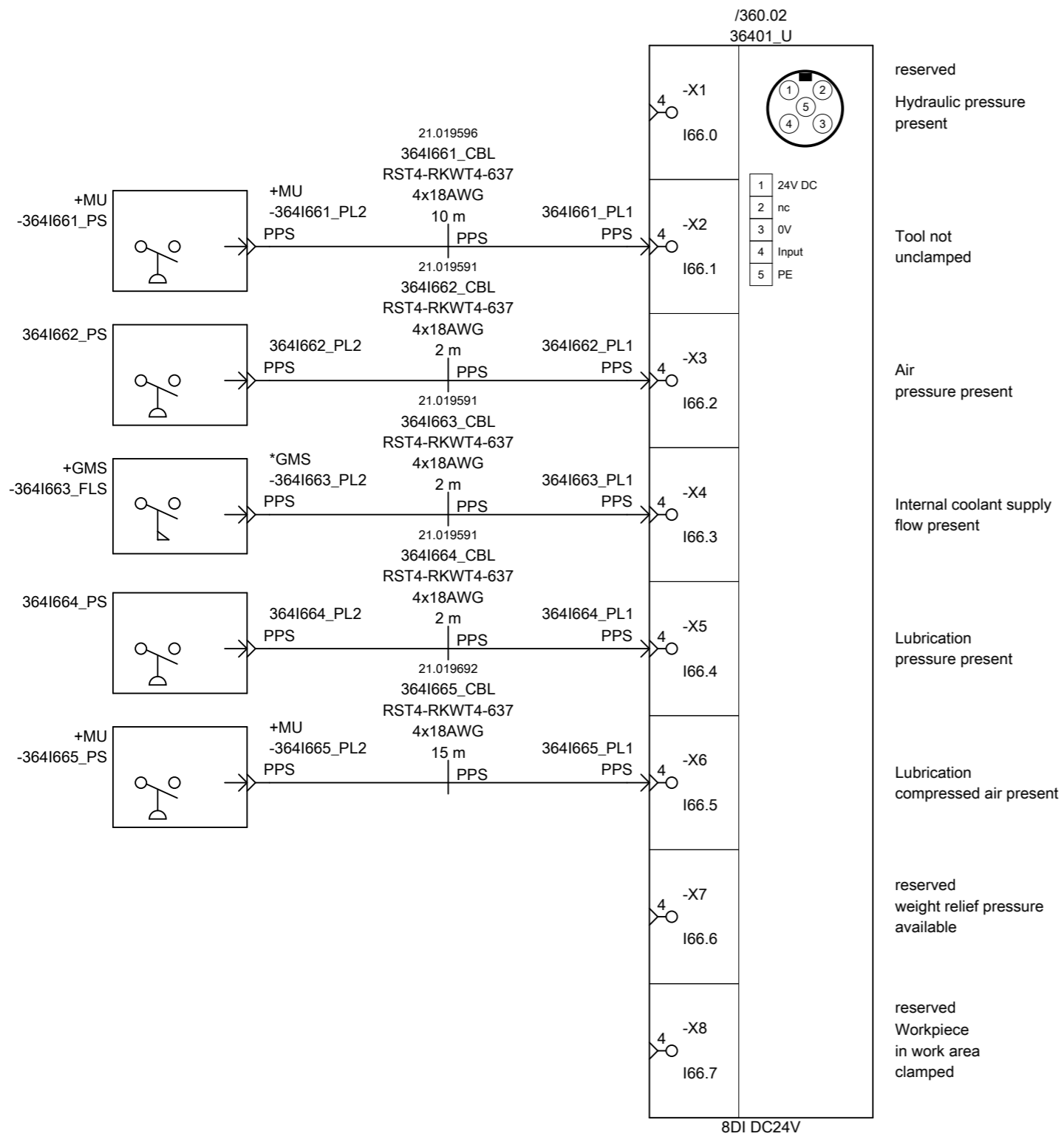


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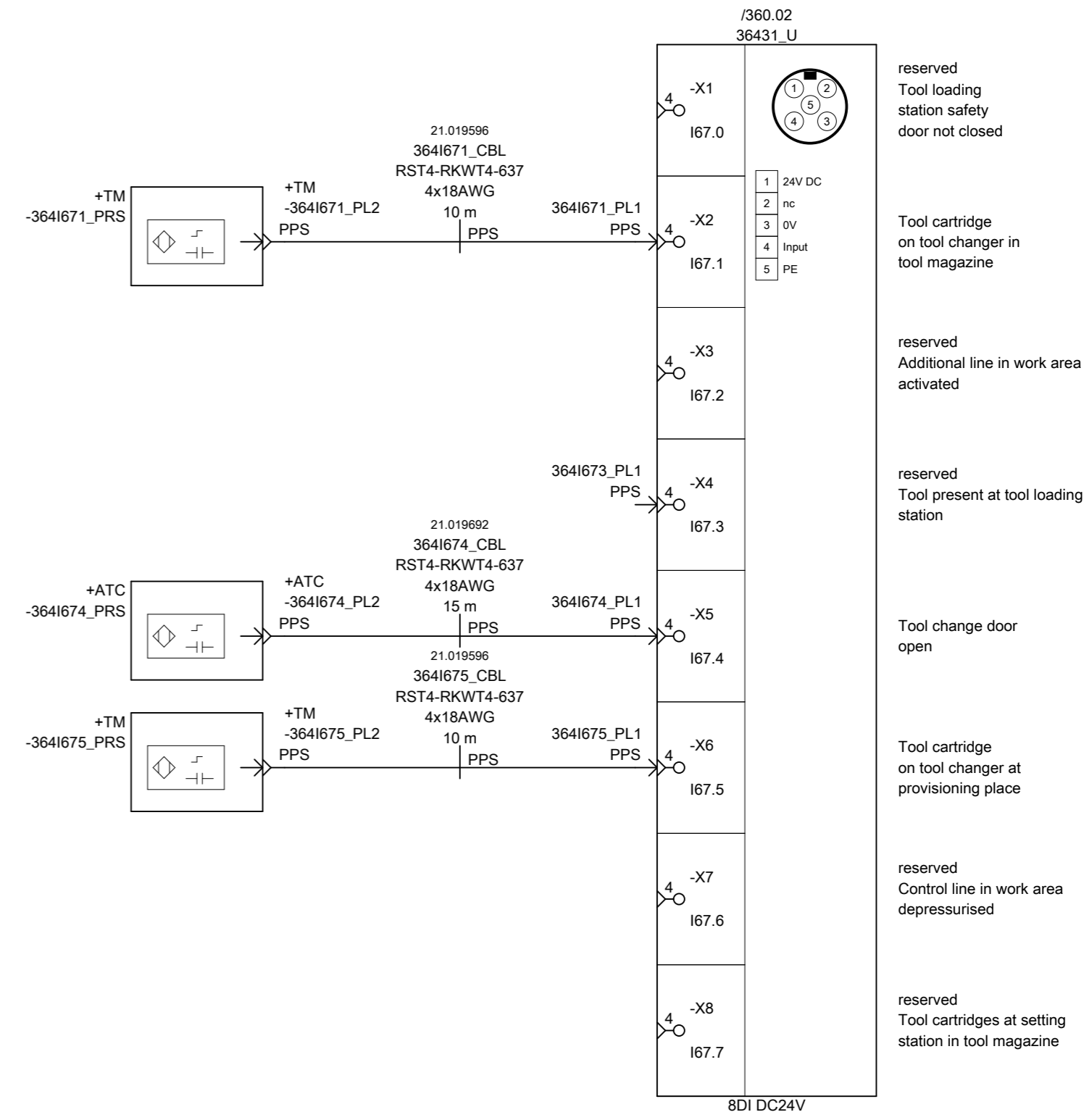


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
I64.0 - I64.7 I65.0 - I65.7				Inv.No.		
ePLAN P8 2.2.5				=54794	Number of sheets 275	Sheet 363
				362	Sheet	364

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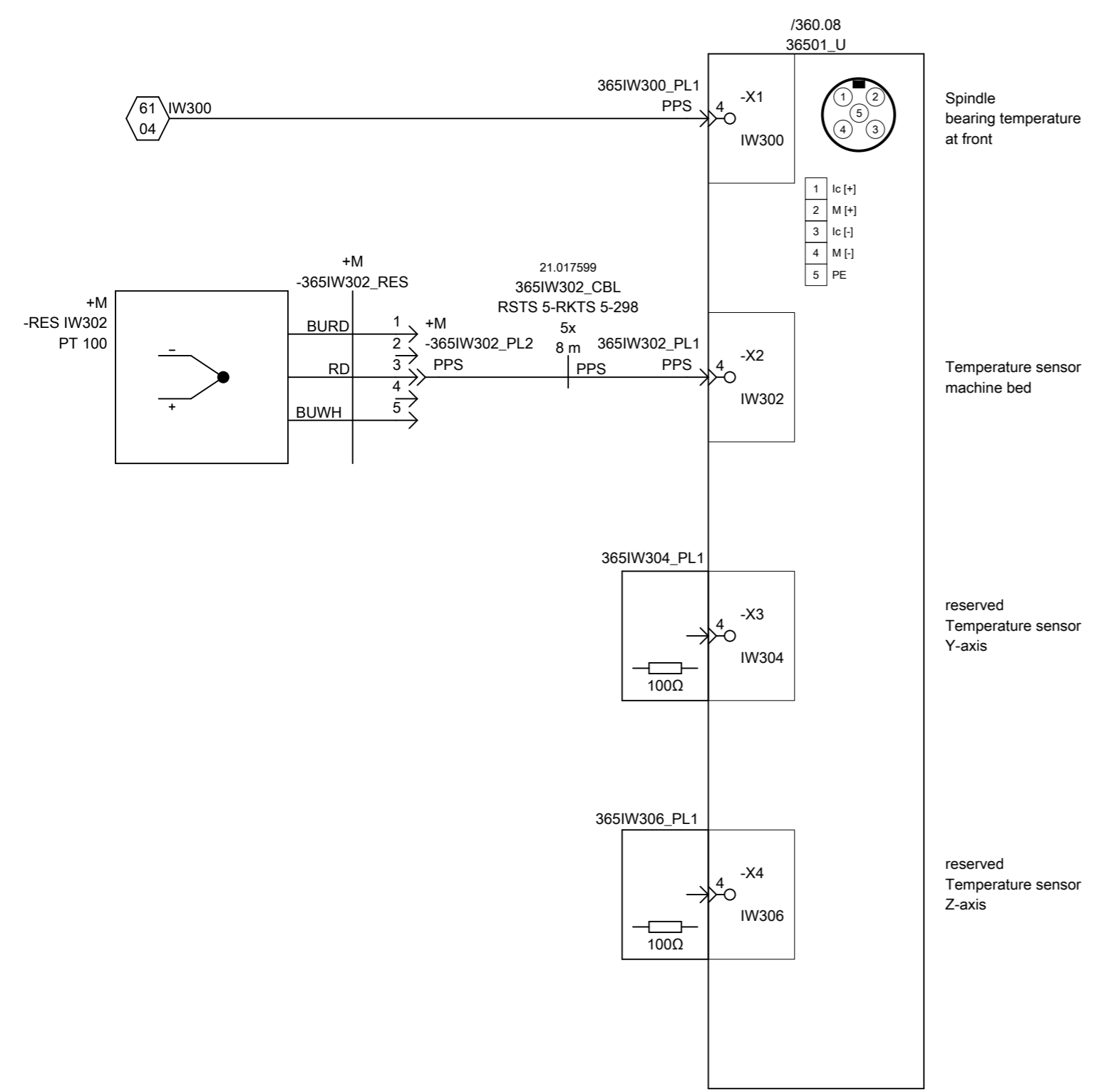


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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
I66.0 - I66.7 I67.0 - I67.7				Inv.No.		
ePLAN P8 2.2.5				=54794	Number of sheets 275	Sheet 364
				363	Sheet	365

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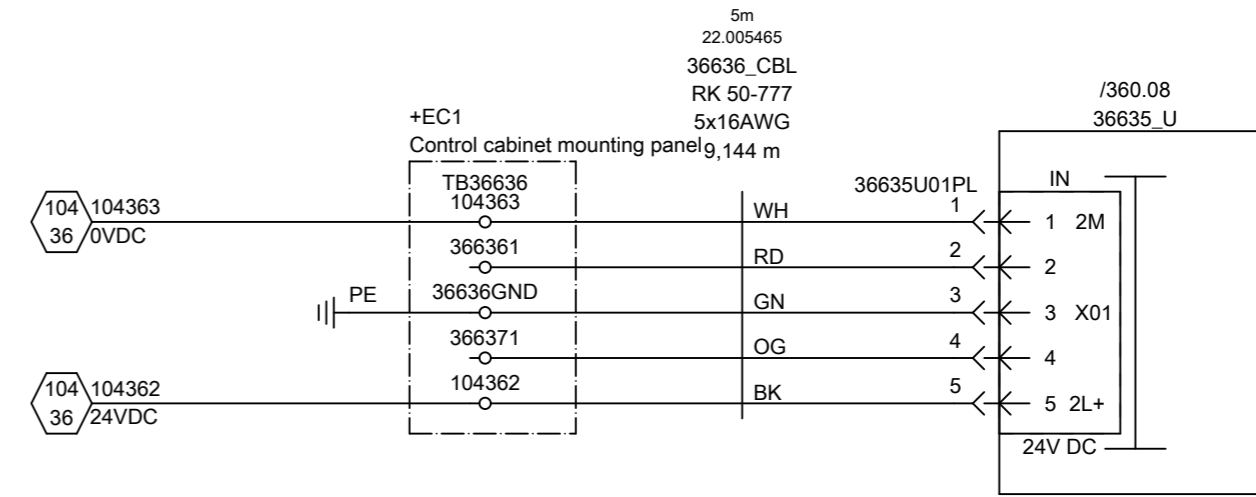
Reserve
I/Q69.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	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				=54794	Number of sheets 275	Sheet 365
				364	Sheet	366

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Reserve
I/Q70.x



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
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				=54794	Number of sheets 275 Sheet 366	
				365	Sheet	367

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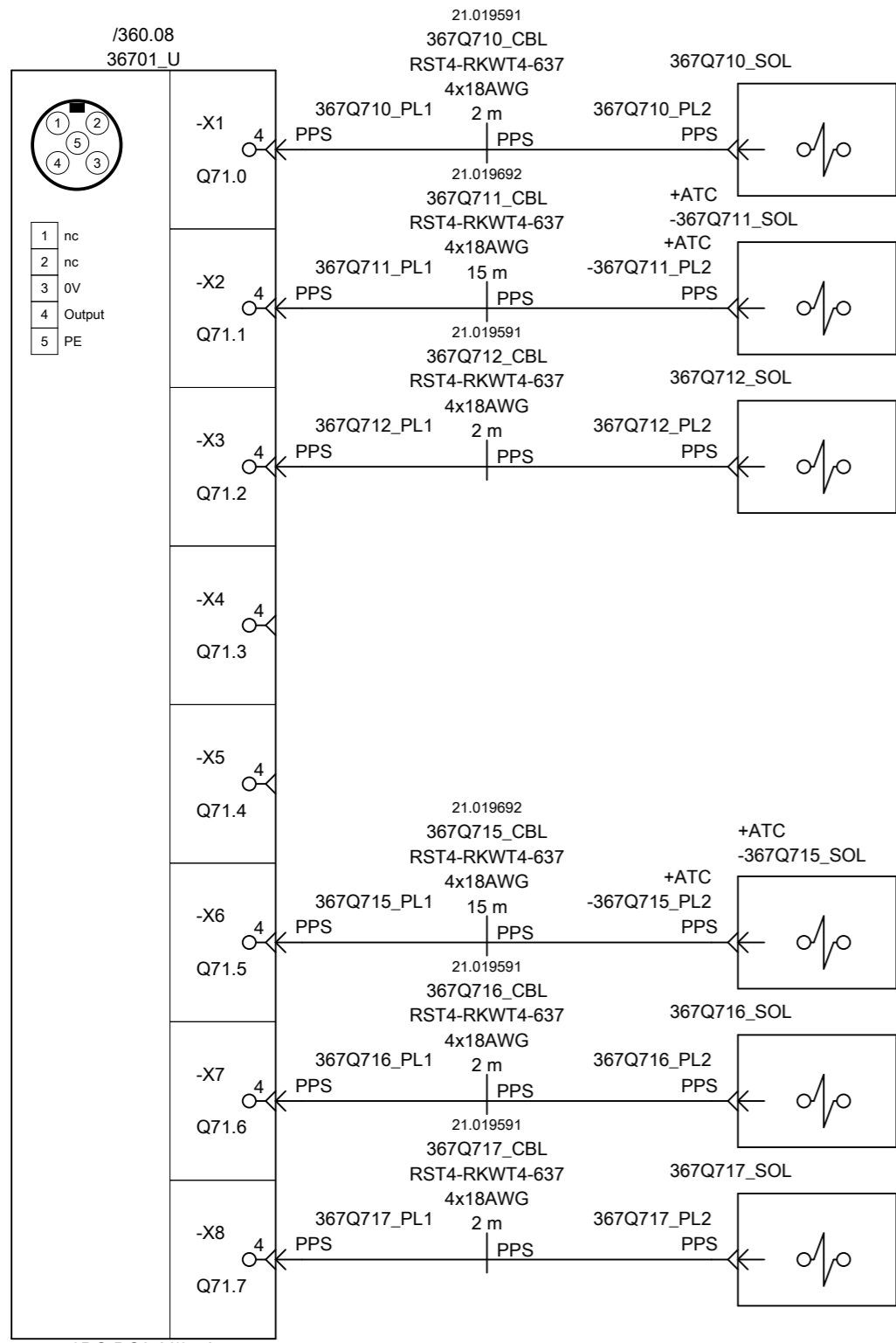
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- Blow-out tool, blow-off facing slide coupling point
- Close tool change door
- Tool cartridge on tool changer to tool magazine
- reserved
Notklemmung lösen
- reserved
Activate additional line in work area
- Open tool change door
- Tool cartridge on tool changer to provisioning place
- Activate measuring probe

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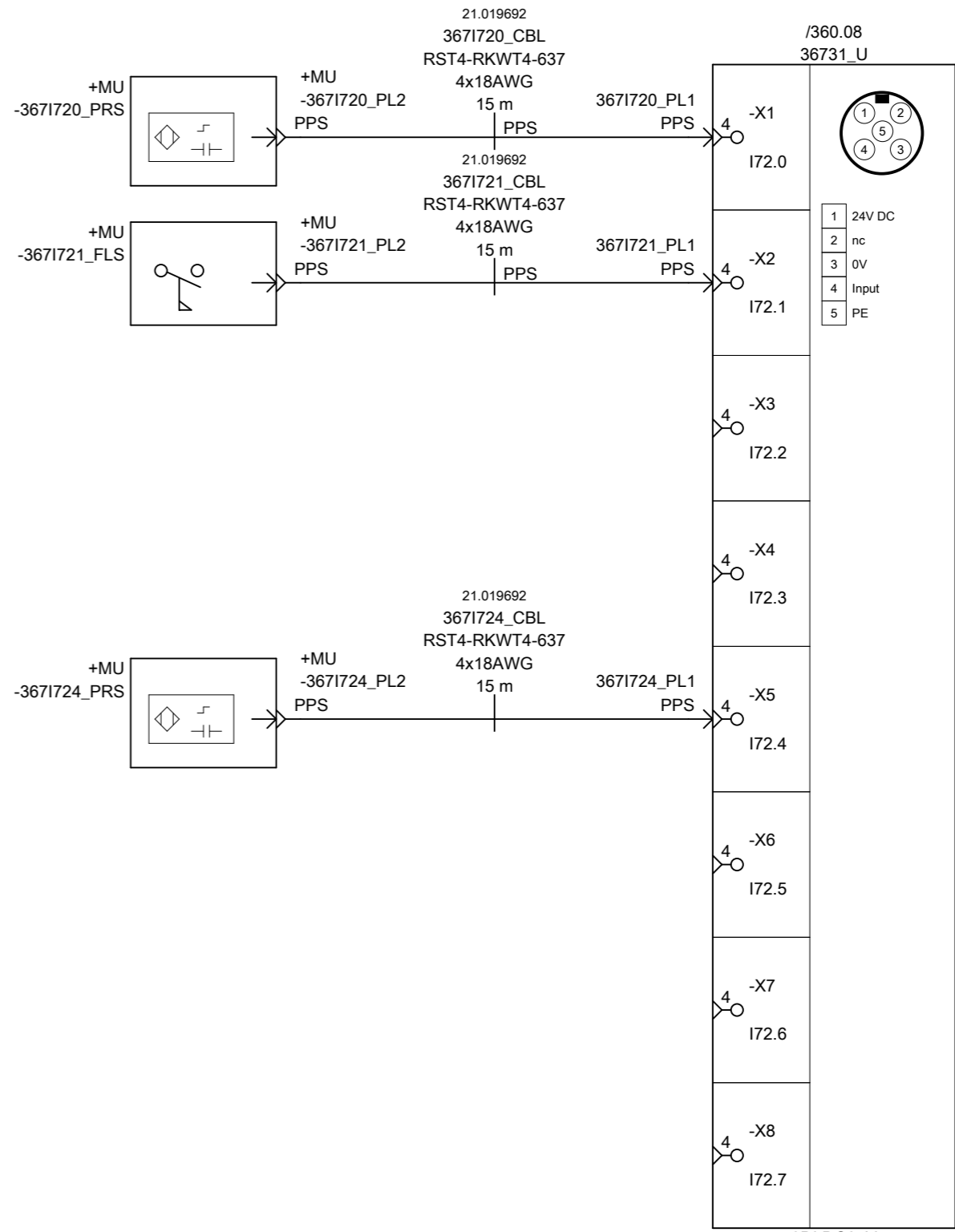
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- PC gear unit to step 1
- Lubrication gear unit flow present
- reserved
Handheld operating unit connected to rack-type tool magazine
- reserved
Facing slide coupled
- PC gear unit to step 2
- reserved
Lubrication HPC-gear unit flow present
- reserved
Leakage OK
- reserved
Facing slide uncoupled

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
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				=54794	Number of sheets 275	Sheet 367

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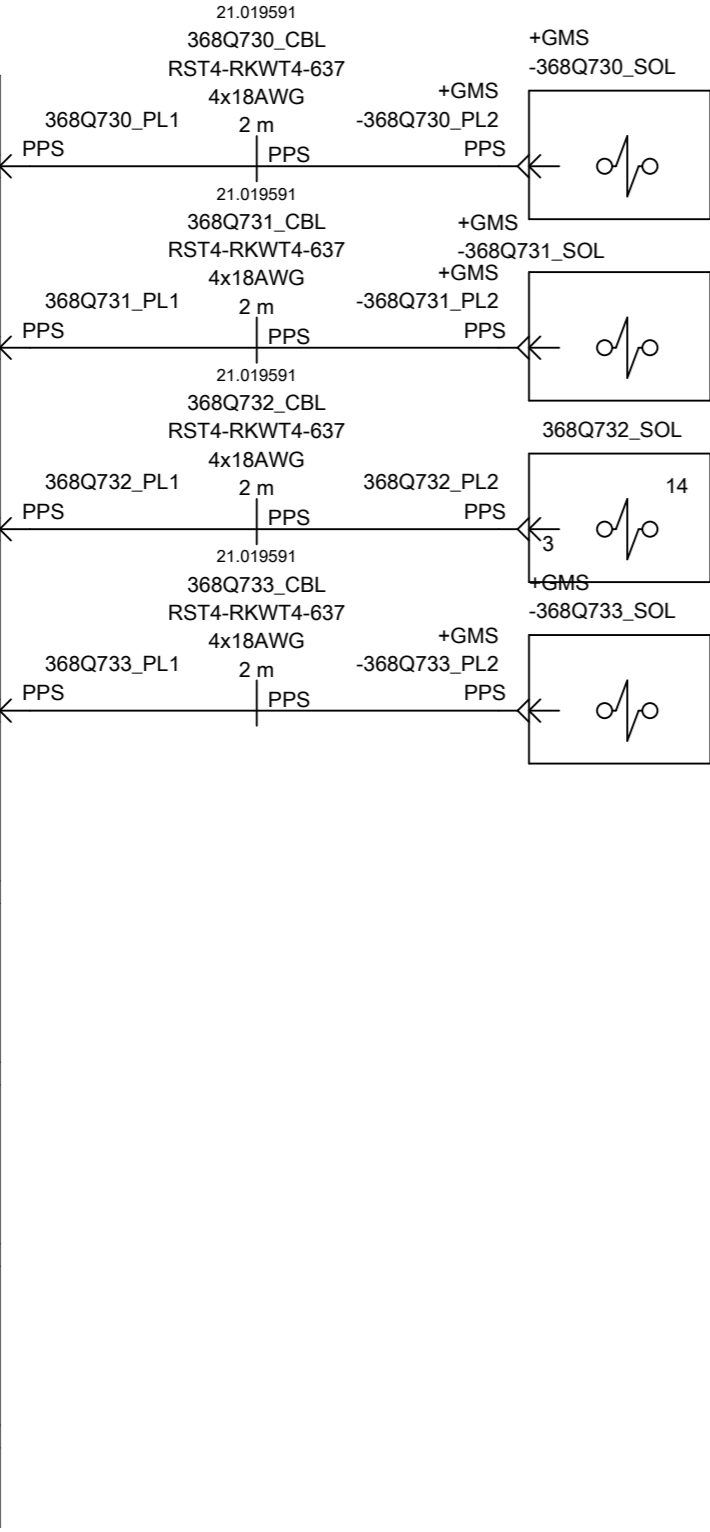
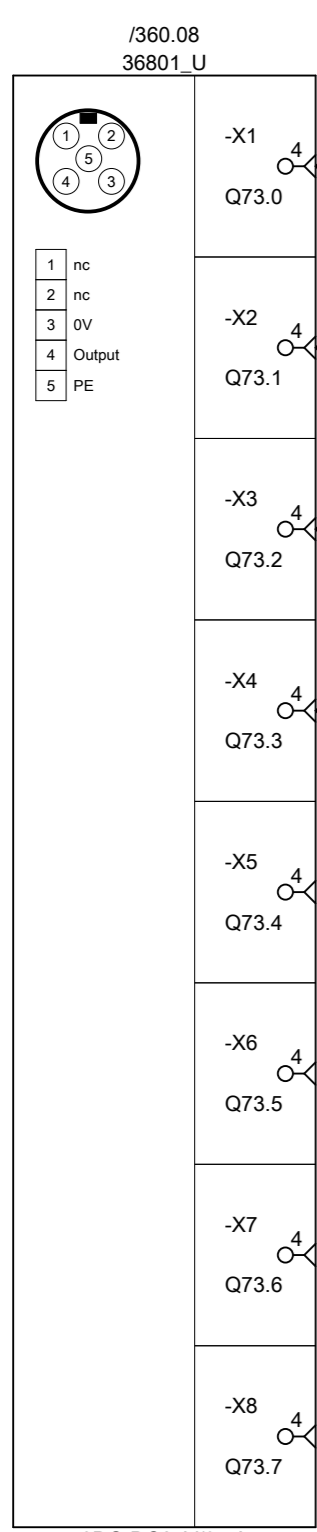
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Activate flushing in work area

Activate spindle nozzles

Blow-off spindle taper

Exhaust internal coolant supply to tool

reserved
Activate tool cleaning air

reserved
Activate tool cleaning cooling lubricant

reserved
Activate X/Y flushing

reserved
Activate air for spindle nozzles

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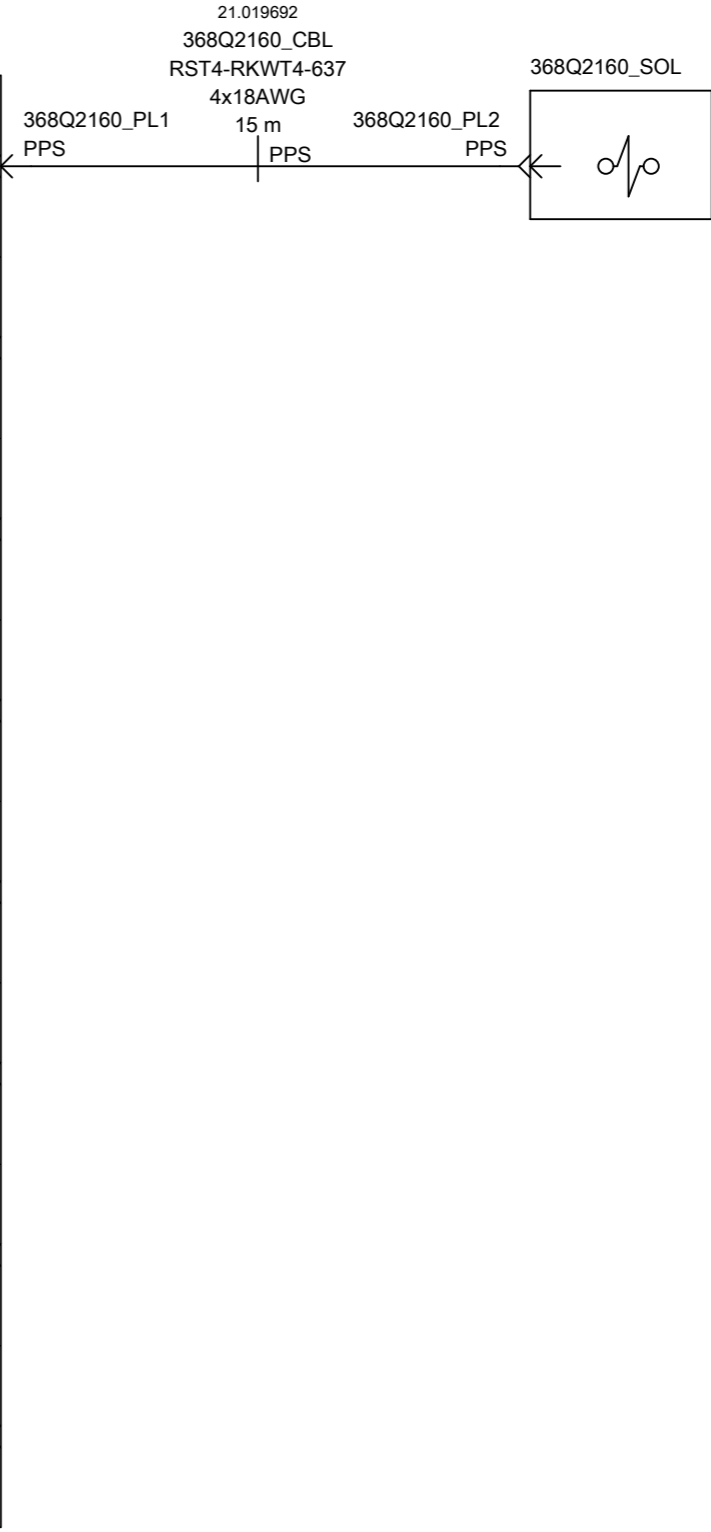
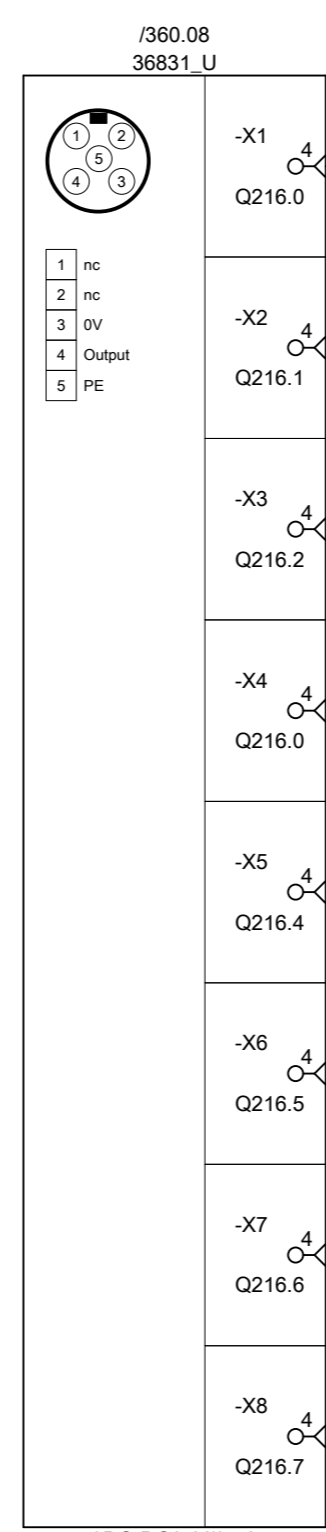
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Tool change door, unclamp clamp

spare

spare

spare

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spare

spare

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q73.0 - Q73.7 Q74.0 - Q74.7				Inv.No.		
ePLAN P8 2.2.5				=54794	Number of sheets 275	Sheet 368
				367	Sheet	369

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Tool identification
Brand: Siemens

Reserve
IW120 - IW123

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Tool identification
Brand: Siemens

Reserve
QW120 - QW123

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve IW120 - IW123 QW120 - QW123					
Number of sheets					
ePLAN P8 2.2.5		=54794		368	Sheet
				370	369

Reserve
I/Q216.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	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 275 Sheet 370	
ePLAN P8 2.2.5		=54794		369	Sheet 371

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Reserve
page 371-376

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	15.09.2015	AHP3/GMI		Inv.No.	
Reserve page 371-376				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 371
=54784				370	Sheet 377

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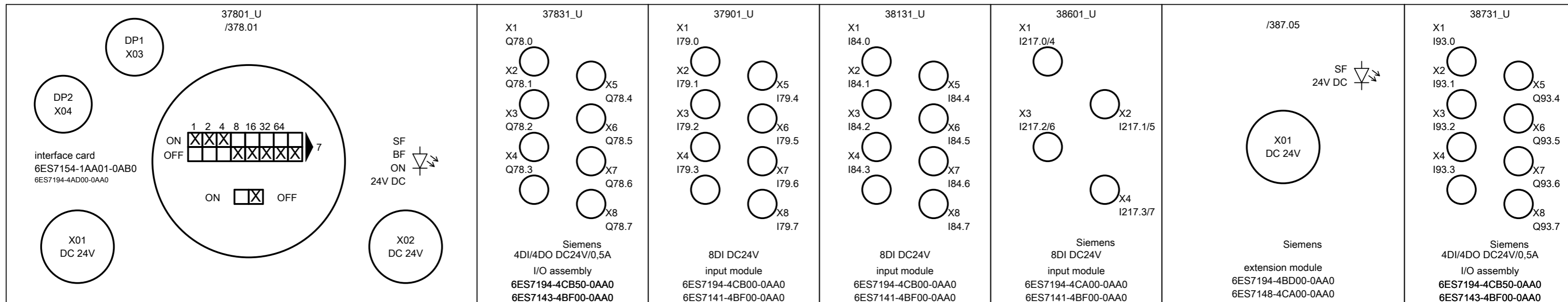
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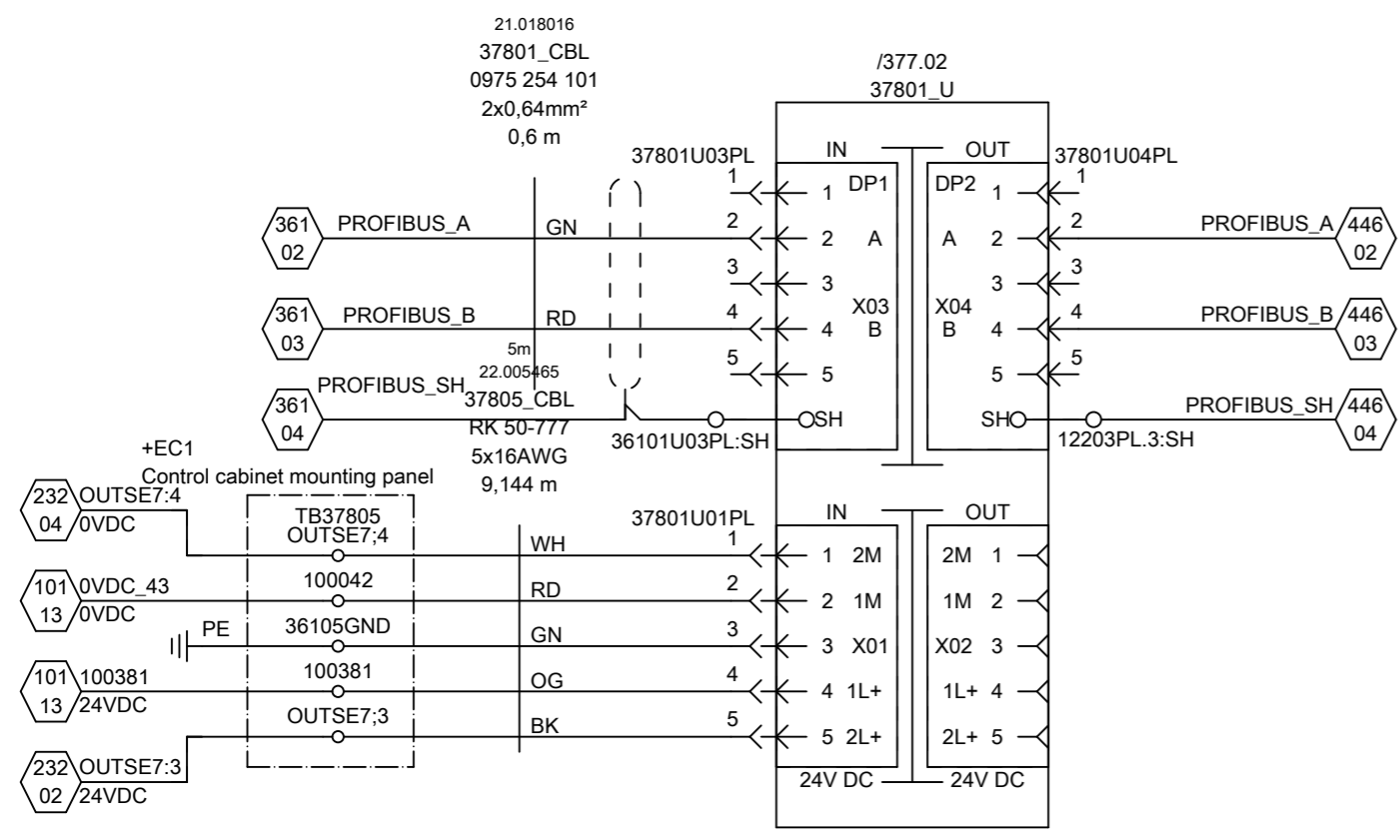


Operating precondition tool setting station, switch-off

Safety door loading (TOP LOADER) switch-off

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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 1/2				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 377	
=54794				◀ 371 Sheet 378	

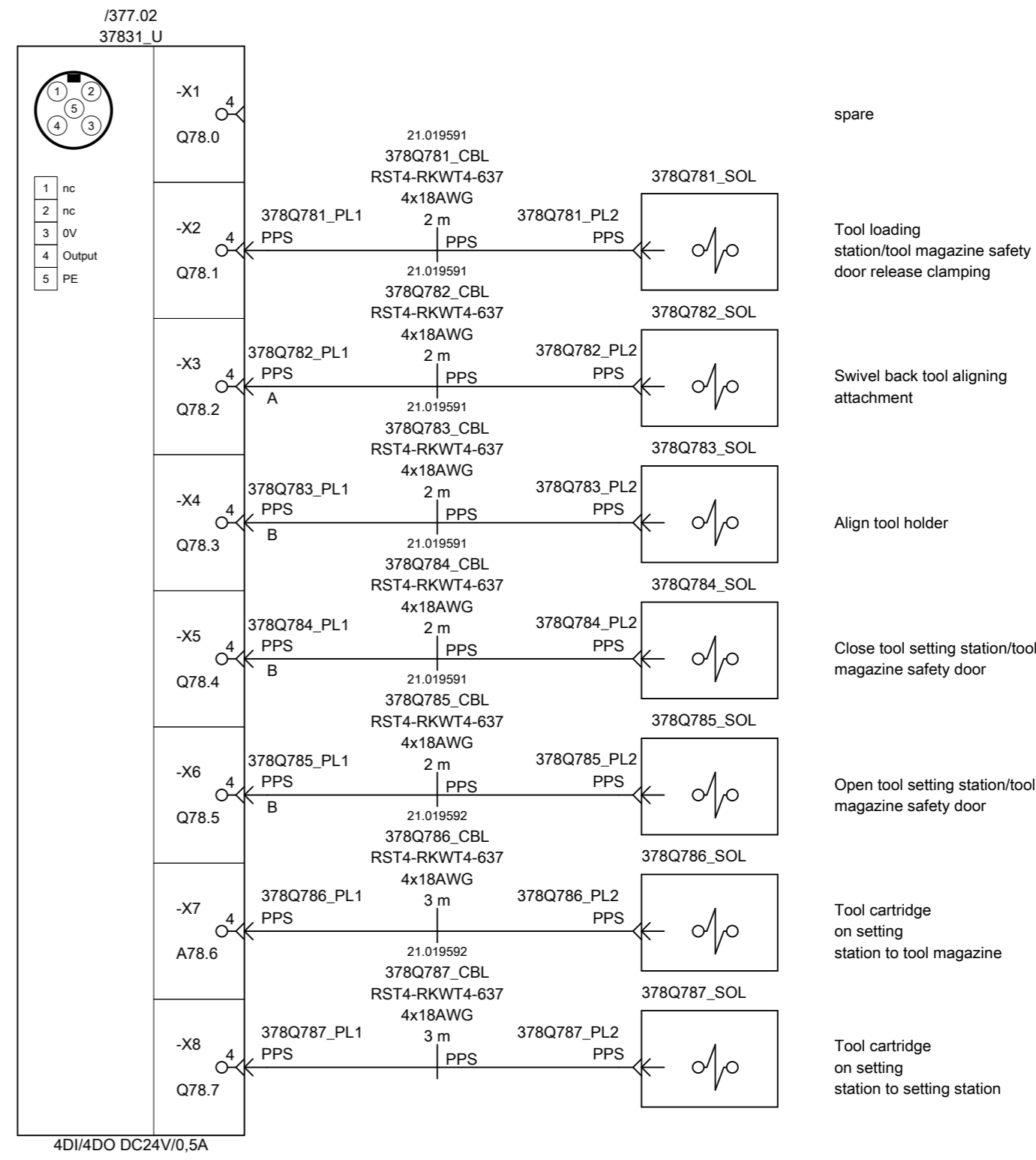
378 00
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Attention
Voltage also present when main switch is turned off

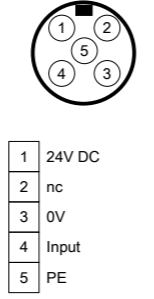
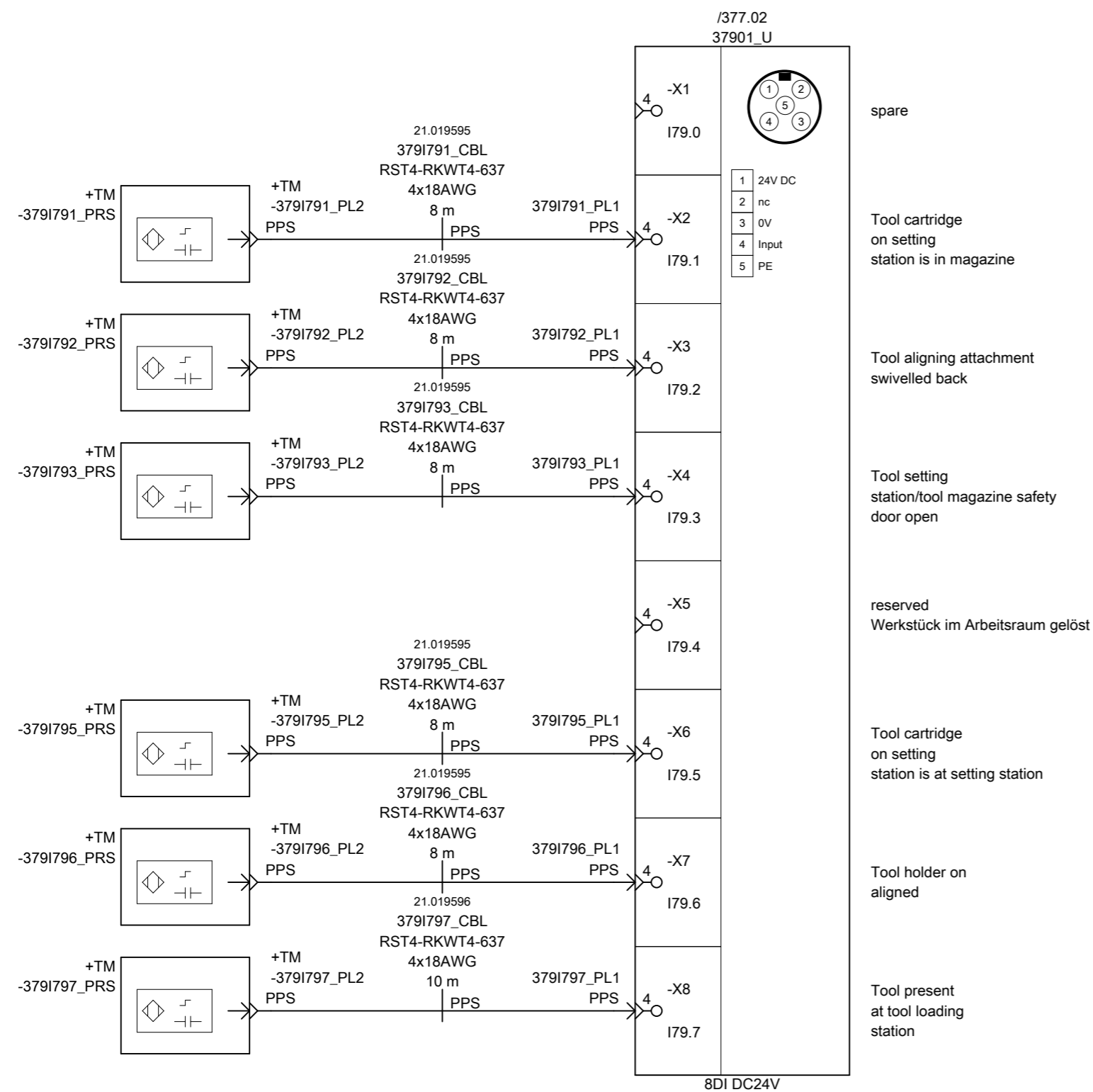
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----- HZPR -----



Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q78.0 - Q78.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 378	
=54784				377 Sheet 379	

HZPR



Reserve
I/Q80.x

Project description P-009084				Project JIC_EP05479400		
				Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	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				=54784	Number of sheets 275 Sheet 379	
				378	Sheet	380

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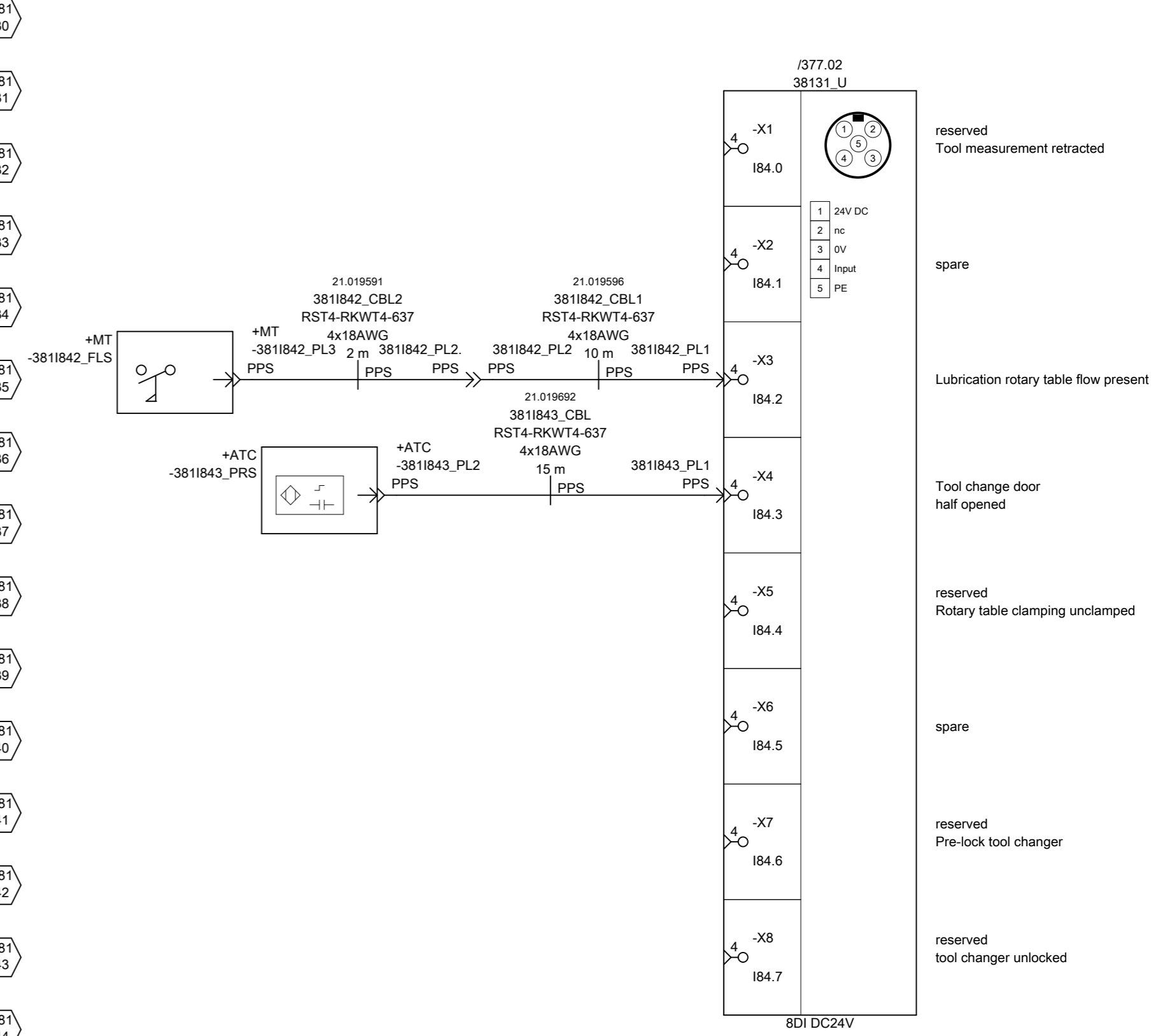
----- MSK -----
Reserve
Q81.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.08.2016	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			275	Sheet	380
ePLAN P8 2.2.5			=54794	379	Sheet 381

Reserve
I/Q83.x

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reserved
Tool measurement retracted

spare

Lubrication rotary table flow present

Tool change door
half opened

reserved
Rotary table clamping unclamped

spare

reserved
Pre-lock tool changer

reserved
tool changer unlocked

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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				Number of sheets 275 Sheet 381	
=54784				380 Sheet 382	

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Reserve
I/Q85.x

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Reserve
I/Q86.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I/Q85.0 - I/Q85.7 I/Q86.0 - I86.7				Inv.No.	
				Number of sheets 275 Sheet 382	
ePLAN P8 2.2.5		=54794		◀ 381 Sheet 384 ▶	

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Reserve
I/Q87.x

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Reserve
I/Q88.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I/Q87.0 - I/Q87.7 I/Q88.0 - I88.7				Inv.No.	
ePLAN P8 2.2.5				=54794	
				Number of sheets	275
				Sheet	384
				382	385

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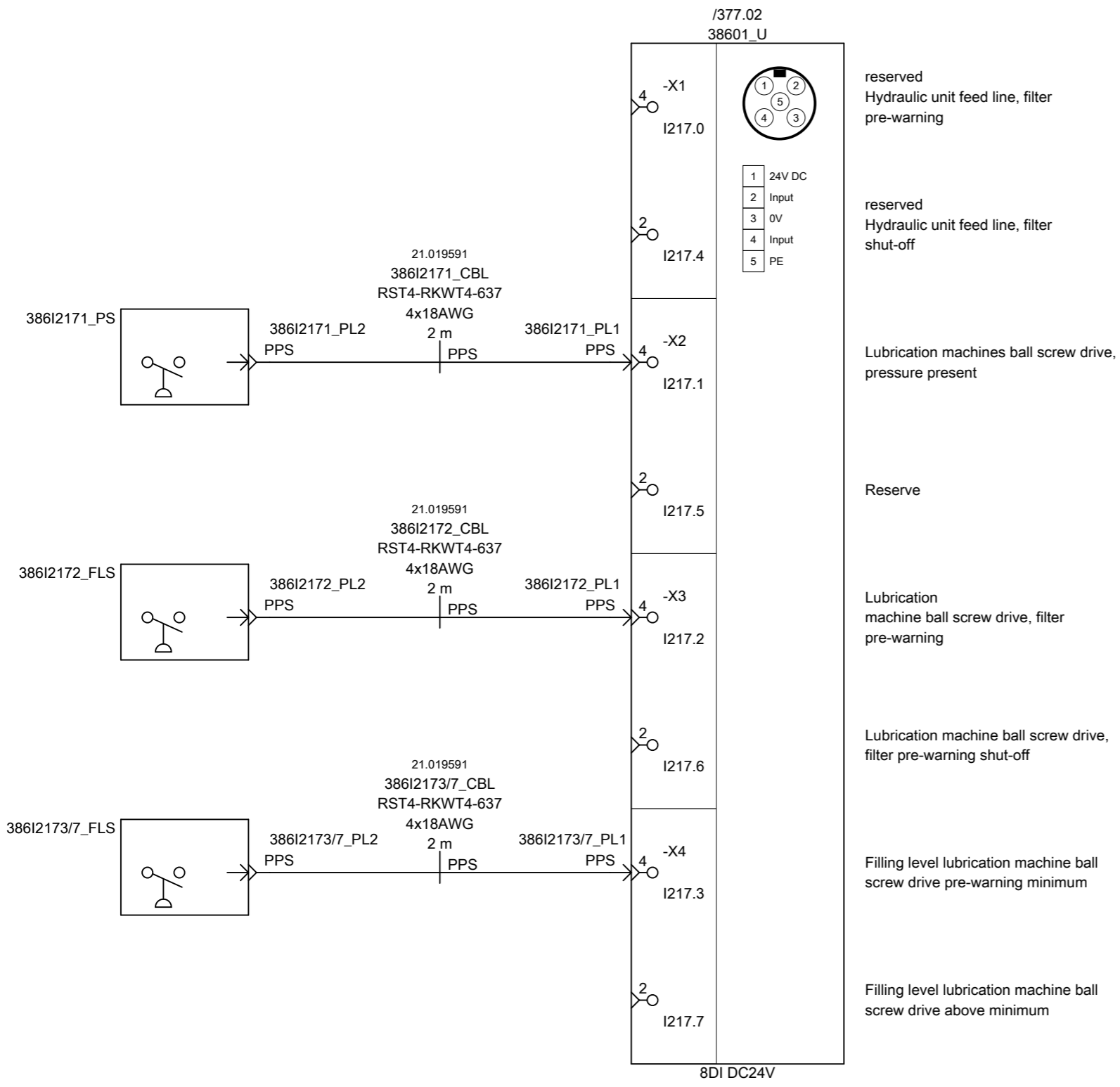
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Reserve
Q90.0 - 7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	15.09.2015	AHP3/GMI			
I/Q89.0 - I/Q89.7 Q90.0 - Q90.7				Inv.No.	
ePLAN P8 2.2.5				=54794	
Number of sheets			275	Sheet	385
◀ 384			Sheet	▶ 386	

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reserved
Hydraulic unit feed line, filter
pre-warning

reserved
Hydraulic unit feed line, filter
shut-off

Lubrication machines ball screw drive,
pressure present

Reserve

Lubrication
machine ball screw drive, filter
pre-warning

Lubrication machine ball screw drive,
filter pre-warning shut-off

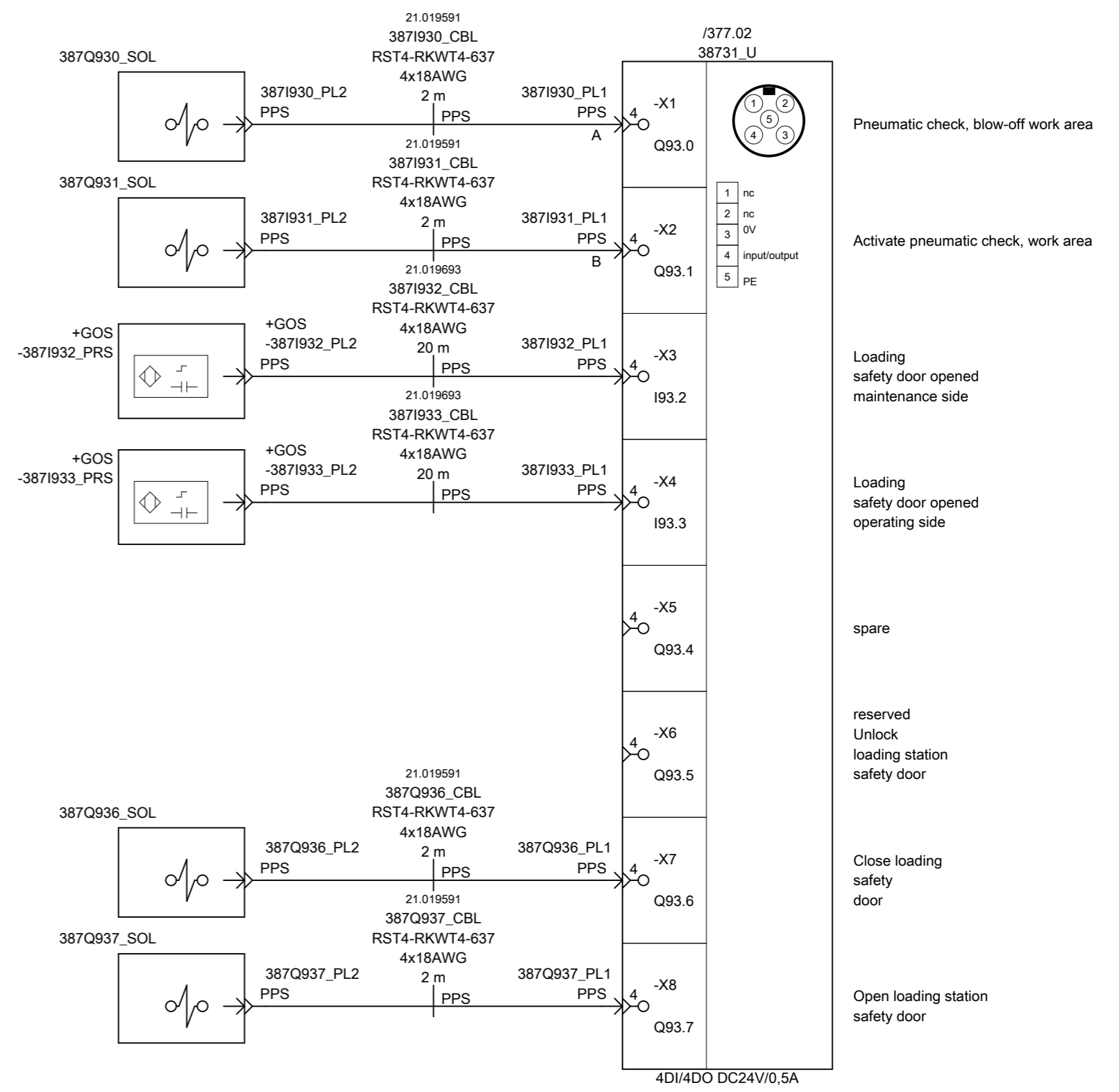
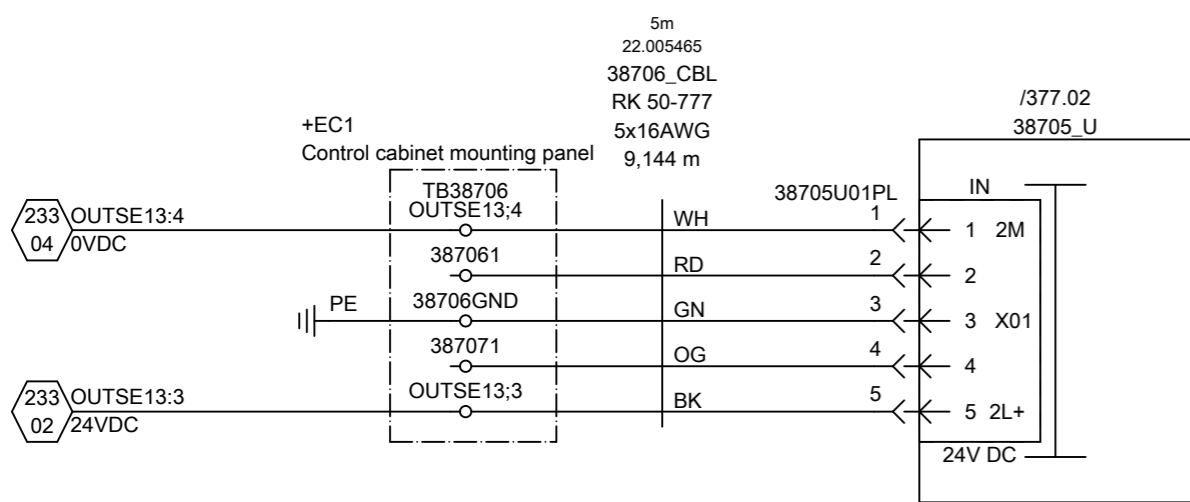
Filling level lubrication machine ball
screw drive pre-warning minimum

Filling level lubrication machine ball
screw drive above minimum

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802		
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				=54794	Number of sheets 275	Sheet 386
				385	Sheet	387

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
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/Q90.0 - I/Q90.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 387	
=54794				386 Sheet 388	

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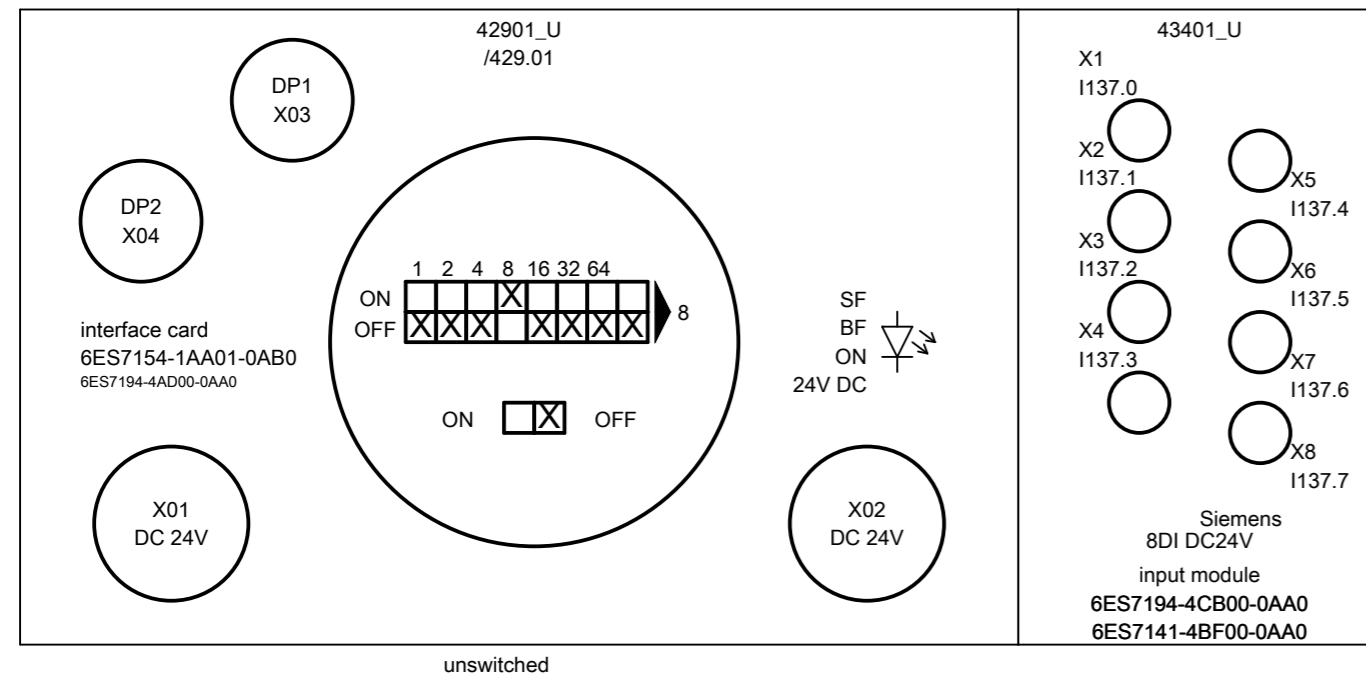
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Reserve
page 388-427

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/EWD		Inv.No.	
Reserve page 388-427				Number of sheets 275 Sheet 388	
ePLAN P8 2.2.5		=54794		◀ 387 Sheet ▶ +H2/428	

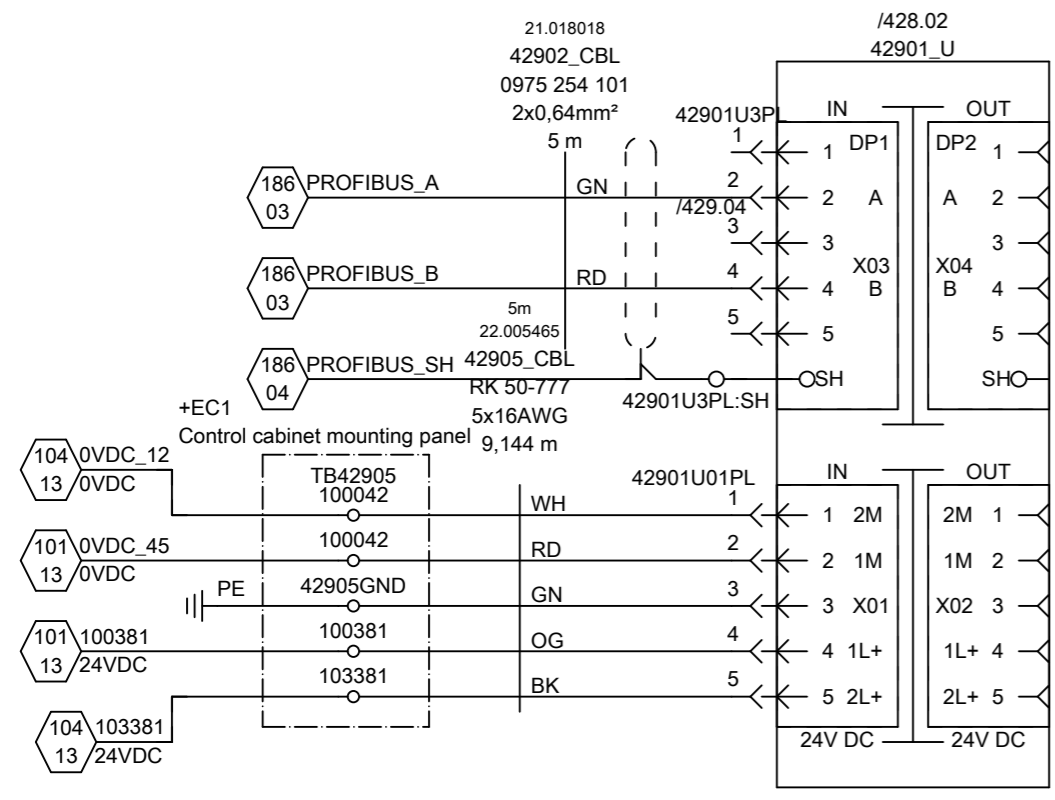
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	18.03.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Overview of inputs/outputs, HELP 2				Number of sheets 275 Sheet 428	
ePLAN P8 2.2.5		=54794		+H1/388 Sheet 429	

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Reserve
I/Q129.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	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 275 Sheet 429	
=54784				◀ 428 Sheet 430 ▶	

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Reserve
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Reserve
I/Q131.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	04.04.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I/Q131.0 - I/Q131.7				Number of sheets 275 Sheet 430	
ePLAN P8 2.2.5		=54784		429	Sheet 431

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Reserve
Q133.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I/Q132.x I/Q133.0 -I/Q133.7				Number of sheets 275 Sheet 431	
ePLAN P8 2.2.5		=54794		430	Sheet 432

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Reserve
I/Q134.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I/Q134.x				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 432
=54794				431	Sheet 433

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Reserve
I/Q135.x

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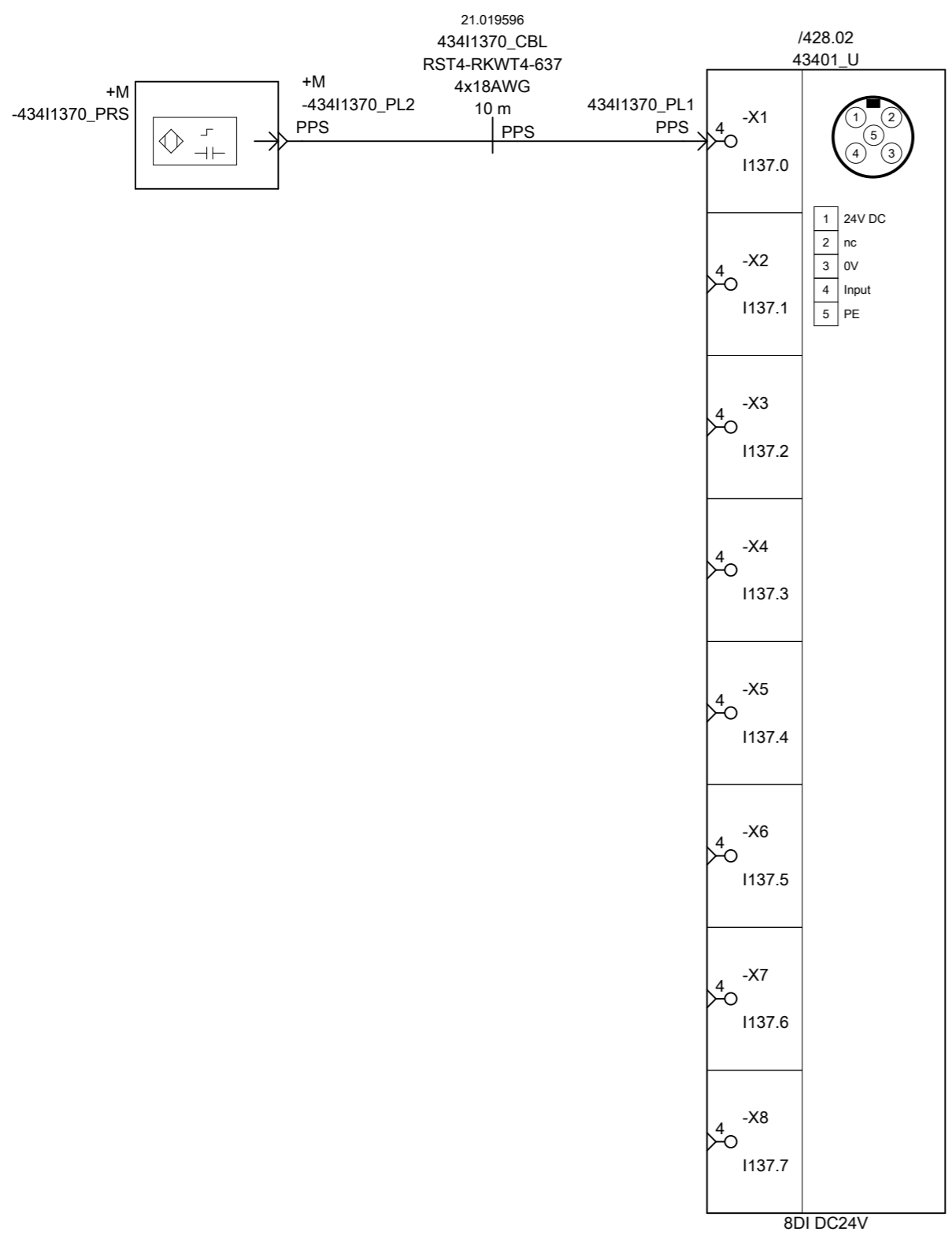
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Reserve
I/Q136.x

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	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 Q135.0 - Q135.7 Reserve I136.0 - I136.7				Number of sheets 275 Sheet 433	
ePLAN P8 2.2.5		=54794		432	Sheet 434

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43401_U

1 24V DC
2 nc
3 0V
4 Input
5 PE

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_EP05479400 Machine serial number M54802		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Reserve I/Q137.x I/Q138.x				Inv.No.		
ePLAN P8 2.2.5				=54784	Number of sheets 275	Sheet 434
				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

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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_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	15.03.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve QW324 - QW330 IW332 - IW338				Number of sheets 275 Sheet 435	
ePLAN P8 2.2.5		=54784		434	Sheet 436

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Reserve
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Reserve
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
IW340 - IW346				Inv.No.	
ePLAN P8 2.2.5				=54784	
Number of sheets				275	Sheet 436
◀ 435				Sheet	437 ▶

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Reserve
page 437 - 499

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 437-499				Number of sheets 275 Sheet 437	
ePLAN P8 2.2.5		=54784		436	Sheet +H15/445

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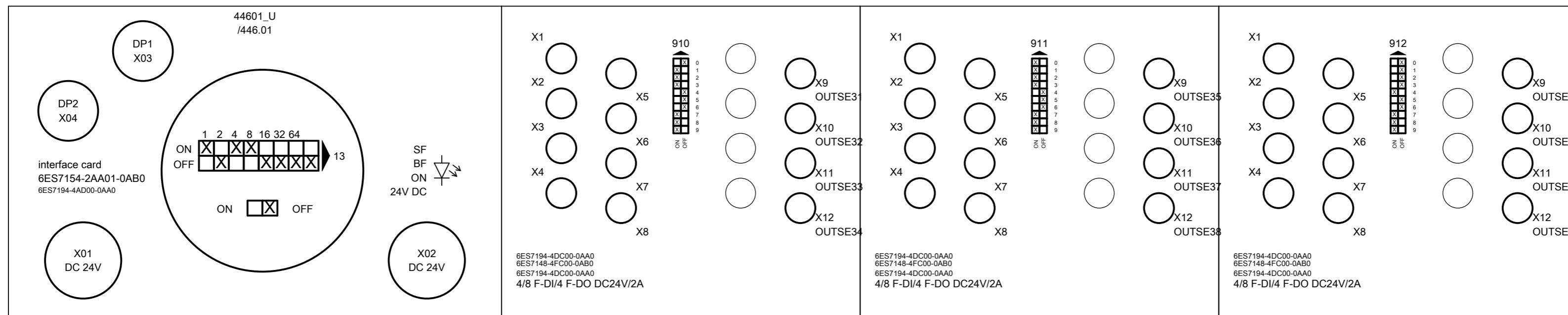
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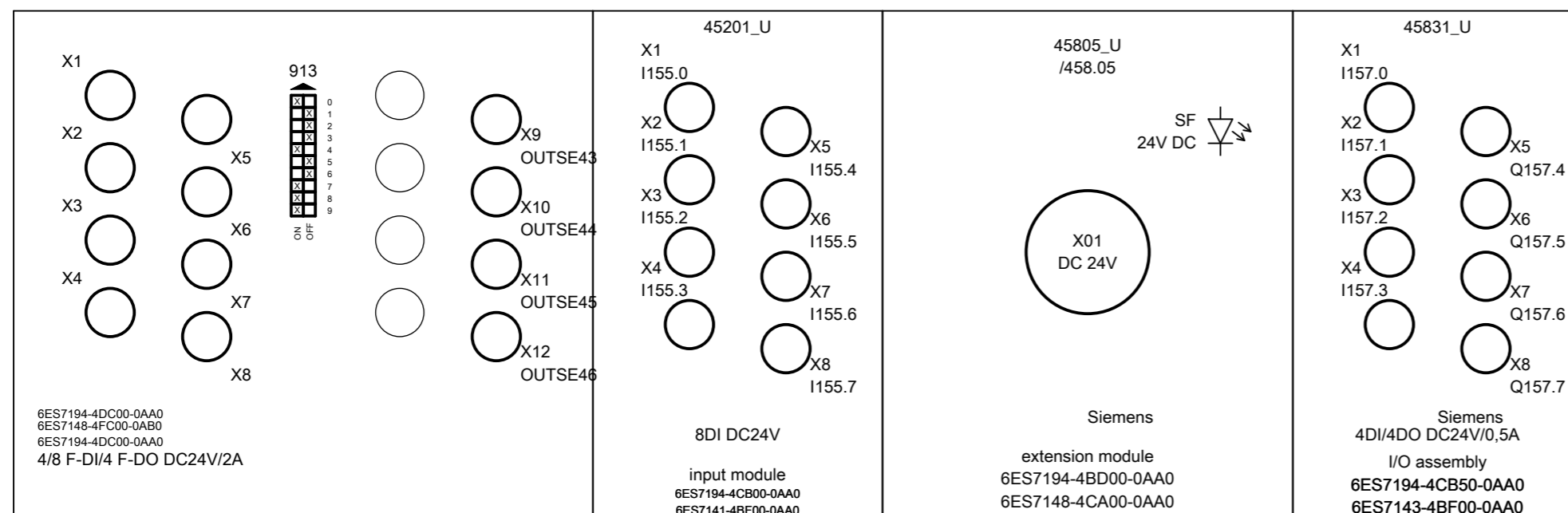
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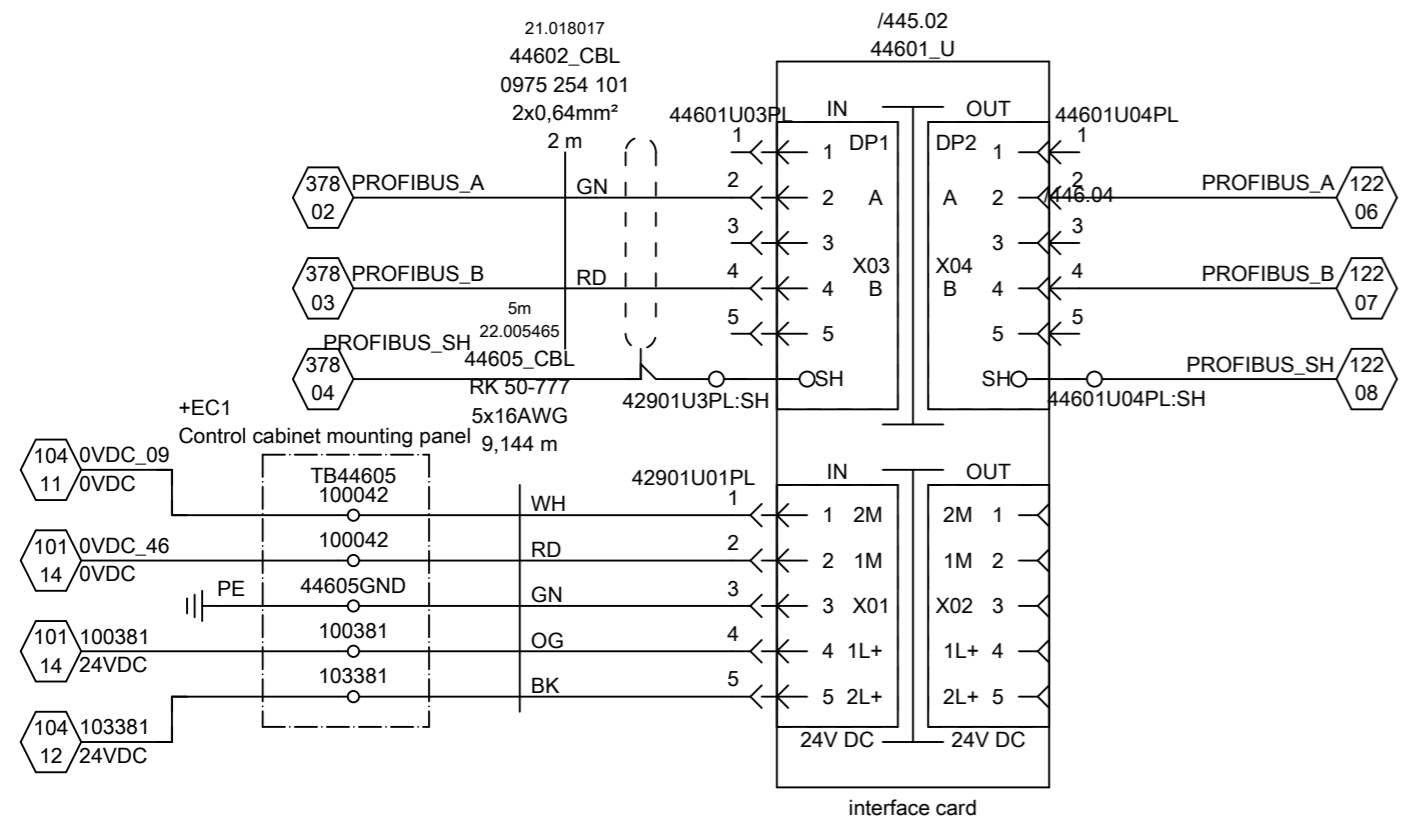


Operating precondition work area, switch-off

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
Overview of inputs/outputs, HELP 1/5				Inv.No.	
				Number of sheets 275 Sheet 445	
ePLAN P8 2.2.5		=54784		+H2/437 Sheet 446	

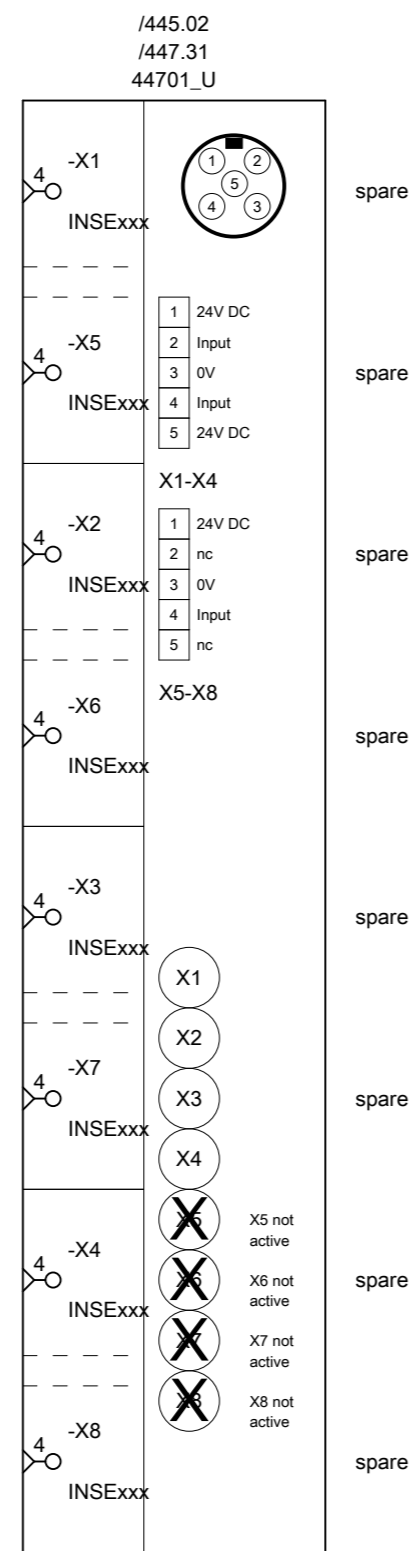
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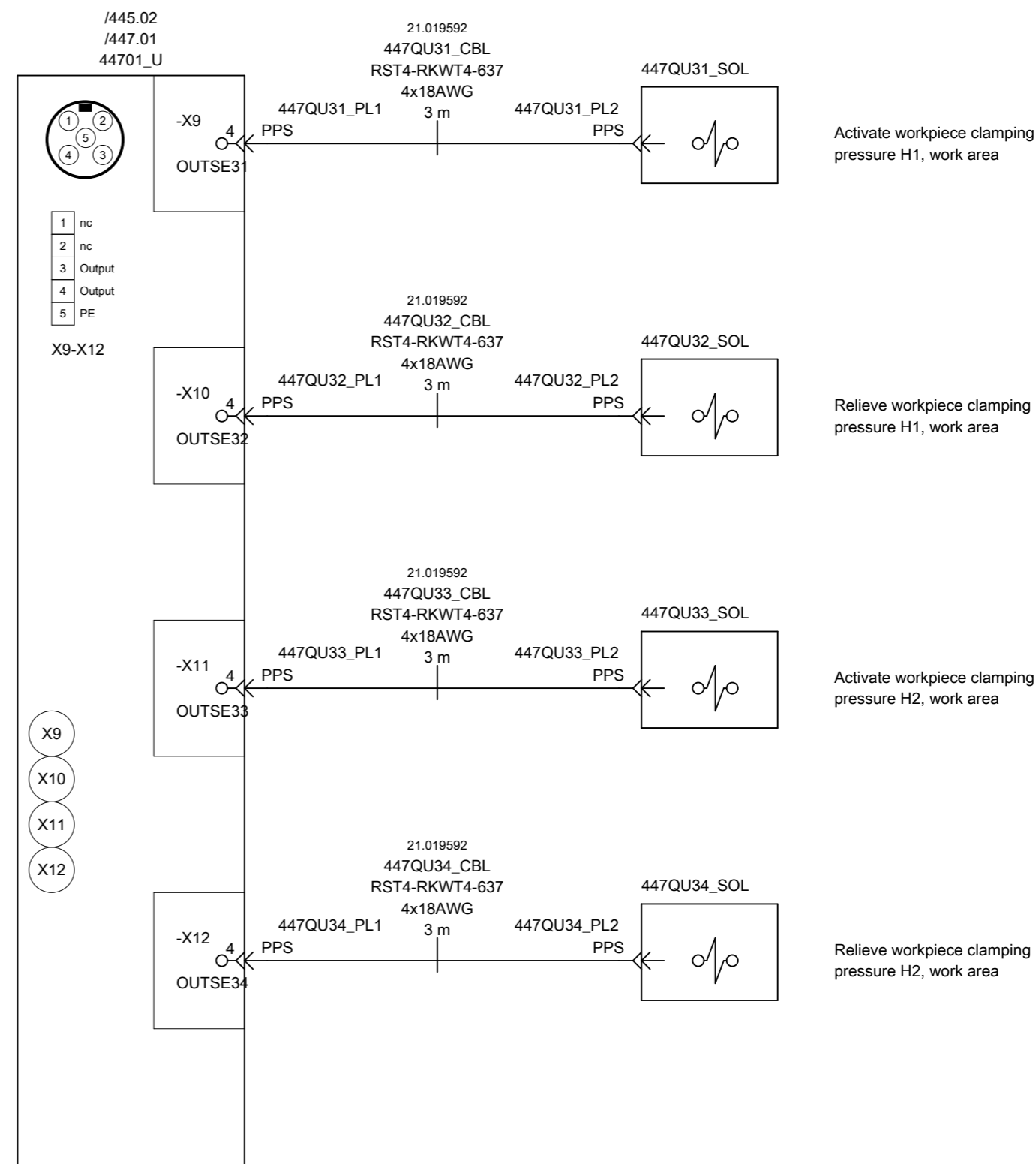


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
Interface 44601_U				Inv.No.	
				Number of sheets 275 Sheet 446	
ePLAN P8 2.2.5		=54794		445 Sheet 447	

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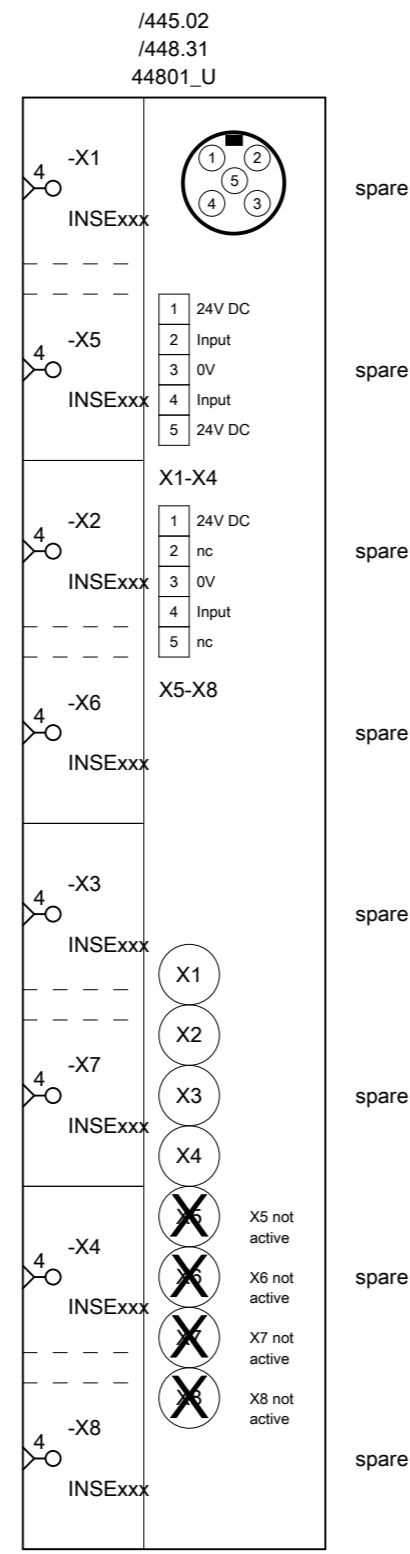


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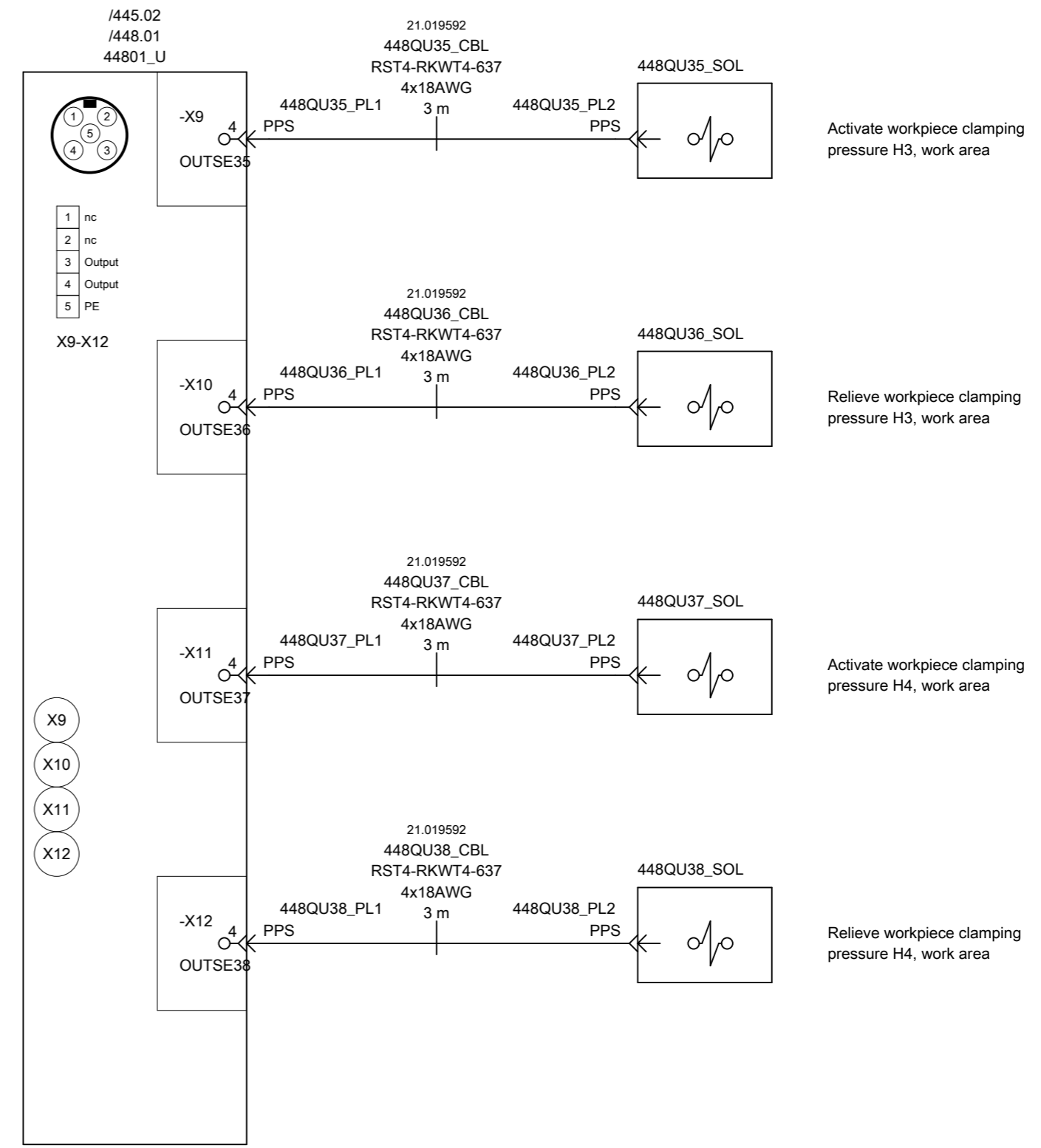


Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
INSExxx OUTSE31 - OUTSE34				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 447	
=54784				446 Sheet 448	

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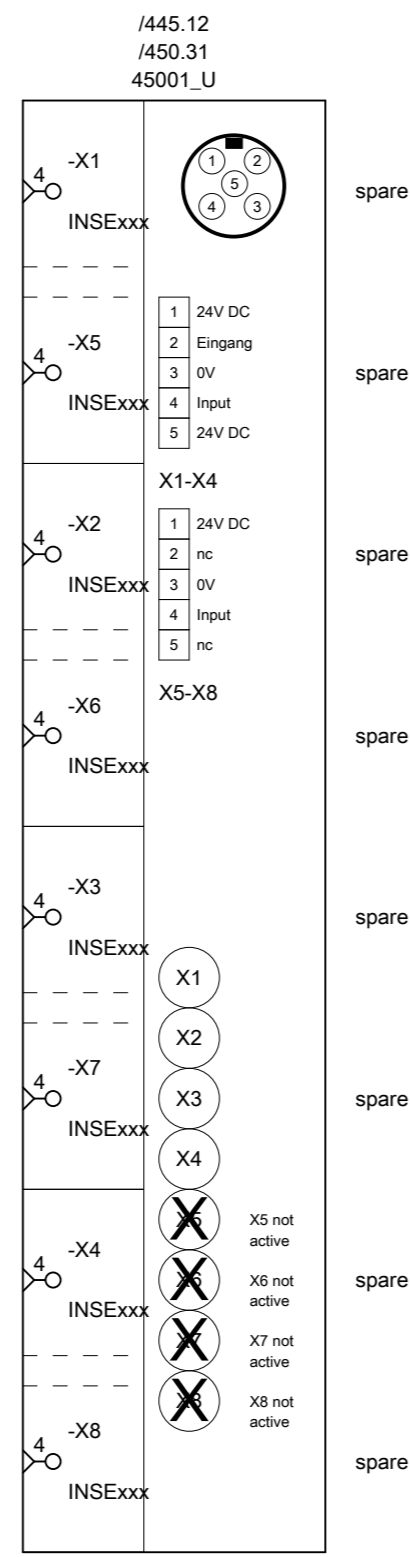


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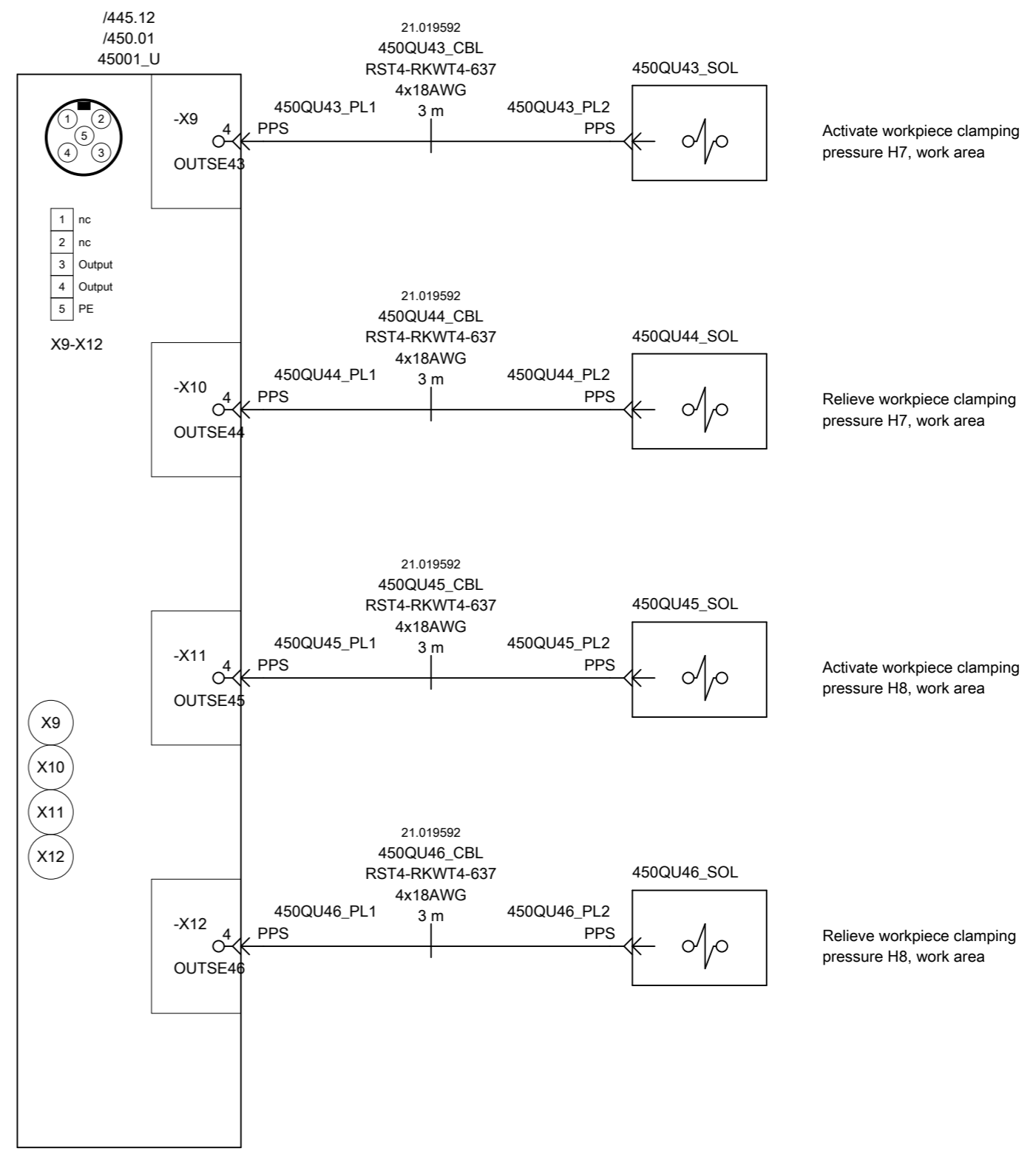
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
INSExxx OUTSE35 - OUTSE38				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 448	
=54784				447 Sheet 449	

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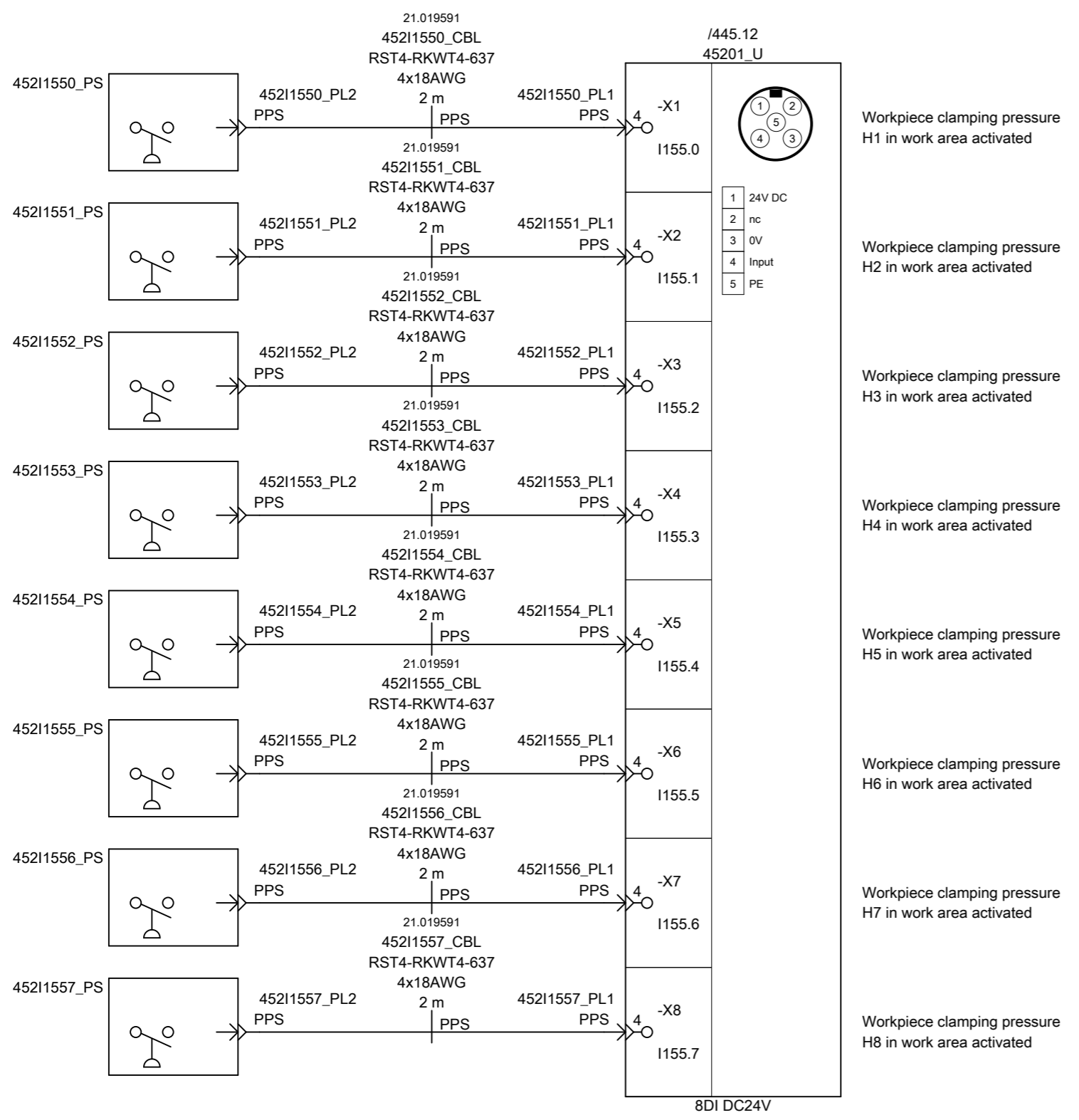
Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
INSExxx OUTSE43 - OUTSE46				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 450	
=54784				449 Sheet 451	

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
Reserve page 451				Inv.No.	
				Number of sheets	
				275	Sheet
ePLAN P8 2.2.5				=54794	450
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Workpiece clamping pressure
H1 in work area activated

Workpiece clamping pressure
H2 in work area activated

Workpiece clamping pressure
H3 in work area activated

Workpiece clamping pressure
H4 in work area activated

Workpiece clamping pressure
H5 in work area activated

Workpiece clamping pressure
H6 in work area activated

Workpiece clamping pressure
H7 in work area activated

Workpiece clamping pressure
H8 in work area activated

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
I155.0 - I155.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 452	
=54784				451 Sheet 453	

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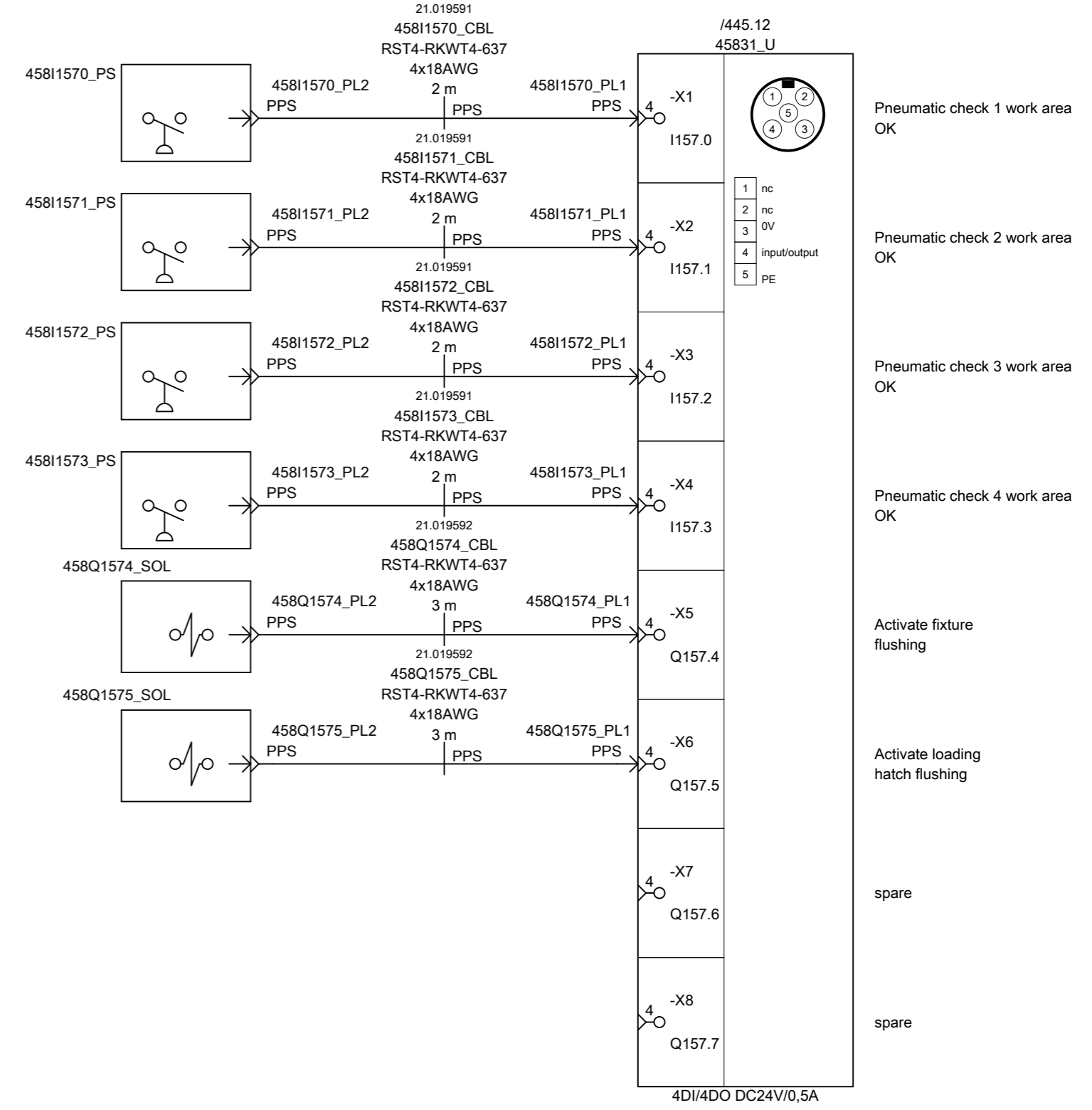
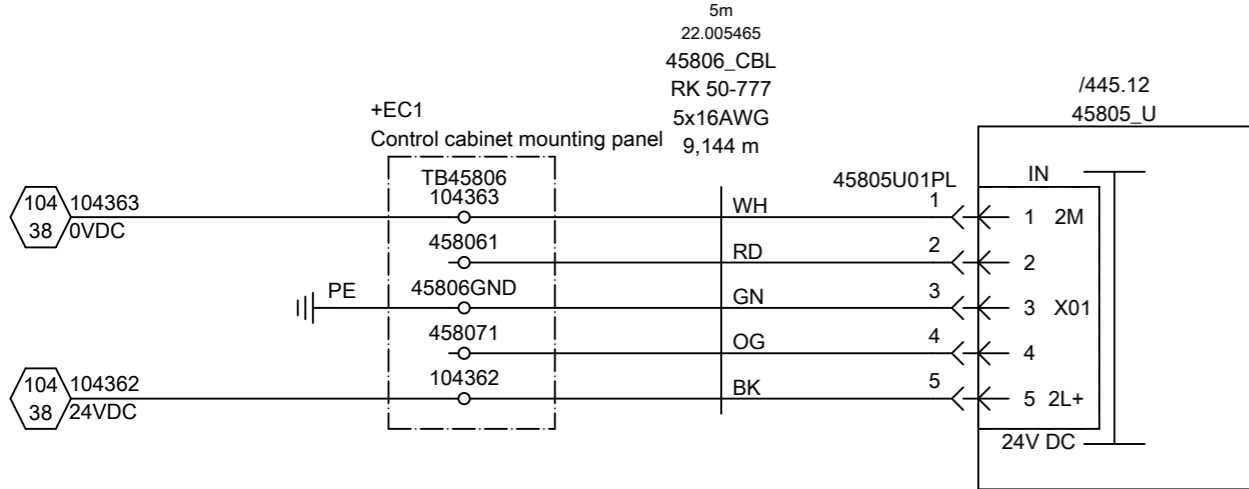
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Reserve
page 453 - 457

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG		Inv.No.	
Reserve page 453 - 457				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 453
=54794				452	Sheet 458

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
I/Q157.0 - I/Q157.7				Inv.No.	
ePLAN P8 2.2.5				Number of sheets 275 Sheet 458	
=54784				453 Sheet 459	

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Reserve
I/Q159.0 - 7

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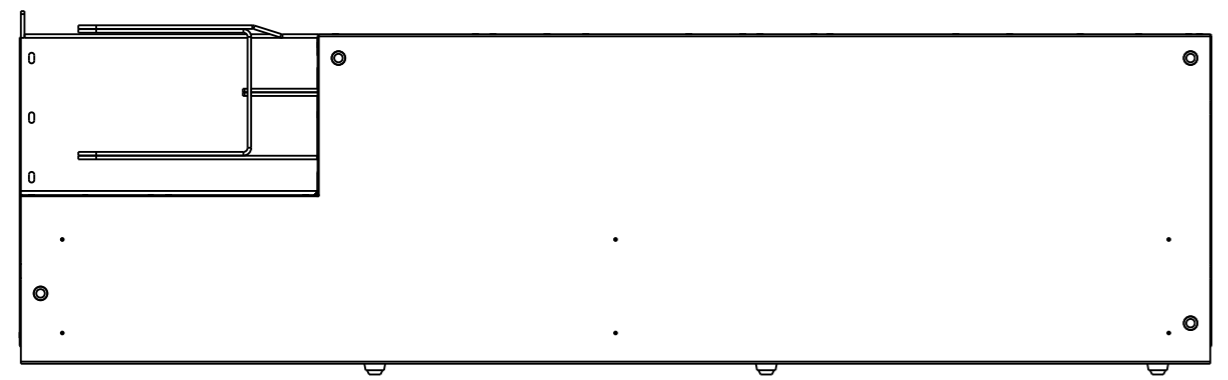
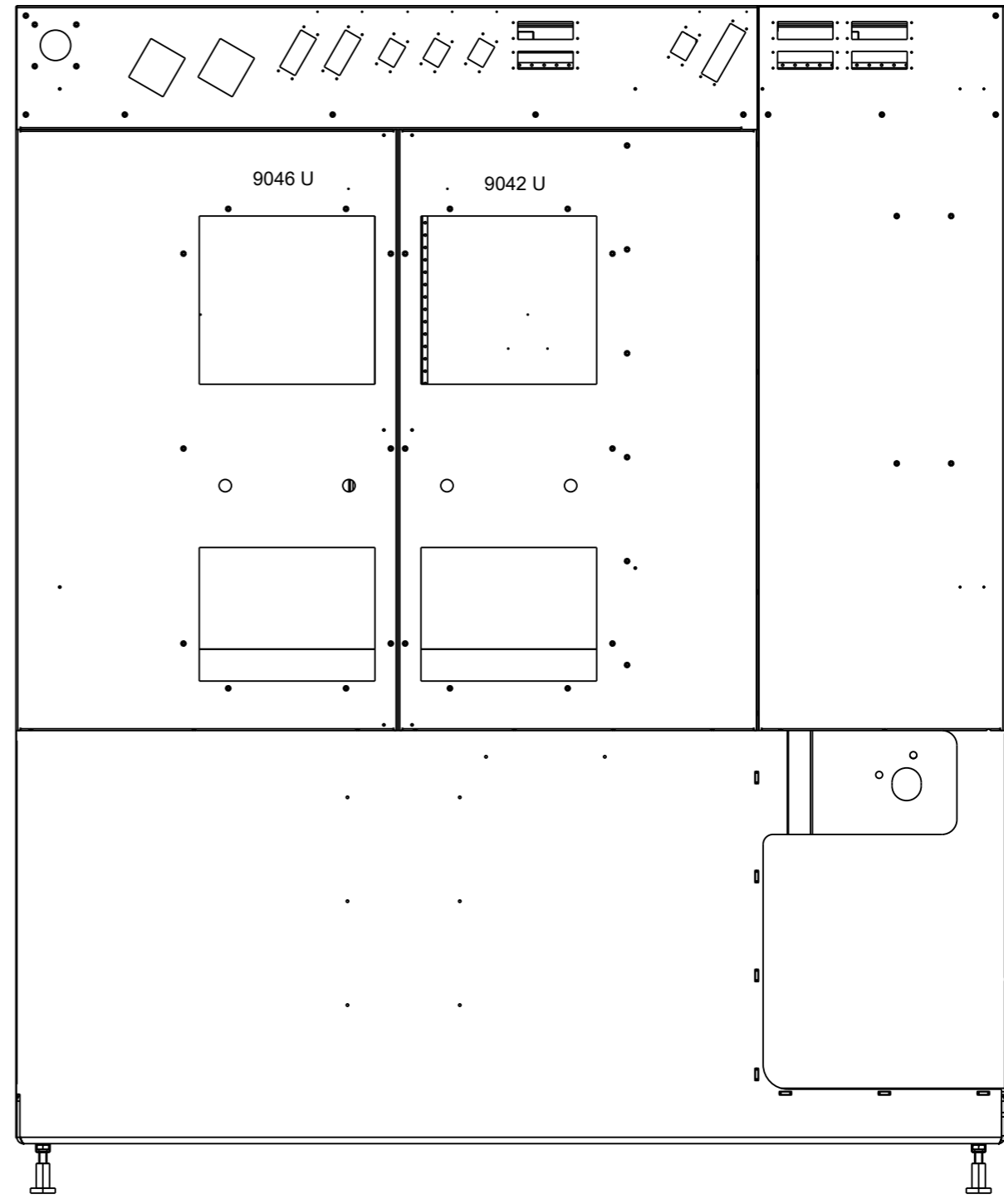
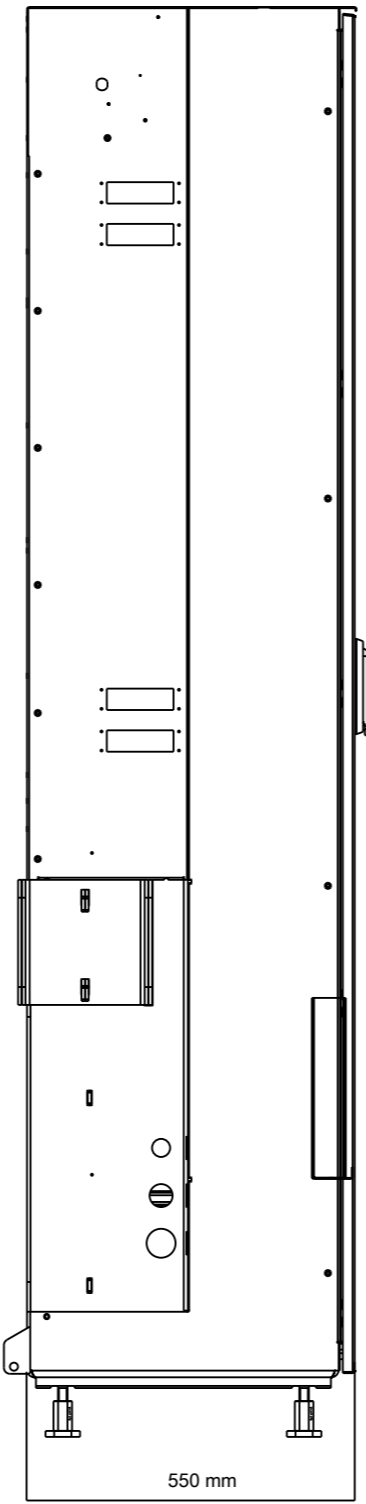
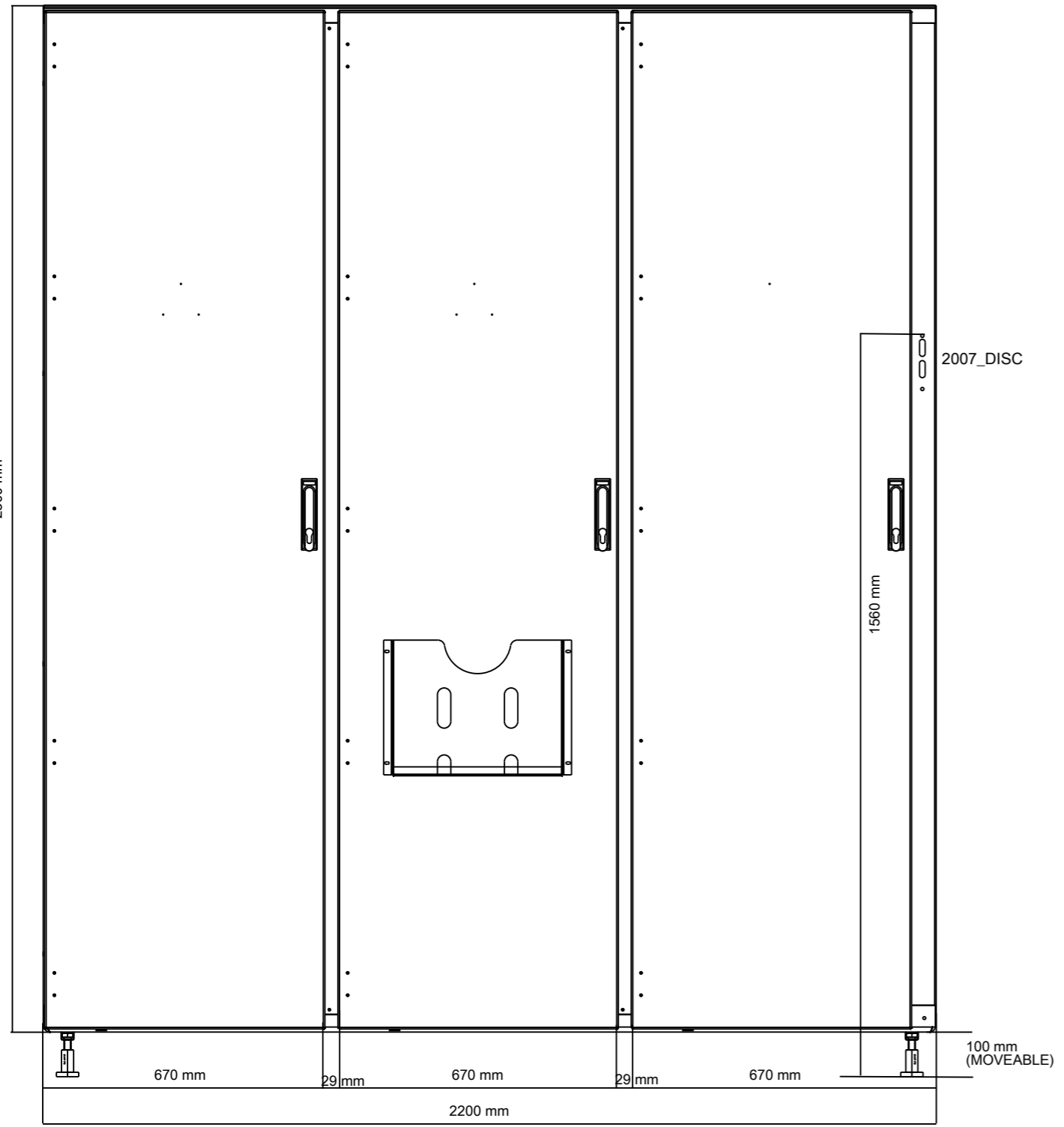
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Reserve
I/Q160.0 - 7

Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	04.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
Reserve I/Q159.0 -I/Q159.7 Reserve I/Q160.0 - I/Q160.7				Inv.No.	
				Number of sheets	275
ePLAN P8 2.2.5				=54784	Sheet
				458	+H/700

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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Control cabinet housing				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 701
=54784				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_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	01.10.2015	AHP3/EWD			
Heat calculation in control cabinet				Inv.No.	
				Number of sheets 275 Sheet 702	
ePLAN P8 2.2.5		=54794		701	Sheet 703

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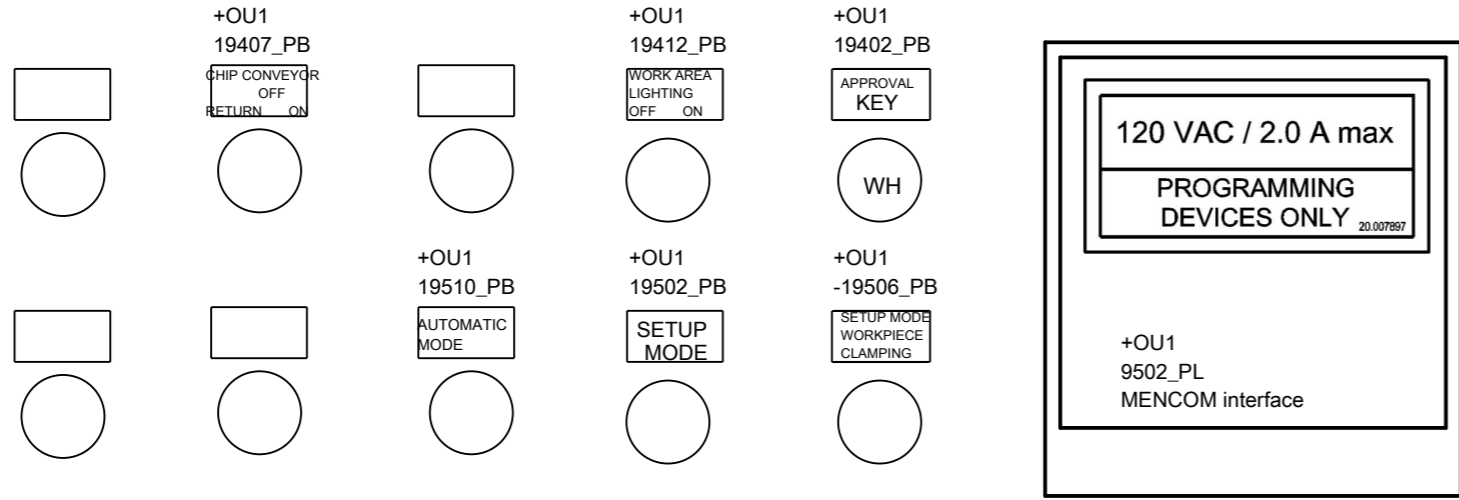
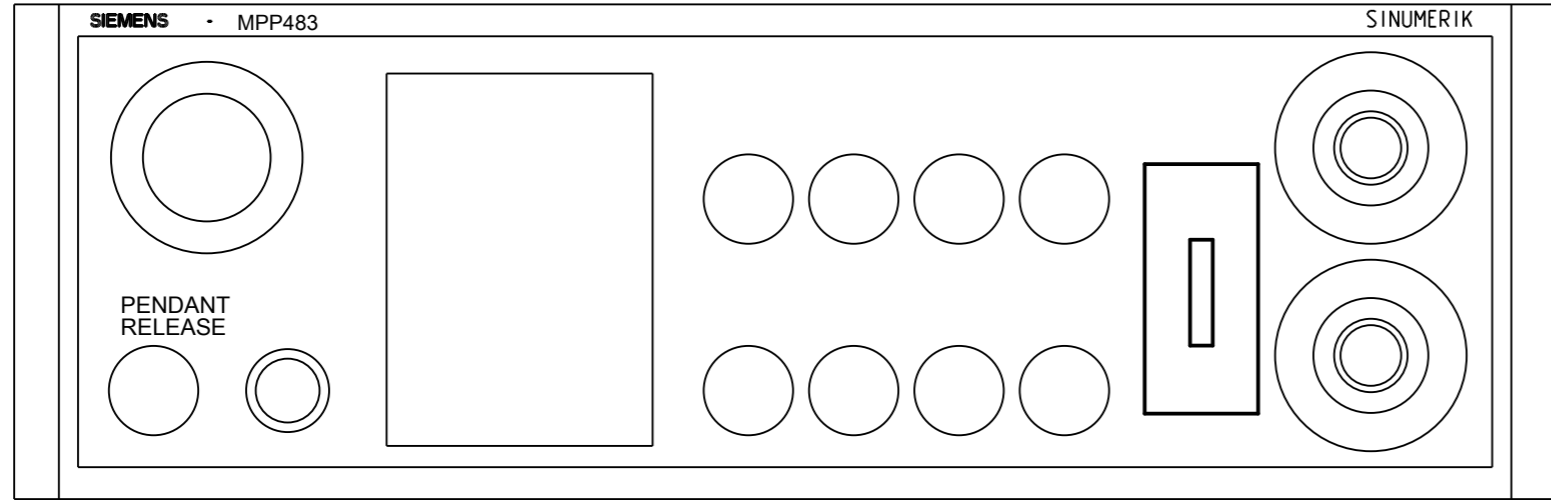
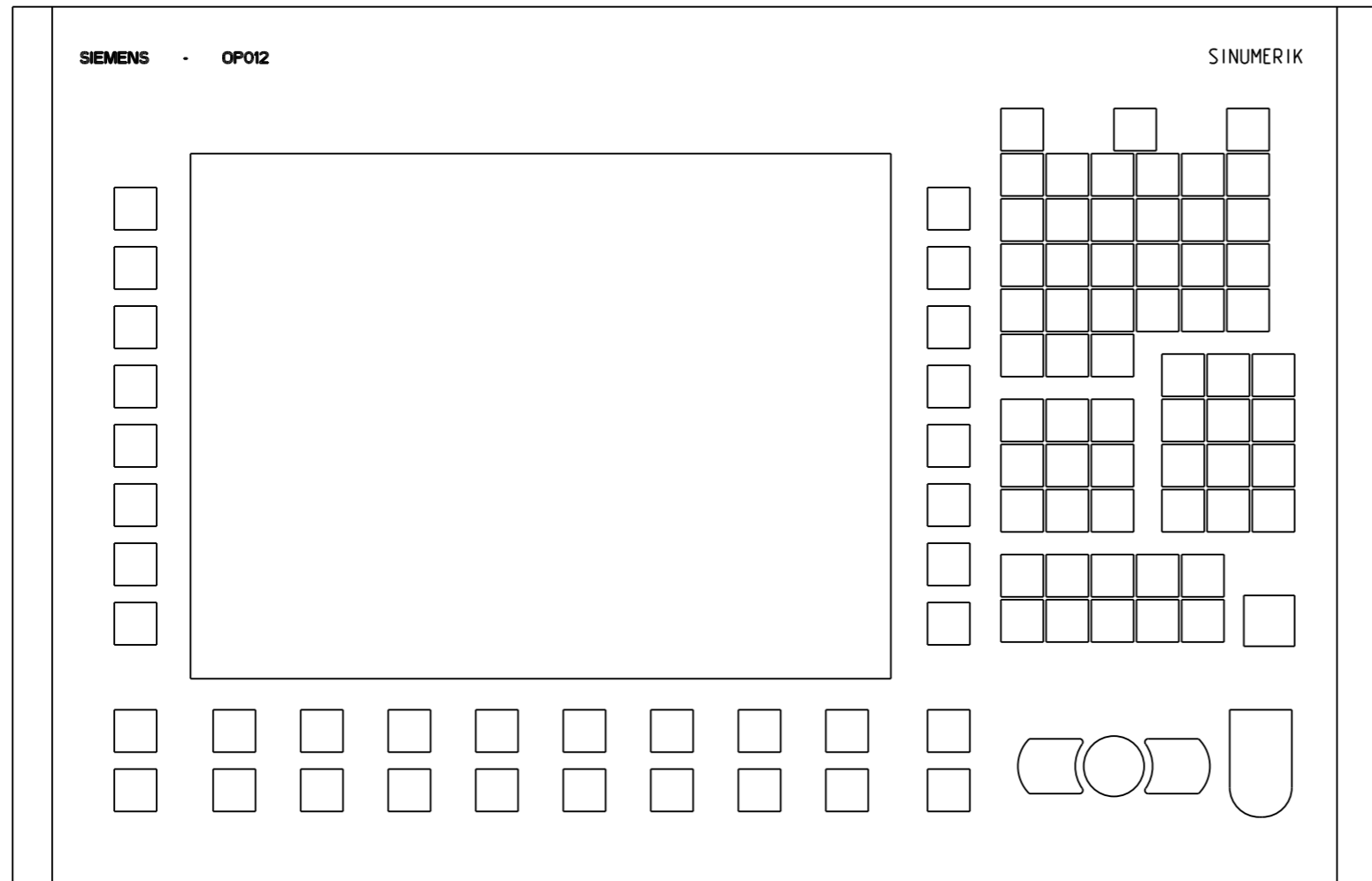
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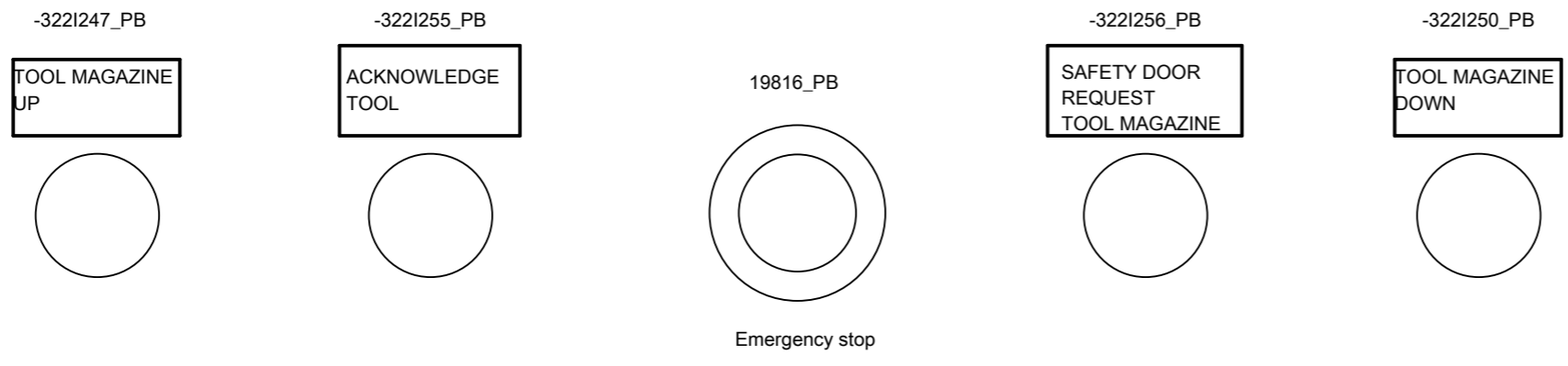
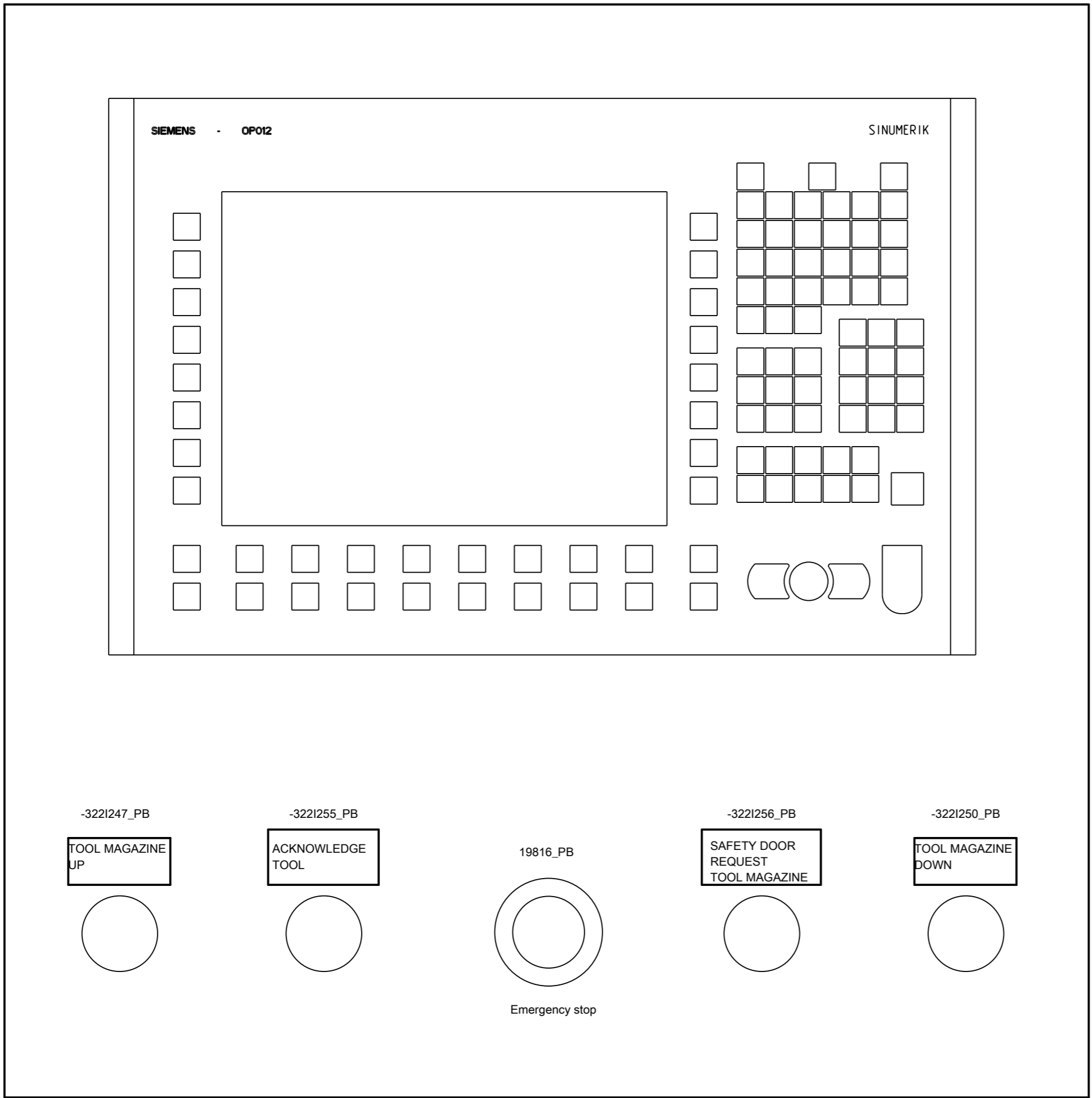
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Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	22.03.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Main operating unit OP12					
ePLAN P8 2.2.5		=54784	702		Sheet 704





Project description P-009084				Project JIC_EP05479400 Machine serial number M54802	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	15.03.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Tool setting station magazine control panel				Number of sheets	
ePLAN P8 2.2.5				275	Sheet 704
=54784				703	Sheet 706

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


	<p>⚠ CAUTION</p> <p>Risk of Electric Shock</p>
	<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>


	<p>⚠ DANGER</p> <p>Shock and Arc Flash Explosion Hazards</p>
	<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>

	<p>⚠ WARNING</p>
	<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>

	<p>⚠ WARNING</p>
	<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

	<p>NOTICE</p> <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																	

	<p>NOTICE</p> <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
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Mounted to the recirculating station and the emulsion mist extraction unit, outside

	<p>⚠ DANGER</p> <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_EP05479400 Machine serial number M54802	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	13.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	22.03.2016	AHP3/RIG			
Labelling of control cabinet housing				Inv.No.	
ePLAN P8 2.2.5				=54794	
Number of sheets				275	Sheet 706
704				Sheet	