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HELLER	
H 10000 MC	
OEM JOB NO.: M54800	YEAR OF MANUFACT.: 2016
PO NO.: XXXXXXXXX	BRASS TAG NO.: BT P????????? OP NO.: OP80.7
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	

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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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		+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
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		+GI		3	Short circuit current rating, evaluation	12.04.2016	AHP3/RIG
		+GI		4	Short circuit current rating, evaluation	12.04.2016	AHP1/HAS
		+GI		5	Short circuit current rating, evaluation	12.04.2016	AHP3/RIG
		+GI		6	Short circuit current rating, evaluation	12.04.2016	AHP3/RIG
		+GI		7	Short circuit current rating, evaluation	12.04.2016	AHP1/HAS
		+GI		8	Reserve page 8-10	12.04.2016	AHP3/RIG
		+GI		11	Machine data sheet	27.06.2016	AHP3/RIG
		+GI		12	Overview fuses and note	12.04.2016	AHP3/RIG
		+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	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	16	Bus topology Profibus	19.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	17	Overview of power circuits	08.08.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	18	Overview of power circuits	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	19	Overview of power circuits	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	20	Supply480V AC main switch	27.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	21	power supply 480V AC (E1)	15.06.2016	AHP3/RIG

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		+EC1 Control cabinet mounting panel	23		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	24		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	25		PE distribution	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	26		PE distribution options	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	27		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	28		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	29		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	30		Auxiliary drives	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	31		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	32		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	33		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	34		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	35		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	36		Auxiliary drives	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	37		Auxiliary drives	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	38		Auxiliary drives	03.06.2016	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	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	58		Safety door drive, workpiece loading station	12.04.2016	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	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	62		Drive circuit X-axis	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	63		Drive circuit Y-axis	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	64		Drive circuit Z1-axis	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	65		Drive circuit Z2-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	66		Drive circuit CT1axis	15.06.2016	AHP3/RIG

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		+EC1 Control cabinet mounting panel	68		Drive circuit B-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	69		Drive circuit CM-axis	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	70		Drive circuit XM-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	71		Reserve Drive circuit YM-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	72		Reserve Drive circuit ZM-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	73		Reserve Drive circuit BM-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	74		Reserve Drive circuit BP-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	75		Reserve Drive circuit BR-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	76		Reserve Drive circuit U-axis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	77		Drive circuit A-axis A1	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	78		Drive circuit A-axis A2	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	79		Drive circuit Voltage Sensing Module	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	80		Reserve Drive circuit, temperature evaluation, F-series torque motor	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	81		Reserve Drive circuit, external encoder evaluation (measuring scales), Fanuc only	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	82		Reserve HPC/PSC gear shifting	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	83		Reserve Monitoring: Reference point / Ext. encoder for gear unit	01.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	84		Brake and lock control	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	85		Unclamp tool in spindle	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	86		Expansion assembly NC	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	87		Drive circuit NC	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	88		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	89		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	90		power supply 120V AC	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	91		Temperature display Rittal reserve 120V AC supply	10.06.2016	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	12.04.2016	AHP1/HAS

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		+EC1 Control cabinet mounting panel	95		MENCOM - interface	09.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	96		Reserve page 96-99	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	100		power supply 24V DC	10.06.2016	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	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	103		power supply 24V DC	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	104		power supply 24V DC	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	105		power supply 24V DC	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	106		power supply 24V DC	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	107		power supply 24V DC options	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	108		Reserve page 108-119	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	120		measuring probe	03.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	121		drill fracture sensing	15.06.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	122		Tool coding	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	123		Tool cleaning device, interface runtime/quantity recording	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	124		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	125		Vibration analysis	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	126		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	127		Control cabinet door lock	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	128		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	129		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	130		Reserve	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	131		work condition emergency stop/work area	19.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	132		work condition workpiece handling	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	133		Reserve operating precondition	12.04.2016	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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		+EC1	Control cabinet mounting panel	136	work condition external loading	19.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	137	work condition external loading	10.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	138	Reserve page 137-139	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	140	Master Relais	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	141	Controls	10.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	142	Controls	10.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	143	Two-handed operation tool magazine	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	144	Reserve page 144 selection	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	145	Volume sensor for pallet clamping check	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	146	Volume sensor, attachment head clamping, interface adapter	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	147	Interface coolant system, interface cooling unit	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	148	Volume sensor, spindle extension	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	149	Reserve Interface for coolant mist extraction unit	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	150	Reserve Interface for coolant mist extraction unit	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	151	Reserve Minimal quantity lubrication interface	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	152	Rack-type magazine measurement	12.04.2016	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	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	156	Safety door of work area/tool setting station, rack-type tool magazine maintenance door	19.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	157	Reserve, Rotary magazine maintenance door, workpiece setting station/rotary magazine safety door closed (CMS)	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	158	Safety door loading top loader	19.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	159	Safety door maintenance area 1 + 2 media supply / maintenance area	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	160	Reserve page 160-163	12.04.2016	AHP3/RIG

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		+EC1	Control cabinet mounting panel	165	Reserve	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	166	Tool drawer 1 + 2, rack-type tool magazine	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	167	Reserve page 167-169	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	170	Interface external loading	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	171	Reserve page 171	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	172	Emergency stop to external loading	19.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	173	Safety door work area/workpiece setting station to external loading	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	174	Loading safety door	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	175	Profibus DP external loading	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	176	Reserve page 176 - 183	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	184	Patchpanel	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	185	Industrial Ethernet	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	186	Profibus DP Field bus coupling	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	187	Profibus DP diagnostics repeater	15.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	188	Reserve Barcode reader, handheld scanner with Ethernet	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	189	Reserve	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	190	Reserve	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	191	OP012/TCU main operating panel	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	192	Machine operating panel, main operating panel	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	193	Machine operating panel, main operating panel	11.06.2016	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	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	196	Hand-held operating unit main operating unit	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	197	Reserve, control panel rear wall media supply	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	198	Tool setting station magazine control panel	03.06.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	199	Tool setting station magazine control panel	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	200	Interface for rack-type magazine handheld operating unit	12.04.2016	AHP3/RIG

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		+EC1	Control cabinet mounting panel	202	Reserve Workpiece setting station operator panel	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	203	Reserve workpiece loading station operating panel preset start	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	204	Workpiece setting station operator panel	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	205	Workpiece setting station operator panel	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	206	Reserve PICK32-X300	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	207	Overview of inputs/outputs control cabinet	18.04.2016	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	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	210	Profibus interface	11.06.2016	OE1/SMC
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		+EC1	Control cabinet mounting panel	220	Power module 24V DC	12.04.2016	AHP1/HAS
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		+EC1	Control cabinet mounting panel	223	INSE21 - INSE24 INSE25 - INSE28	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	224	INSE29 - INSE32	11.06.2016	OE1/SMC
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		+EC1	Control cabinet mounting panel	226	Reserve page 225-230	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	231	OUTSE1 - OUTSE3 OUTSE4 - OUTSE6	10.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	232	OUTSE7 - OUTSE9 OUTSE10 - OUTSE12	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	233	OUTSE13 - OUTSE15 OUTSE16 - OUTSE17	11.06.2016	OE1/SMC
		+EC1	Control cabinet mounting panel	234	OUTSE18 - OUTSE19	18.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	235	OUTSE20 - OUTSE22	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	236	Reserve page 236-240	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	241	Reserve page 241-318	12.04.2016	AHP3/RIG
		+EC1	Control cabinet mounting panel	319	Power module 24V DC	12.04.2016	AHP1/HAS
		+EC1	Control cabinet mounting panel	320	I20.0 - I20.7 I21.0 - I21.7	11.06.2016	OE1/SMC

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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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54800	&E	+EC1 Control cabinet mounting panel	321		Reserve I22.0 - I22.7 I23.0 - I23.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	322		I24.0 - I24.7 I25.0 - I25.7	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	323		I26.0 - I26.7 I27.0 - I27.7	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	324		Reserve I28.0 - I28.7 I29.0 - I29.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	325		I30.0 - I30.7 I31.0 - I31.7	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	326		Reserve I32.0 - I32.7 I33.0 - I33.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	327		Reserve I34.0 - I34.7 I35.0 - I35.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	328		I36.0 - I36.7 I37.0 - I37.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	329		I38.0 - I38.7 Reserve I39.0 - I39.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	330		Reserve I212.0 - I212.7 I213.0 - I213.7	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	331		Reserve I214.0 - I214.7 I215.0 - I215.7	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	332		Reserve I216.0 - I216.7 Reserve I217.0 - I217.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	333		Reserve I218.0 - I218.7 I219.0 - I219.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	334		Reserve I220.0 - I220.7 I221.0 - I221.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	335		Reserve page 335-336	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	337		IW308 - IW310 IW312 - IW314	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	338		Reserve IW372 - IW374 IW376 - IW378	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	339		Reserve IW379 - IW381 IW382 - IW384	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	340		Q40.0 - Q40.7 Q41.0 - Q41.7	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	341		Q42.0 - Q42.7 Reserve Q43.0 - Q43.7	12.04.2016	AHP1/HAS
		+EC1 Control cabinet mounting panel	342		Reserve Q44.0 - Q44.7 Q45.0 - Q45.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	343		Reserve Q46.0 - Q46.7 Q47.0 - Q47.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	344		Reserve Q48.0 - Q48.7 Q49.0 - Q49.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	345		Q50.0 - Q50.7 Q51.0 - Q51.7	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	346		Q52.0 - Q52.7 Q53.0 - Q53.7	10.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	347		Reserve Q54.0 - Q54.7 Q55.0 - Q55.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	348		Reserve Q56.0 - Q56.7 Q57.0 - Q57.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	349		Reserve Q58.0 - Q58.7 Q59.0 - Q59.7	12.04.2016	AHP3/RIG

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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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54800	&E	+EC1 Control cabinet mounting panel	350		Reserve Q212.0 - Q212.7 Q213.0 - Q213.7	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	351		Reserve Q214.0 - Q214.7 Q215.0 - Q215.7	11.06.2016	OE1/SMC
		+EC1 Control cabinet mounting panel	352		Reserve Q216.0 - Q216.7 Q217.0 - Q217.7	12.04.2016	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	12.04.2016	AHP3/RIG
		+EC1 Control cabinet mounting panel	355		Reserve page 355-359	12.04.2016	AHP3/RIG
		+H1 HELP1	360		Overview of inputs/outputs, HELP 1/1	12.04.2016	AHP1/HAS
		+H1 HELP1	361		Q61.0 - Q61.7	03.06.2016	AHP3/RIG
		+H1 HELP1	362		Reserve I/Q62.x I/Q63.x	12.04.2016	AHP1/HAS
		+H1 HELP1	363		I64.0 - I64.7 I65.0 - I65.7	12.04.2016	AHP1/HAS
		+H1 HELP1	364		I66.0 - I66.7 I67.0 - I67.7	12.04.2016	AHP1/HAS
		+H1 HELP1	365		IW300 - IW306 I/Q69.0 - I/Q69.7	12.04.2016	AHP1/HAS
		+H1 HELP1	366		Reserve I/Q70.x	03.06.2016	AHP3/RIG
		+H1 HELP1	367		Q71.0 - Q71.7 I72.0 - I72.7	12.04.2016	AHP1/HAS
		+H1 HELP1	368		Q73.0 - Q73.7 Q74.0 - Q74.7	12.04.2016	AHP1/HAS
		+H1 HELP1	369		Reserve IW120 - IW123 QW120 - QW123	12.04.2016	AHP3/RIG
		+H1 HELP1	370		Reserve Q216.0 - Q216.7	12.04.2016	AHP3/RIG
		+H1 HELP1	371		Reserve page 371-376	12.04.2016	AHP3/RIG
		+H1 HELP1	377		Overview of inputs/outputs, HELP 1/2	12.04.2016	AHP1/HAS
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		+H1 HELP1	379		I79.0 - I79.7 I/Q80.0 - I/Q80.7	12.04.2016	AHP1/HAS
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		+H1 HELP1	382		I/Q85.0 - I/Q85.7 I/Q86.0 - I86.7	12.04.2016	AHP1/HAS
		+H1 HELP1	384		I/Q87.0 - I/Q87.7 I/Q88.0 - I88.7	12.04.2016	AHP1/HAS
		+H1 HELP1	385		I/Q89.0 - I/Q89.7 Q90.0 - Q90.7	12.04.2016	AHP1/HAS
		+H1 HELP1	386		I217.0 - I217.7 I218.0 - I218.7	01.06.2016	AHP3/RIG
		+H1 HELP1	387		I/Q90.0 - I/Q90.7	11.06.2016	OE1/SMC

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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		+H2 HELP2	428		Overview of inputs/outputs, HELP 2	12.04.2016	AHP1/HAS
		+H2 HELP2	429		Reserve I/Q129.0 - I/Q129.7	03.06.2016	AHP3/RIG
		+H2 HELP2	430		Reserve I/Q131.0 - I/Q131.7	12.04.2016	AHP1/HAS
		+H2 HELP2	431		Reserve I/Q132.x I/Q133.0 -I/Q133.7	12.04.2016	AHP3/RIG
		+H2 HELP2	432		Reserve I/Q134.x	12.04.2016	AHP3/RIG
		+H2 HELP2	433		Reserve Q135.0 - Q135.7 Reserve I136.0 - I136.7	12.04.2016	AHP1/HAS
		+H2 HELP2	434		Reserve I/Q137.x I/Q138.x	12.04.2016	AHP1/HAS
		+H2 HELP2	435		Reserve QW324 - QW330 IW332 - IW338	12.04.2016	AHP3/RIG
		+H2 HELP2	436		IW340 - IW346	12.04.2016	AHP1/HAS
		+H2 HELP2	437		Reserve page 437-499	12.04.2016	AHP3/RIG
		+H15 HELP1/5	445		Overview of inputs/outputs, HELP 1/5	12.04.2016	AHP1/HAS
		+H15 HELP1/5	446		Interface 44601_U	11.06.2016	OE1/SMC
		+H15 HELP1/5	447		INSExxx OUTSE31 - OUTSE34	12.04.2016	AHP1/HAS
		+H15 HELP1/5	448		INSExxx OUTSE35 - OUTSE38	12.04.2016	AHP1/HAS
		+H15 HELP1/5	449		INSExxx OUTSE39 - OUTSE42	12.04.2016	AHP1/HAS
		+H15 HELP1/5	450		INSExxx OUTSE43 - OUTSE46	12.04.2016	AHP1/HAS
		+H15 HELP1/5	451		Reserve page 451	12.04.2016	AHP3/RIG
		+H15 HELP1/5	452		I155.0 - I155.7	12.04.2016	AHP1/HAS
		+H15 HELP1/5	453		Reserve page 453 - 457	12.04.2016	AHP3/RIG
		+H15 HELP1/5	458		I/Q157.0 - I/Q157.7	11.06.2016	OE1/SMC
		+H15 HELP1/5	459		Reserve I/Q159.0 -I/Q159.7 Reserve I/Q160.0 - I/Q160.7	12.04.2016	AHP3/RIG
		+H	700		Mounting panel structure	13.06.2016	OE1/SMC
		+H	701		Control cabinet housing	12.04.2016	AHP3/RIG
		+H	702		Heat calculation in control cabinet	12.04.2016	AHP3/RIG
		+H	703		Main operating unit OP12	12.04.2016	AHP3/RIG
		+H	704		Tool setting station magazine control panel	12.04.2016	AHP3/RIG
		+H	706		Labelling of control cabinet housing	12.04.2016	AHP3/RIG

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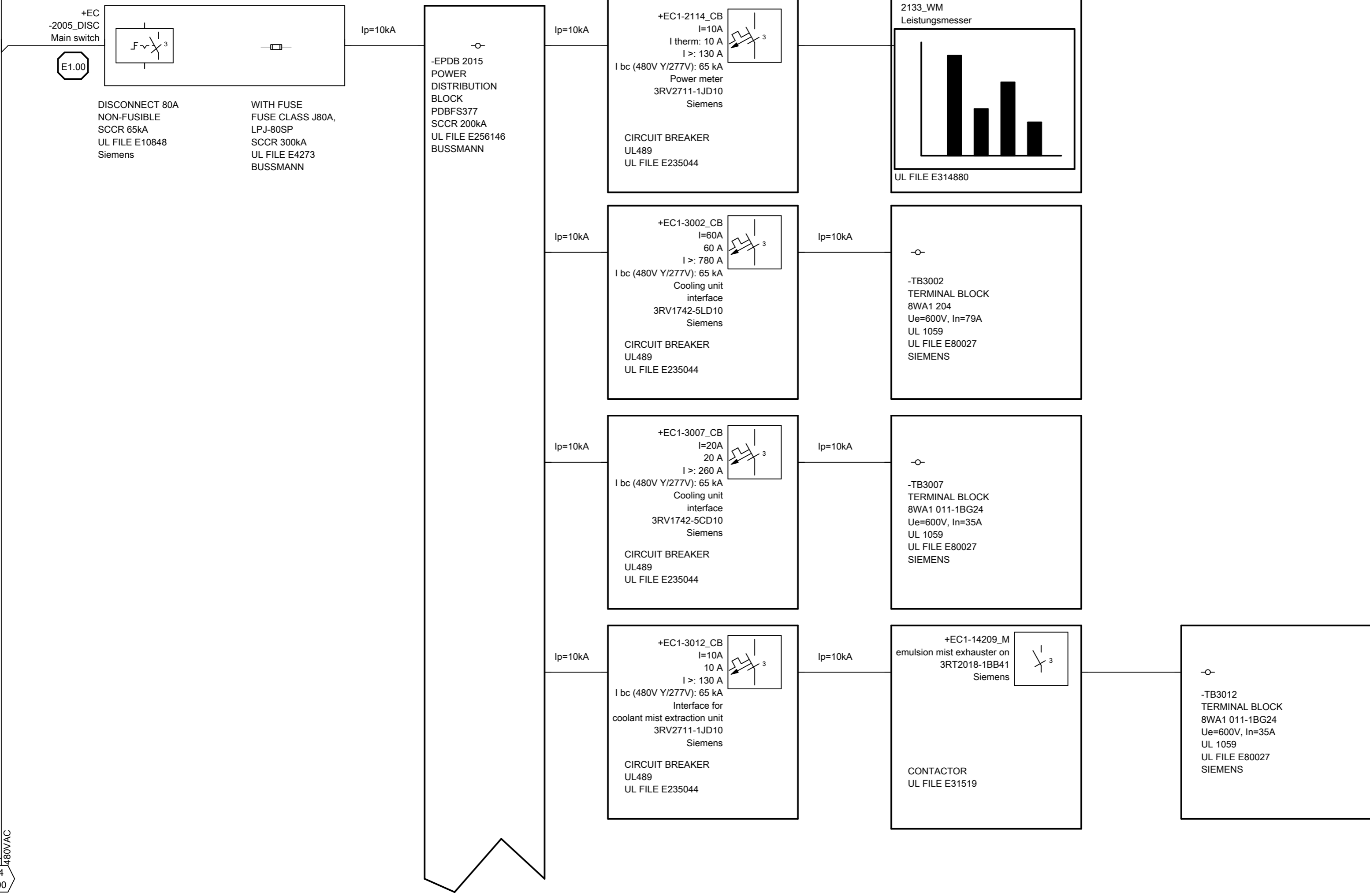
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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DRAWN	10.08.2016	AHP1/HAS			
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FROM SB4.3.1
 A POWER TRANSFORMER WITH AN ISOLATED SECONDARY 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 IRCUIT CURRENT ON THE SECONDARY CIRCUIT IS LIMITED TO 2kA.

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

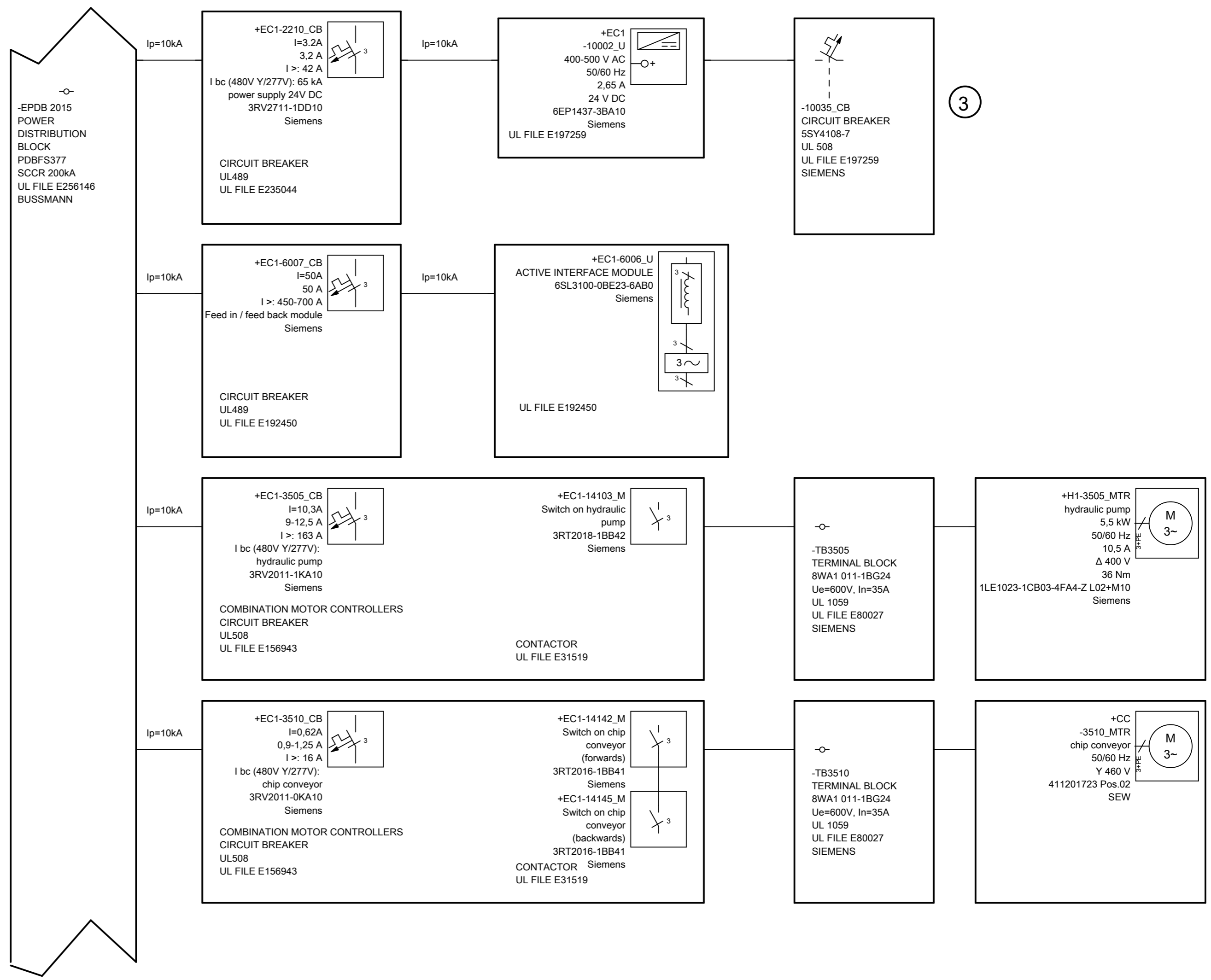
I_p =PEAK LET THROUGHOUT CURRENT



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3ph 480VAC
 4 00

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
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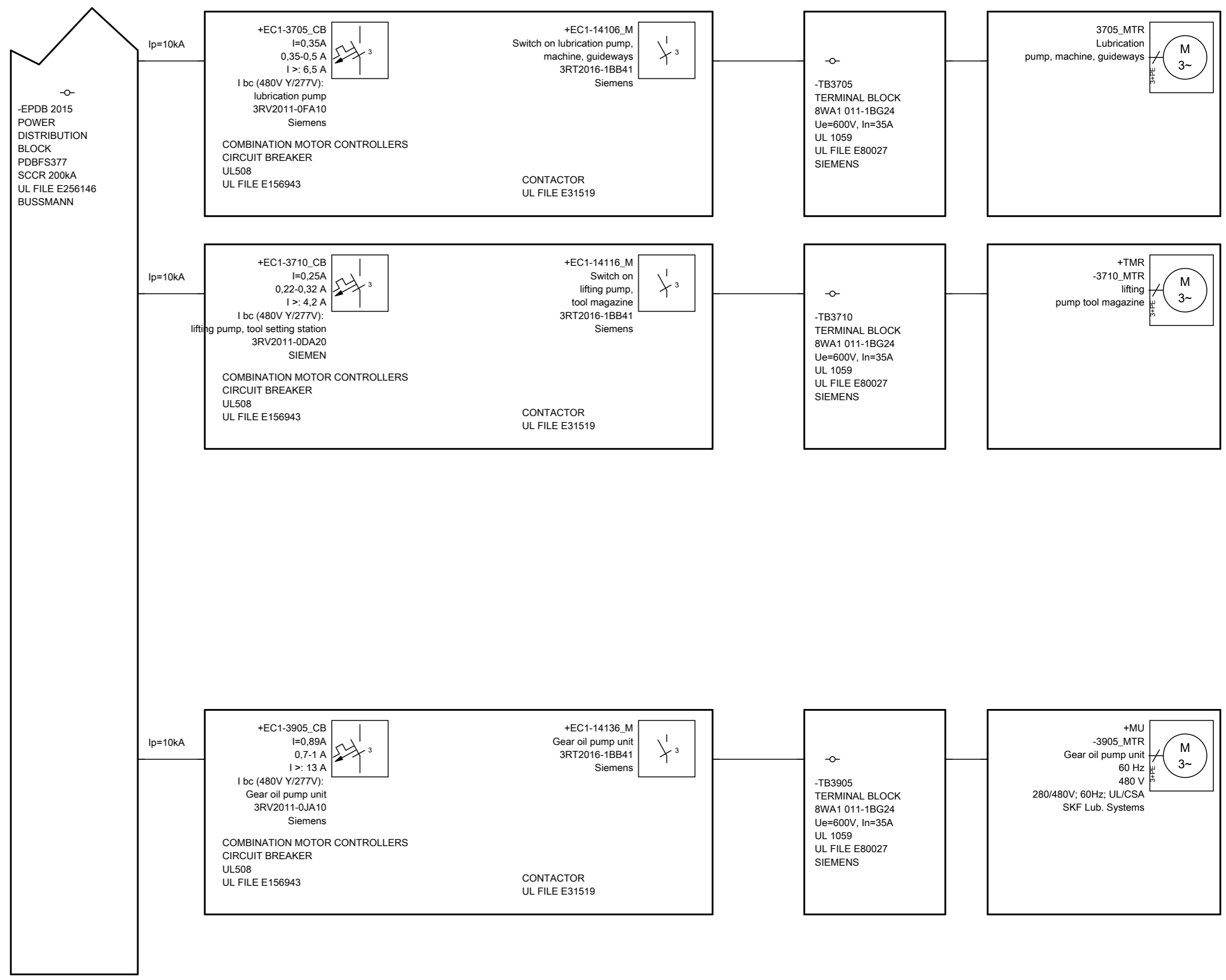
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FROM SB4.2
 SHORT CIRCUIT CURRENT RATINGS OF INDIVIDUAL POWER CIRCUITS COMPONENTS.
 SB4.2.1 ALL POWER CIRCUIT COMPONENTS INCLUDING DISCONNECT SWITCHES, BRANCH CIRCUIT PROTECTIVE DEVICES, BRANCH CIRCUIT FUSE HOLDERS, LOAD CONTROLLERS, MOTOR OVERLOAD RELAYS, TERMINAL BLOCKS AND BUS BARS SHALL HAVE A SHORT CIRCUIT CURRENT RATING EXPRESSES IN AMPERES OR KILOAMPERES AND VOLTAGE.

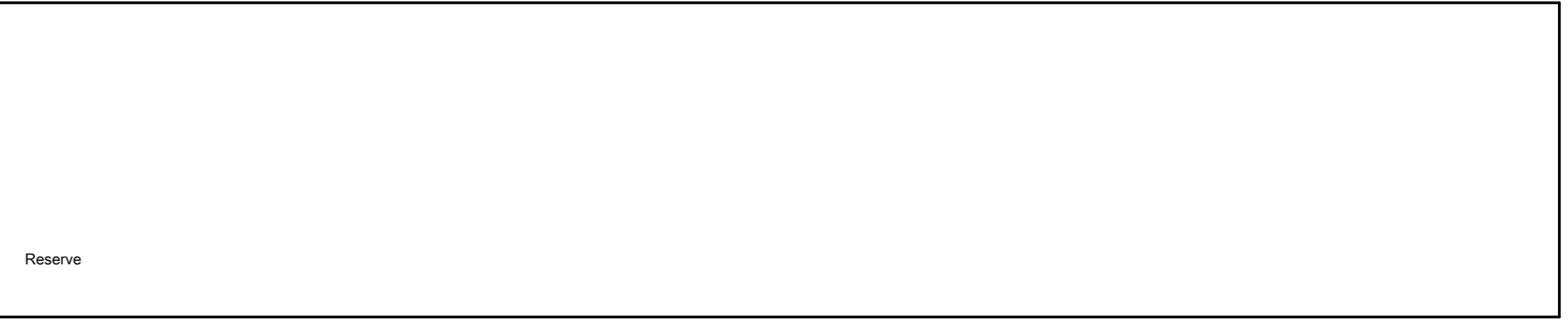
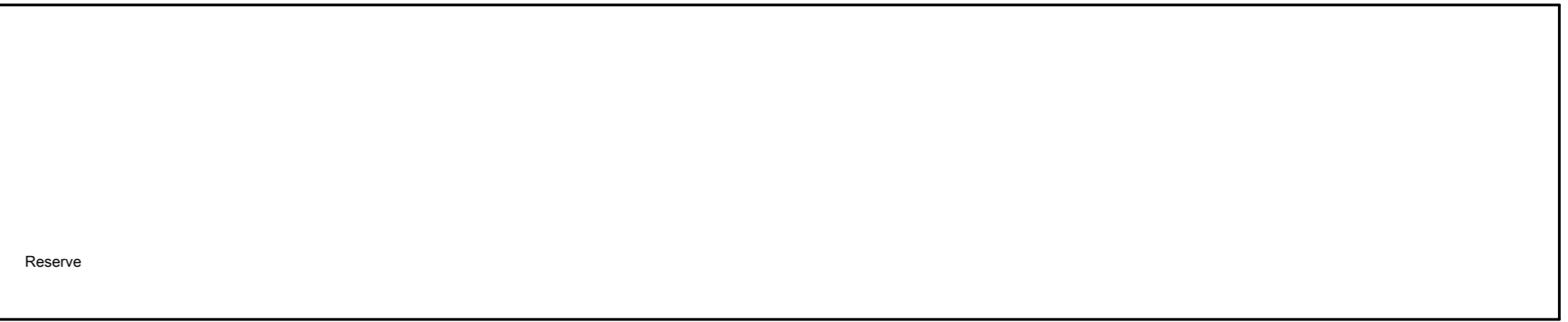
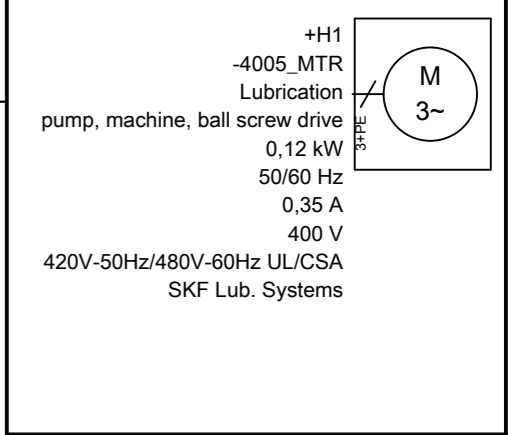
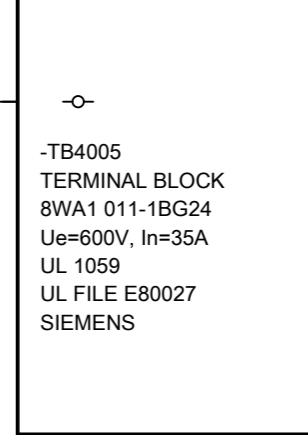
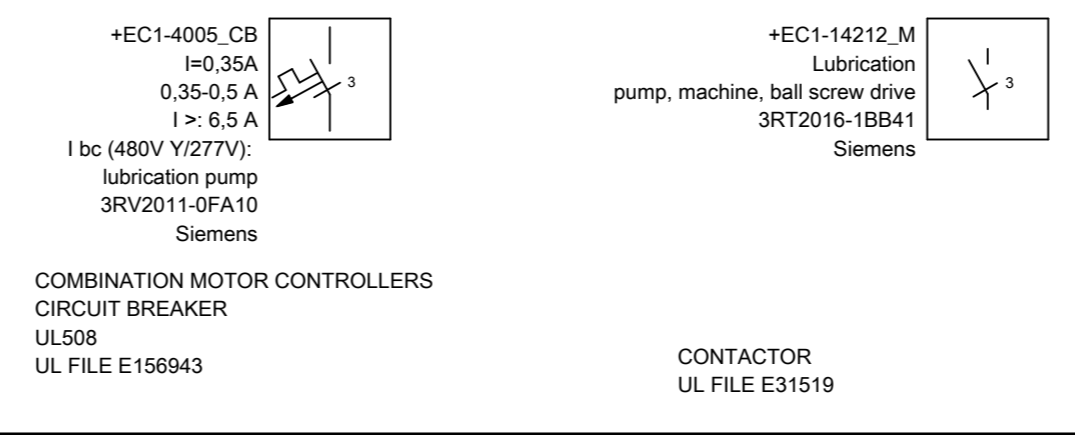
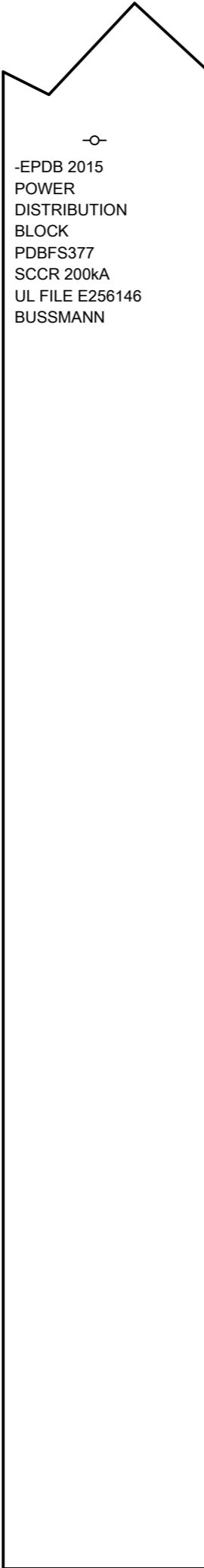
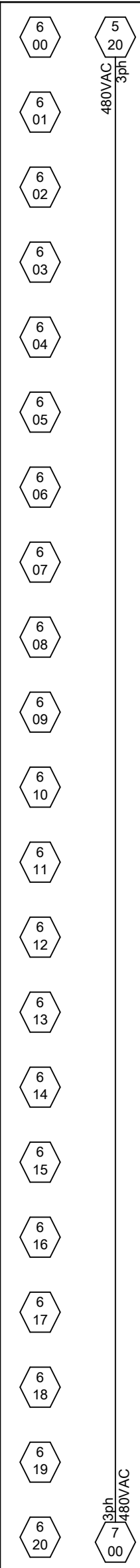
EXCEPTION: POWER TRANSFORMER, REACTORS, CURRENT TRANSFORMERS, DRY-TYPE CAPACITORS, RESISTORS, VARISTORS AND VOLTMETERS ARE NOT TO HAVE A SHORT CIRCUIT CURRENT RATING.

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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3ph 480VAC
6 00



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC				
DRAWN	16.07.2015	AHP3/RIG					
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/RIG			
Short circuit current rating, evaluation				Inv.No.	
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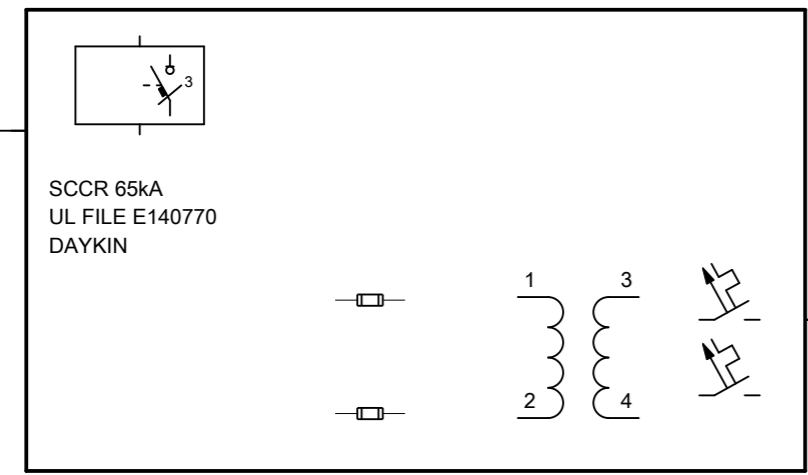
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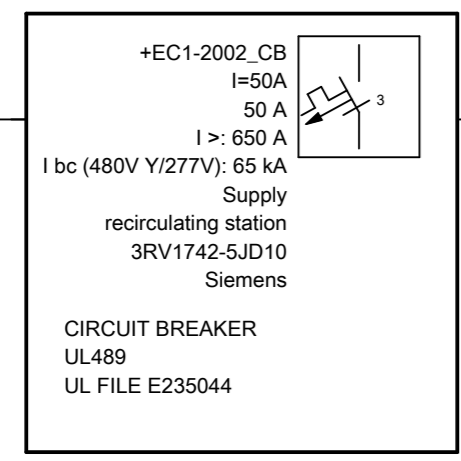
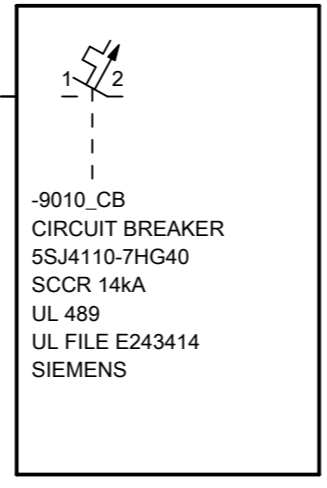
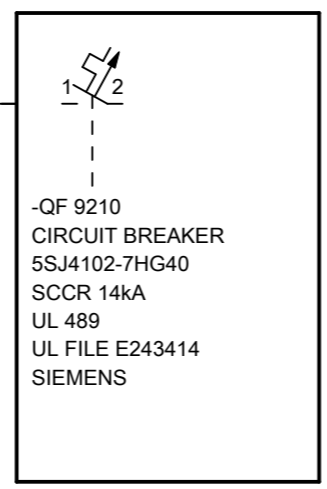
E2.00

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



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.

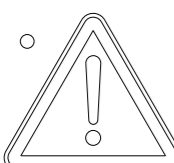
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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Machine data sheet



WARNING

Qualified Persons Only

Arc Flash and Shock Hazard
Appropriate PPE Required

When exposed to energized components

NFPA 70E Hazard Level 0
8 INCH Flash Protection Boundary

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

20.007 647

workpiece	6-Cylinderblock	<h1>HELLER</h1>
OP-Folge	OP80.7	
Control	SIEMENS 840D sl	

HELLER

Gebr. Heller
Maschinenfabrik GmbH
72622 Nürtingen - Germany

Type	H 10000 MC
Control	SIEMENS 840D_sl
order number. Order-No.	54800
Year of construction	2016
Voltage	3- 480Y/277, 4w V
Frequency:	60 Hz
Rated current	77 A
Nominal 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	EP05480000
Schutzart Schaltschrankgehäuse Enclosure Type	NEMA 12

00.945034

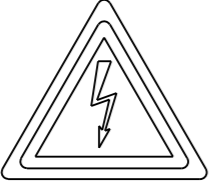
Plate basic language EN

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

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	17.11.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Machine data sheet					
ePLAN P8 2.2.5		=54800	8		Page 12

Overview fuses and reference text

e.g.

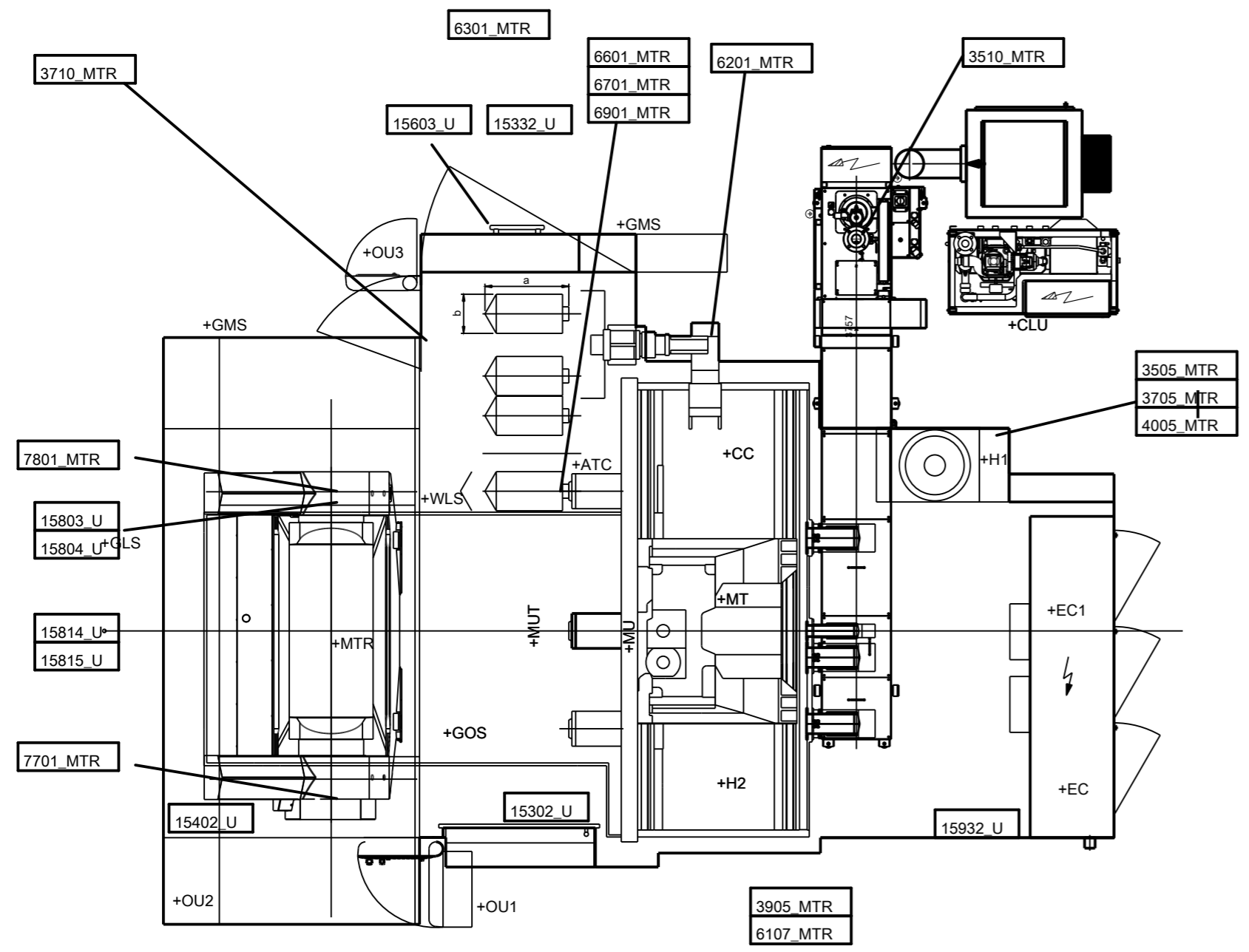
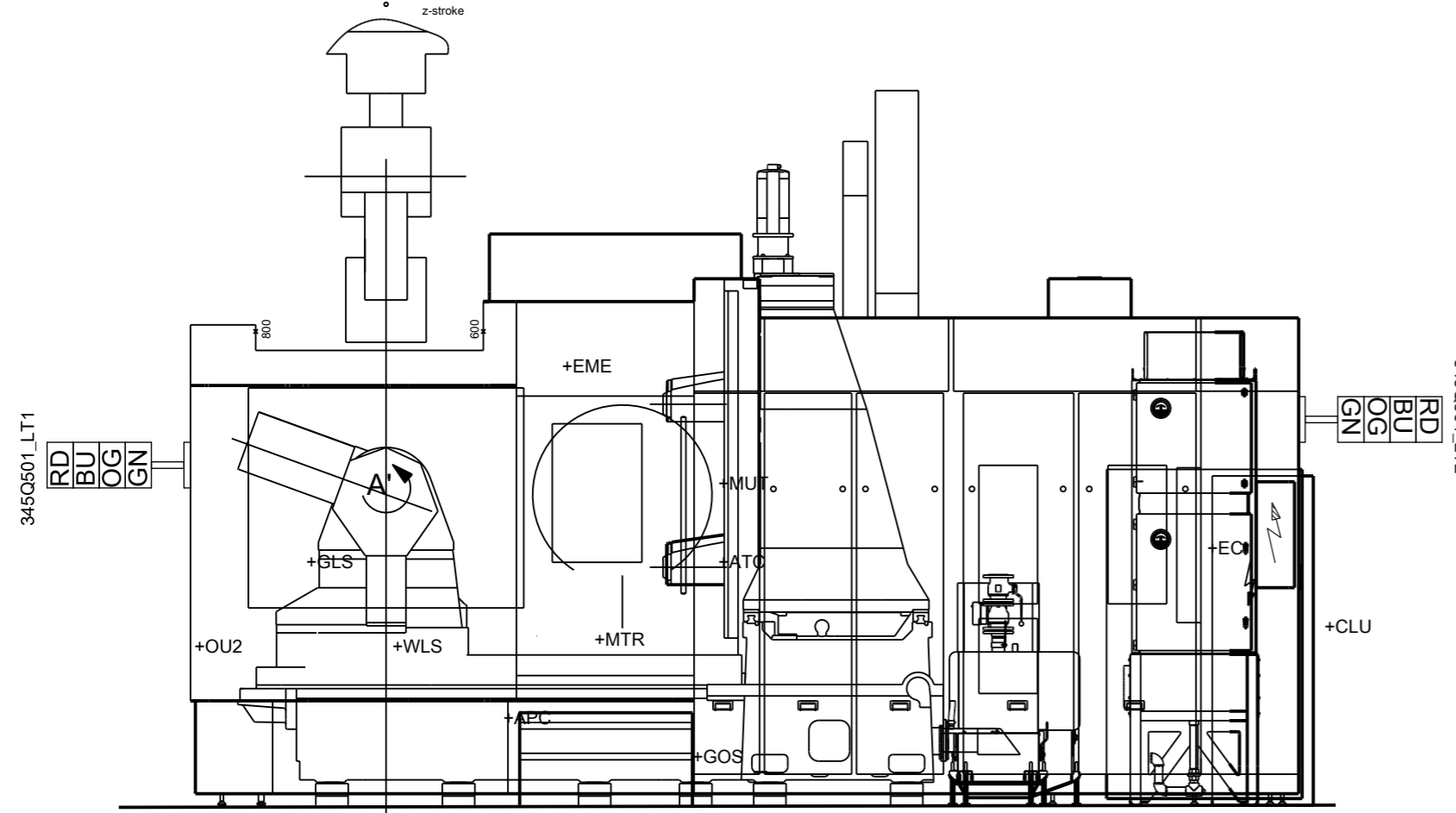
FUSES		 CAUTION Replace Fuses With Same Type and Rating		
LOCATION	TYPE	CLASS	SIZE (A)	QTY
2009_FU	LPJ-80SP Bussmann	J	80	3

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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 pages 275 Page 12	
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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
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
6901_MTR	CM-axis
7701_MTR	A1-axis
7801_MTR	A2-axis

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



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

HELP1	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

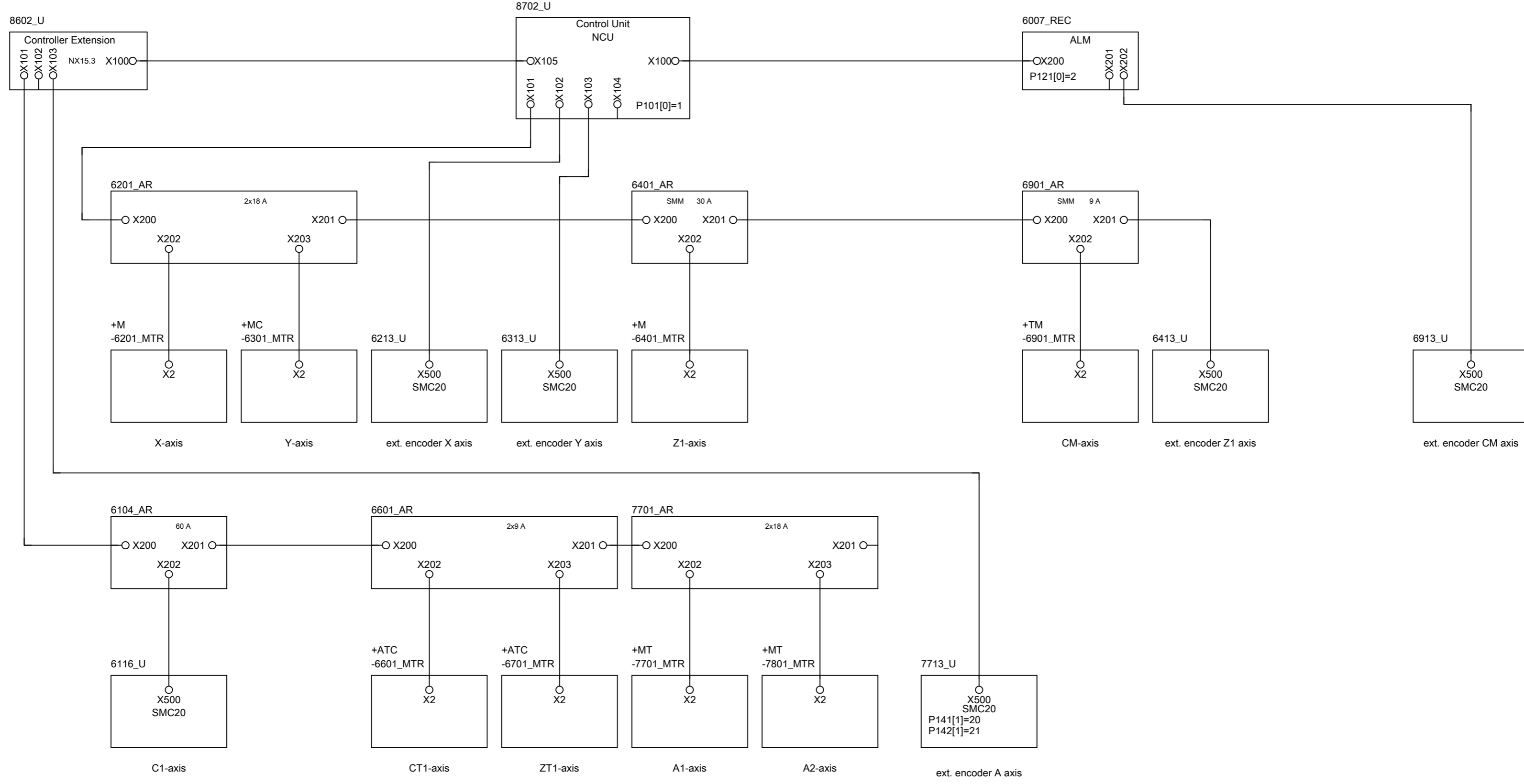
HELP1/2	Address:
37801_U	Interface-Modul
37831_U	Q78.0 - .7
37901_U	I79.0 - .7
38005_U	Powermodul
38131_U	I84.0 - .7
38505_U	Powermodul
38531_U	Q78.0 - .7
38601_U	I217.0 - .7
38631_U	I218.0 - .7
38705_U	Powermodul
38731_U	Q/193.0 - .7

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-009081				Project JIC_EP05480000 Machine serial number M54807	
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				Number of pages 275 Page 13	
=54800				Page +EC1/14	

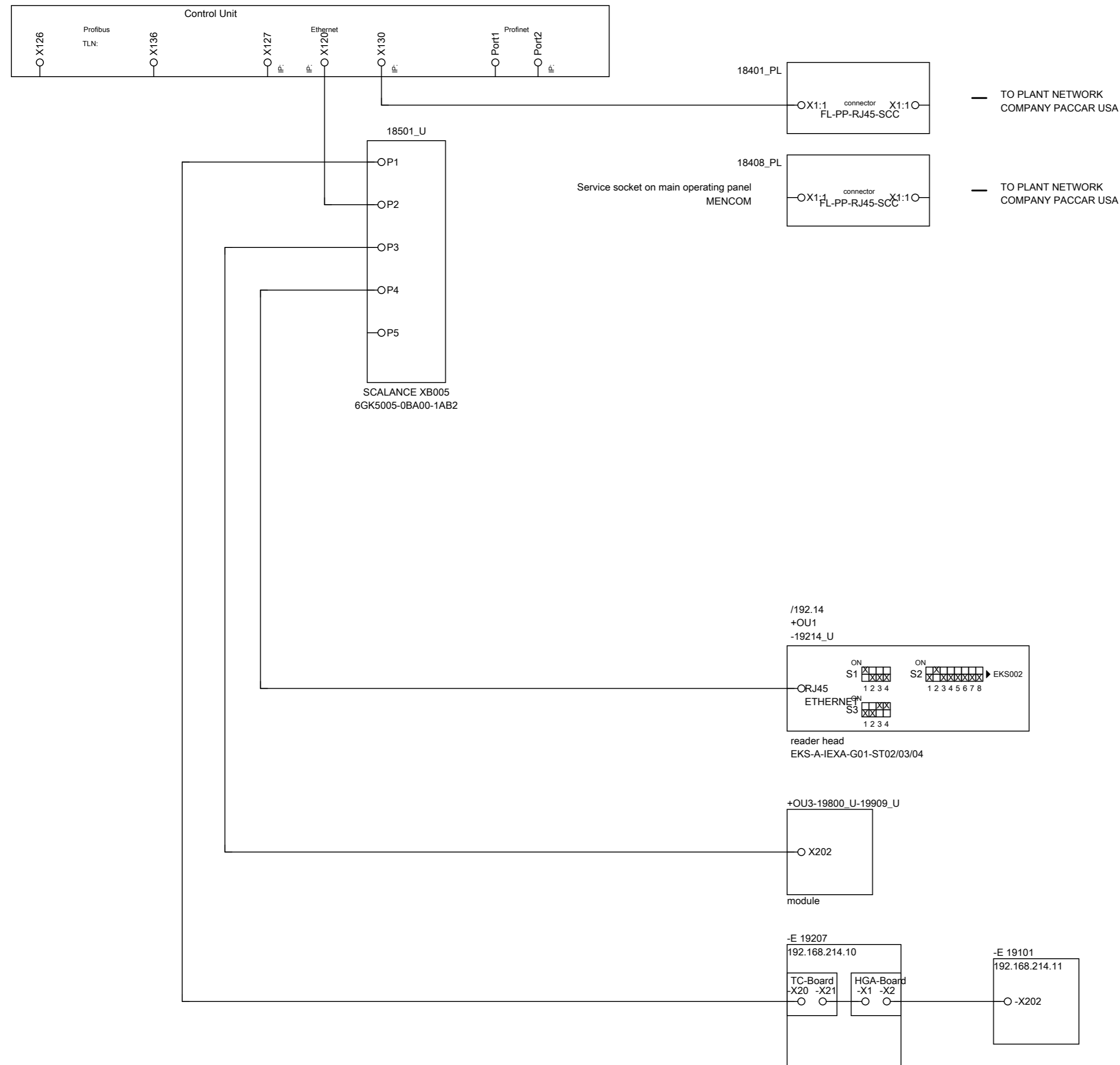
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	18.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology DRIVE-CLiQ				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Page 14	
=54800				+GI/13 Page 15	

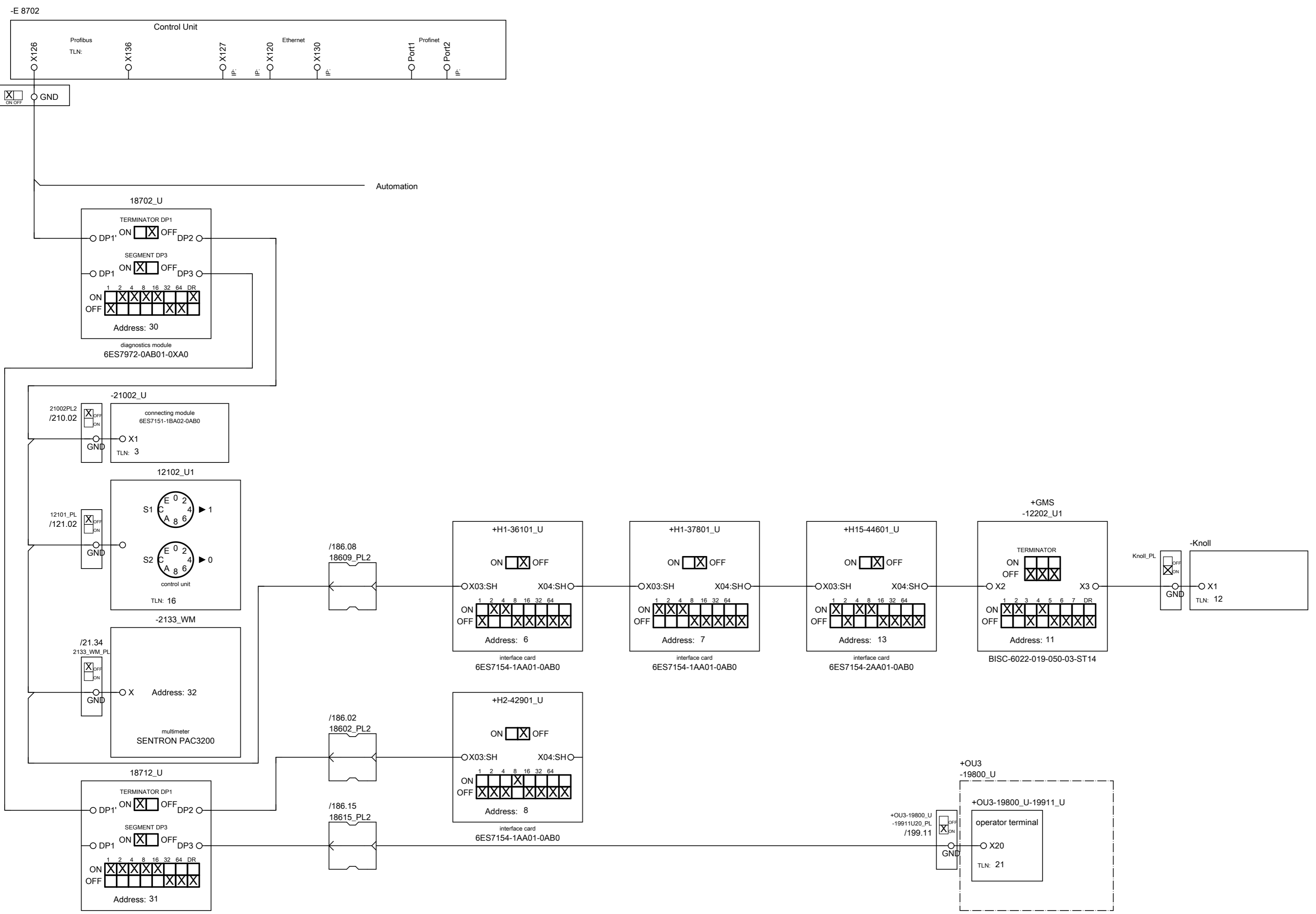
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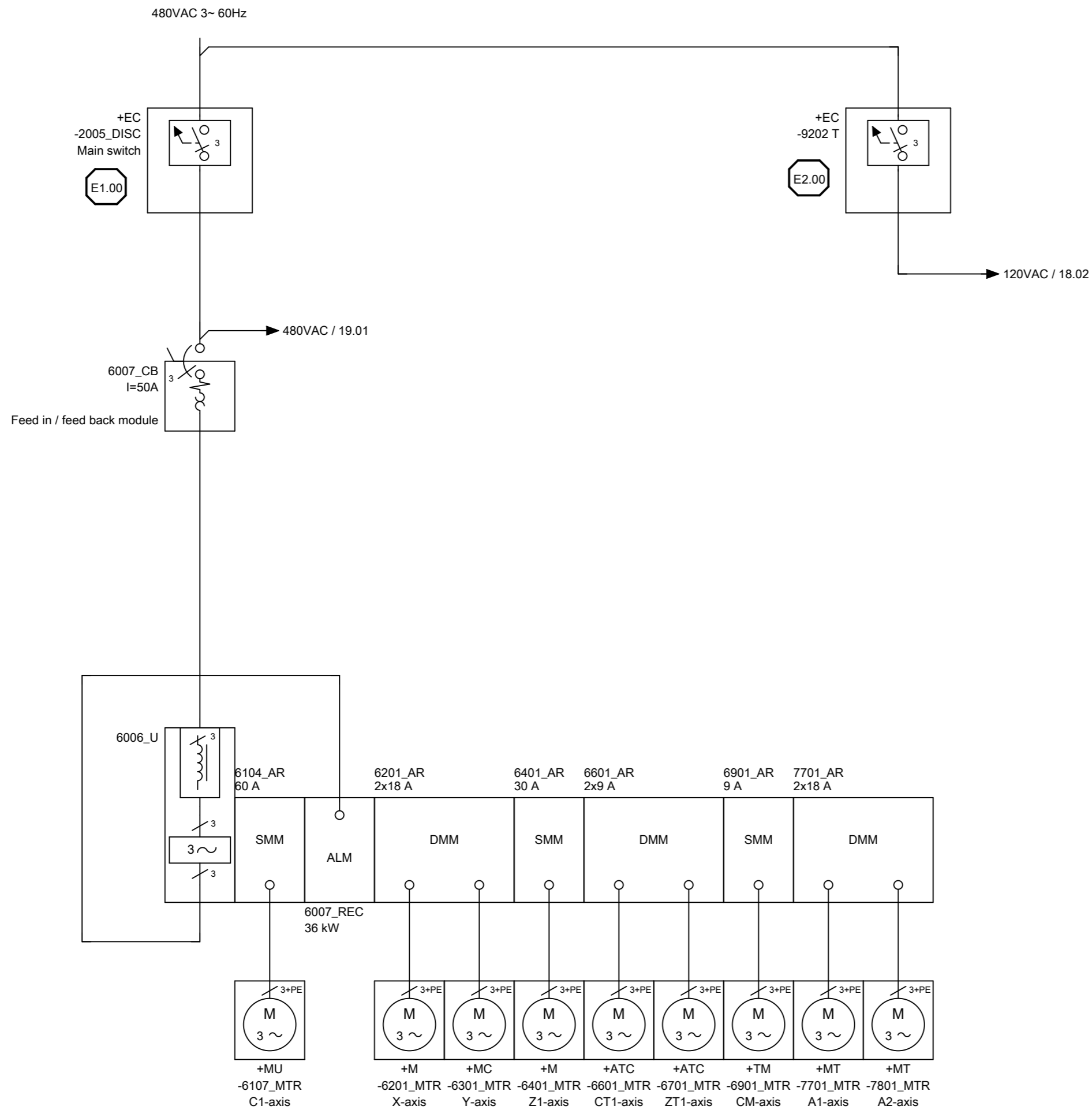


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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology Ethernet				Inv.No.	
Number of pages				275	Page 15
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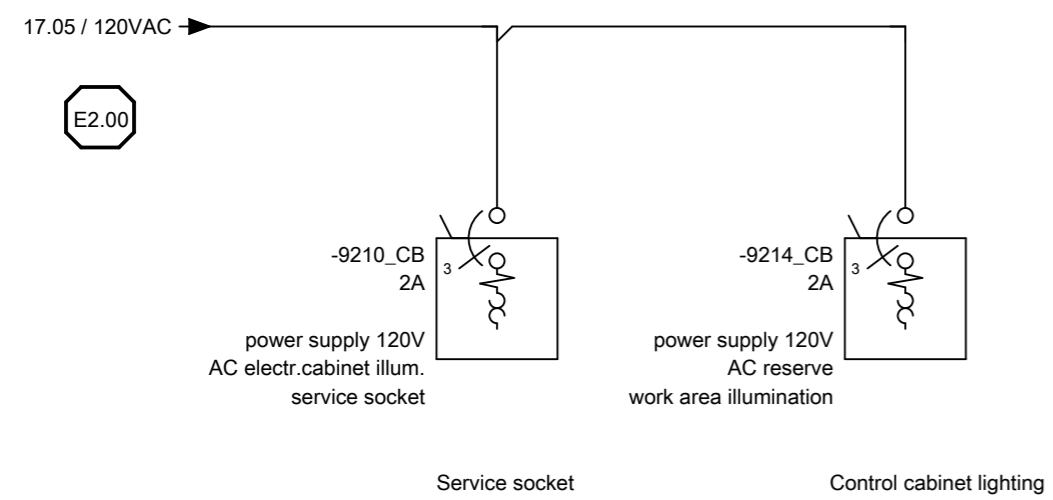


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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.09.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Bus topology Profibus				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Page 16	
=54800				Page 17	



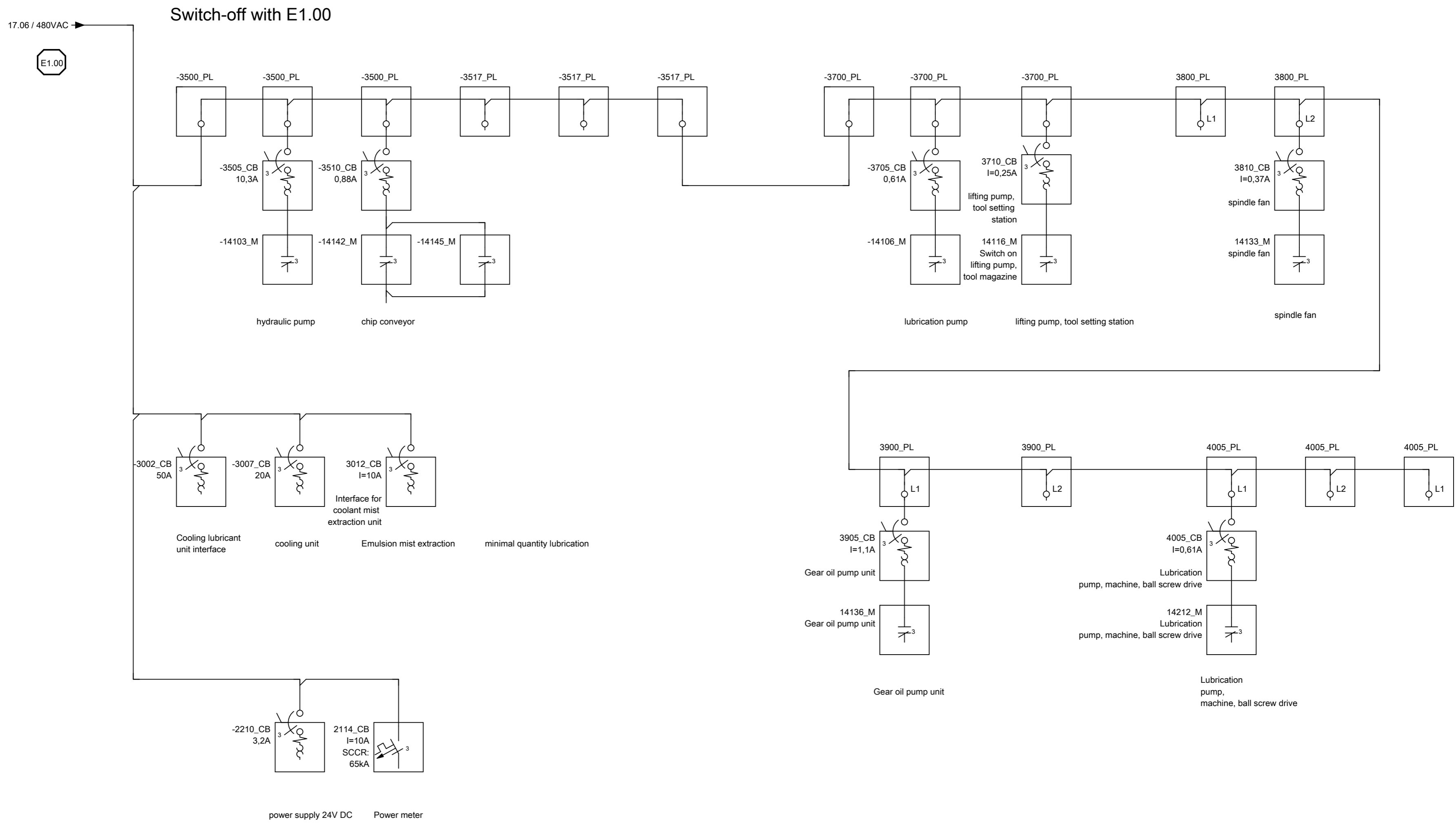
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
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Switch-off with E2.00

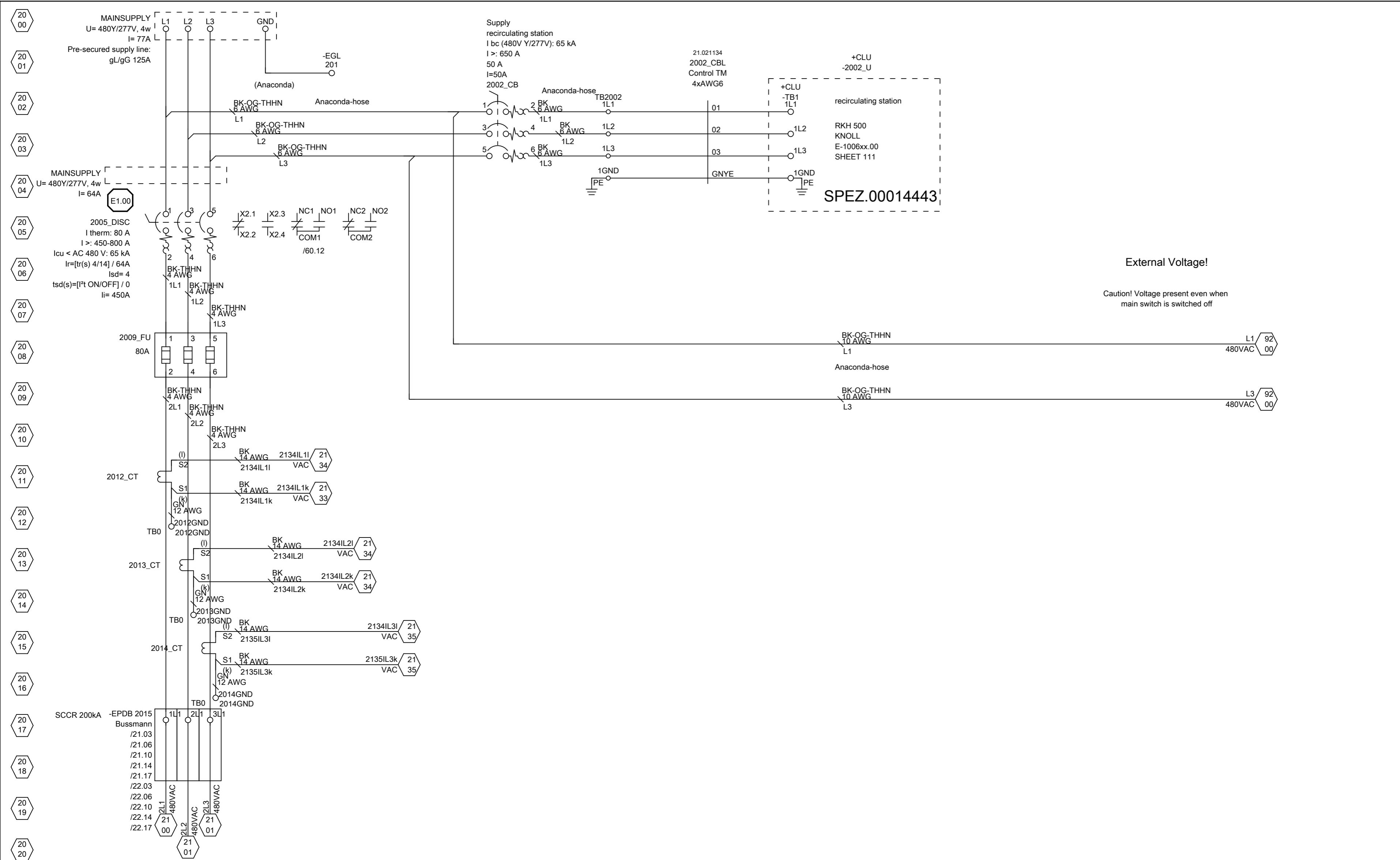


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Overview of power circuits						
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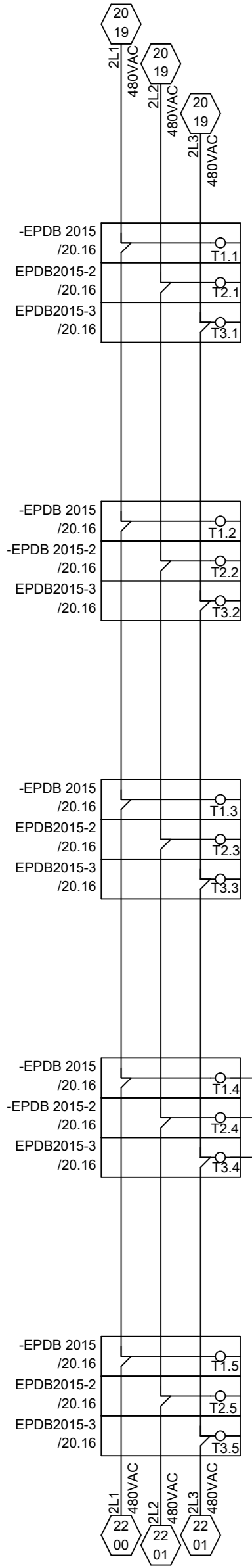


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DRAWN	26.05.2015	AHP3/GMI			
Overview of power circuits				Inv.No.	
ePLAN P8 2.2.5				=54800	
Number of pages				275	Page 19
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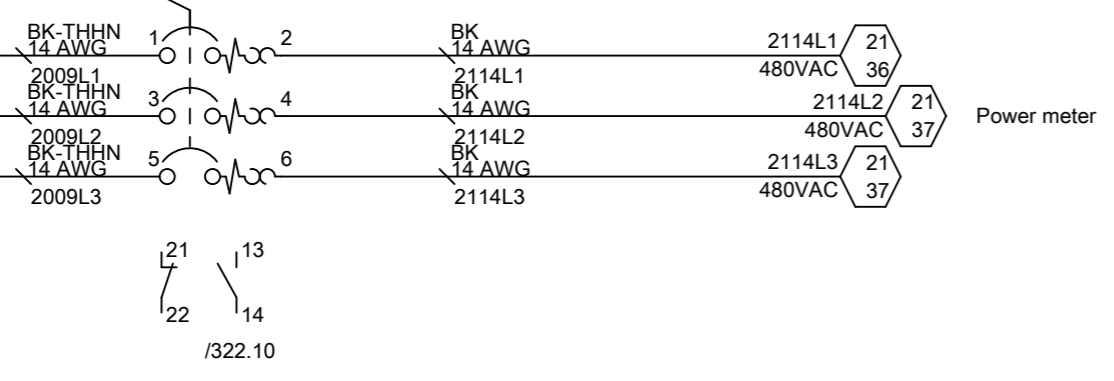


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Supply480V AC main switch				Inv.No.	
Number of pages				275	Page 20
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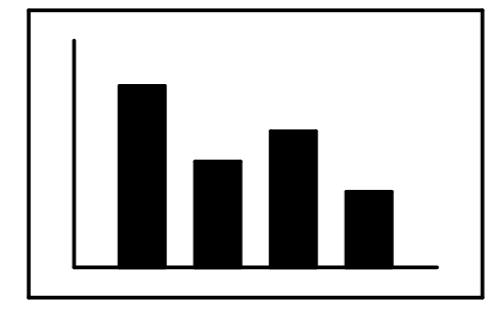
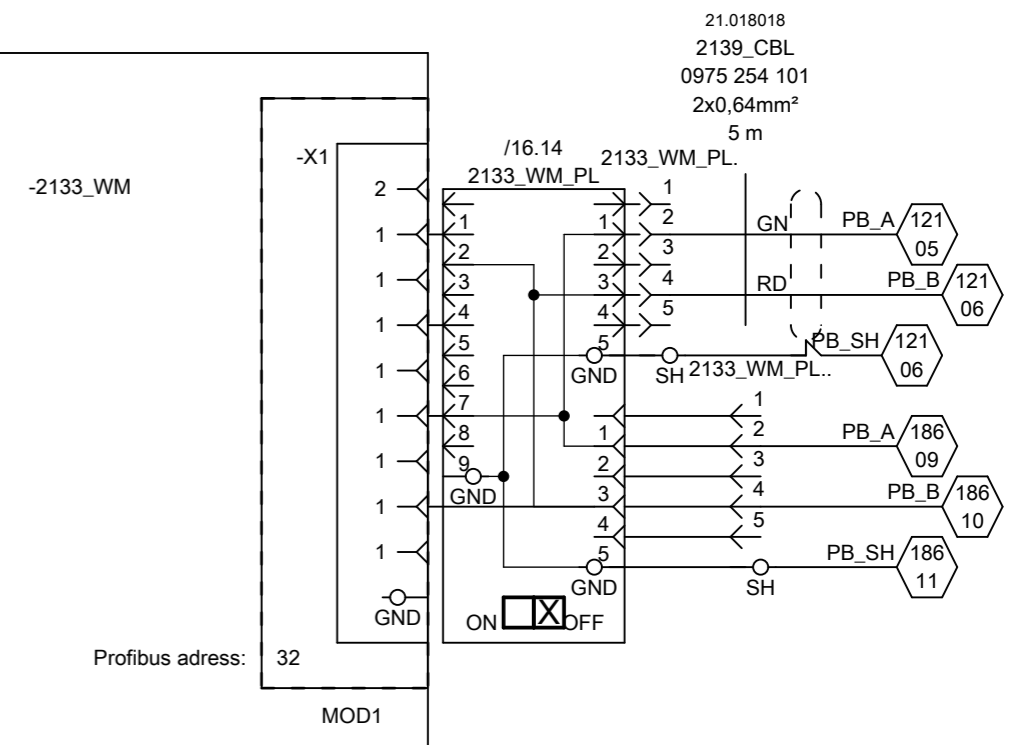
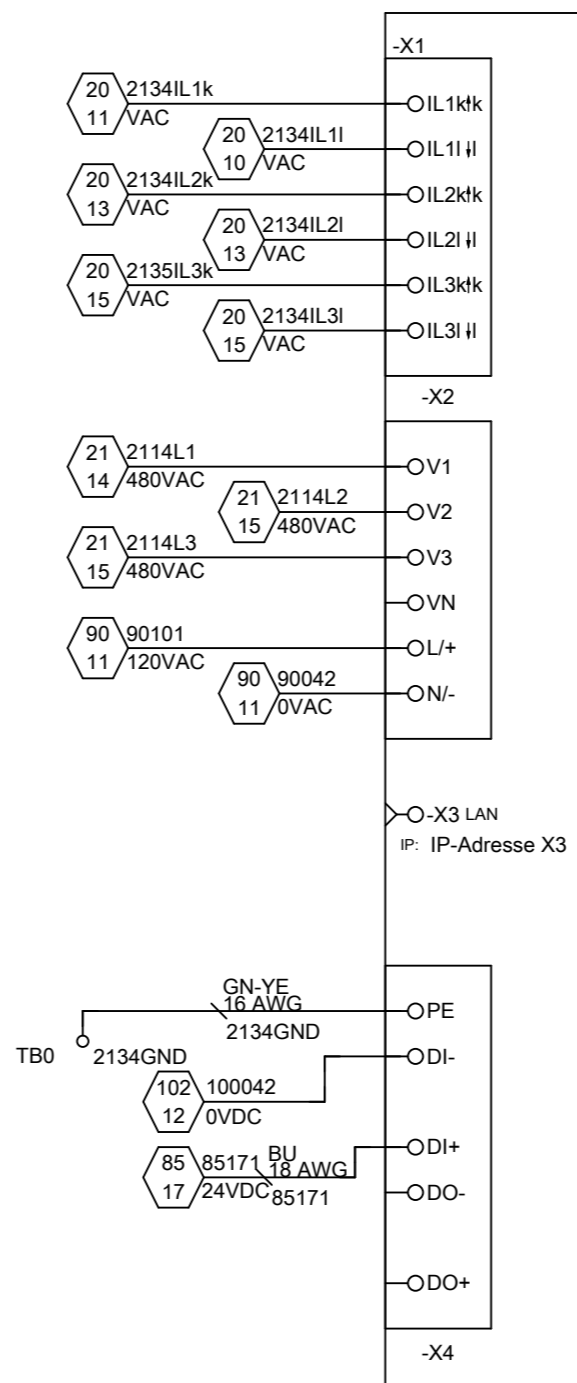
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Power meter
I bc (480V Y/277V): 65 kA
I >: 130 A
I therm: 10 A
I=10A
2114_CB

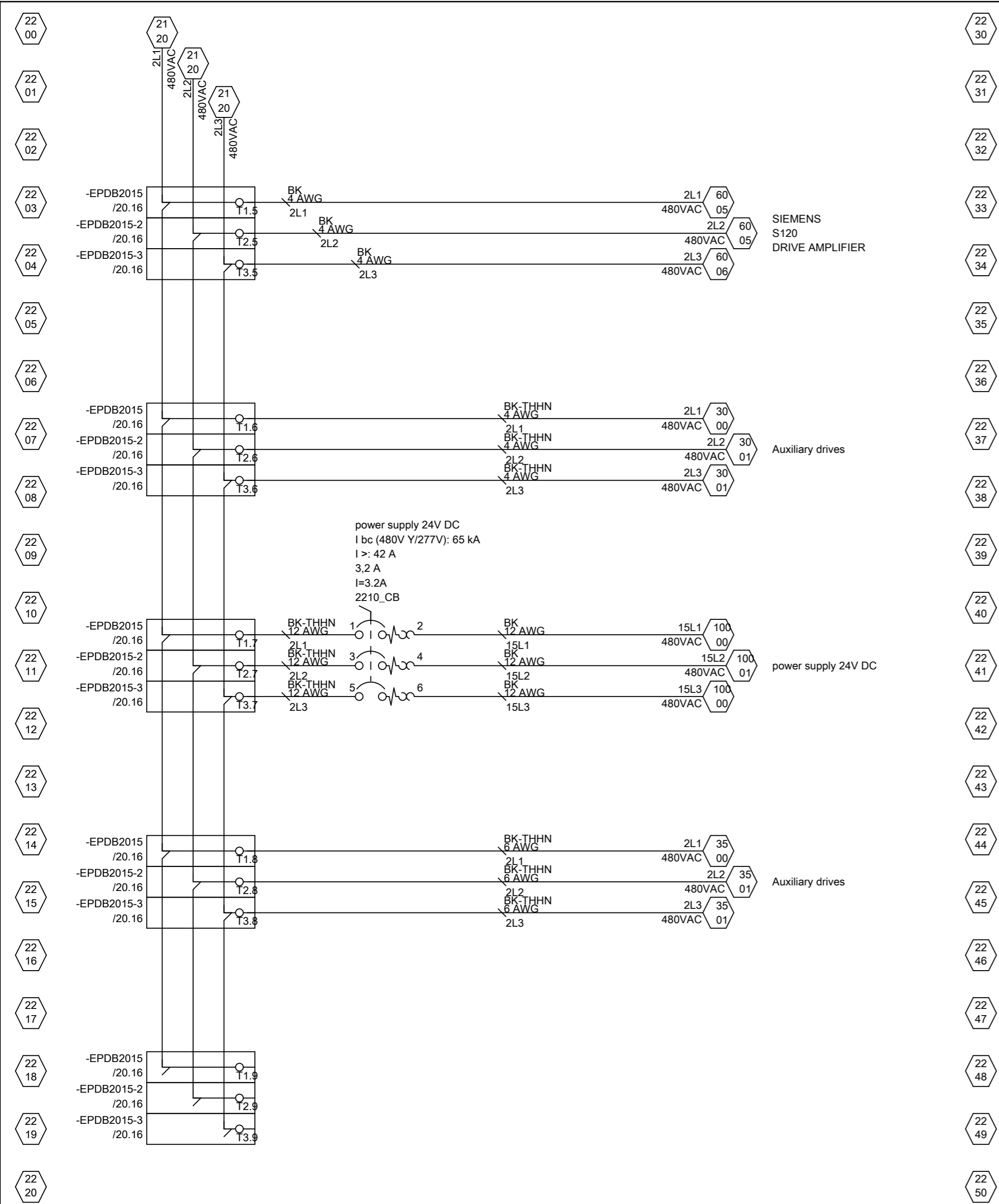


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DANGER! SENTRON PAC3200
"Open converter circuits may cause electric shock and light arc monitoring. This can lead to serious personal injury or death and serious damage to property. Current measurement can only be carried out via current transformers. 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-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 480V AC (E1)				Inv.No.	
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 480V AC (E1)				Inv.No.	
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
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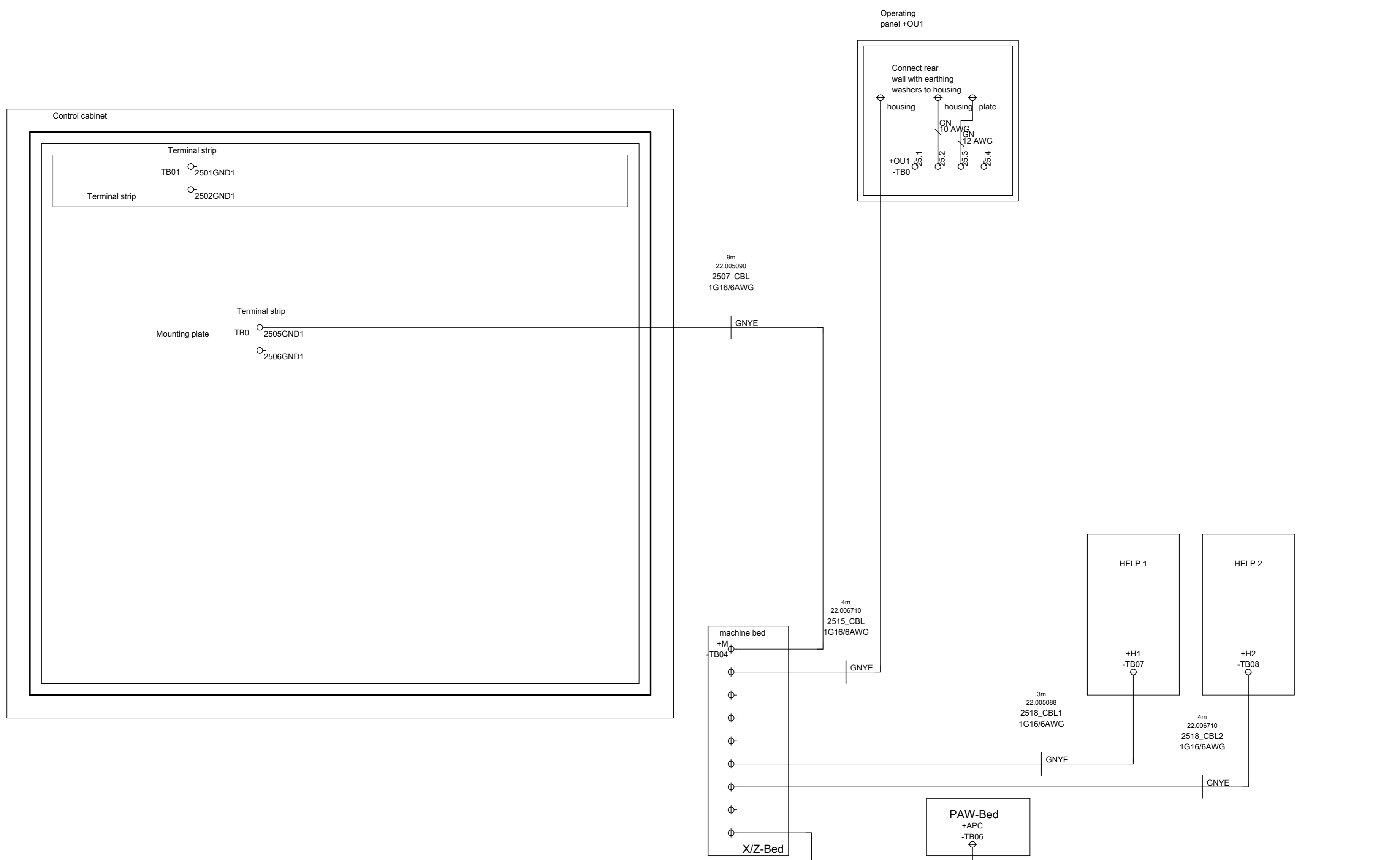
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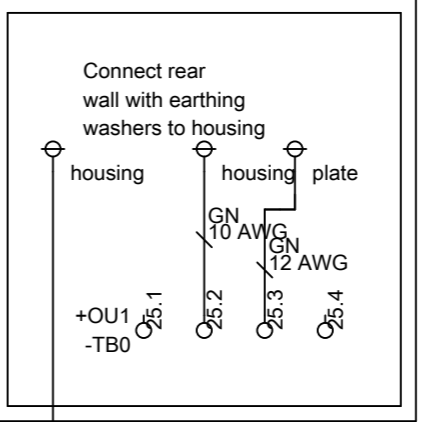
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
PE distribution				Inv.No.		
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Operating panel +OU1



9m
22.005090
2507_CBL
1G16/6AWG

4m
22.006710
2515_CBL
1G16/6AWG

3m
22.005088
2518_CBL1
1G16/6AWG

4m
22.006710
2518_CBL2
1G16/6AWG

Cu
10 mm²

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
PE distribution				Inv.No.		
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
PE distribution options						
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
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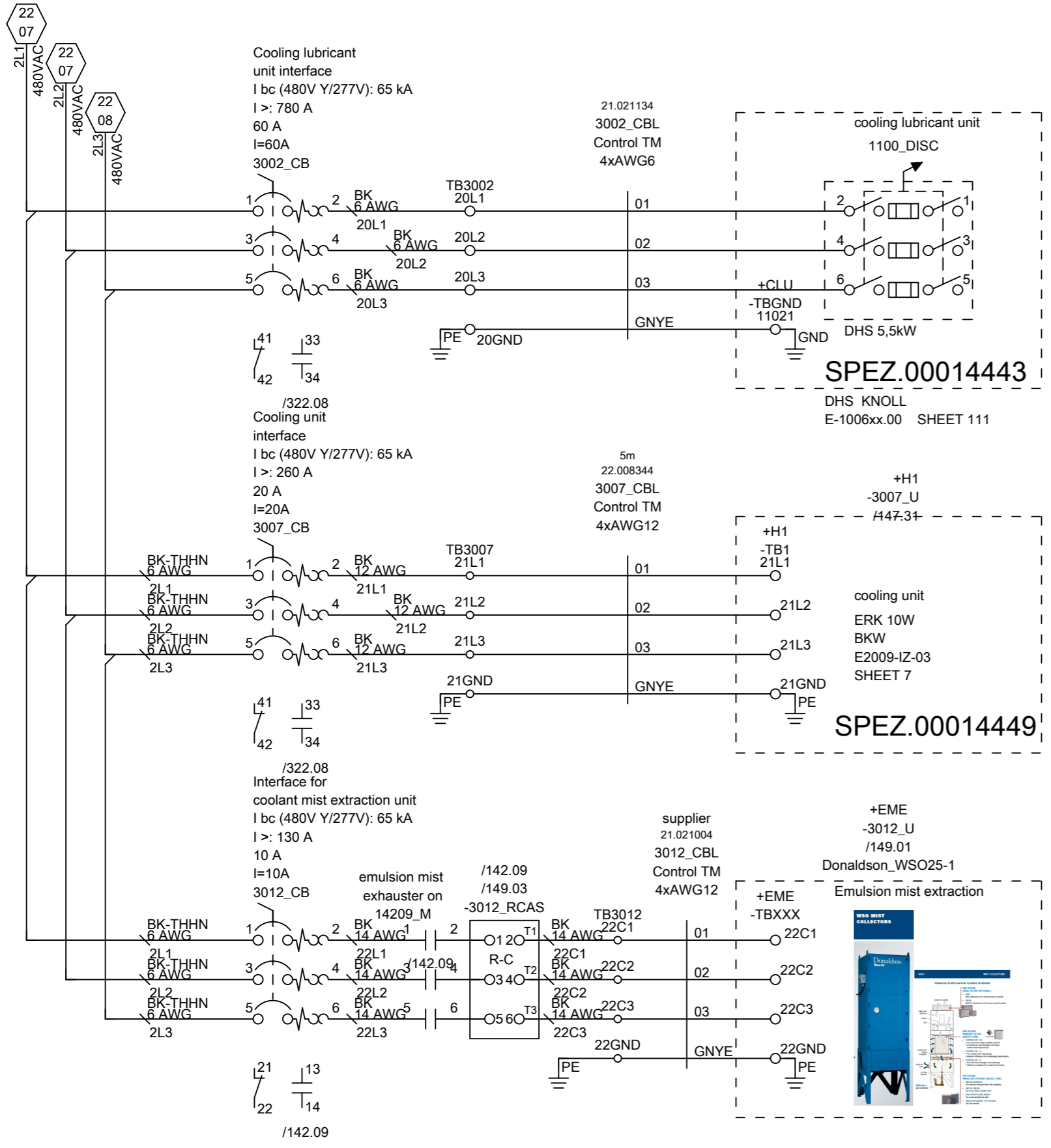
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve					
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
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Reserve Auxiliary drives

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
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Reserve
Auxiliary drives

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
Reserve						
ePLAN P8 2.2.5				=54800	Number of pages 275	Page 32
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Reserve Auxiliary drives

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
Reserve						
ePLAN P8 2.2.5				=54800	Number of pages 275	Page 33
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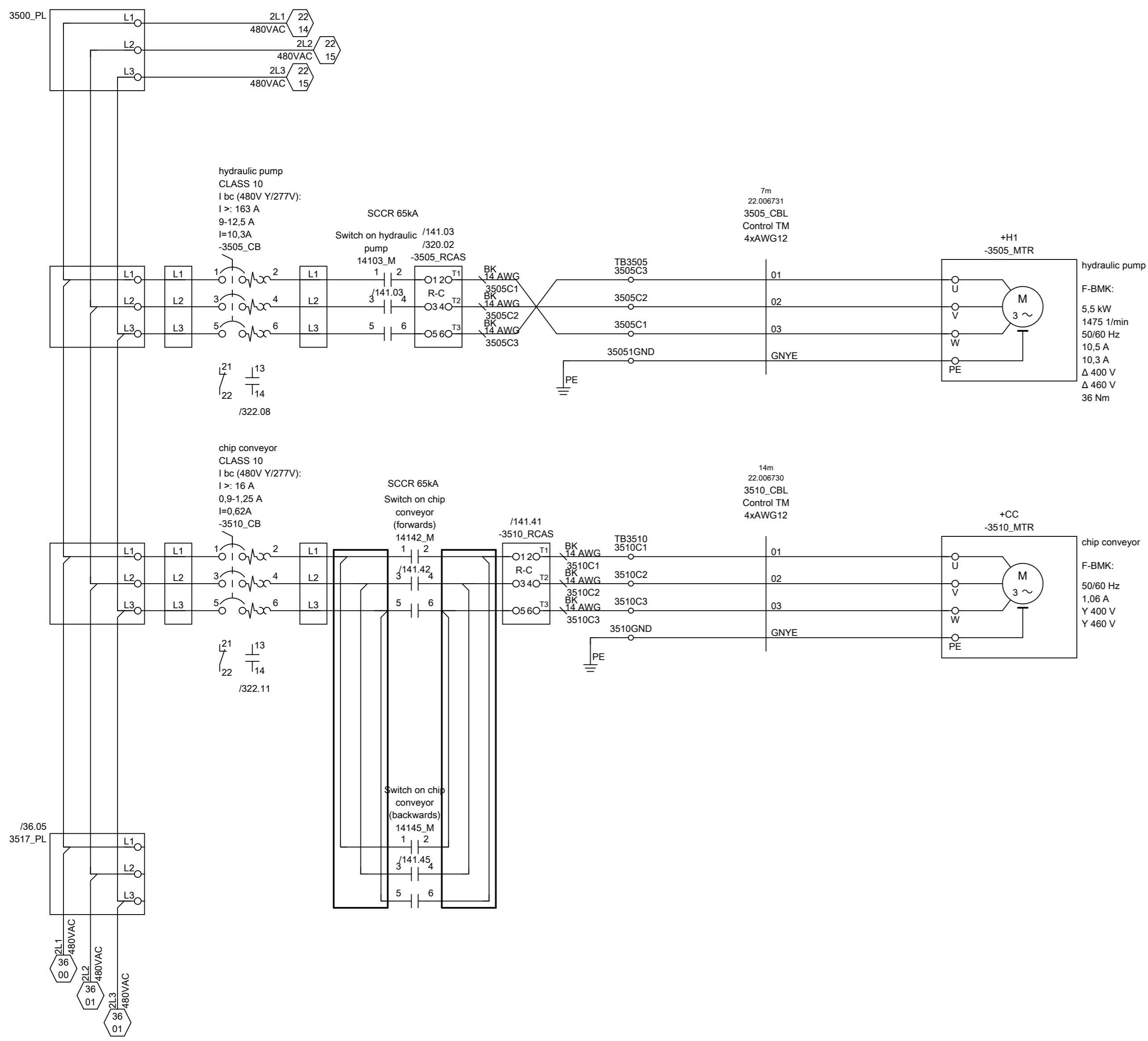
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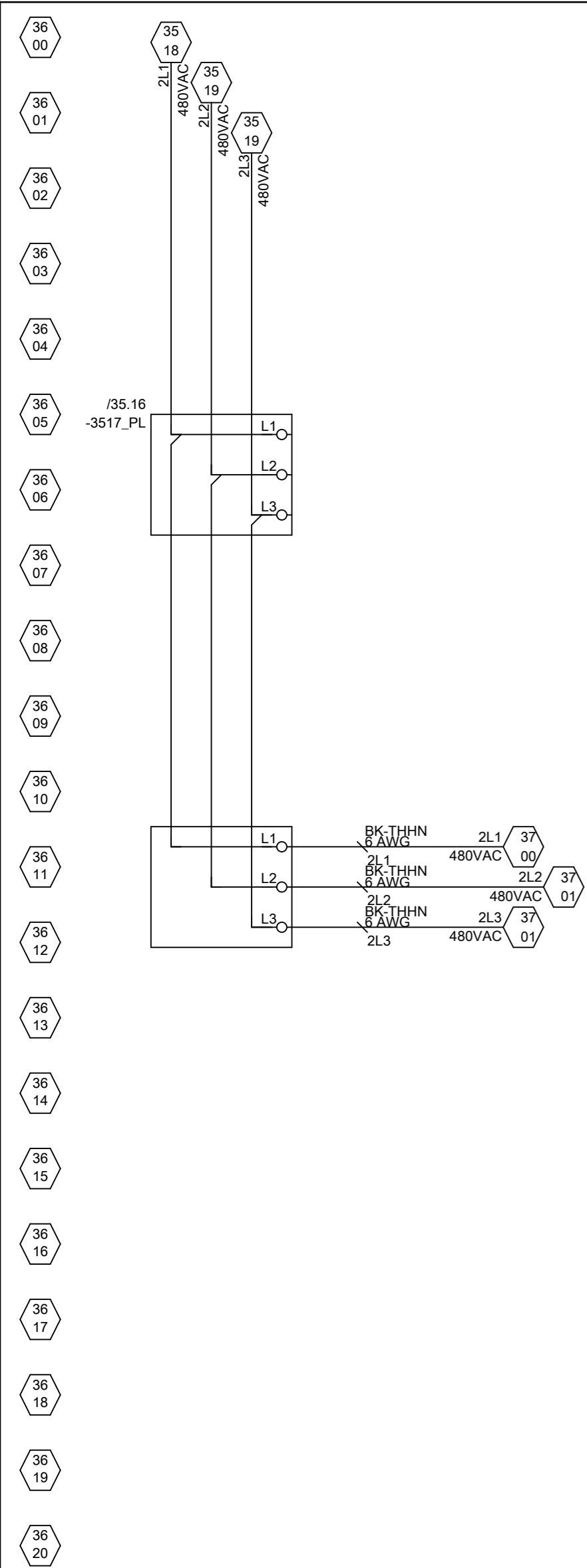
Reserve Auxiliary drives

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Reserve						
ePLAN P8 2.2.5				=54800	Number of pages 275	Page 34
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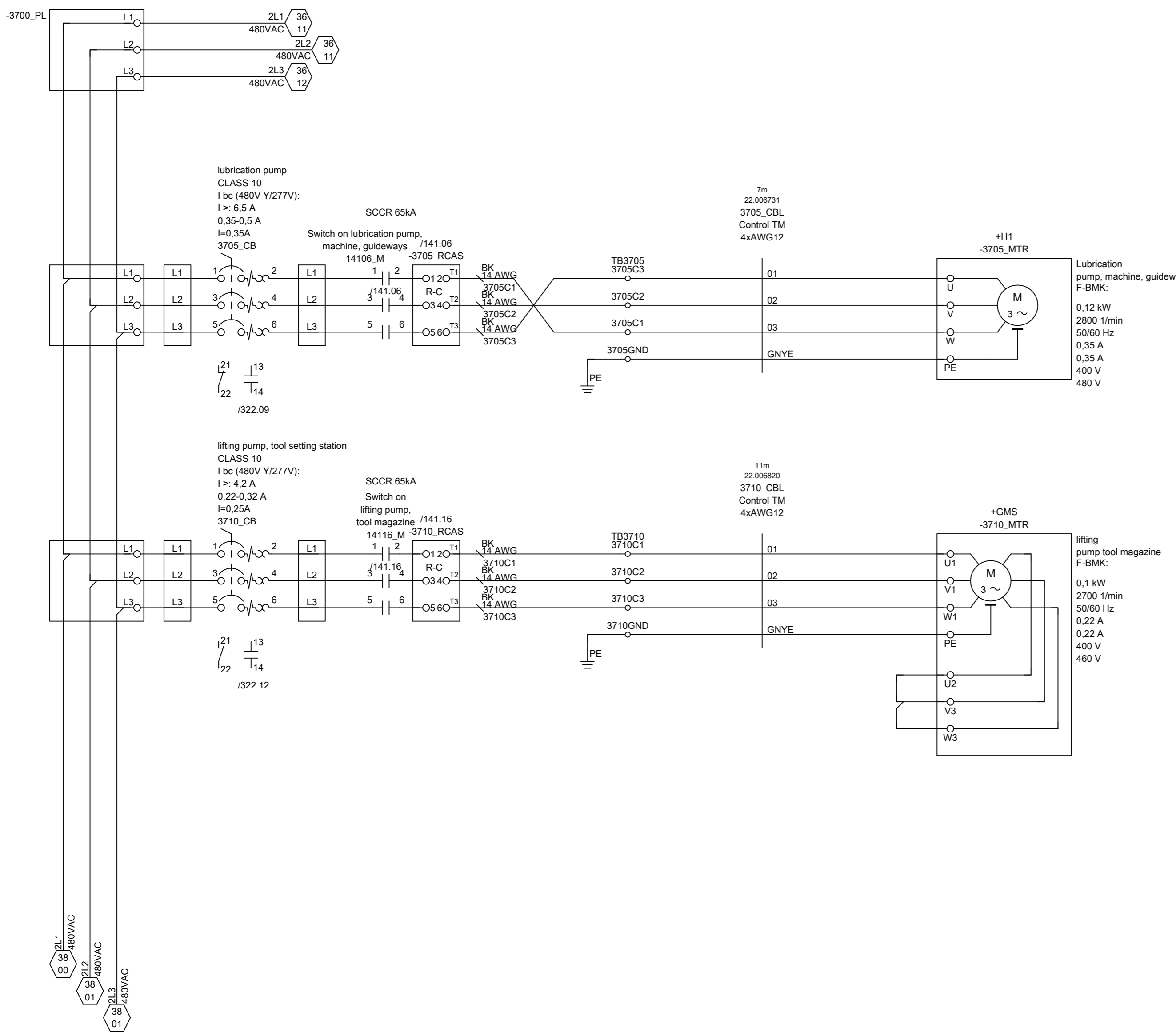


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DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
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lubrication pump
CLASS 10
I bc (480V Y/277V):
I >: 6,5 A
0,35-0,5 A
I=0,35A
3705_CB

SCCR 65kA
Switch on lubrication pump,
machine, guideways
14106_M /141.06
-3705_RCAS

7m
22.006731
3705_CBL
Control TM
4xAWG12

+H1
-3705_MTR

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 setting station
CLASS 10
I bc (480V Y/277V):
I >: 4,2 A
0,22-0,32 A
I=0,25A
3710_CB

SCCR 65kA
Switch on lifting pump,
tool magazine /141.16
14116_M -3710_RCAS

11m
22.006820
3710_CBL
Control TM
4xAWG12

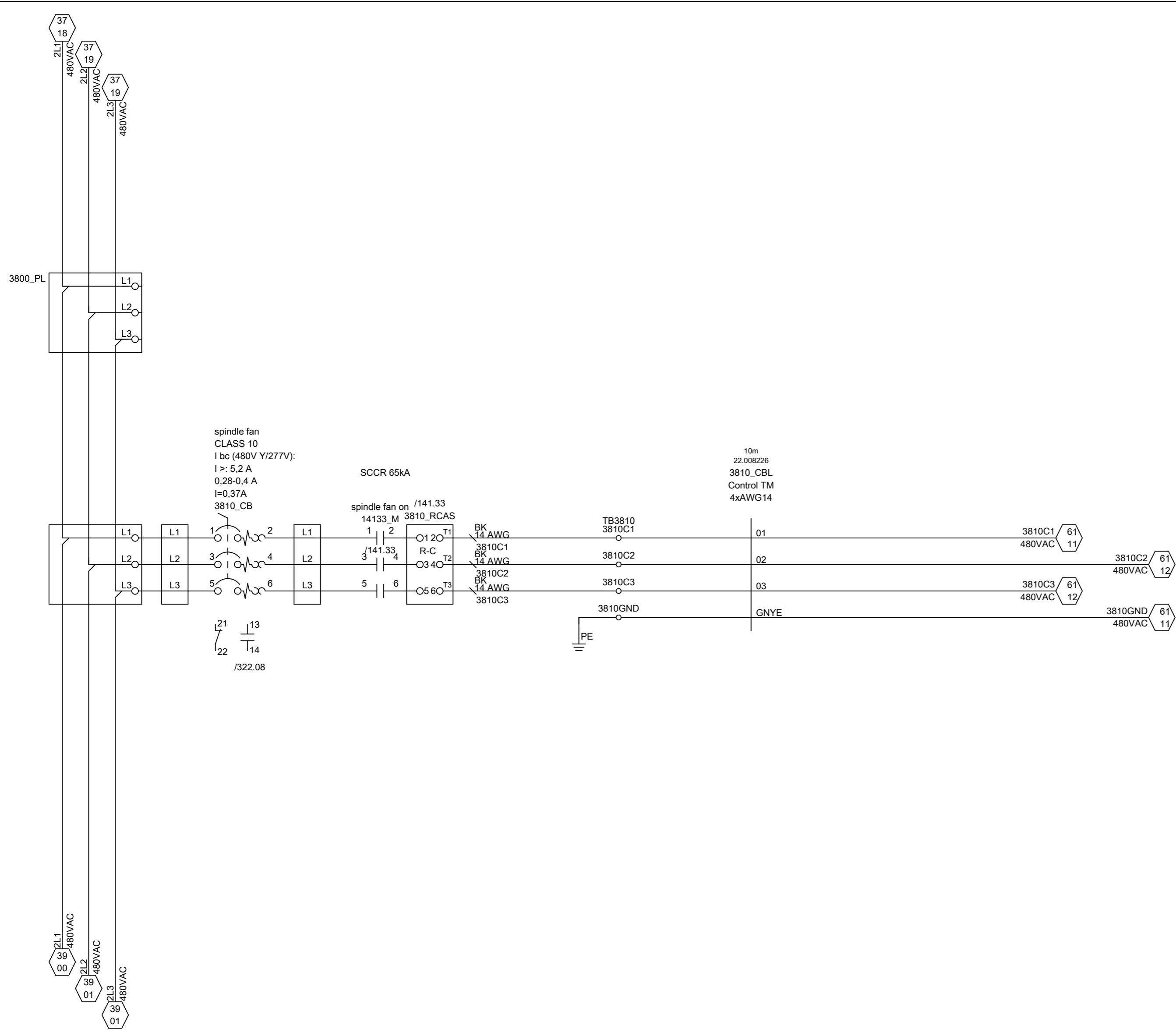
+GMS
-3710_MTR

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-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				=54800	
Number of pages				275	Page 37
◀ 36				Page	38

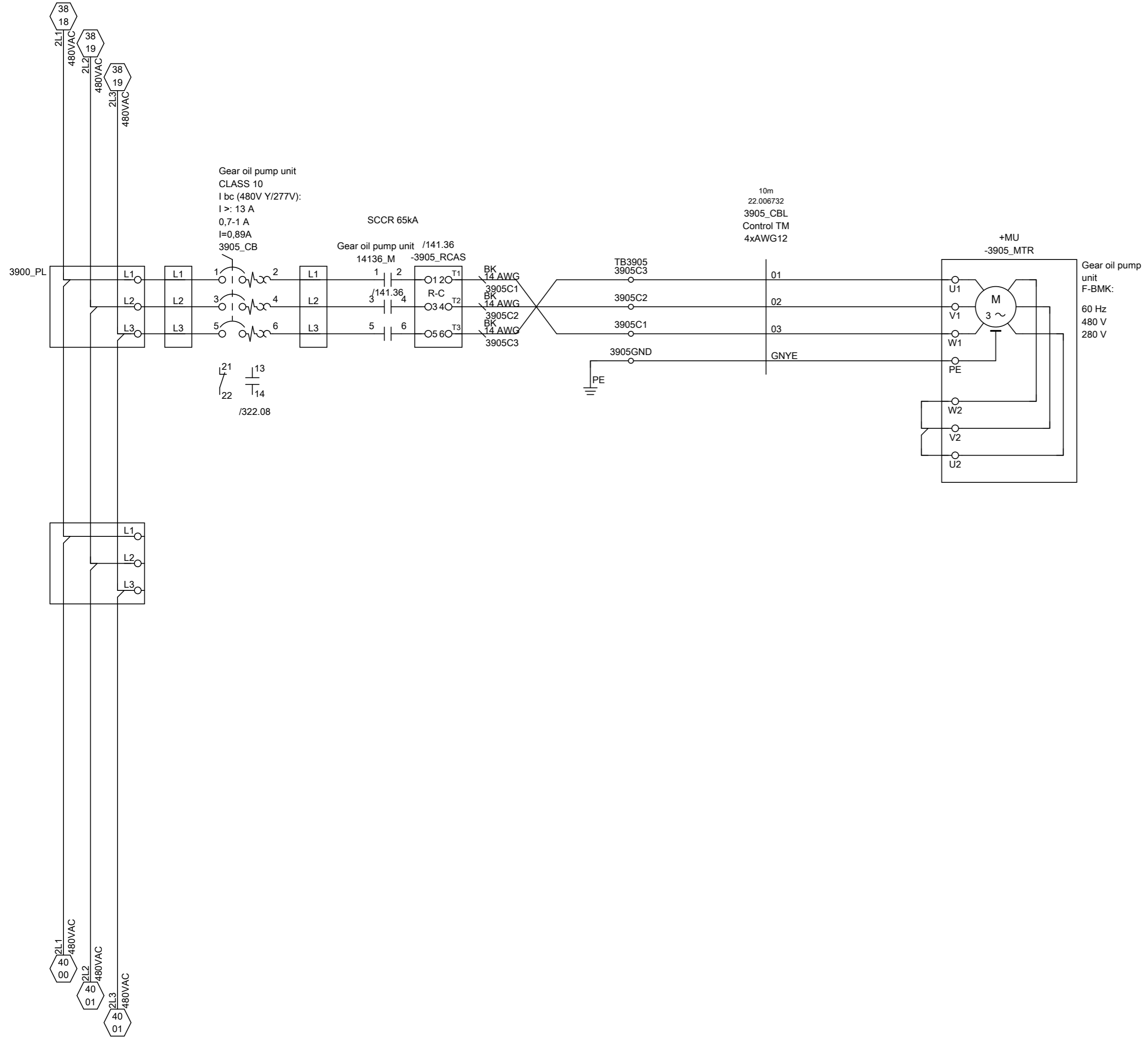
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Spindle motor fan

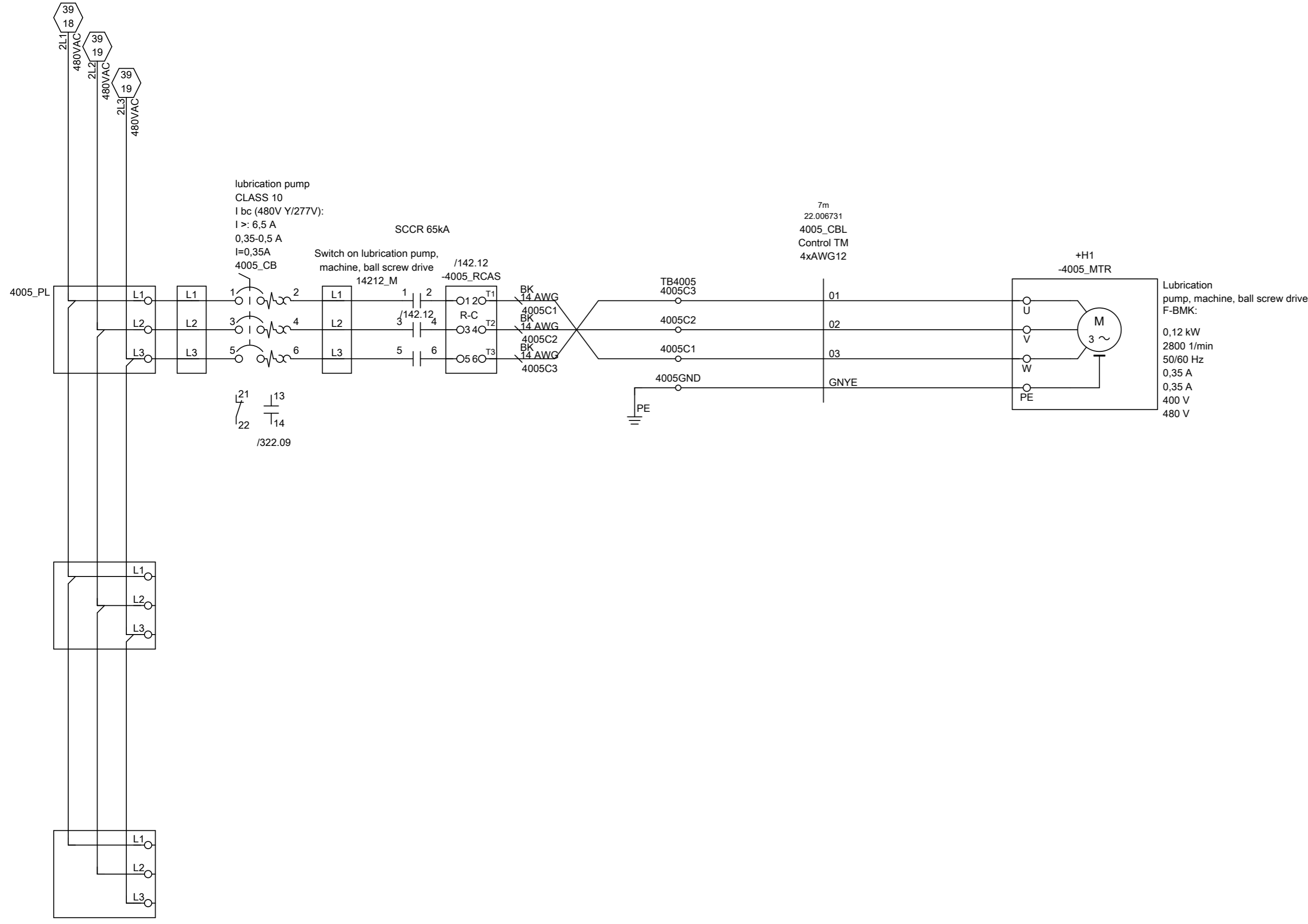
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ePLAN P8 2.2.5		=54800		37 Page 39	

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
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Auxiliary drives				Inv.No.	
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=54800				Page 40	

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	13.07.2015	AHP3/RIG			
Auxiliary drives				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Page 40	
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Reserve page 41-57

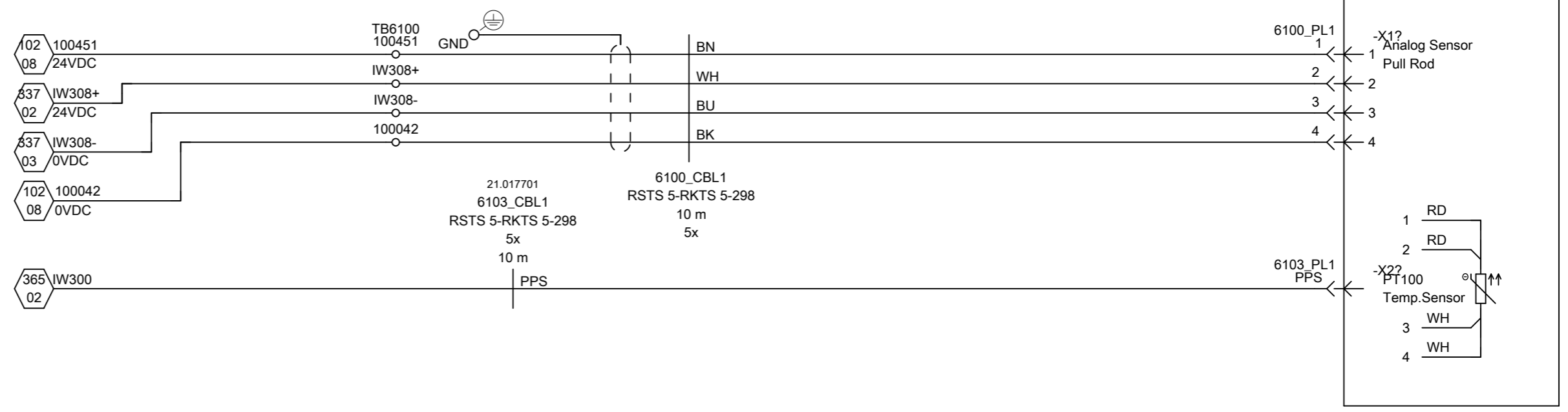
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DRAWN	26.05.2015	AHP3/GMI			
Reserve page 41-57				Inv.No.	
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Reserve page 58
 Safety door drive, workpiece loading station

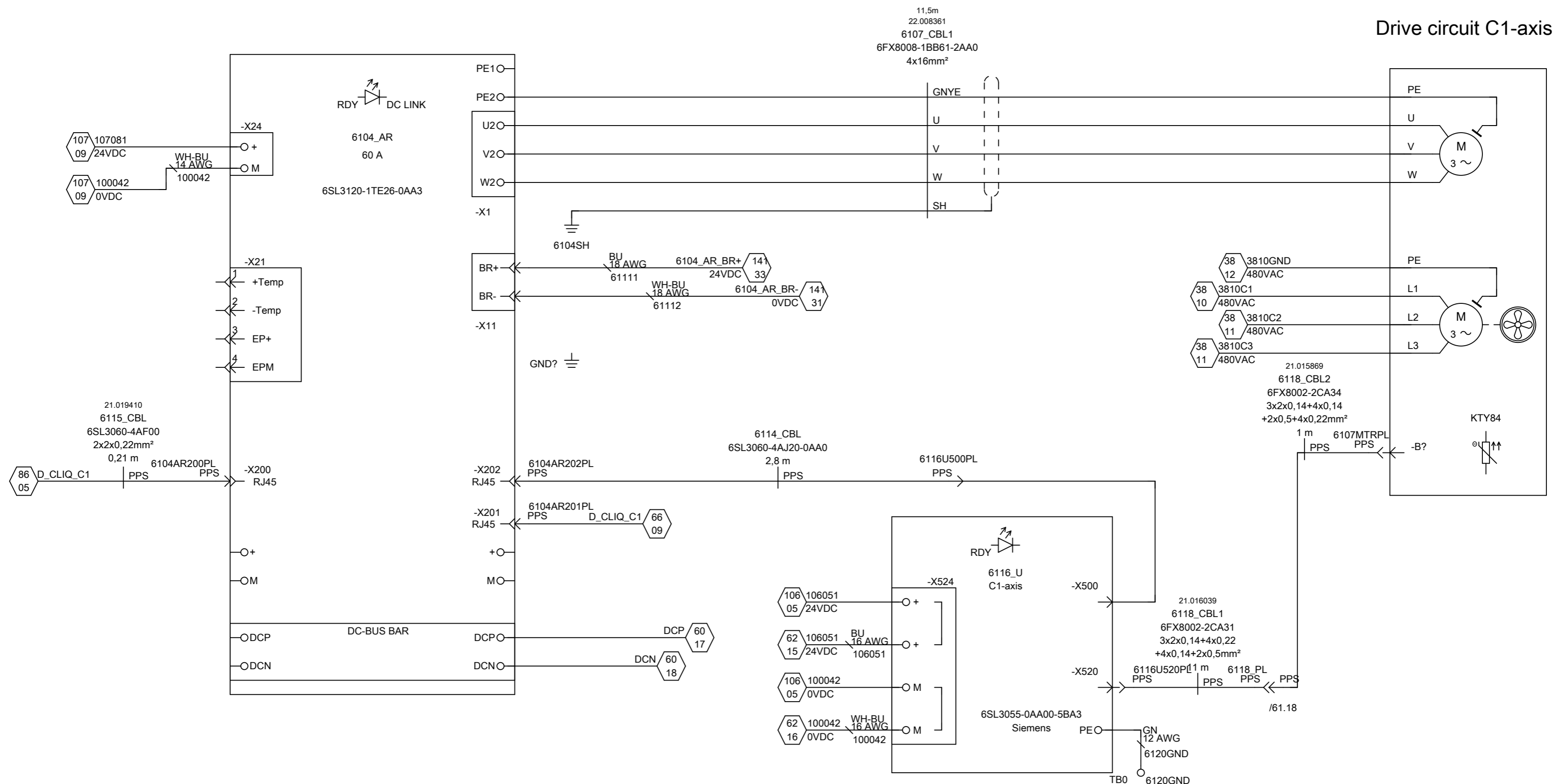
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DRAWN	10.02.2016	AHP3/RIG			
Safety door drive, workpiece loading station				Inv.No.	
				Number of pages 275 Page 58	
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+MU
-6107_MTR
/61.07

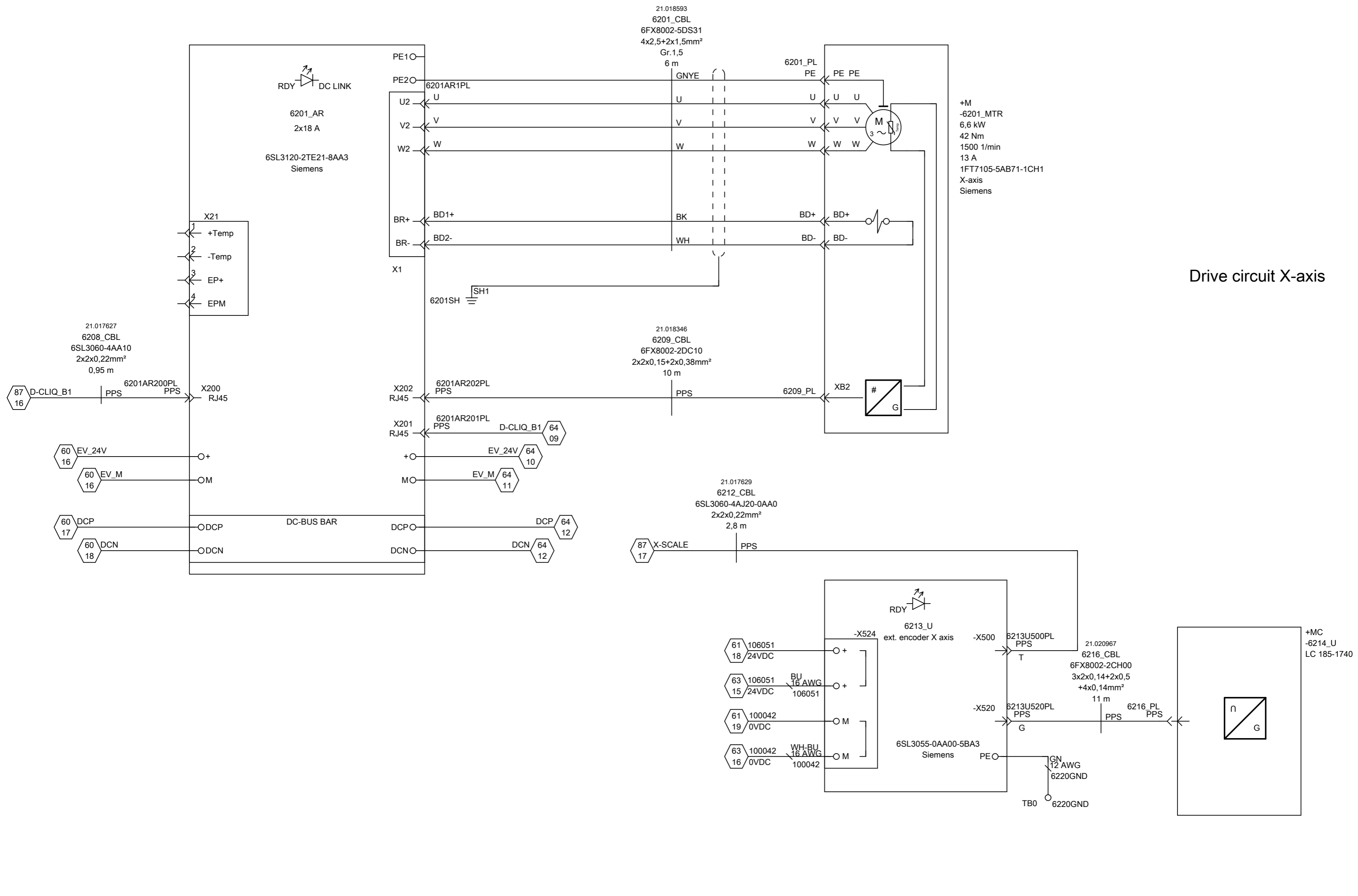
Drive circuit C1-axis



+MU
-6107_MTR
/61.00
28 kW
133,7 Nm
2000 1/min
60 A
1PH8137-1CG02-0LA1-Z
C1-axis

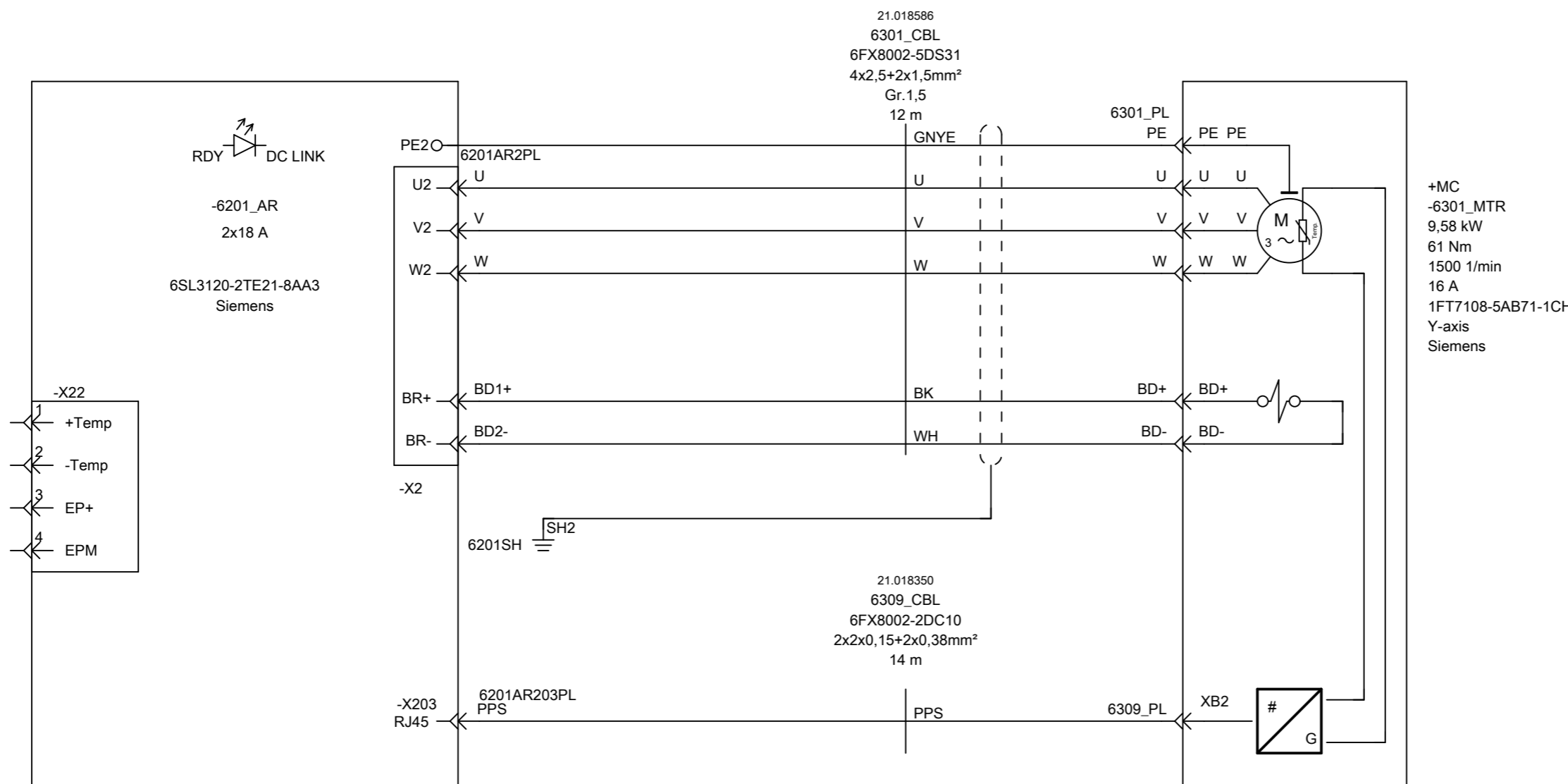
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DRAWN	26.05.2015	AHP3/GMI		Number of pages 275 Page 61	
Drive circuit C1-axis					
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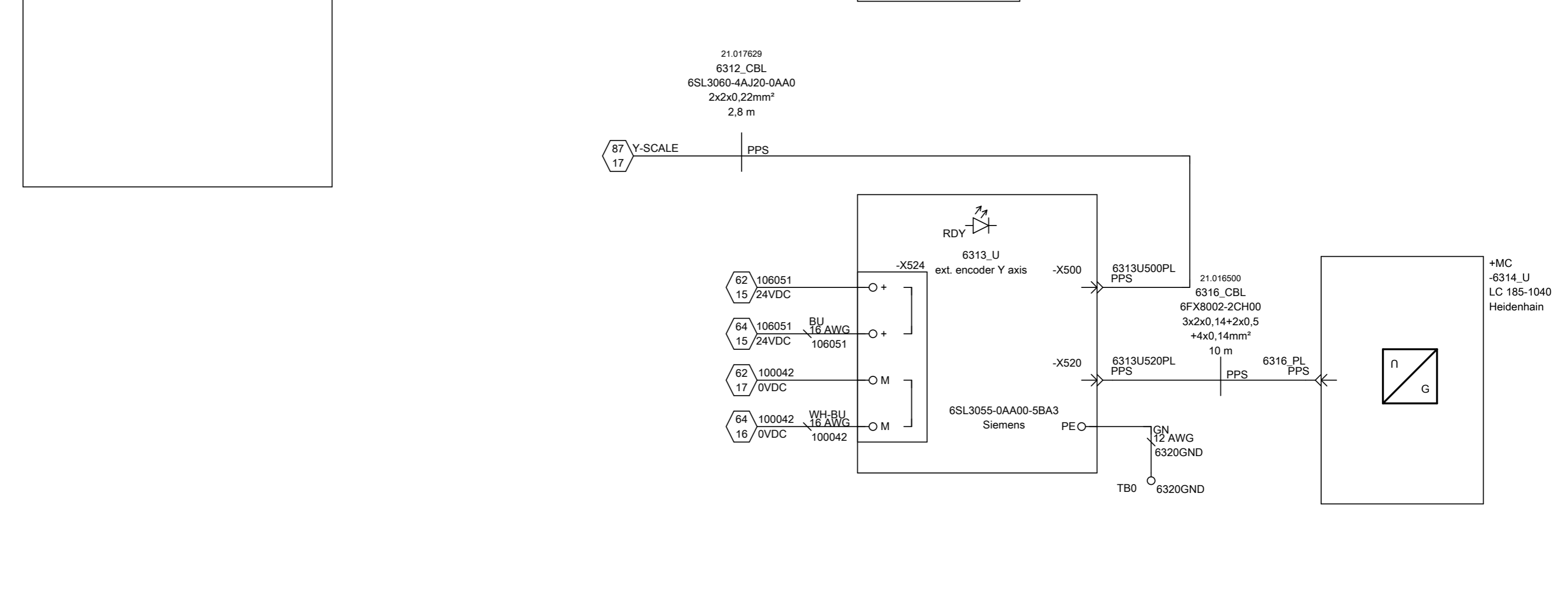
Drive circuit X-axis

Project description P-009081				Project JIC_EP05480000	
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit X-axis				Inv.No.	
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+MC
-6301_MTR
9,58 kW
61 Nm
1500 1/min
16 A
1FT7108-5AB71-1CH1
Y-axis
Siemens

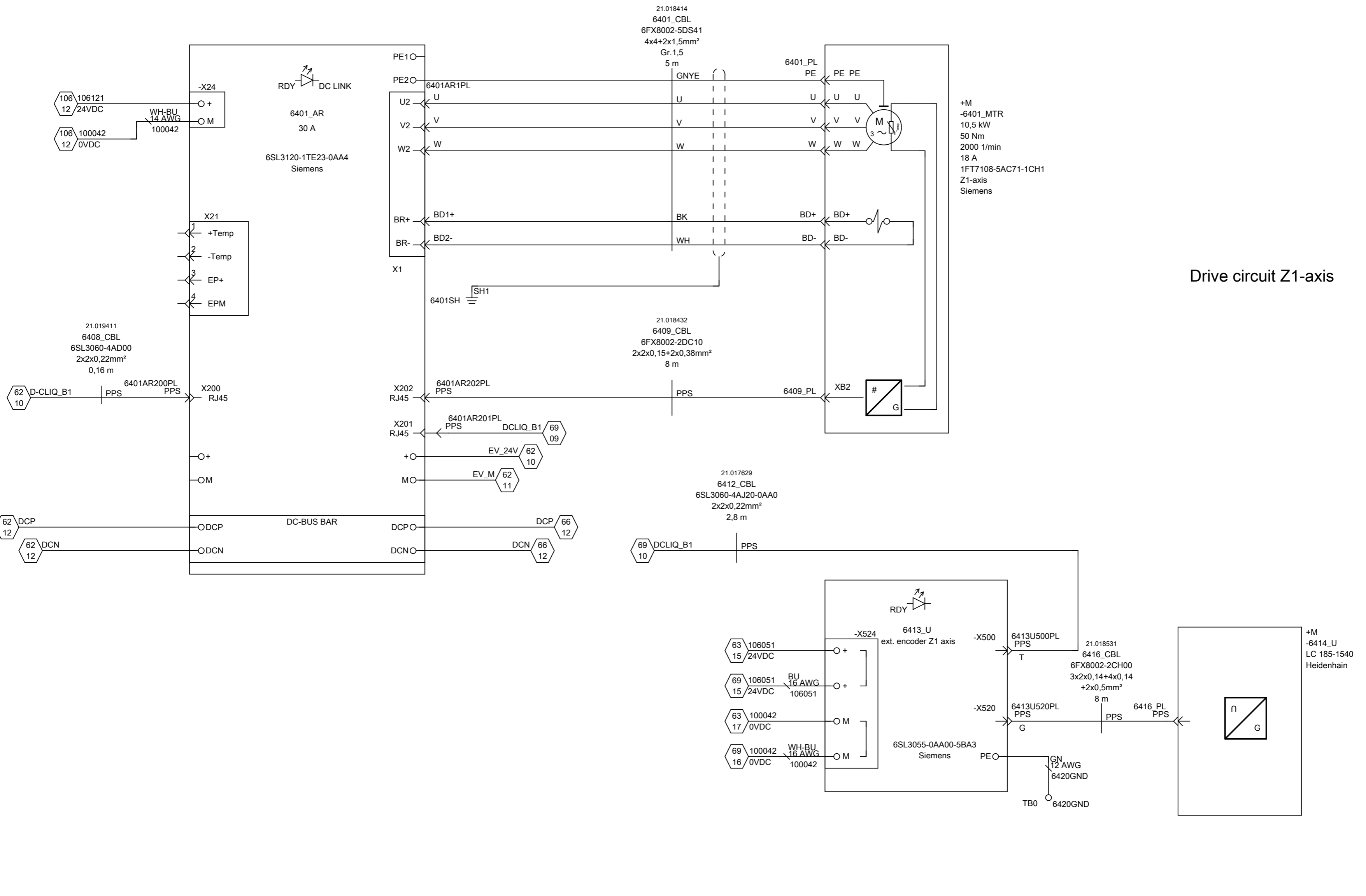
Drive circuit Y-axis



+MC
-6314_U
LC 185-1040
Heidenhain

Project description P-009081				Project JIC_EP05480000	
				Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Y-axis				Inv.No.	
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Drive circuit Z1-axis

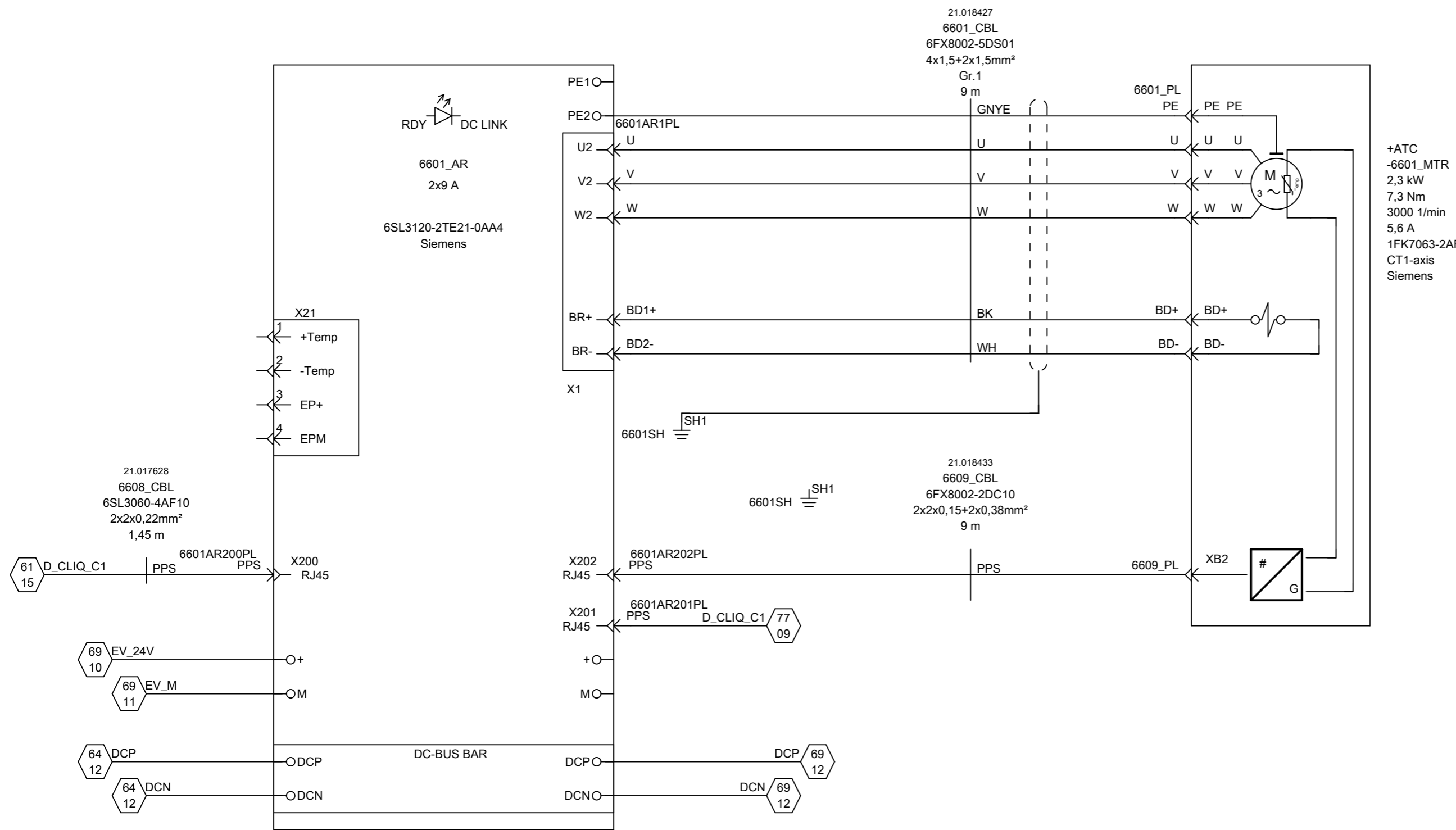
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DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Z1-axis				Inv.No.	
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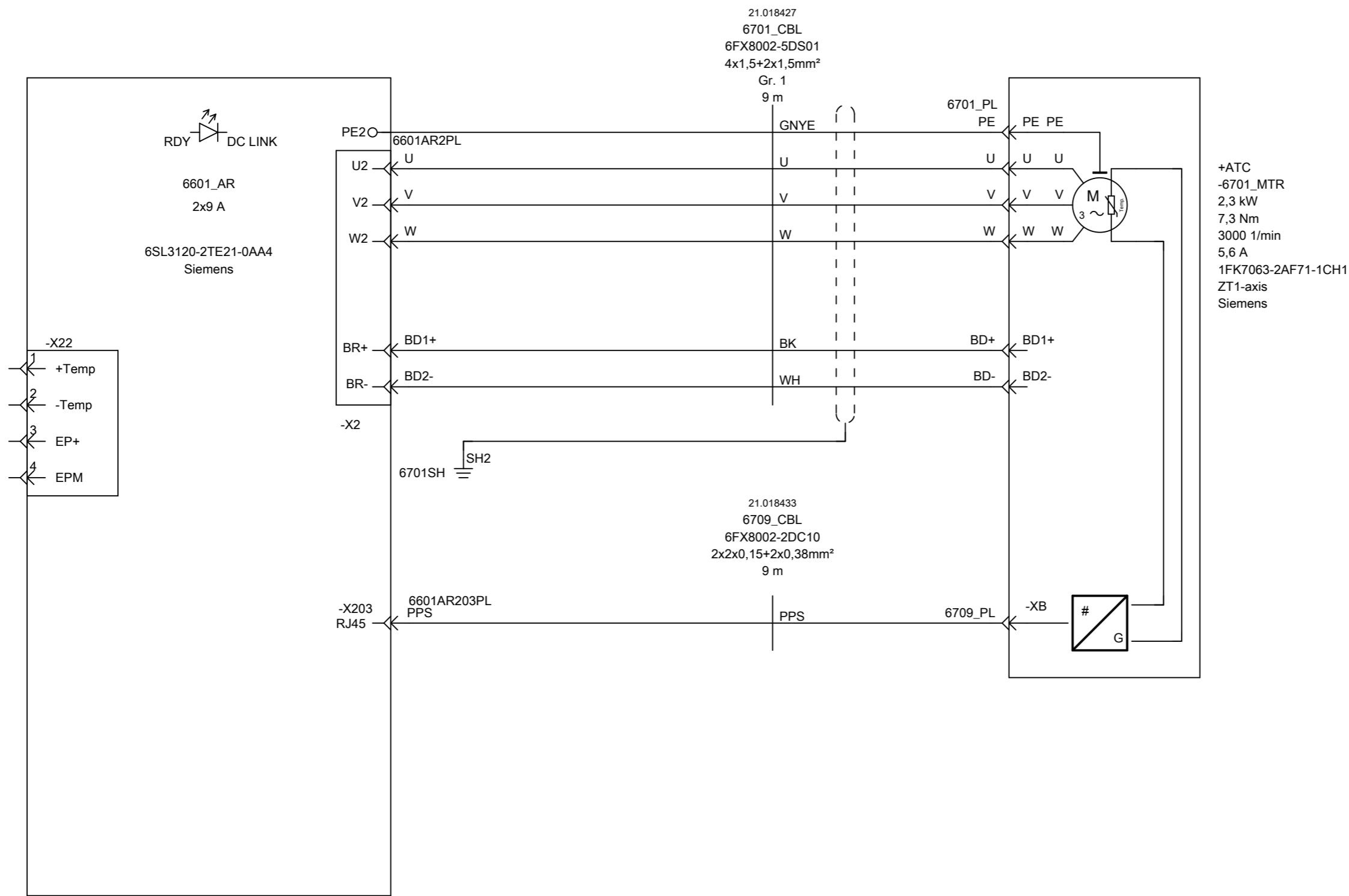
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DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Z2-axis				Inv.No.	
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Drive circuit CT1-axis

Project description P-009081				Project JIC_EP05480000	
				Machine serial number M54807	
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.	
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Drive circuit ZT1-axis

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Drive circuit ZT1-axis				Inv.No.			
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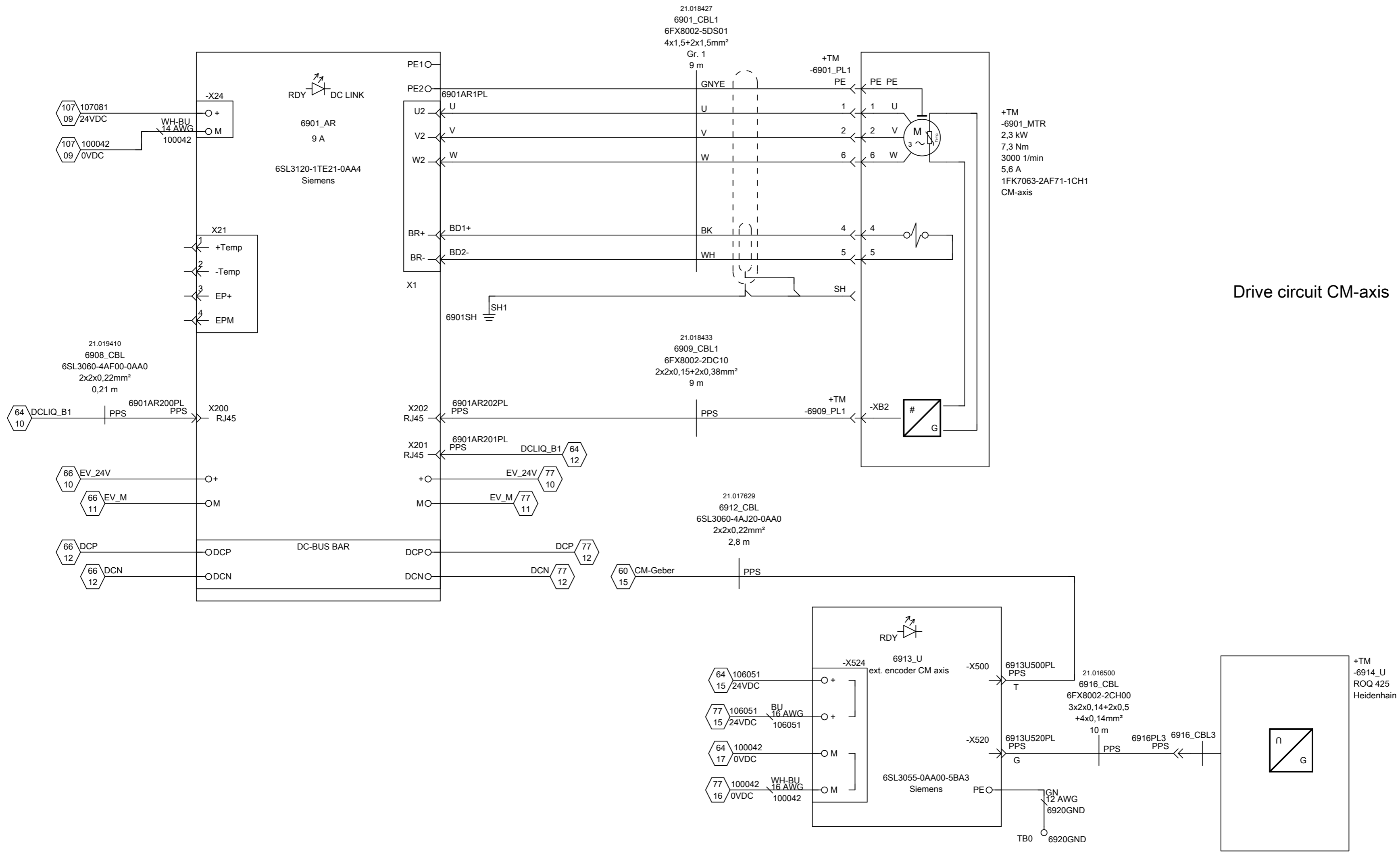
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Drive circuit B-axis

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit B-axis				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit CM-axis				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Drive circuit XM-axis				Number of pages 275 Page 70	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit YM-axis				Number of pages 275 Page 71	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
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Reserve Drive circuit ZM-axis				Number of pages 275 Page 72	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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Reserve Drive circuit BM-axis				Number of pages 275 Page 73	
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Reserve Drive circuit BP-axis				Inv.No.	
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Reserve Drive circuit BR-axis				Number of pages 275 Page 75	
ePLAN P8 2.2.5		=54800		74	Page 76

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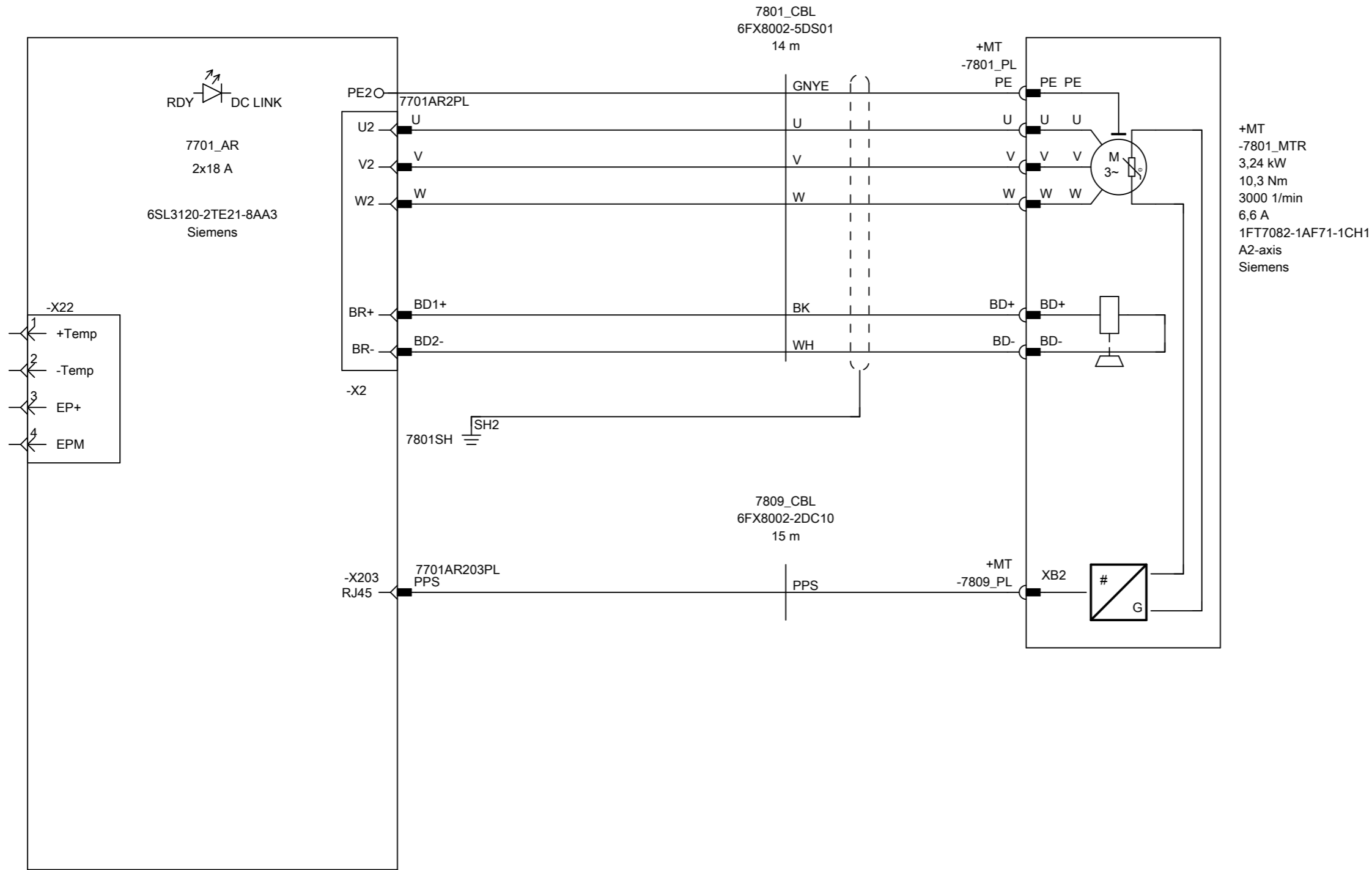
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Drive circuit U-axis				Inv.No.	
				Number of pages 275 Page 76	
ePLAN P8 2.2.5		=54800		◀ 75 Page 77 ▶	



+MT
-7801_MTR
3,24 kW
10,3 Nm
3000 1/min
6,6 A
1FT7082-1AF71-1CH1
A2-axis
Siemens

Drive circuit A-axis A2

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit A-axis A2				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Page 78	
=54800				77 Page 79	

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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit Voltage Sensing Module				Inv.No.	
				Number of pages 275 Page 79	
ePLAN P8 2.2.5		=54800		◀ 78 Page 80 ▶	

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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Drive circuit, temperature evaluation, F-series torque motor				Number of pages 275 Page 80	
ePLAN P8 2.2.5		=54800		79	81

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Reserve

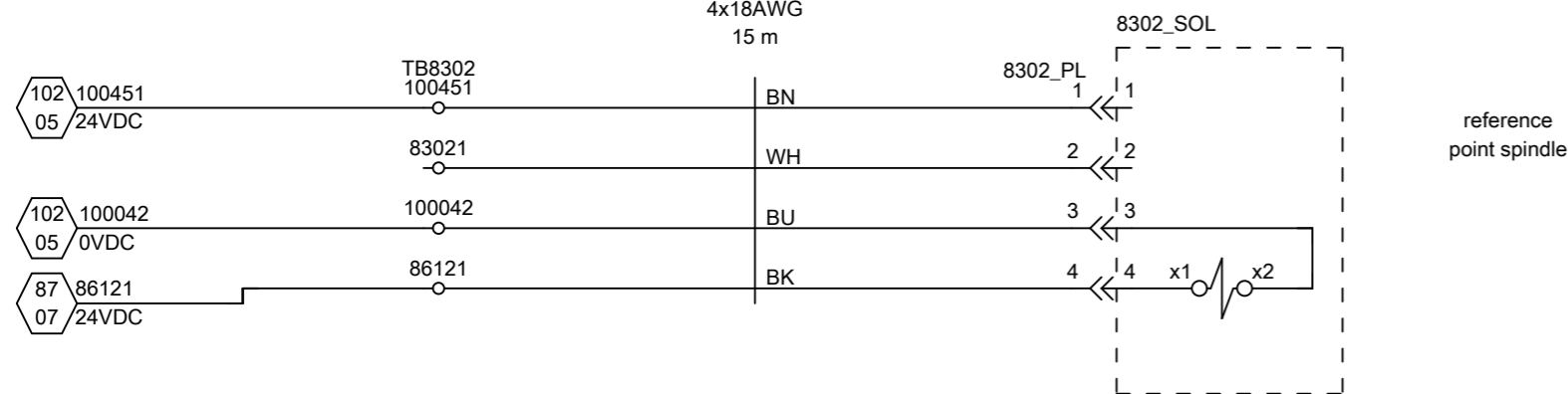
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Drive circuit, external encoder evaluation (measuring scales), Fanuc only				Number of pages 275 Page 81	
ePLAN P8 2.2.5		=54800		80	Page 82

Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve HPC/PSC gear shifting				Number of pages 275 Page 82	
ePLAN P8 2.2.5		=54800		81	Page 83

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



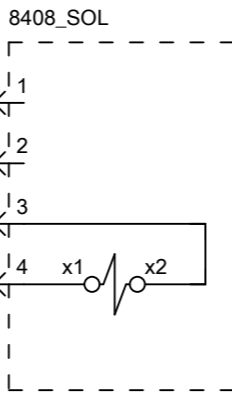
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	01.12.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Monitoring: Reference point / Ext. encoder for gear unit				Inv.No.	
				Number of pages 275 Pages 83	
ePLAN P8 2.2.5		=54800		82 Page 84	

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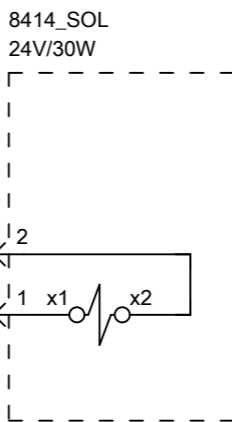
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6m
22.007568
8408_CBL
RST4-RKWT4-637
4x18AWG
10 m



Unclamp
A-axis
clamping

9m
22.005468
8414_CBL
RST4-RKWT4-637
4x18AWG
10 m

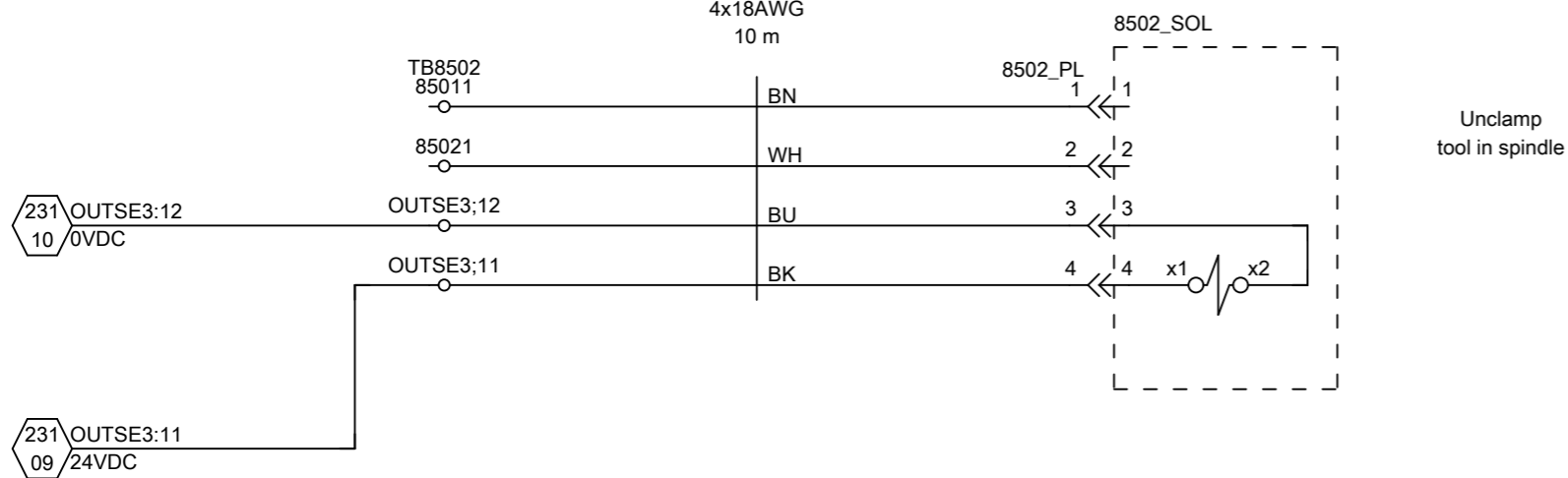


Sitema Brake Y axis

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Brake and lock control				Inv.No.	
ePLAN P8 2.2.5				=54800	
Number of pages				275	Pages 84
83				Page	85

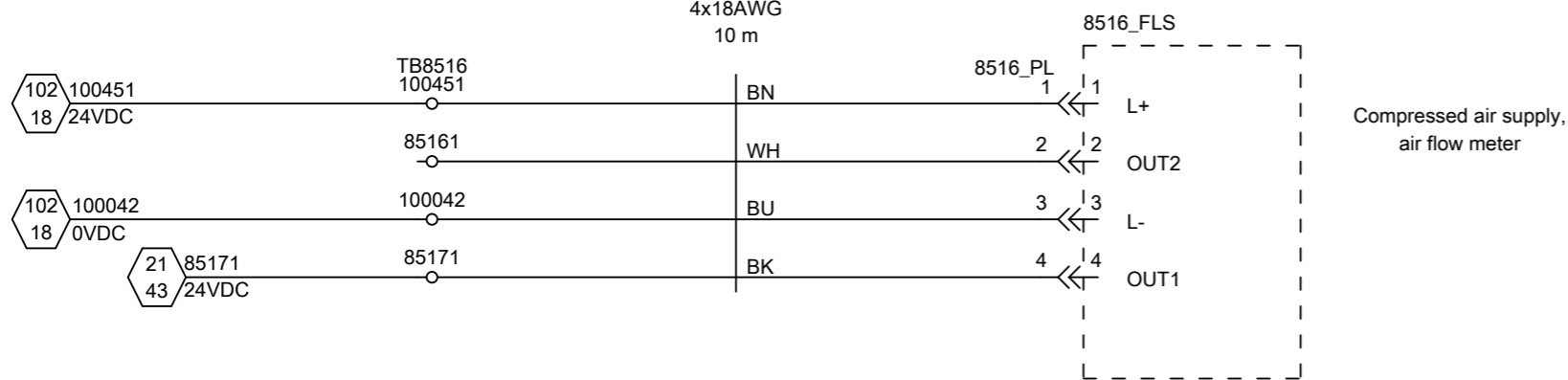
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10m
22.007689
8502_CBL
RST4-RKWT4-637
4x18AWG
10 m



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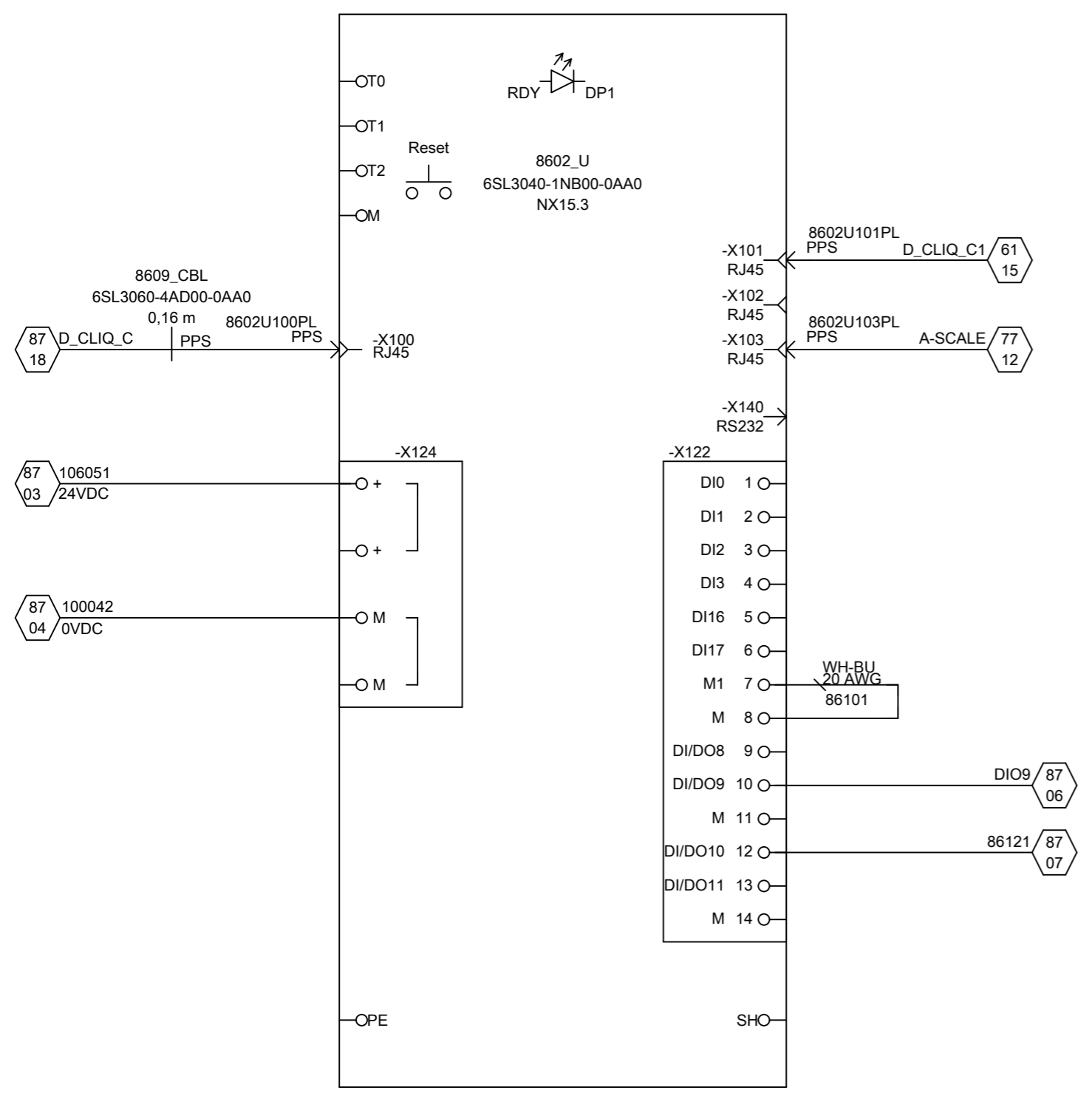
6m
22.007568
8516_CBL
RST4-RKWT4-637
4x18AWG
10 m



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Unclamp tool in spindle				Inv.No.	
				Number of pages	275
ePLAN P8 2.2.5				=54800	Page
				84	86

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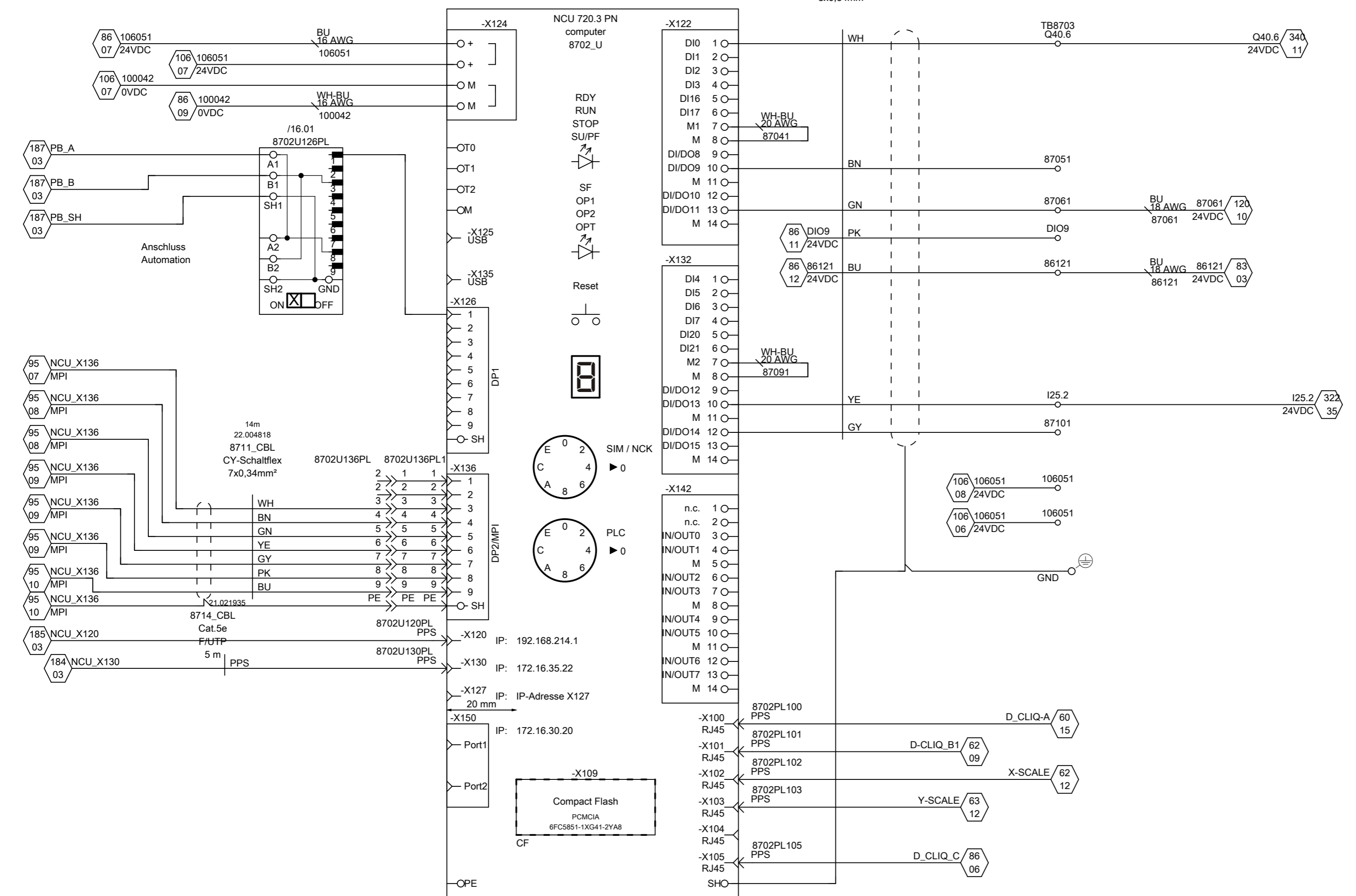
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	25.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Expansion assembly NC				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 86	
=54800				85 Page 87	

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



X120: 192.168.214.1
X130: 172.16.35.22
Profinet X150: 172.16.30.20

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	25.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Drive circuit NC				Inv.No.	
Number of pages				275	Page 87
ePLAN P8 2.2.5		=54800		86	Page 88

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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
Reserve						
ePLAN P8 2.2.5				=54800	Number of pages 275	Page 88
				87	Page	89

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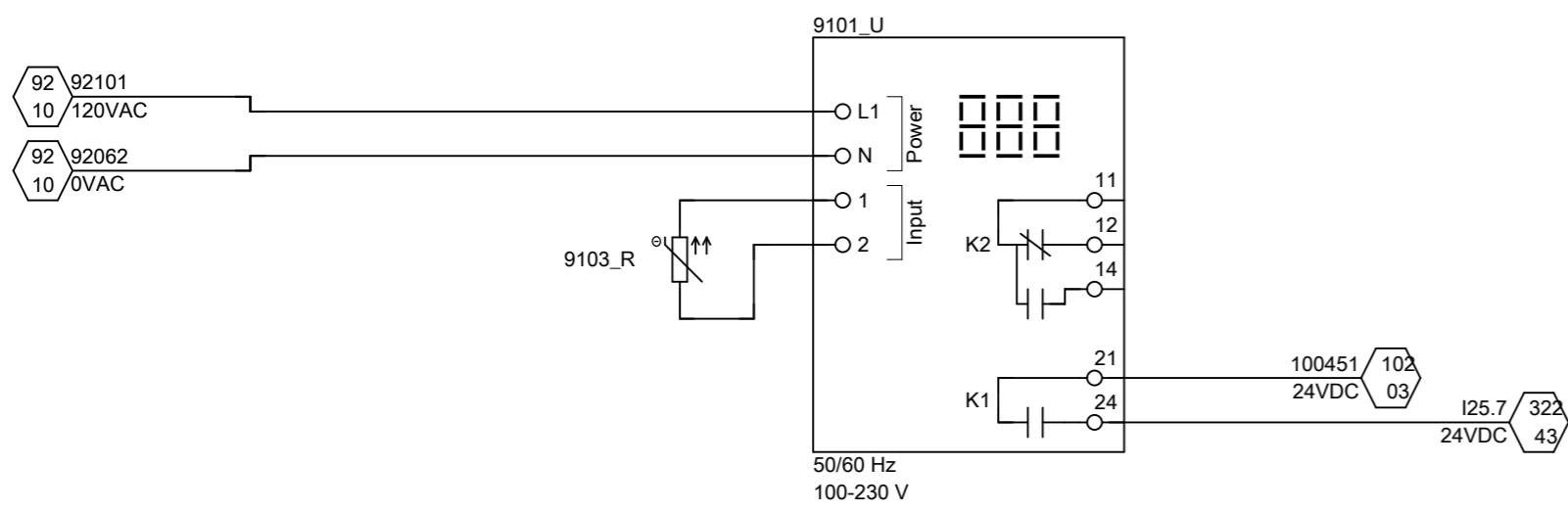
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
Reserve						
ePLAN P8 2.2.5				=54800	Number of pages 275	Page 89
				88	Page	90

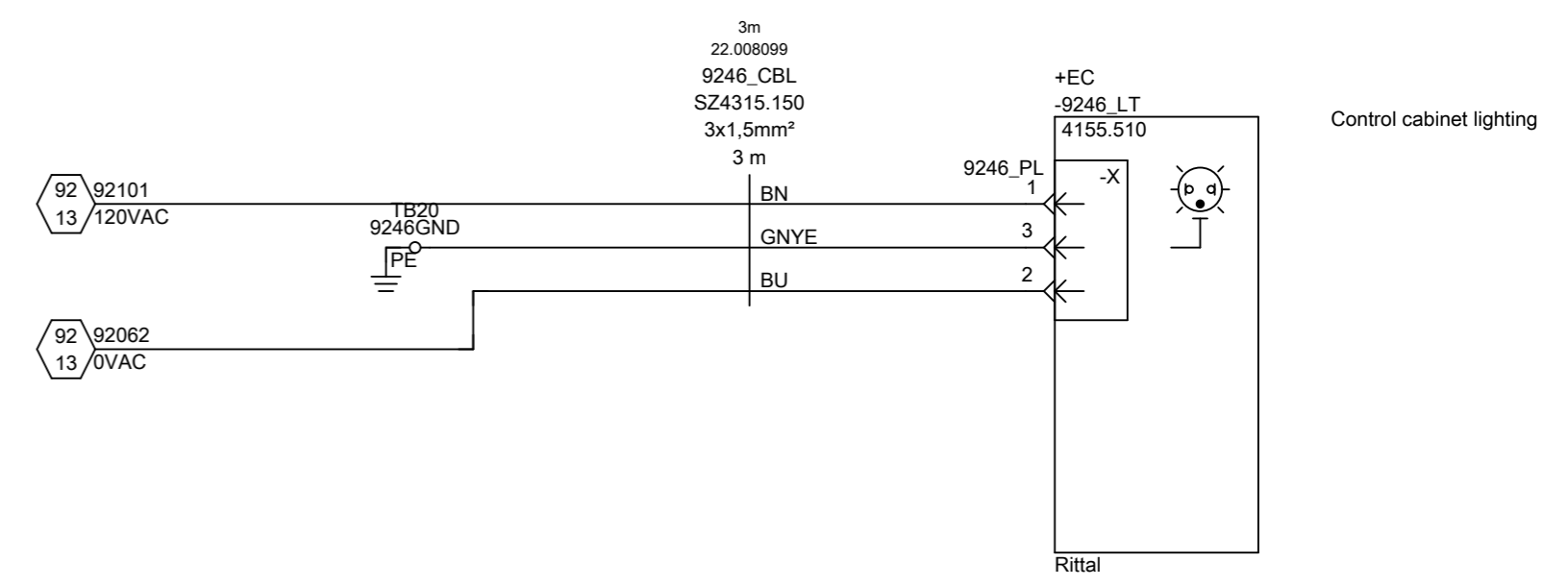
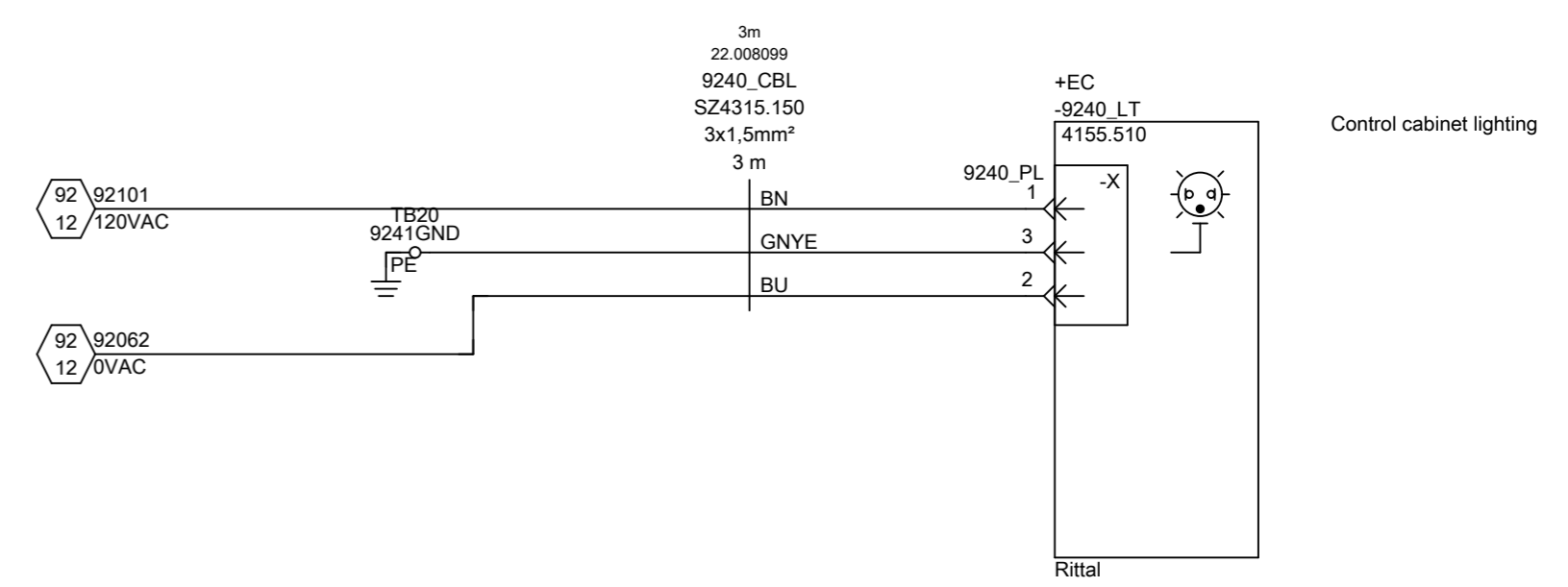
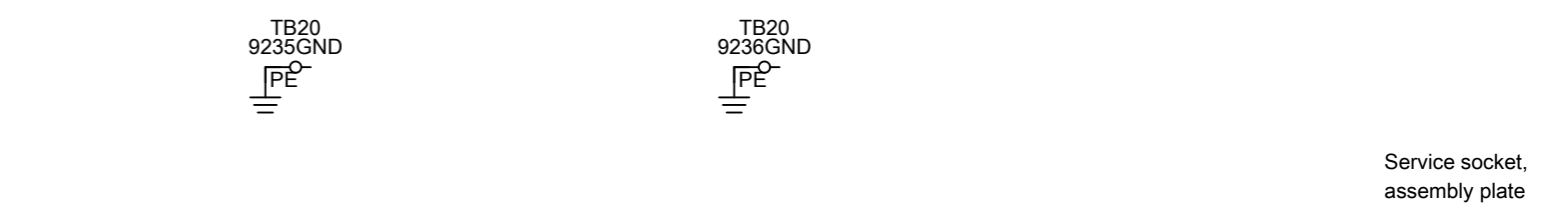
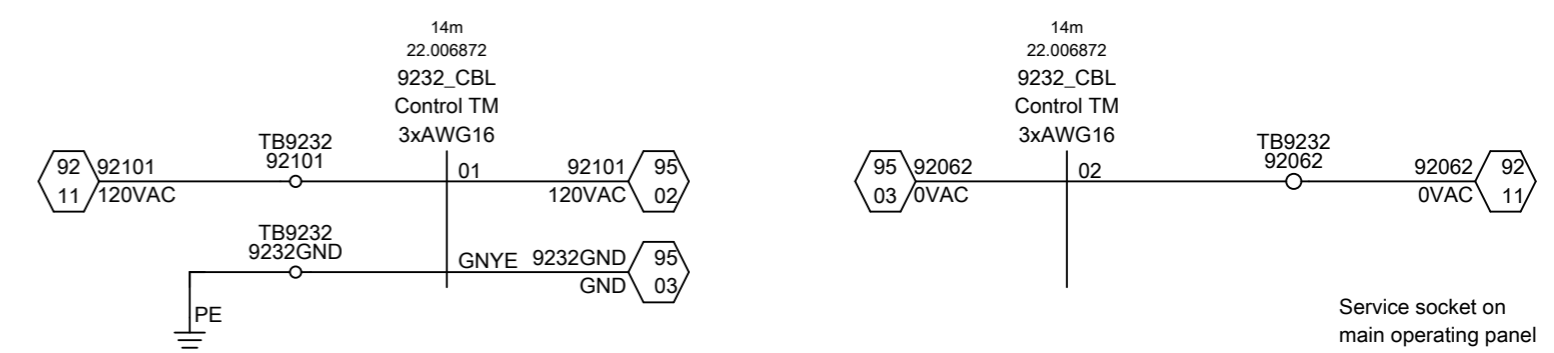
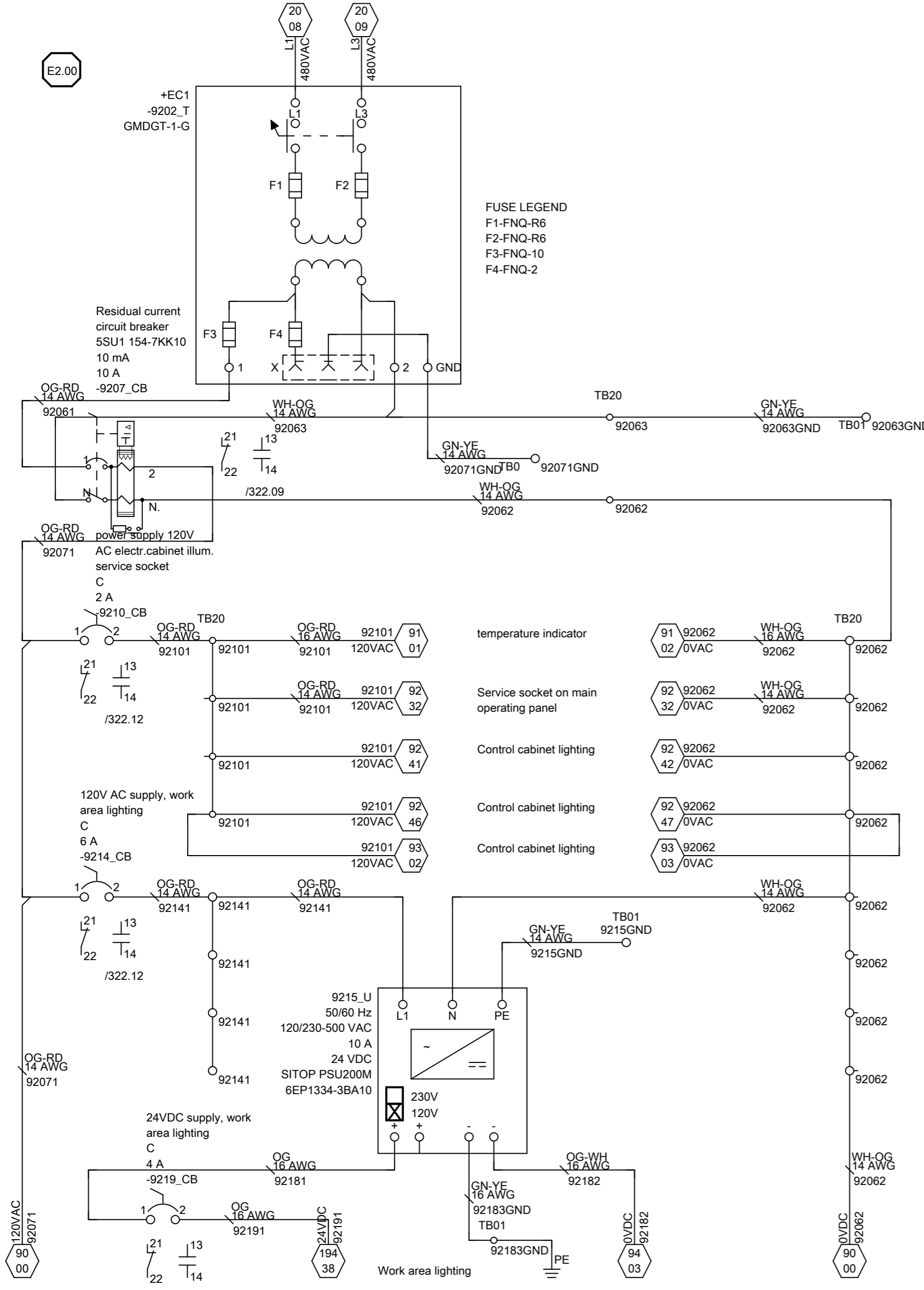
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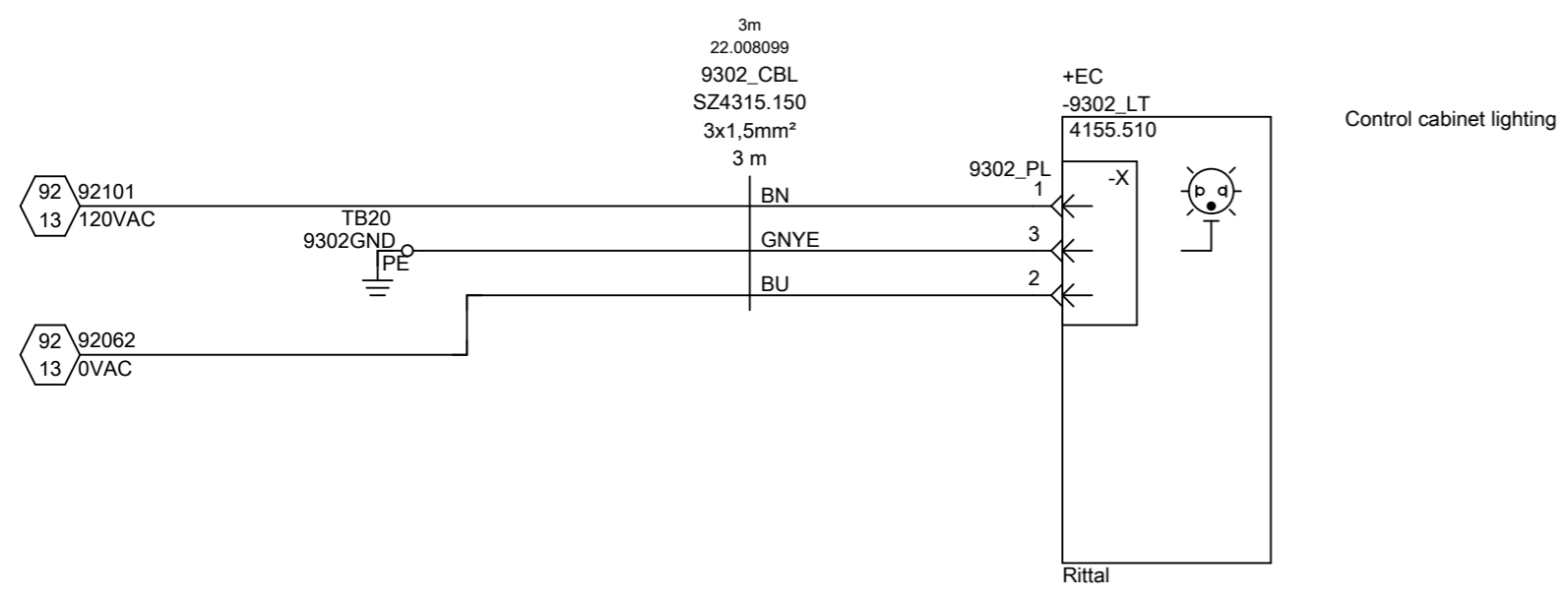
Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	10.06.2016	OE1/SMC	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Temperature display Rittal reserve 120V AC supply				Inv.No.			
				Number of pages	275	Pages	91
ePLAN P8 2.2.5		=54800		90	Page	92	



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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 pages 275 Pages 92	
power supply 120V AC				ePLAN P8 2.2.5 =54800	
				91	93

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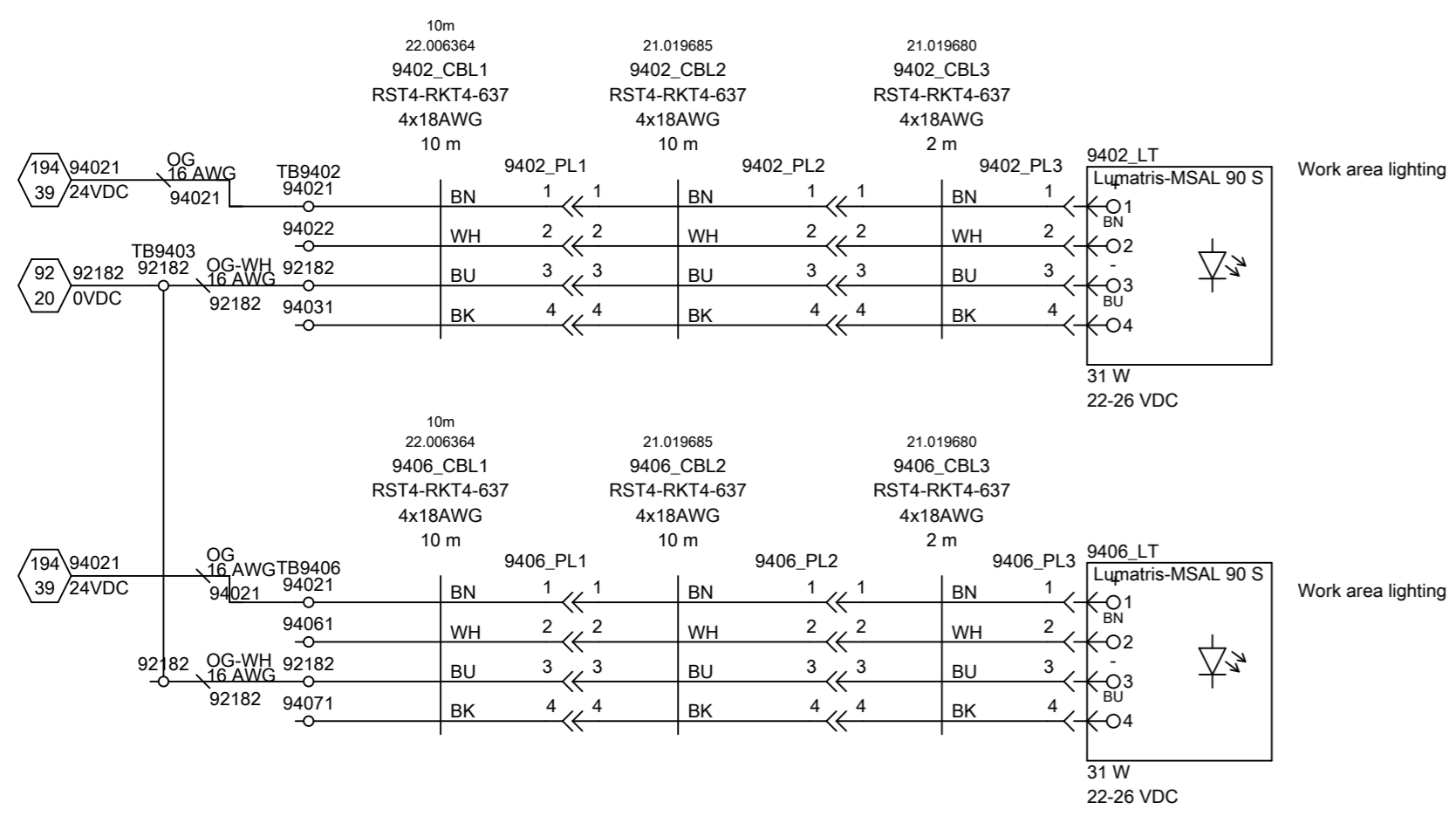


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Reserve
power supply 120V AC

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Supply 120V AC				Inv.No.	
				Number of pages 275 Pages 93	
ePLAN P8 2.2.5		=54800		◀ 92 Page 94 ▶	

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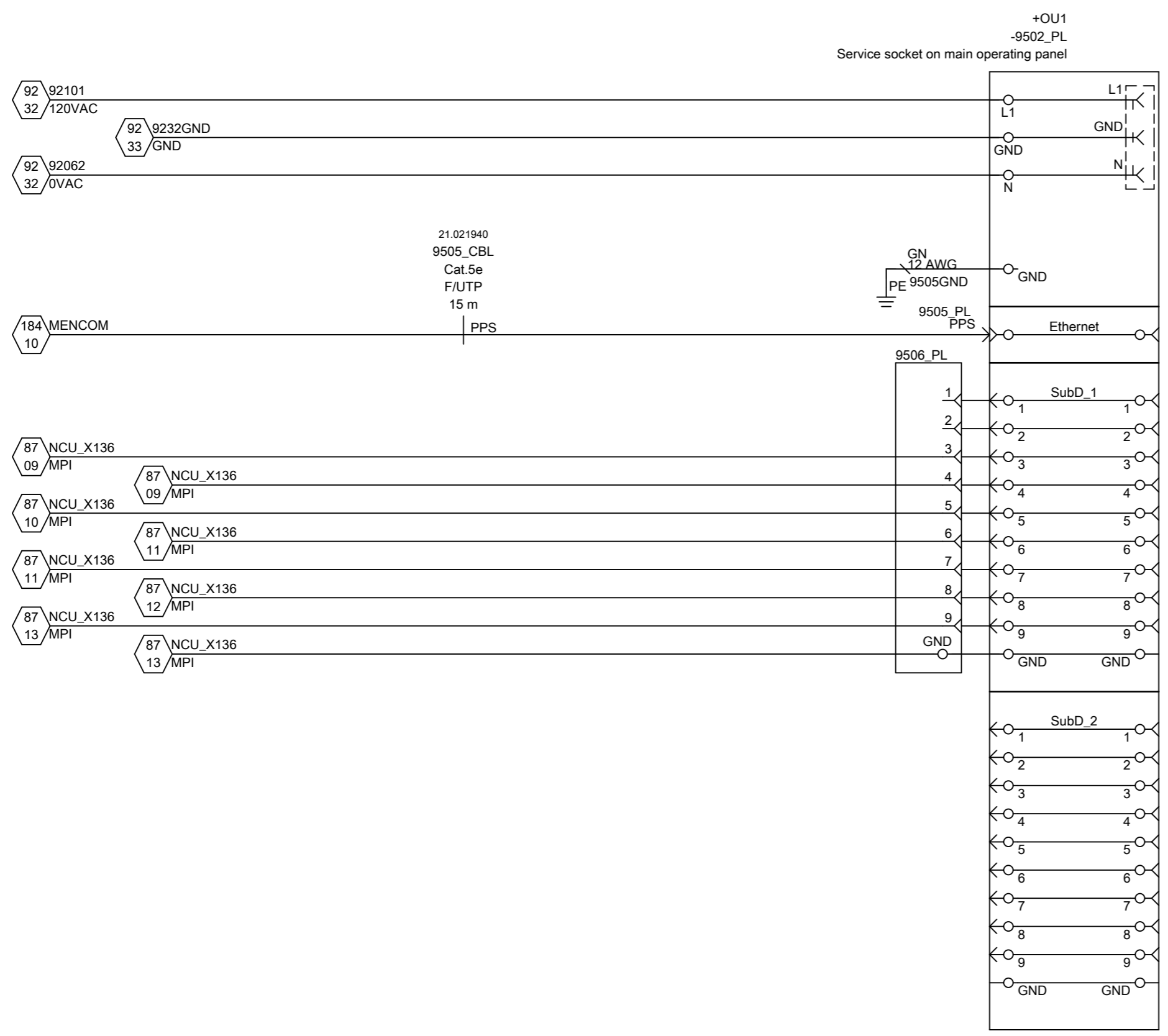


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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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 pages 275 Pages 94	
=54800				93 Page 95	

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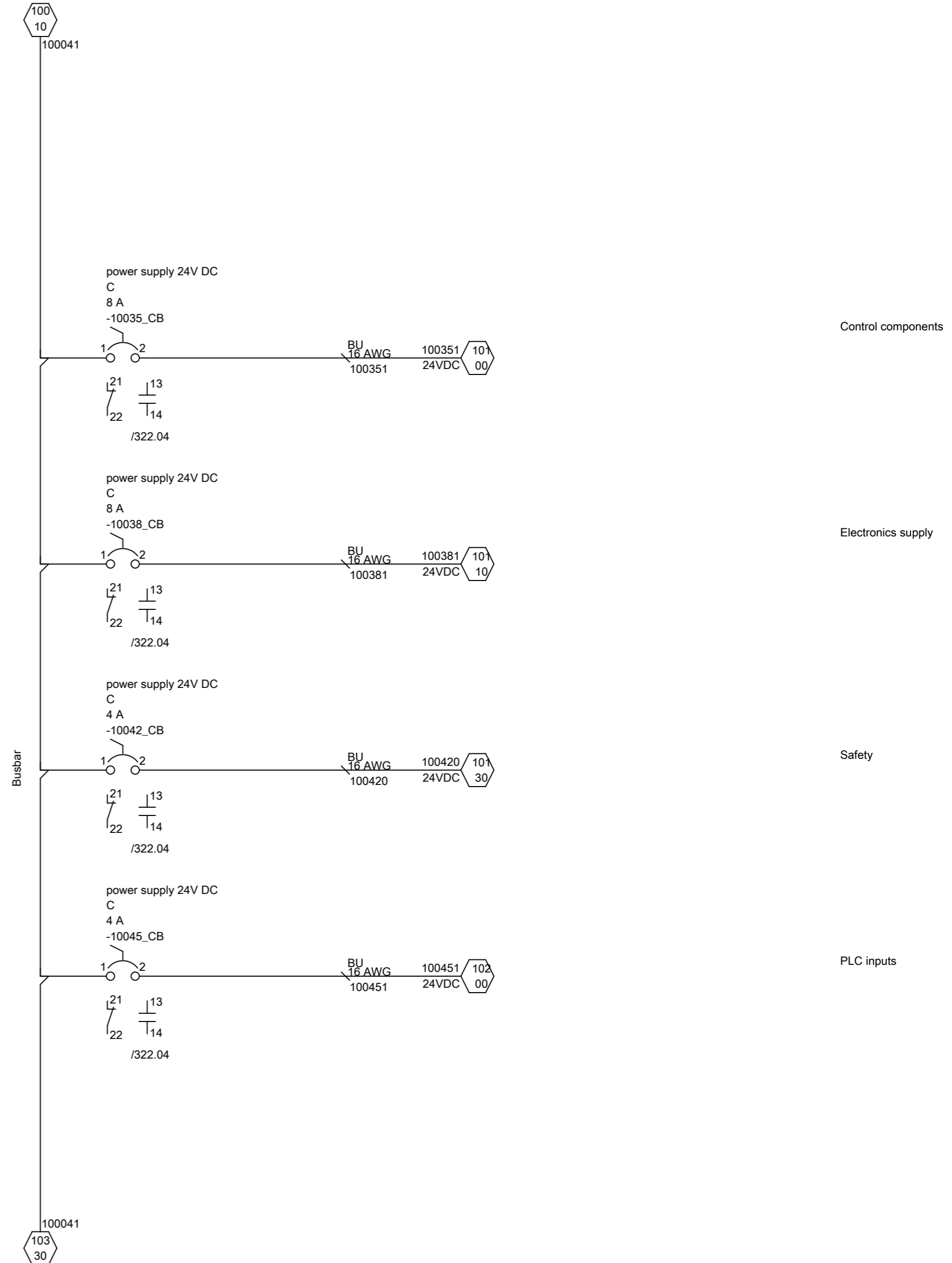
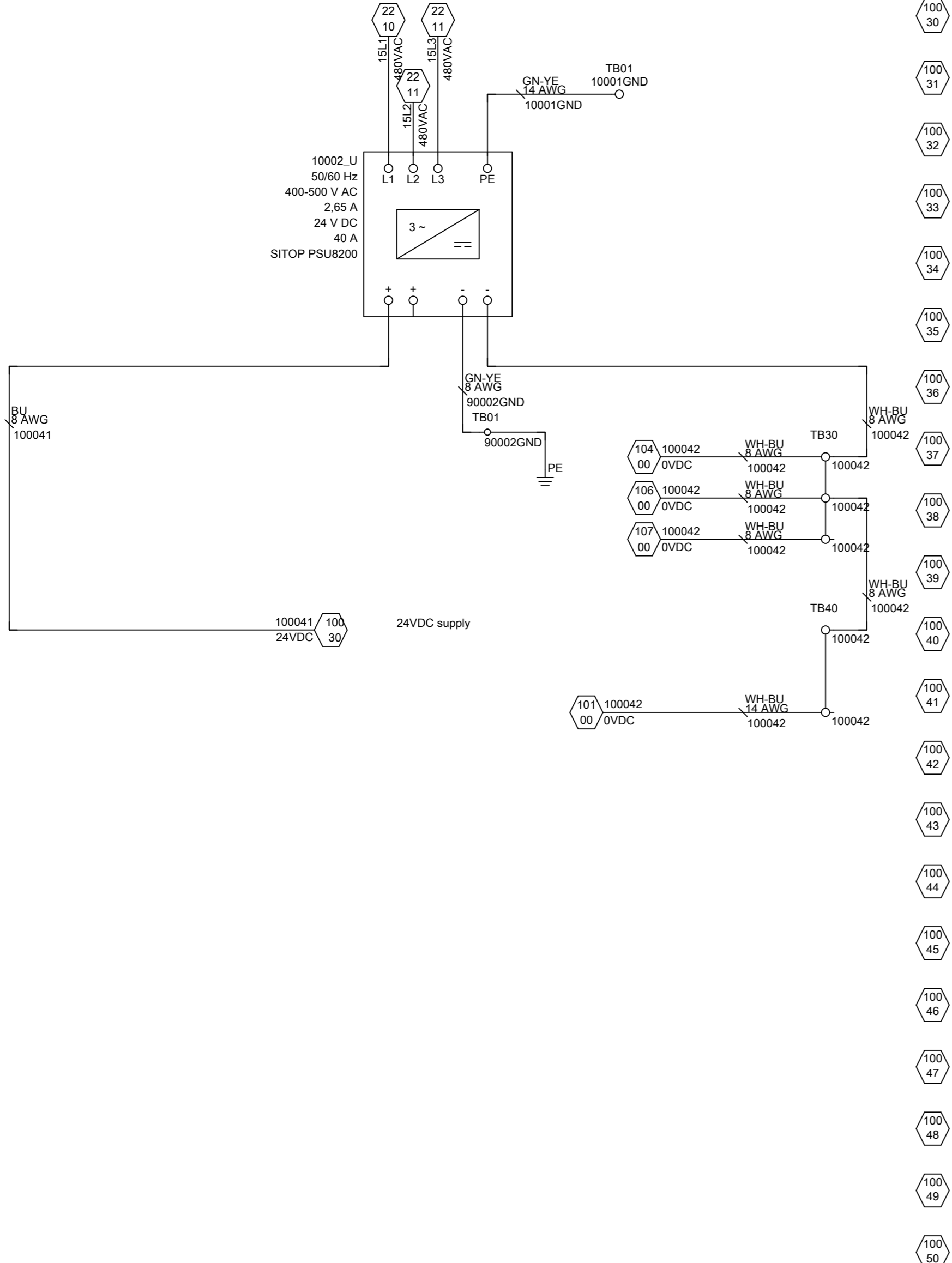


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
MENCOM - interface				Inv.No.		
ePLAN P8 2.2.5				=54800	Number of pages 275	Page 95
				94	Page	96

Reserve
page 96-99

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	29.06.2015	AHP3/RIG			
Reserve page 96-99				Inv.No.	
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ePLAN P8 2.2.5		=54800		◀ 95 Page 100 ▶	

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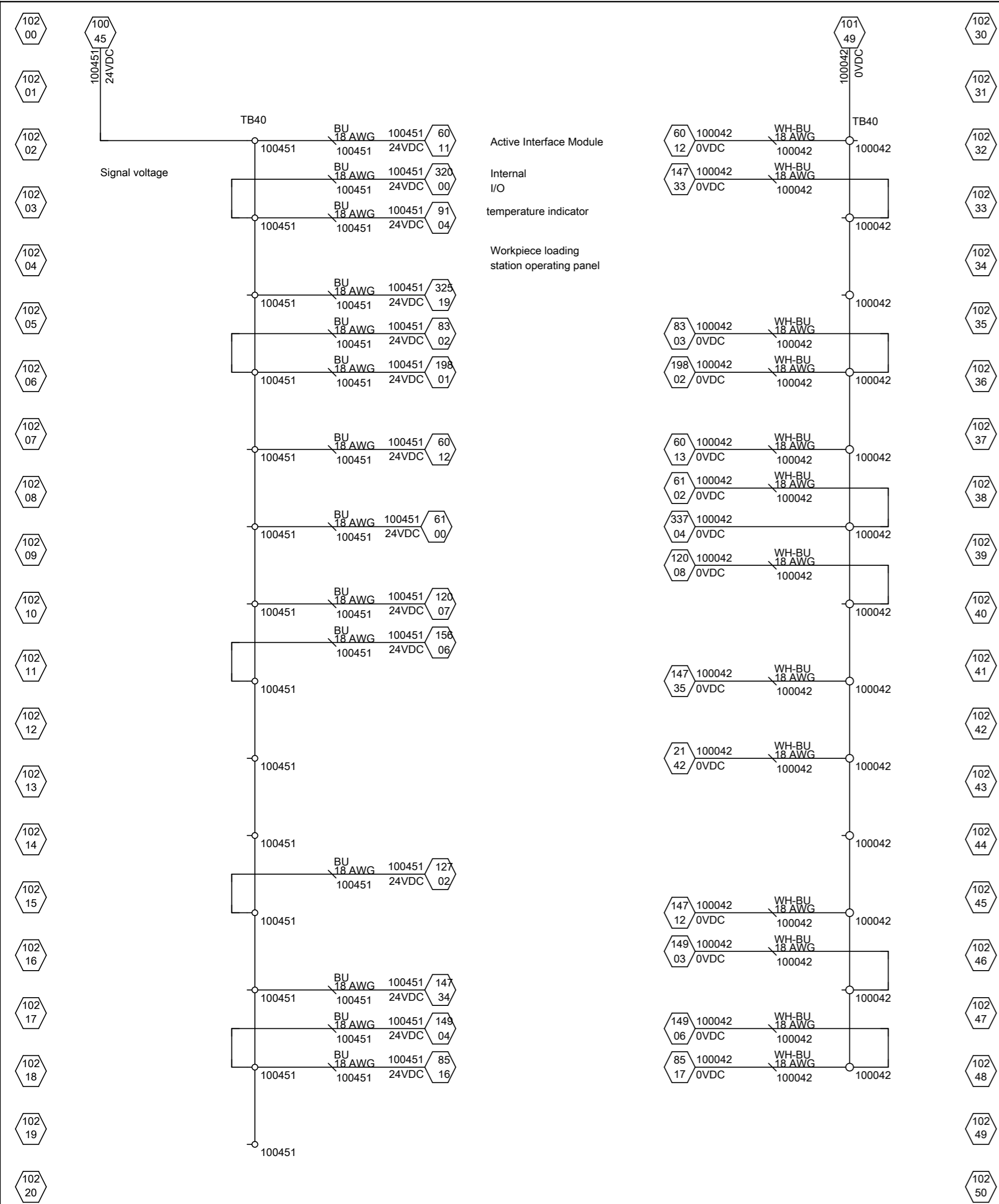
Control components

Electronics supply

Safety

PLC inputs

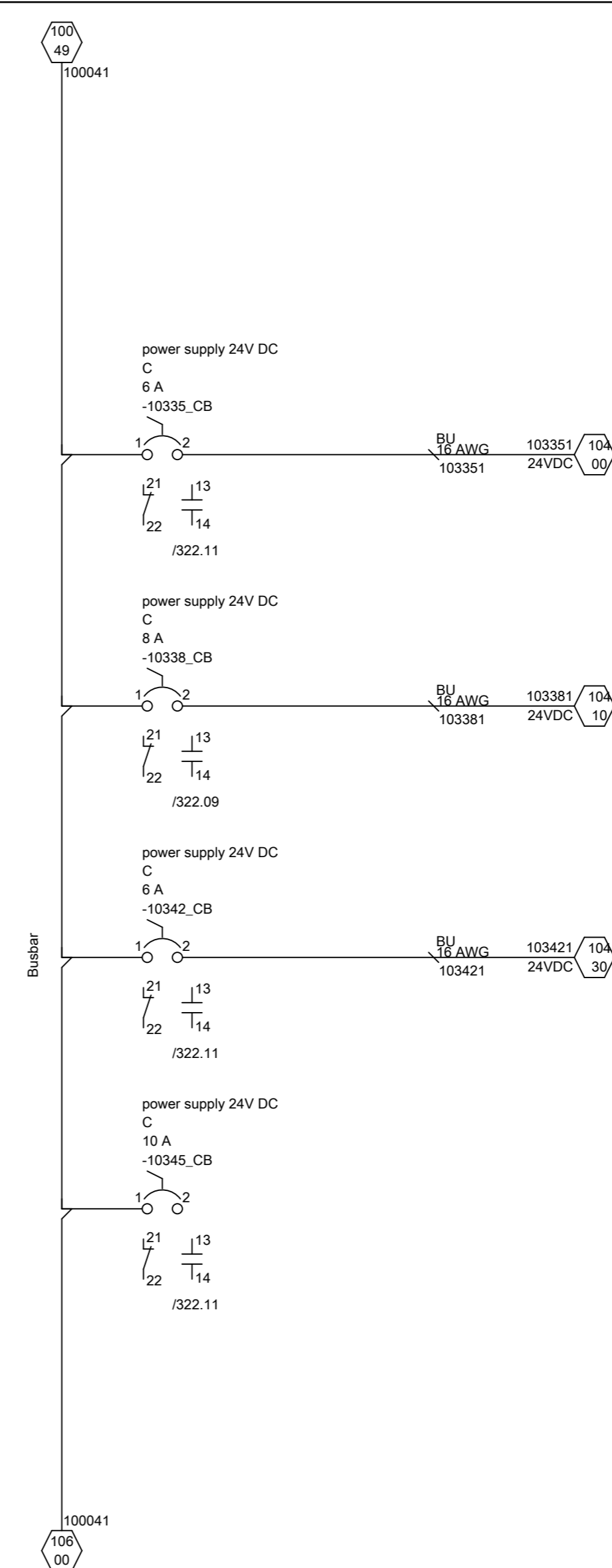
Project description P-009081				Project JIC_EP05480000	
				Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
				Number of pages 275 Pages 100	
ePLAN P8 2.2.5		=54800		96 Page 101	



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	19.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
power supply 24V DC				Inv.No.		
Number of pages				275	Pages	102
ePLAN P8 2.2.5		=54800		101	Page	103

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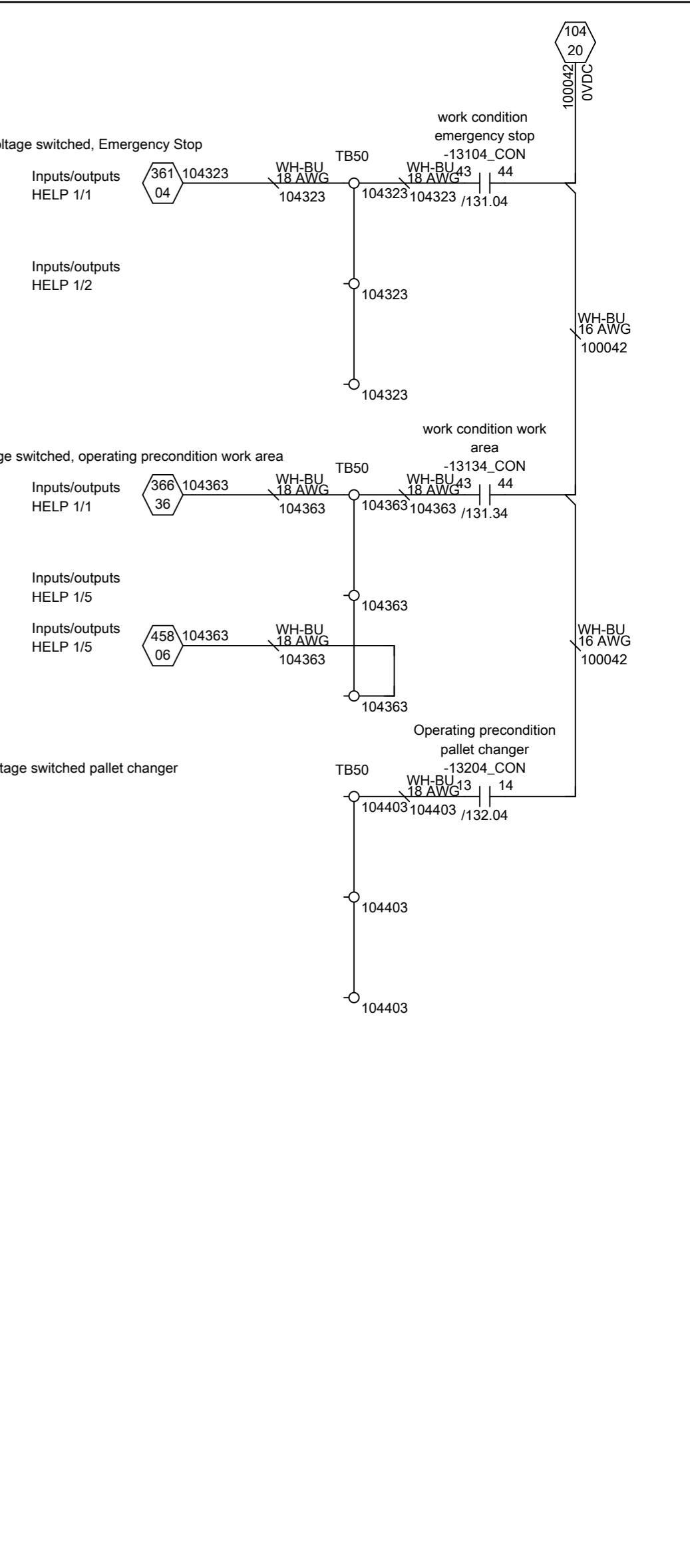
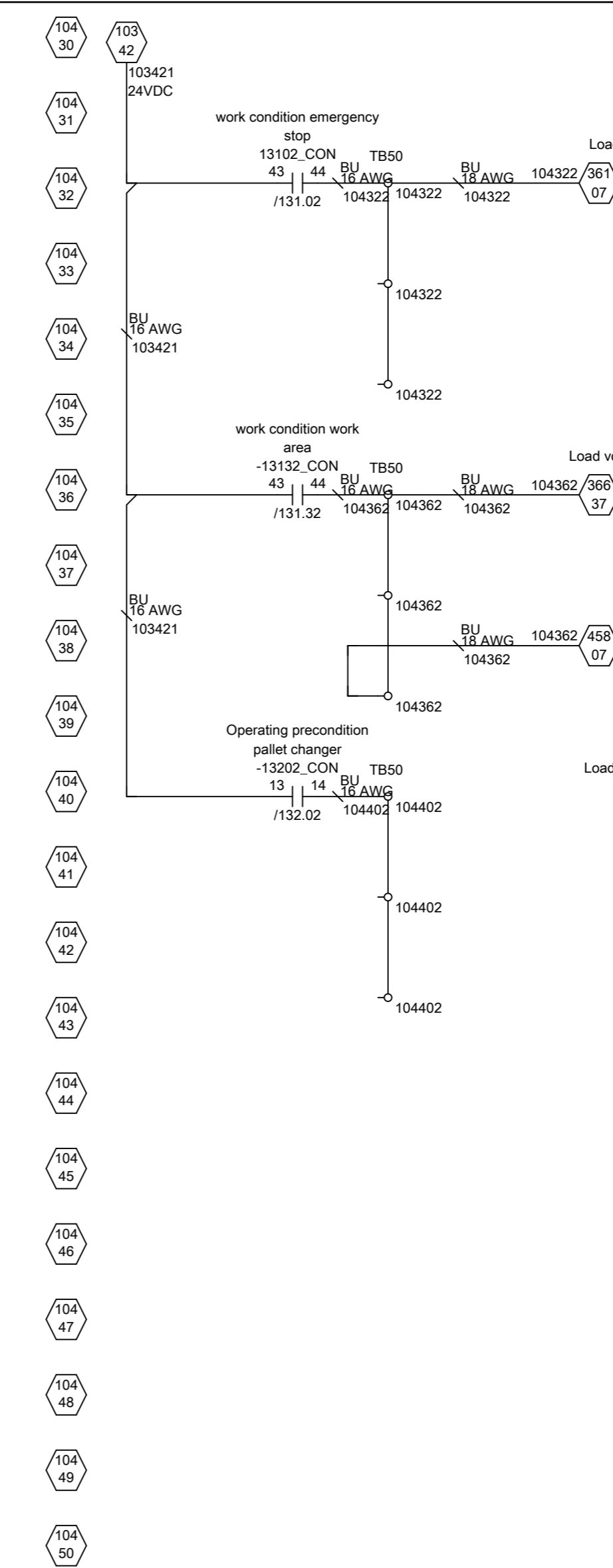
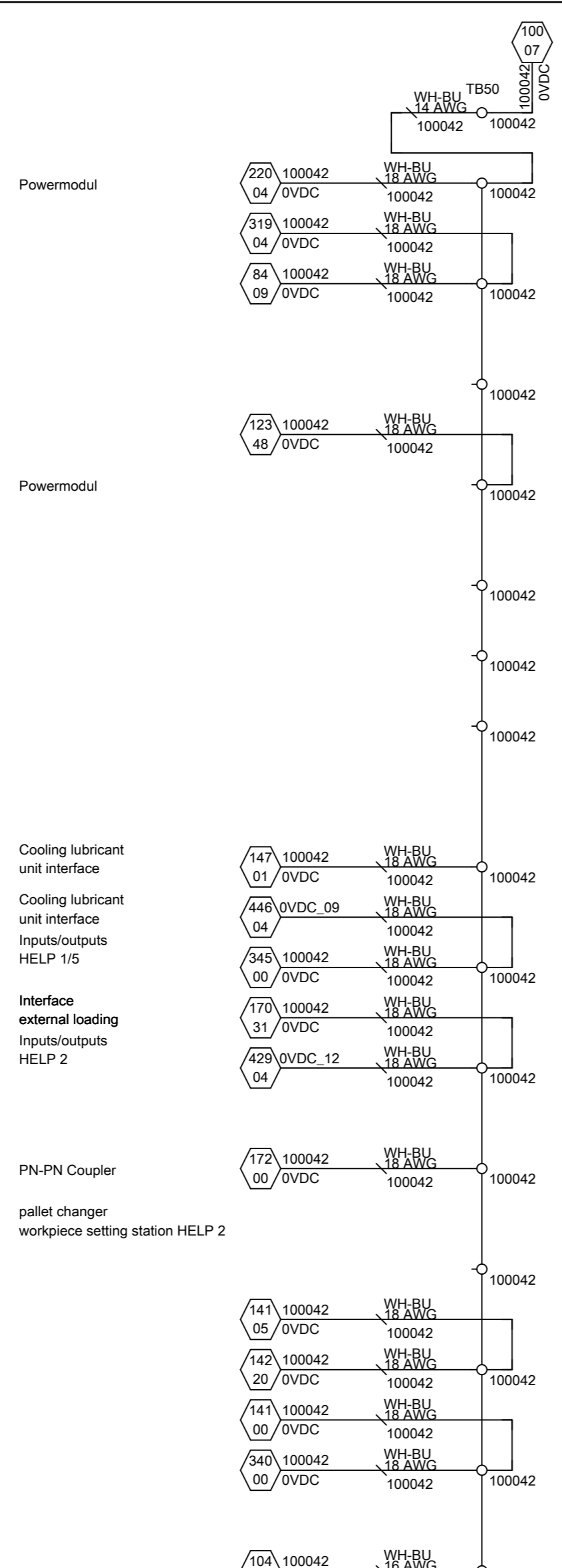
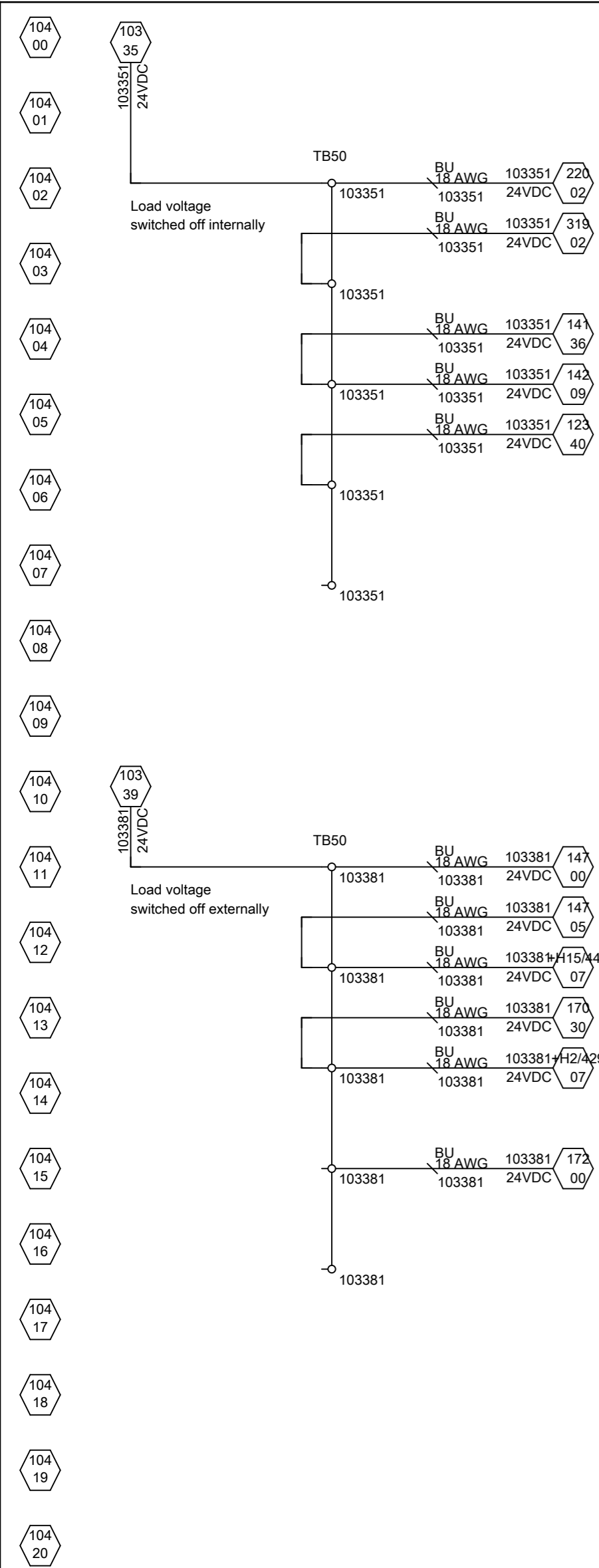
Load voltage
switched off internally

Load voltage
switched off externally

Load voltage
switched

Load voltage
switched

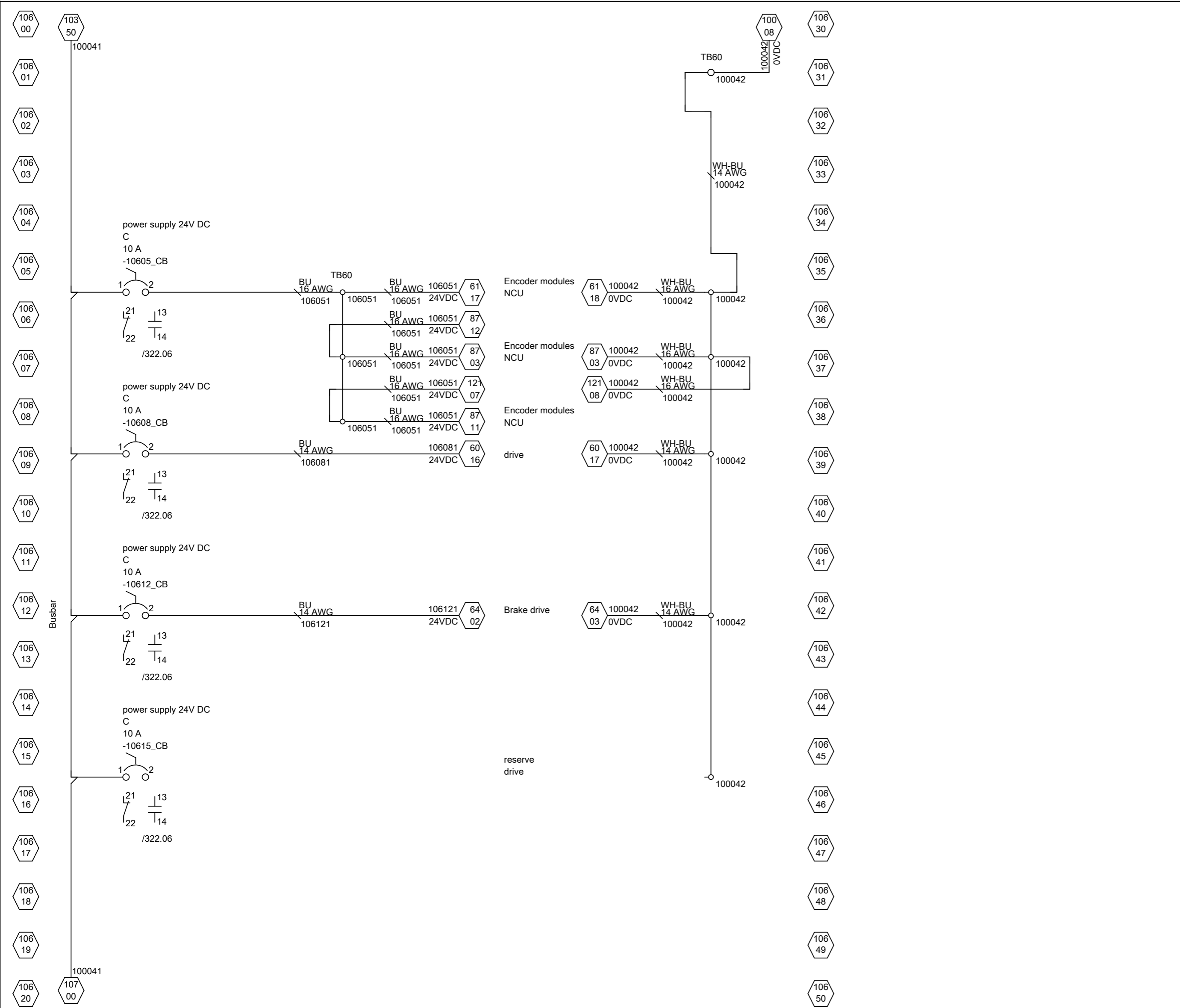
Project description P-009081				Project JIC_EP05480000	
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
				Number of pages 275 Pages 103	
ePLAN P8 2.2.5		=54800		102	Page 104



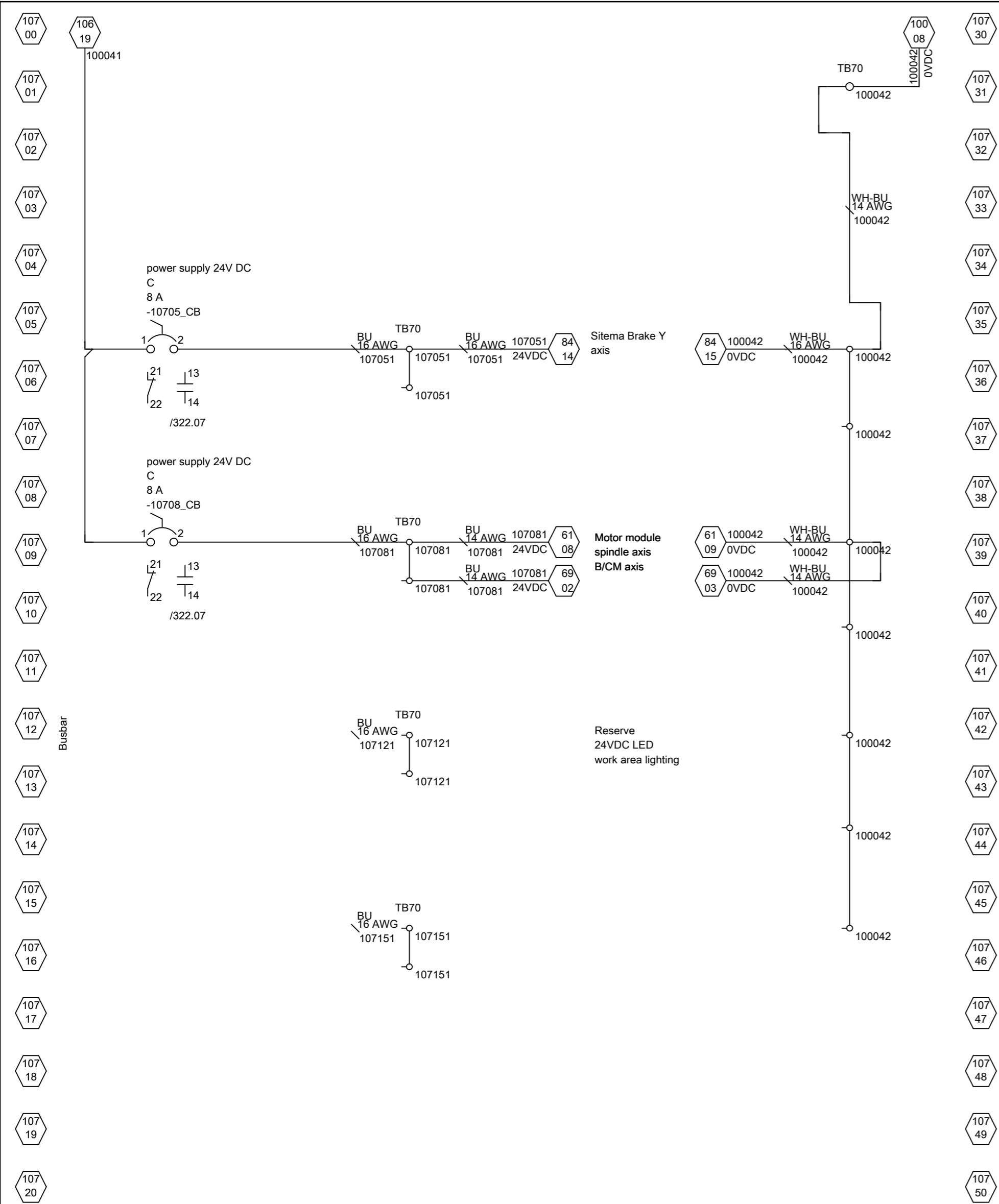
Project description P-009081				Project JIC_EP05480000	
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
power supply 24V DC					
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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 pages 275 Pages 106	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
power supply 24V DC options				Inv.No.	
				Number of pages 275 Pages 107	
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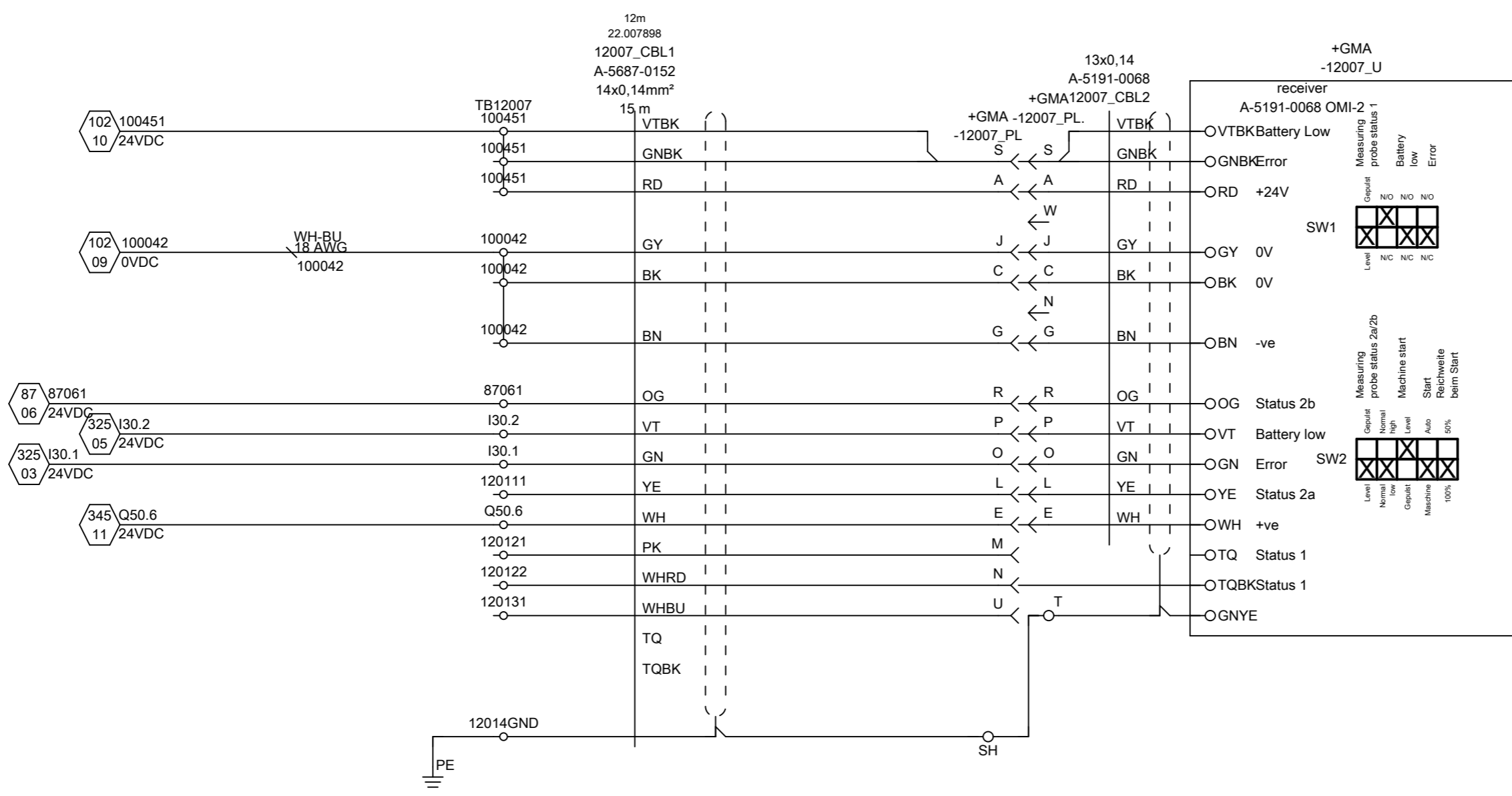
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Reserve
page 108-119

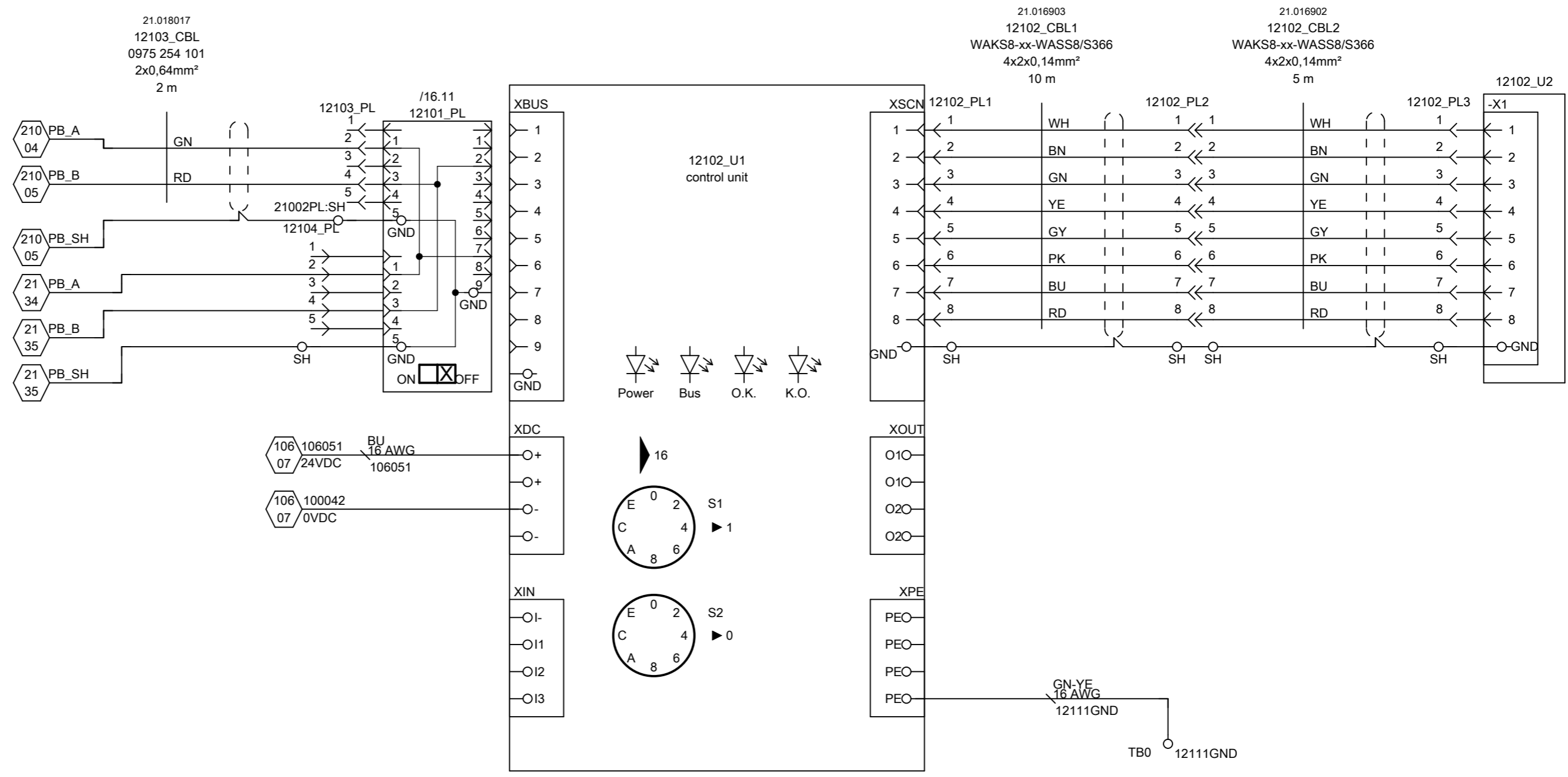
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
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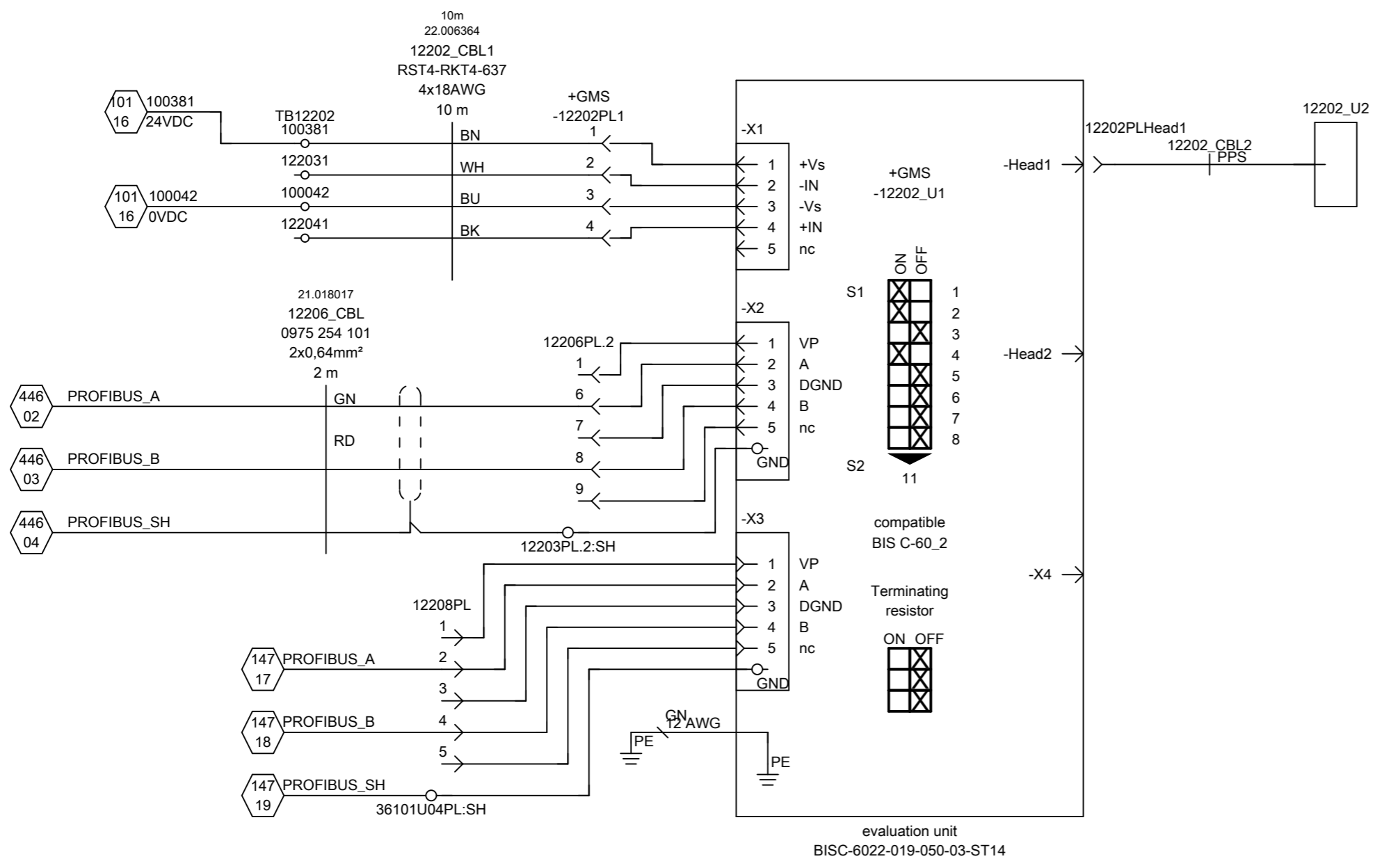


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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
measuring probe				Inv.No.	
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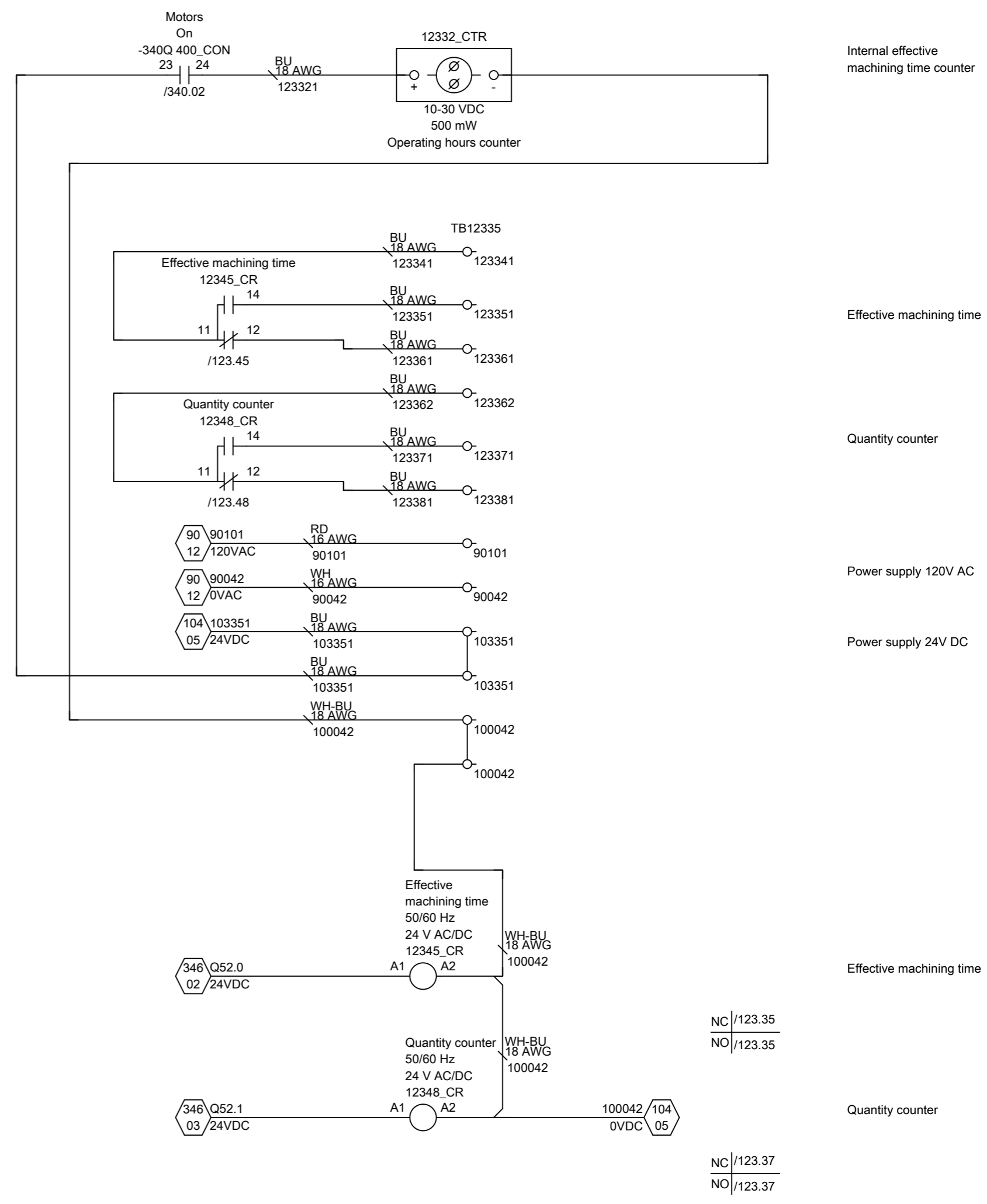
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DRAWN	26.05.2015	AHP3/GMI			
drill fracture sensing				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool coding				Inv.No.	
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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-009081				Project JIC_EP05480000	
				Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	27.10.2015	AHP3/EWD			
Tool cleaning device, interface runtime/quantity recording				Inv.No.	
ePLAN P8 2.2.5				=54800	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHECK						
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.		
Vibration analysis						
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
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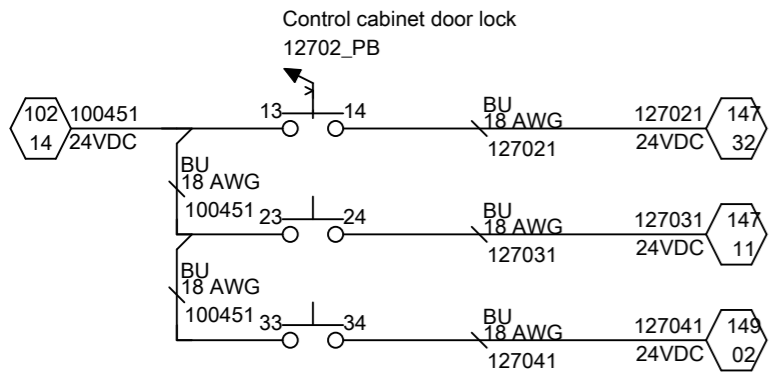
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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CHECK					
CHANGE	19.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Control cabinet door lock					
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve					
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve					
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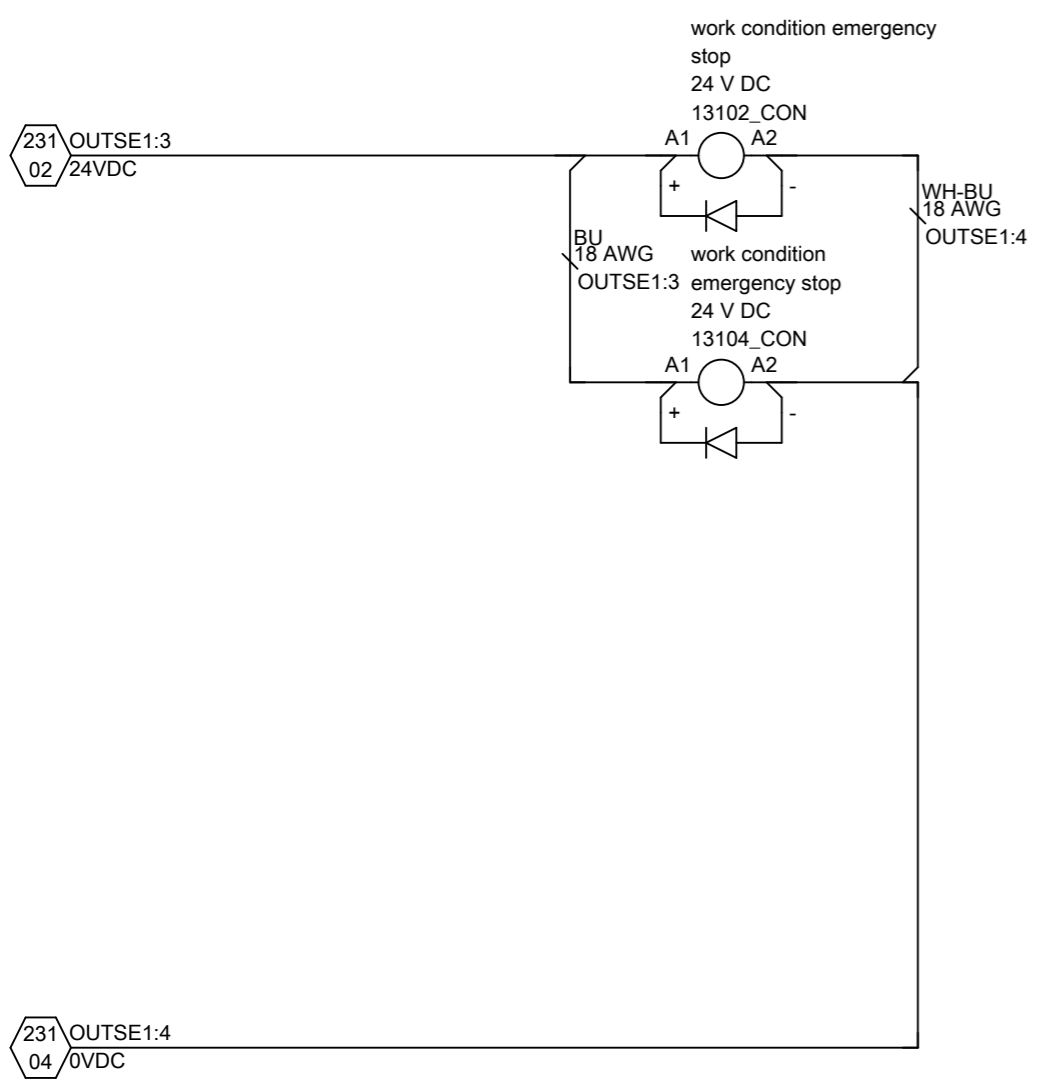
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	13.07.2015	AHP3/RIG		Inv.No.	
Reserve				Number of pages 275 Pages 130	
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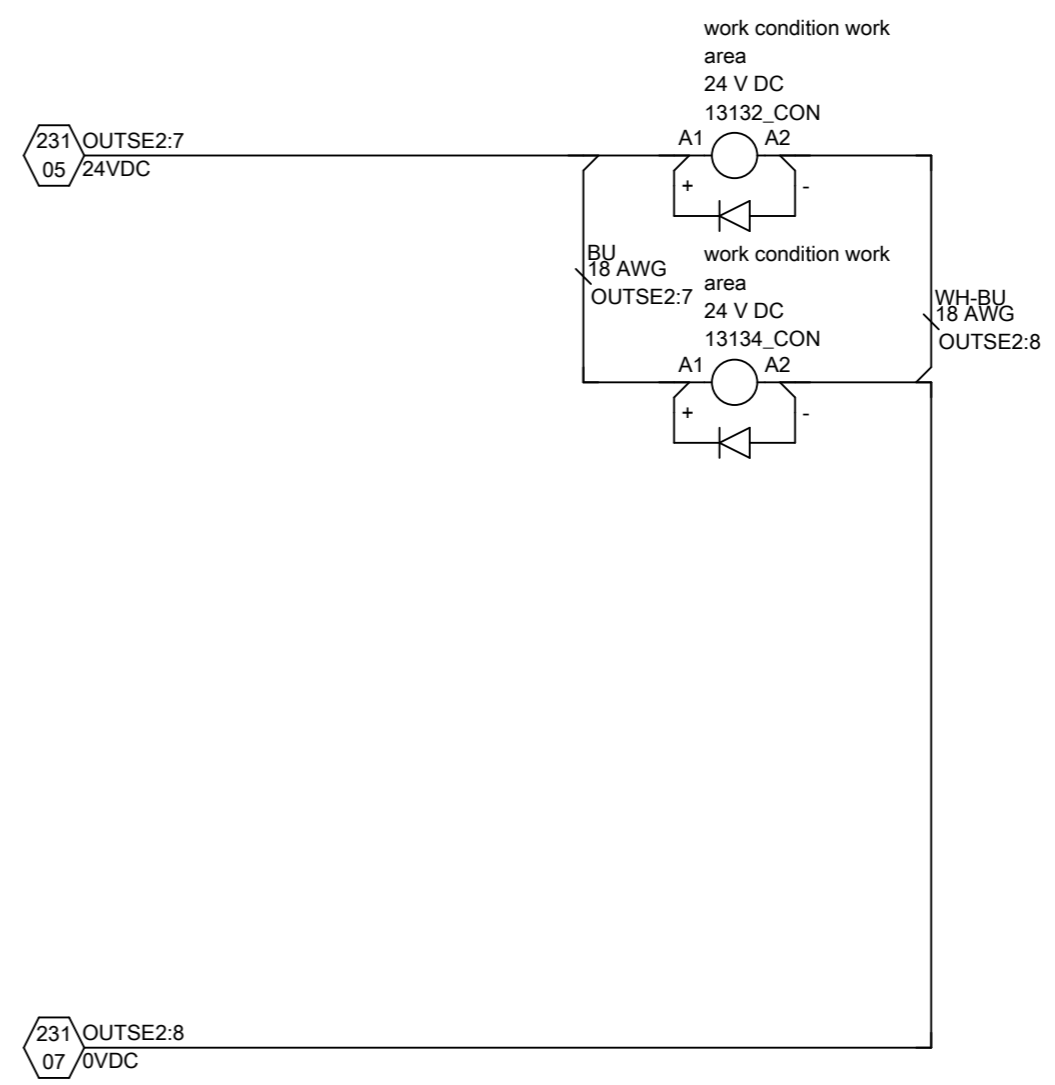
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work condition emergency stop



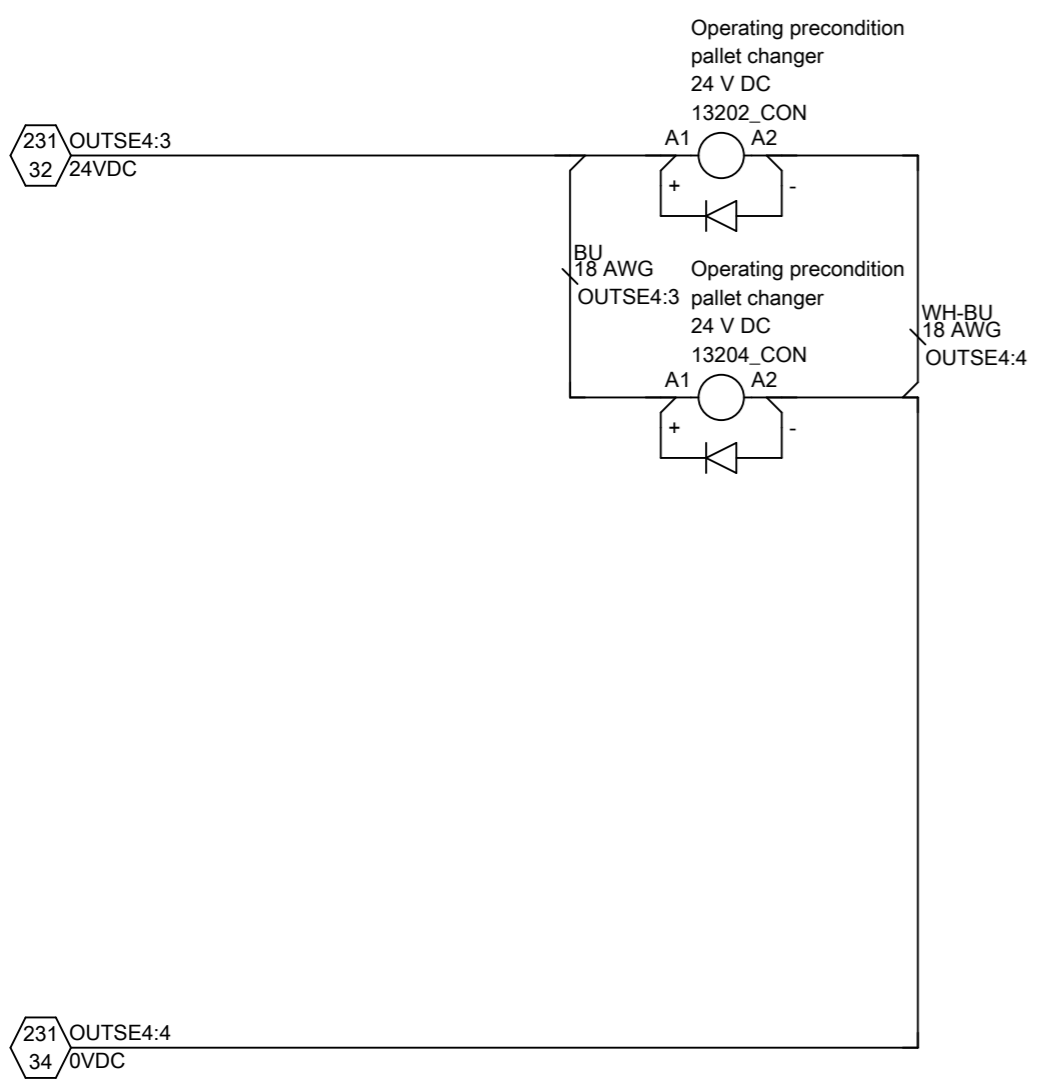
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work condition work area

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
work condition emergency stop/work area				Inv.No.	
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Operating precondition
pallet changer

Operating precondition
pallet changer

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	10.06.2016	OE1/SMC			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
work condition workpiece handling				Number of pages 275 Pages 132	
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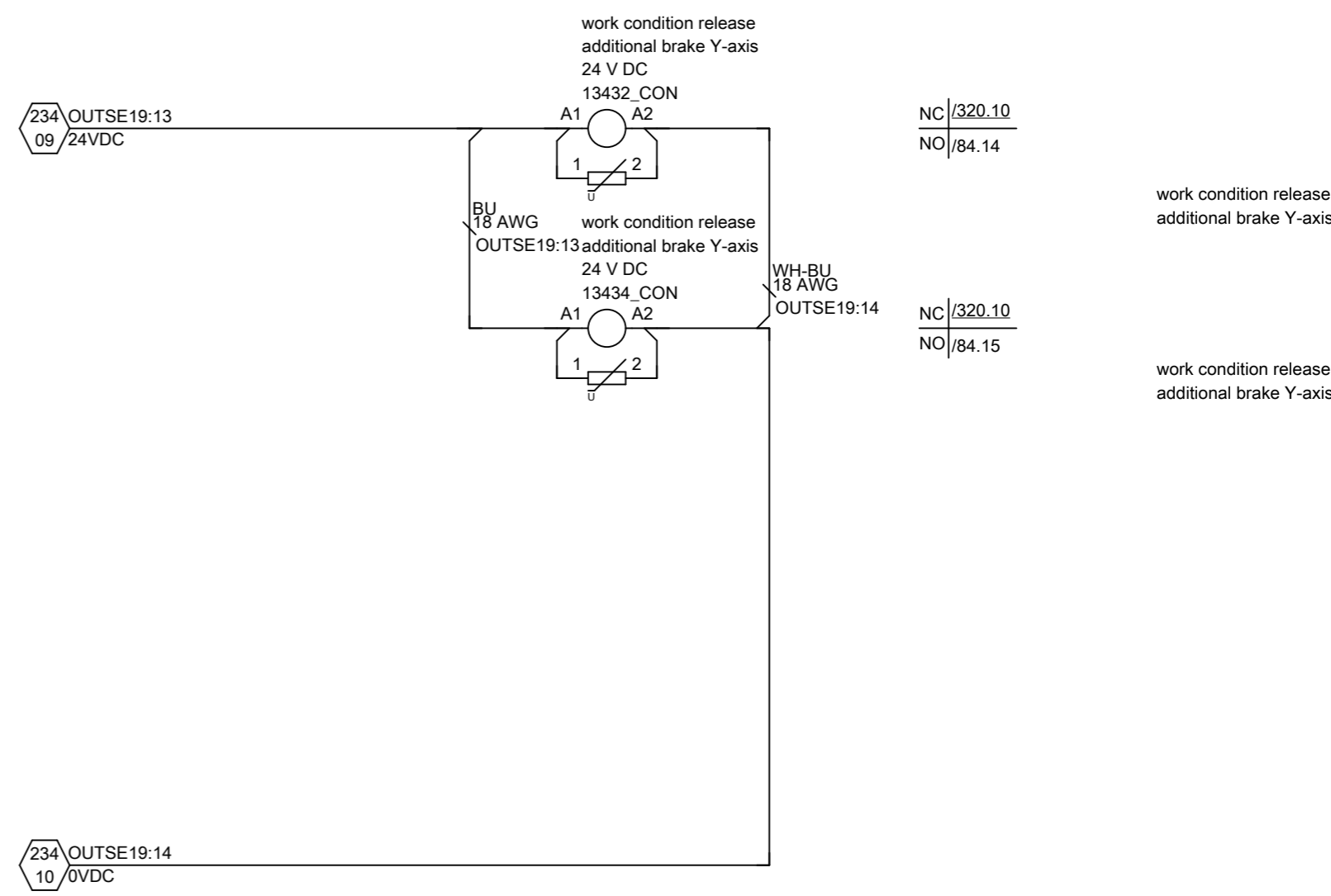
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve operating precondition				Number of pages 275 Page 133	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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.	
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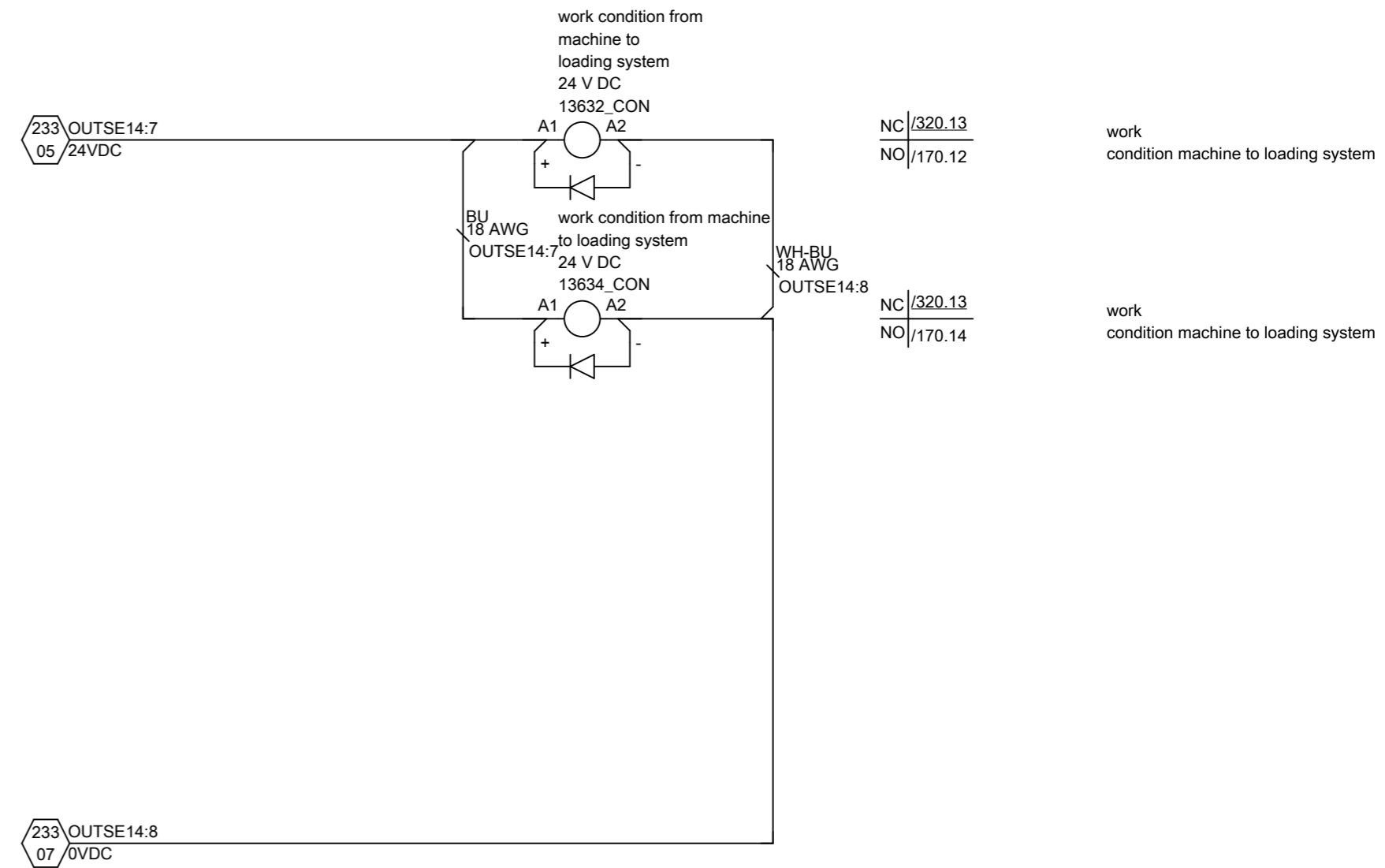
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
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DRAWN	26.05.2015	AHP3/GMI			
Reserve Operating precondition, pallet changer rotary magazine, rotary magazine ratary plate				Inv.No.	
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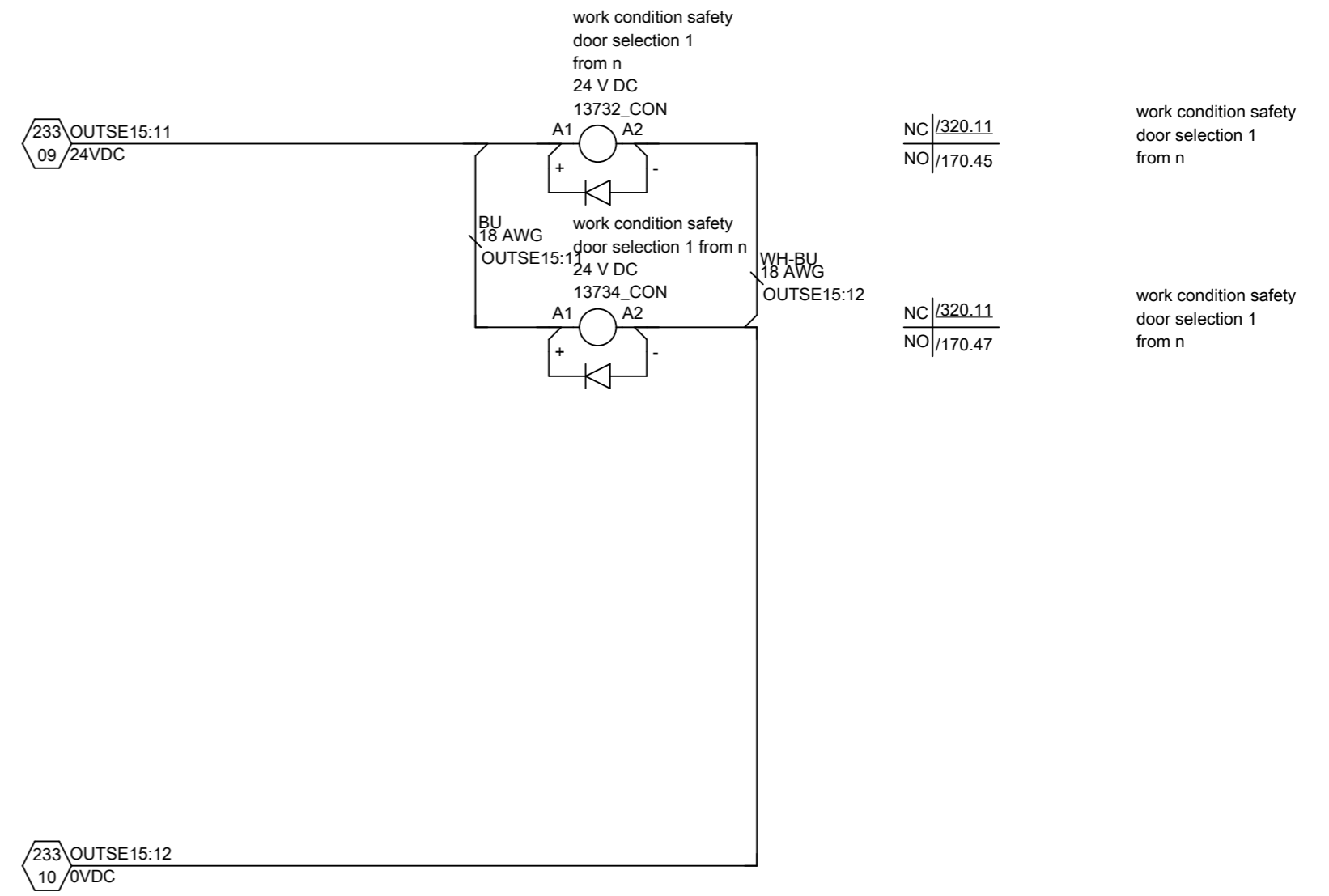


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
work condition external loading				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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.	
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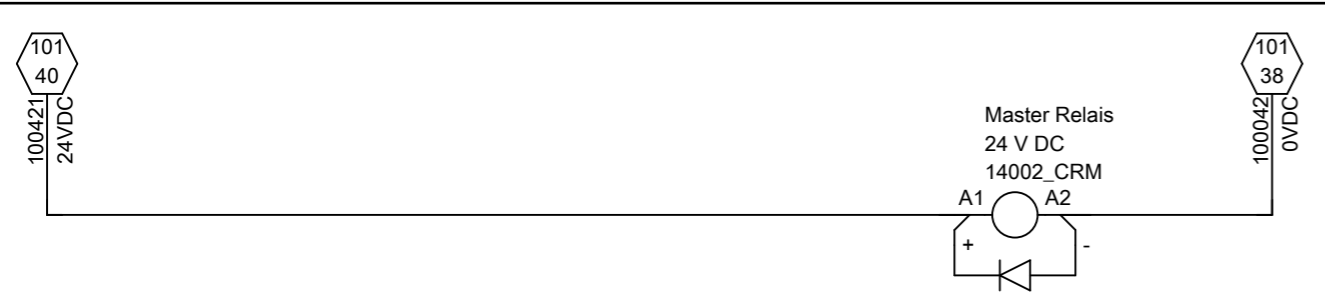
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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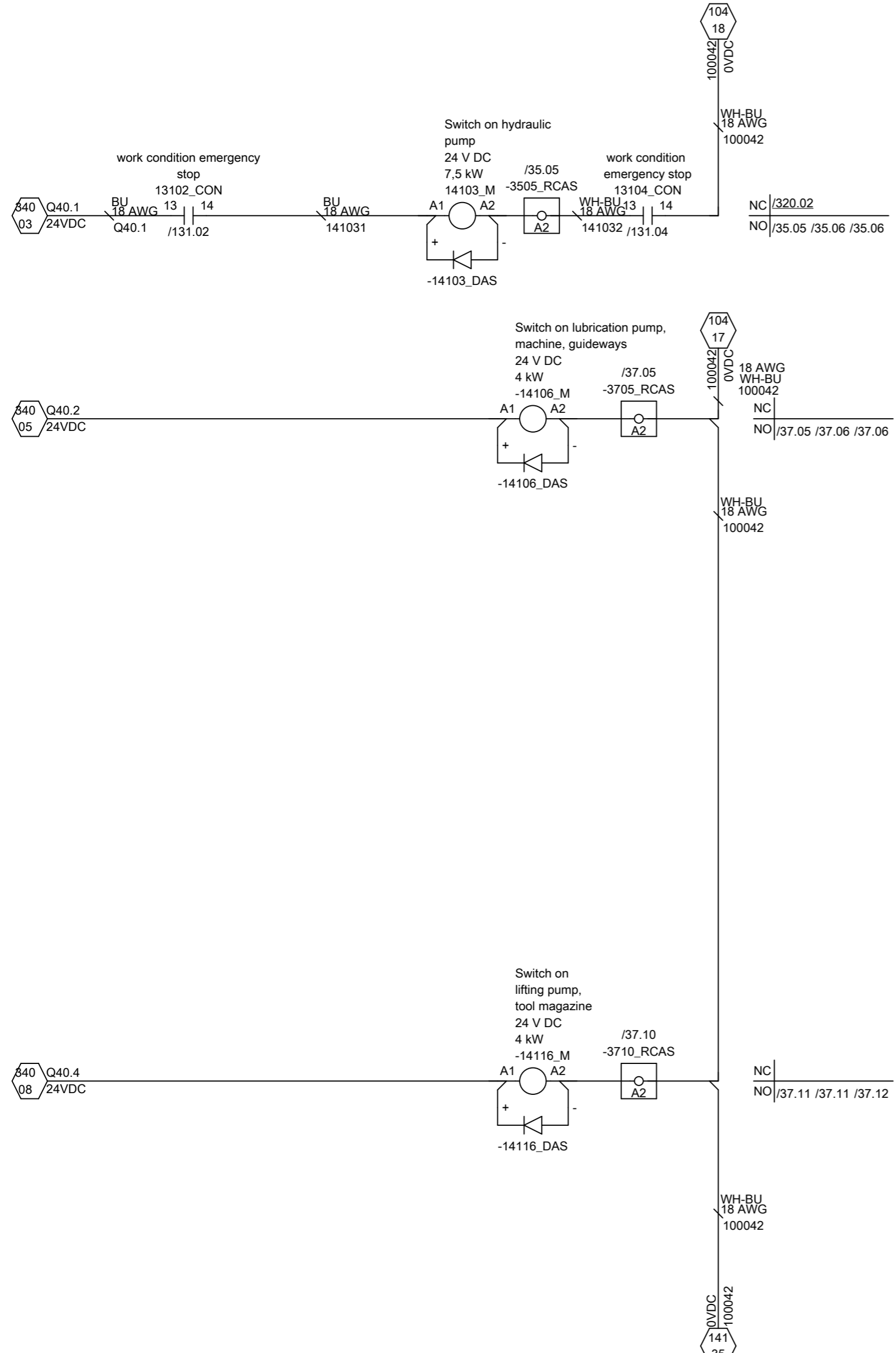


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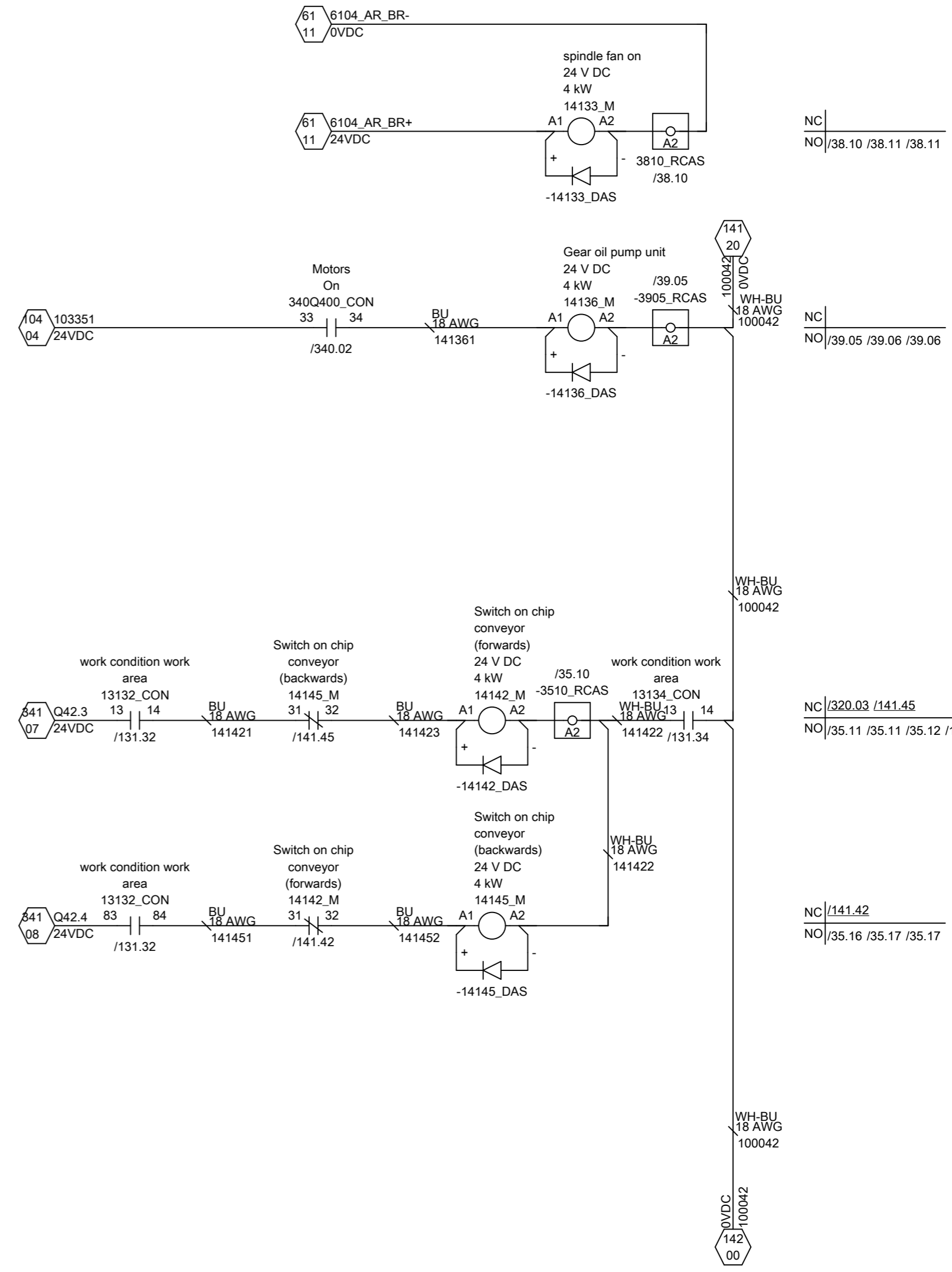
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
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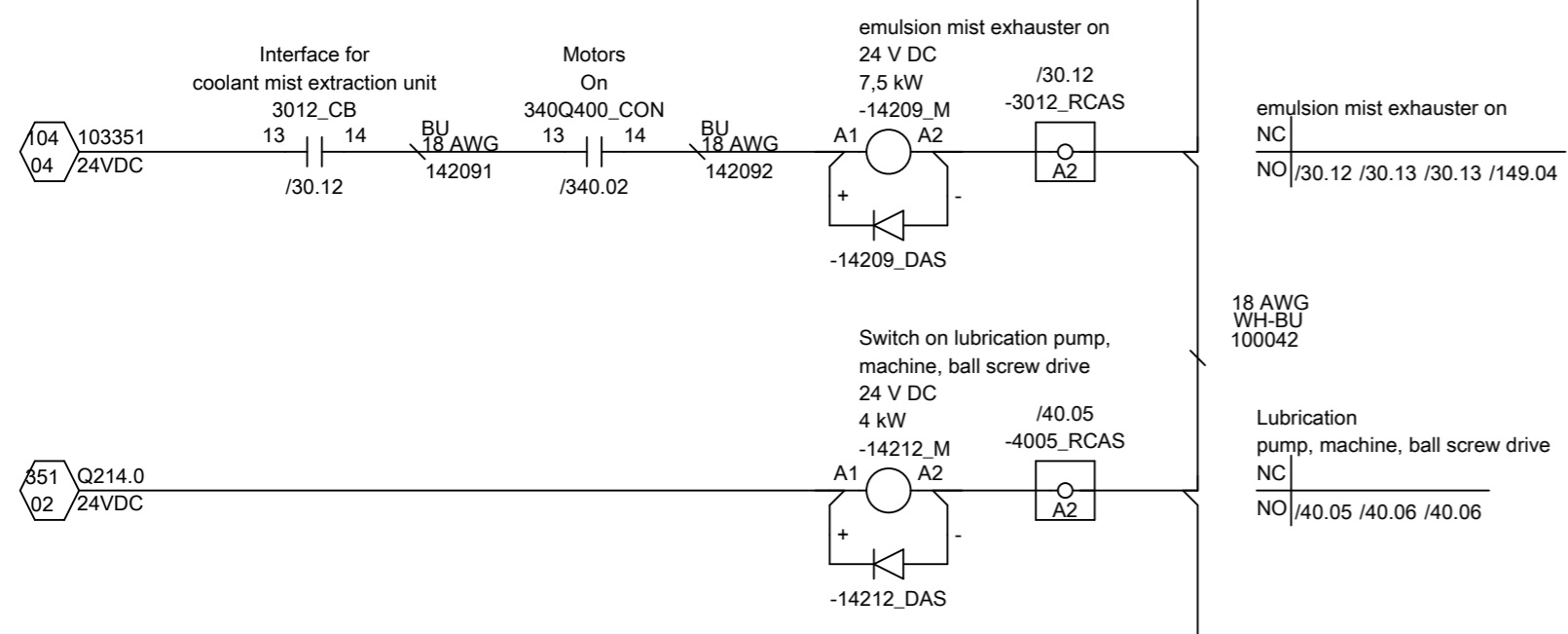


Project description P-009081				Project JIC_EP05480000	
				Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of pages 275 Pages 141	
Controls					
ePLAN P8 2.2.5		=54800		Page 140 Page 142	

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Controls				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 142	
=54800				Page 141 Page 143	

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Two-handed operation tool magazine				Number of pages 275 Pages 143	
ePLAN P8 2.2.5		=54800		142	Page 144

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve page 144 selection				Number of pages 275 Page 144	
ePLAN P8 2.2.5		=54800		143	145

Reserve Volume sensor for pallet clamping check

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Volume sensor for pallet clamping check				Number of pages 275 Page 145	
ePLAN P8 2.2.5		=54800		144	146

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Volume sensor, attachment head clamping, interface adapter				Number of pages 275 Page 146	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Volume sensor, spindle extension					
ePLAN P8 2.2.5				Number of pages 275 Page 148	
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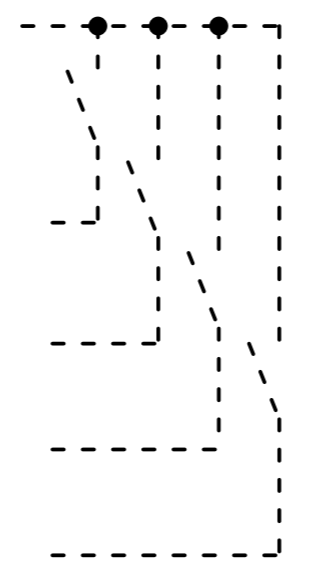
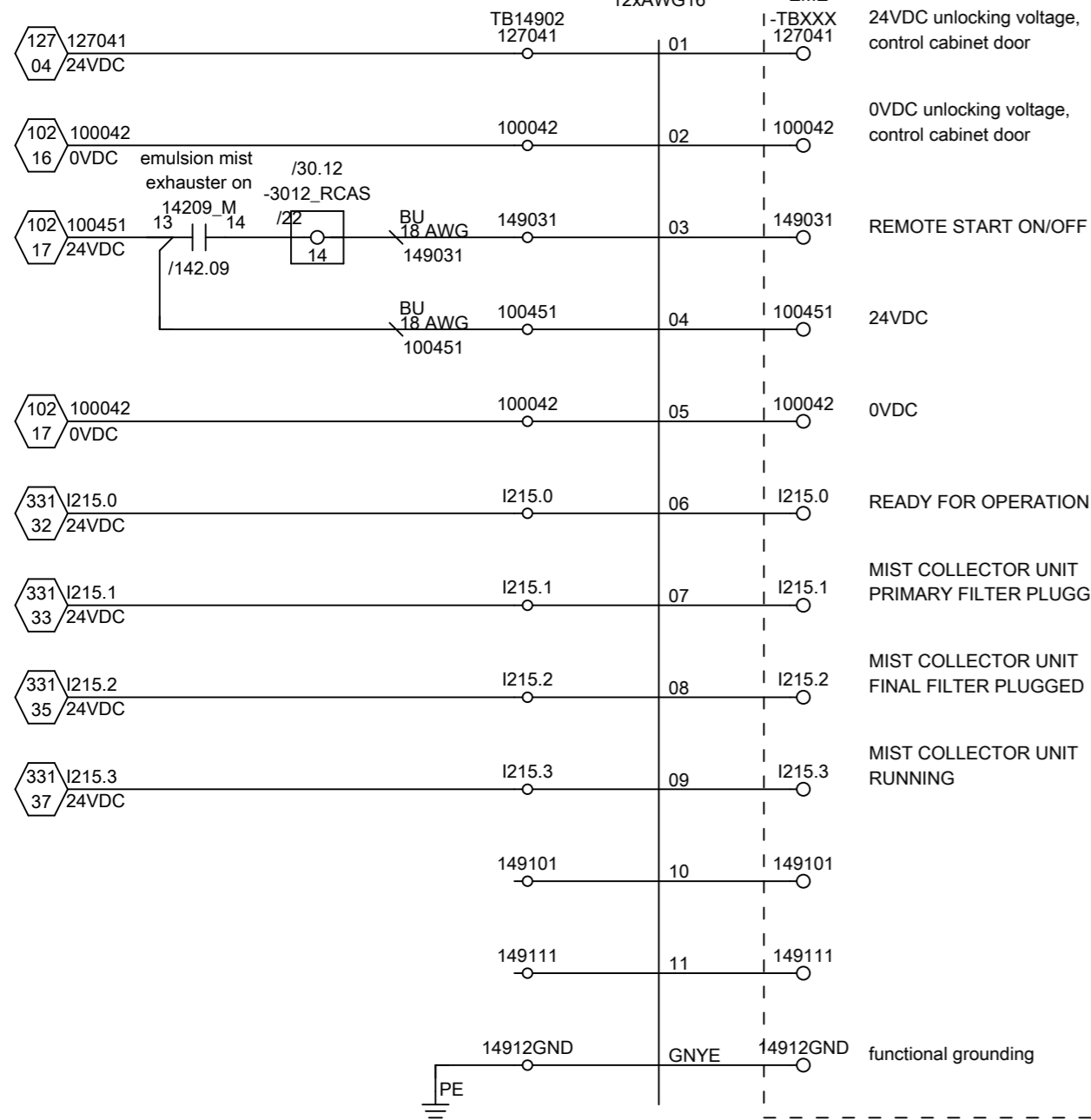
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Interface for coolant mist extraction unit

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+EME
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Donaldson_WSO25-1

Emulsion mist extraction



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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Interface for coolant mist extraction unit				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 149	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Interface for coolant mist extraction unit				Number of pages 275 Pages 150	
ePLAN P8 2.2.5		=54800		149	Page 151

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Minimal quantity lubrication interface				Number of pages 275 Page 151	
ePLAN P8 2.2.5		=54800		150	Page 152

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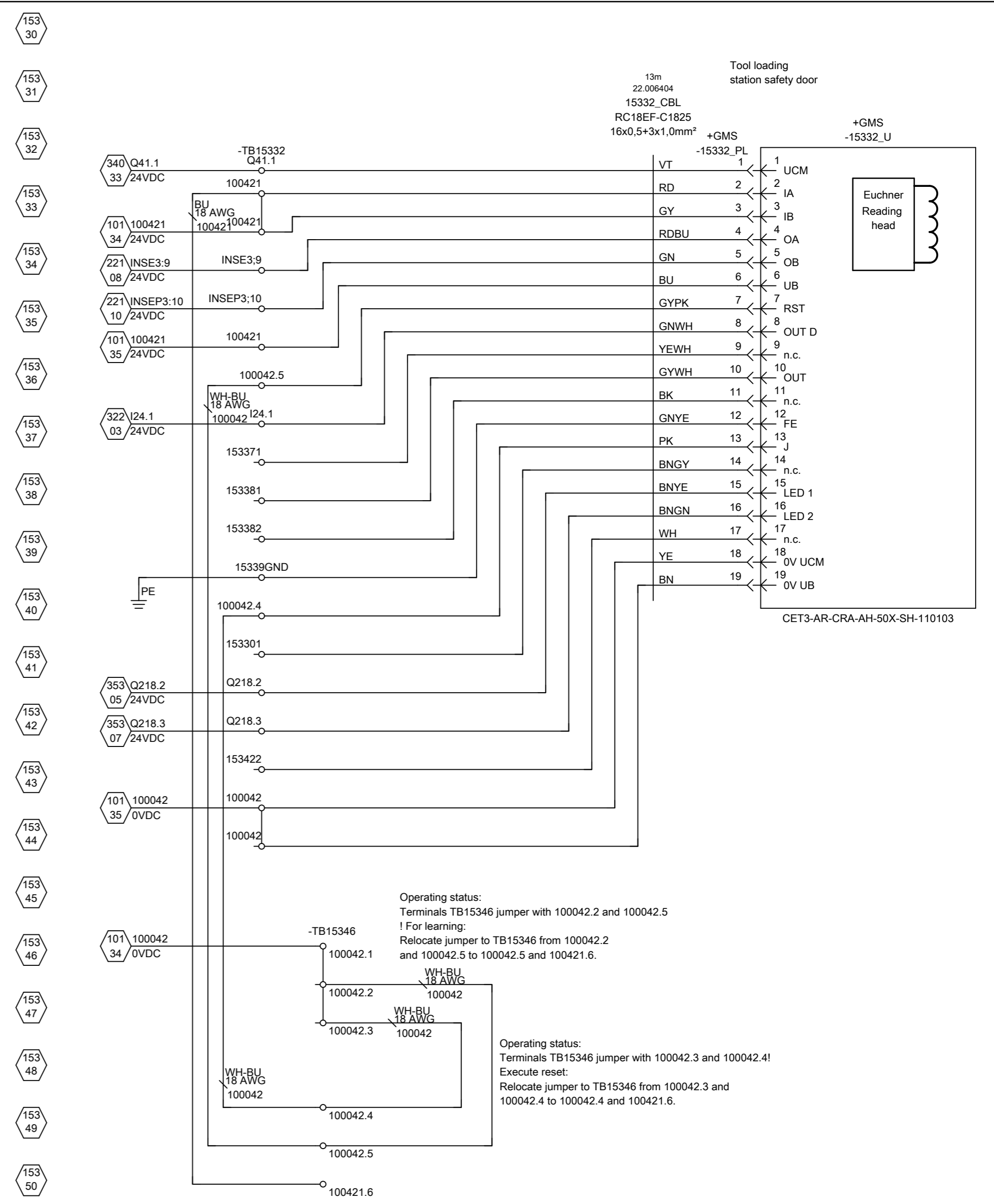
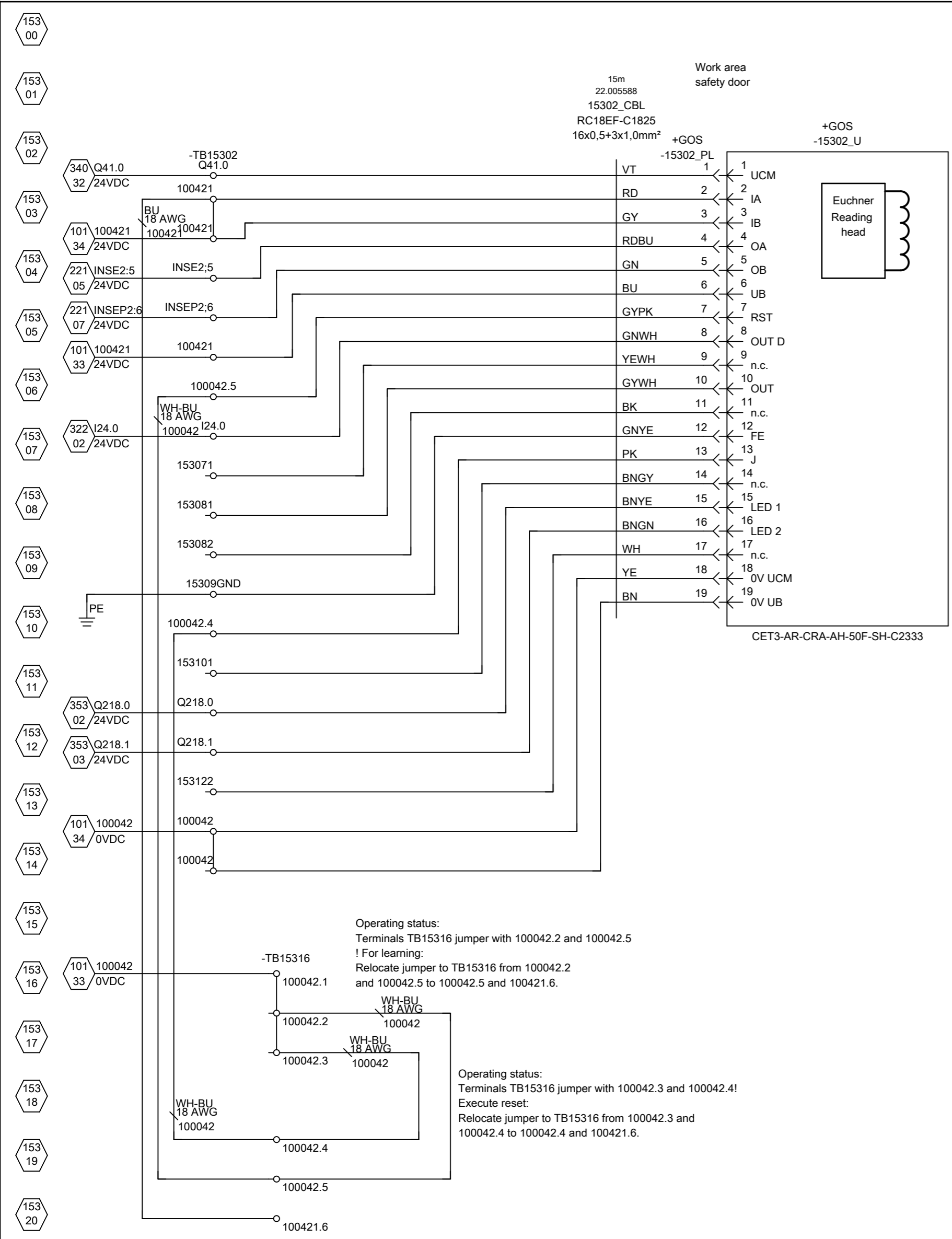
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Rack-type magazine measurement				Number of pages 275 Page 152	
ePLAN P8 2.2.5		=54800		151	153



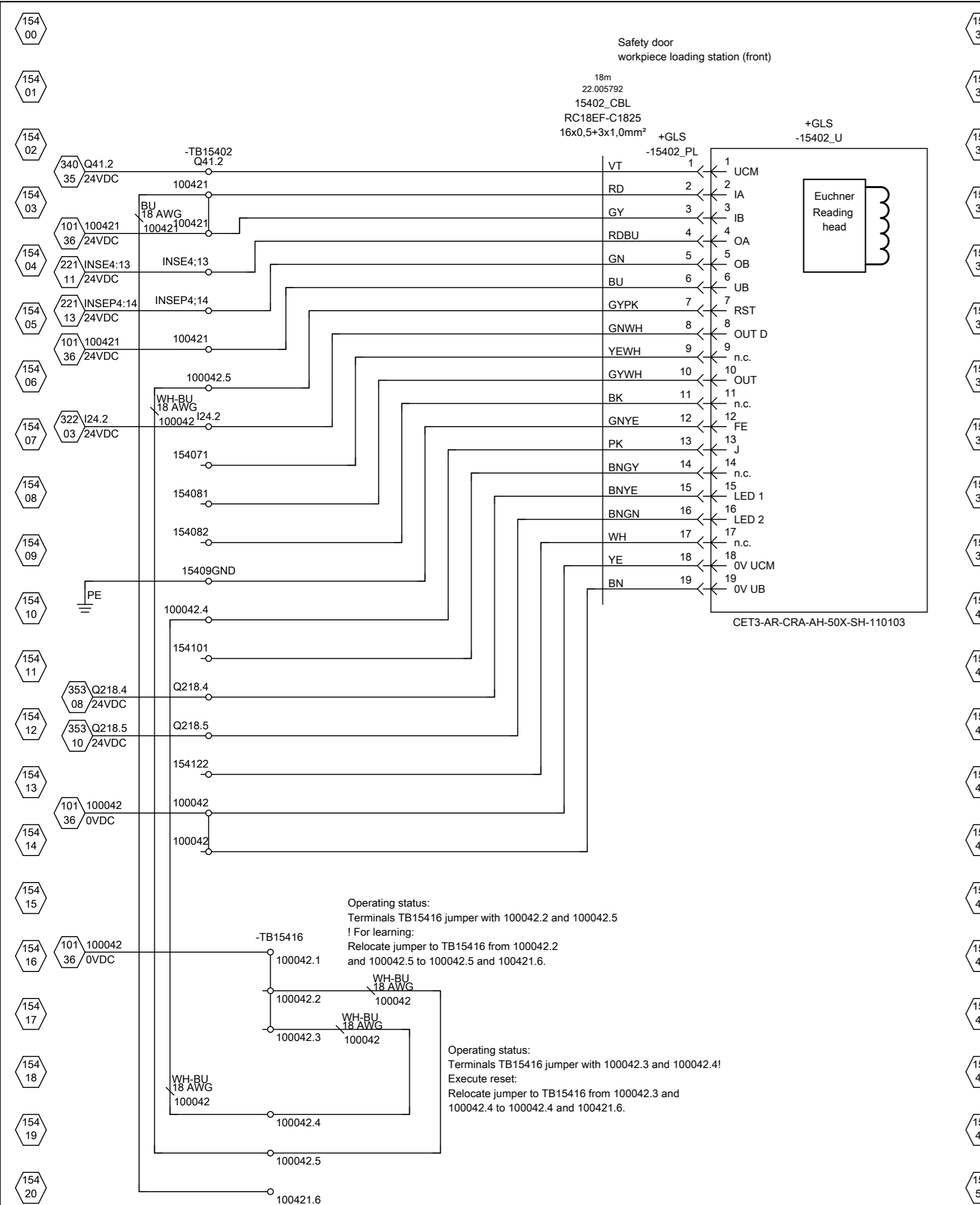
Operating status:
Terminals TB15316 jumper with 100042.2 and 100042.5
! For learning:
Relocate jumper to TB15316 from 100042.2
and 100042.5 to 100042.5 and 100421.6.

Operating status:
Terminals TB15316 jumper with 100042.3 and 100042.4!
Execute reset:
Relocate jumper to TB15316 from 100042.3 and
100042.4 to 100042.4 and 100421.6.

Operating status:
Terminals TB15346 jumper with 100042.2 and 100042.5
! For learning:
Relocate jumper to TB15346 from 100042.2
and 100042.5 to 100042.5 and 100421.6.

Operating status:
Terminals TB15346 jumper with 100042.3 and 100042.4!
Execute reset:
Relocate jumper to TB15346 from 100042.3 and
100042.4 to 100042.4 and 100421.6.

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	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 pages 275 Pages 154	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	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				Number of pages 275 Pages 154	
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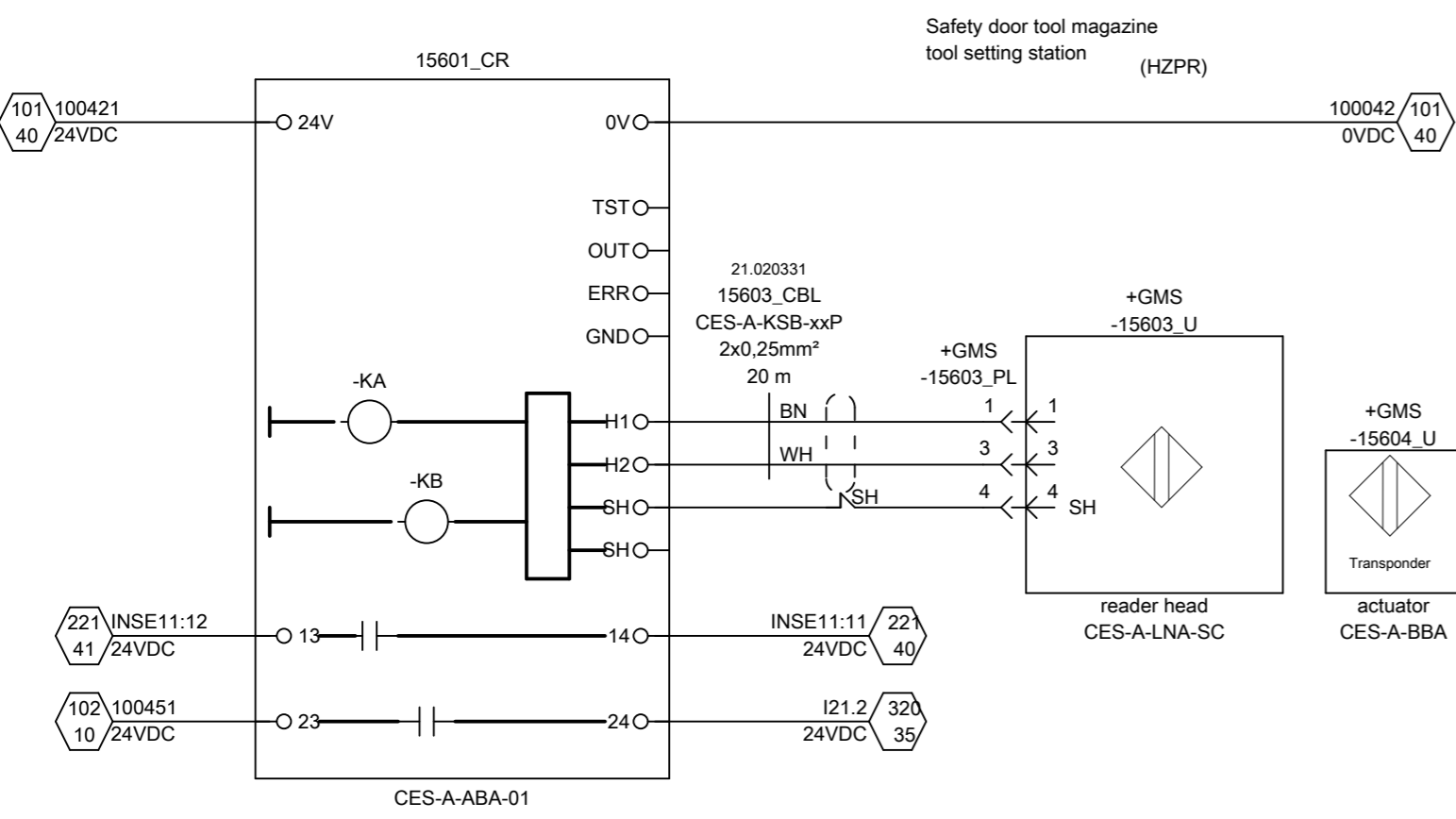
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve, Workpiece loading station safety door operating side, work area / workpiece loading station rotary plate				Inv.No.	
				Number of pages 275 Pages 155	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.04.2016	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 =54800				Number of pages	275
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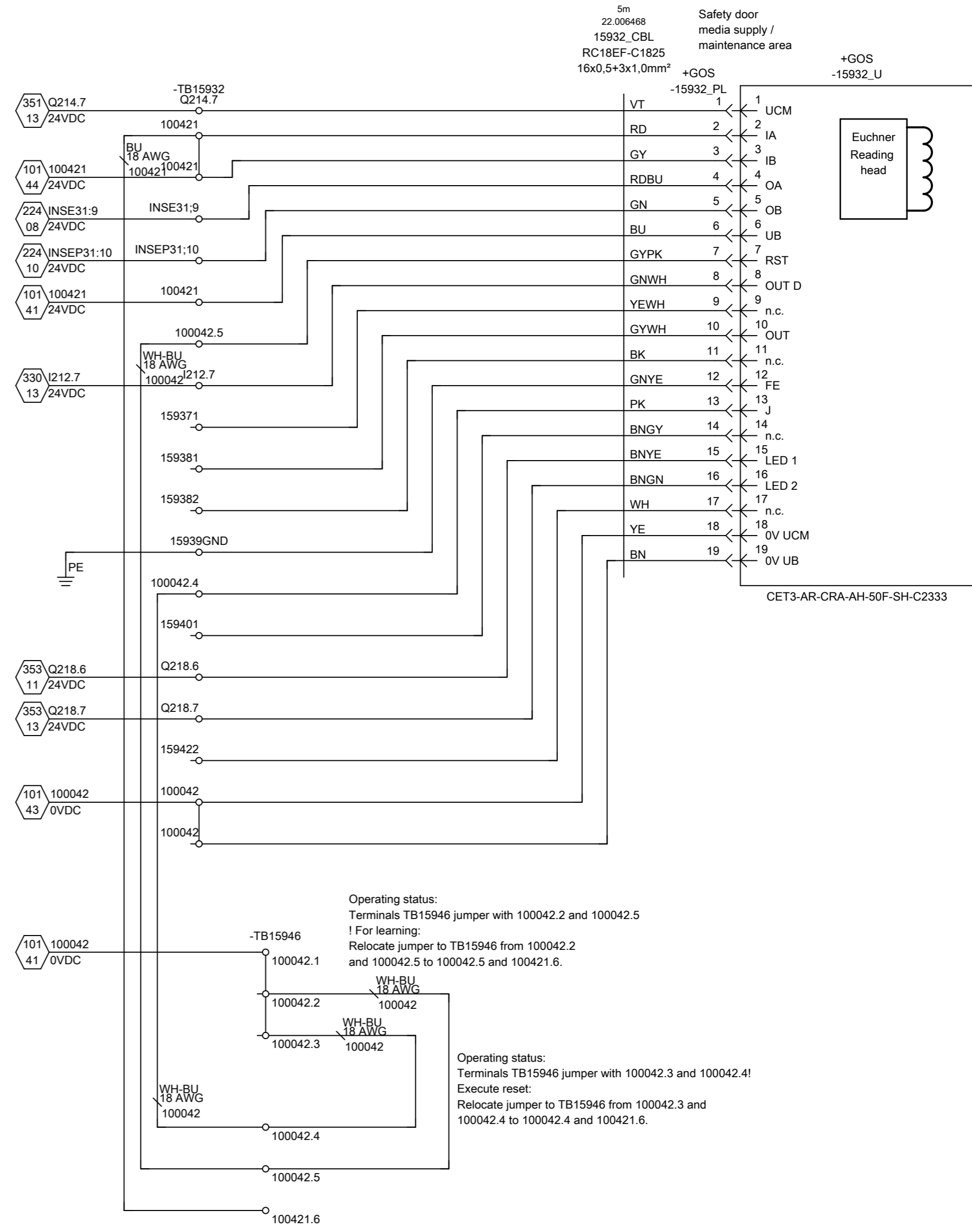
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve, Rotary magazine maintenance door, workpiece setting station/rotary magazine safety door closed (CMS)				Number of pages 275 Pages 157	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Safety door maintenance area 1 + 2 media supply / maintenance area				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 160-163					
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Rear wall maintenance door maintenance door media supply				Number of pages 275 Pages 164	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve				Number of pages 275 Pages 165	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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 pages 275 Pages 166	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	13.07.2015	AHP3/EWD		Inv.No.	
Reserve page 167-169				Number of pages 275 Pages 167	
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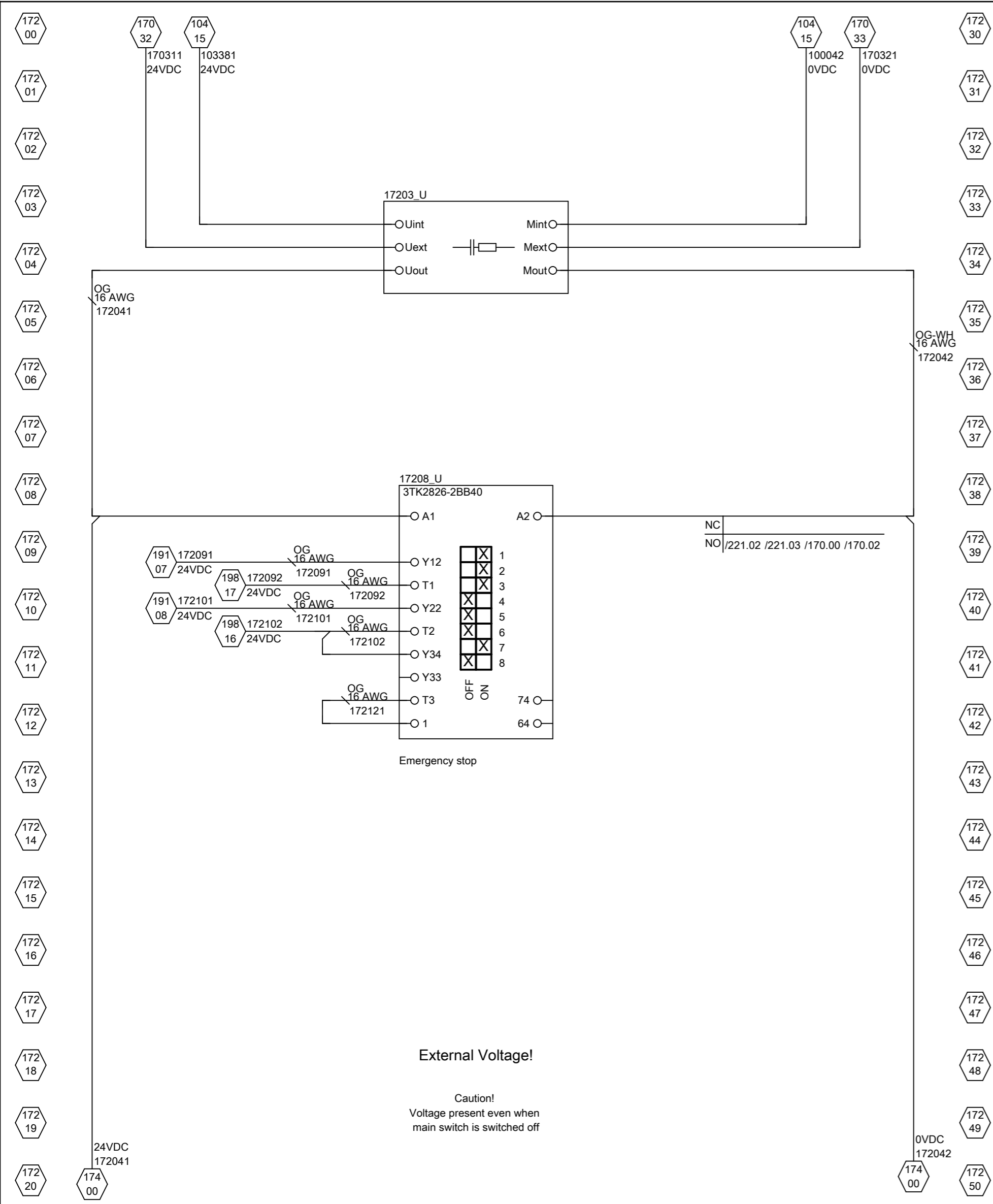
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 171				Number of pages 275 Pages 171	
ePLAN P8 2.2.5		=54800		170	Page 172



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Emergency stop to external loading				Inv.No.	
				Number of pages 275 Pages 172	
ePLAN P8 2.2.5		=54800		◀ 171 Page 173 ▶	

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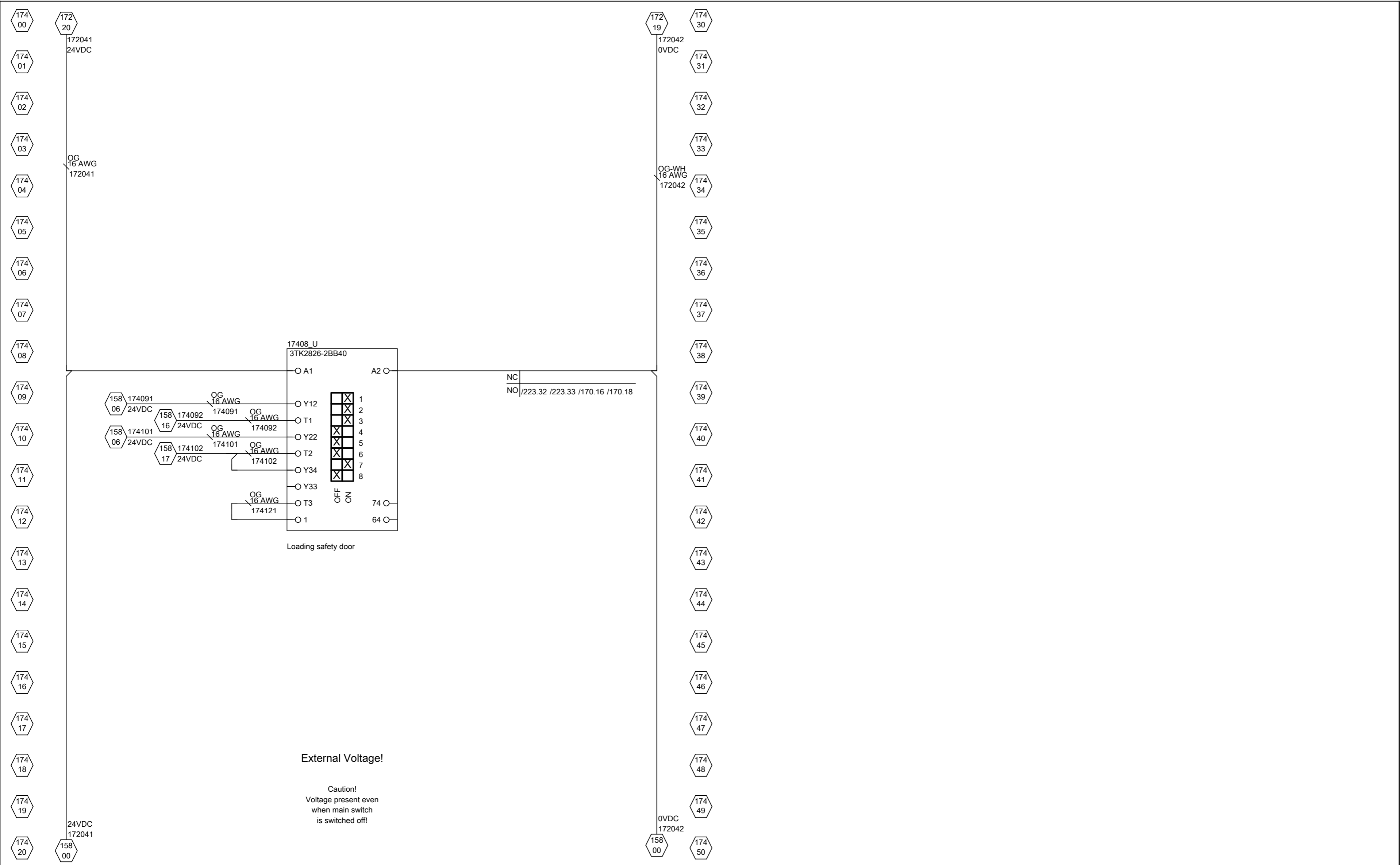
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Safety door work area/workpiece setting station to external loading				Number of pages 275 Pages 173	
ePLAN P8 2.2.5		=54800		172	Page 174



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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 pages 275 Pages 174	
ePLAN P8 2.2.5		=54800		◀ 173 Page 175 ▶	

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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Profibus DP external loading				Number of pages 275 Page 175	
ePLAN P8 2.2.5		=54800		174	176

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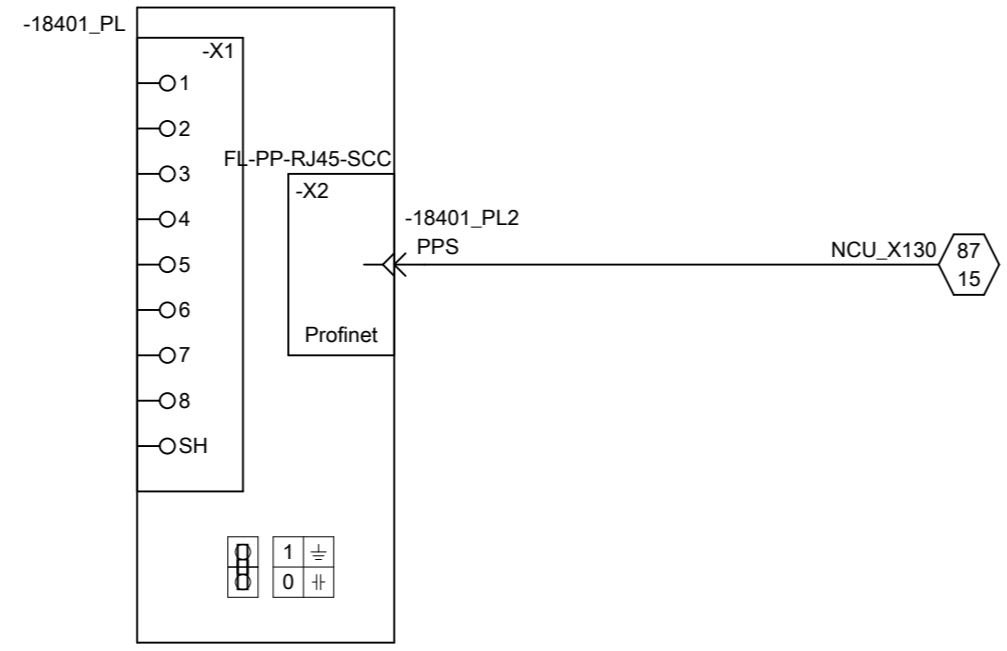
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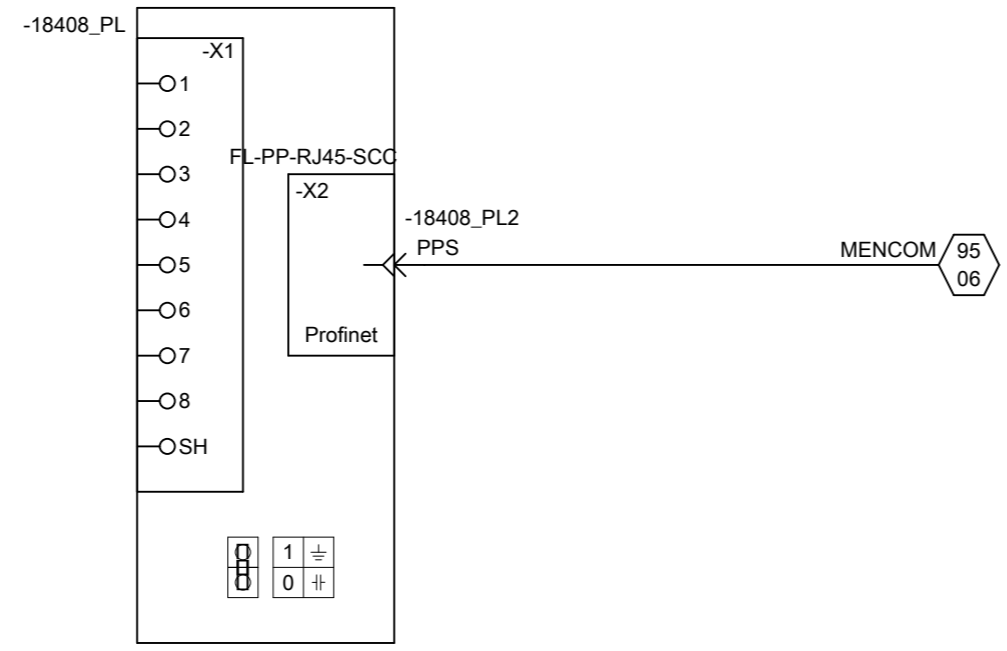
Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 176 - 183				Number of pages 275 Page 176	
ePLAN P8 2.2.5		=54800		175	184

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Plant Ethernet

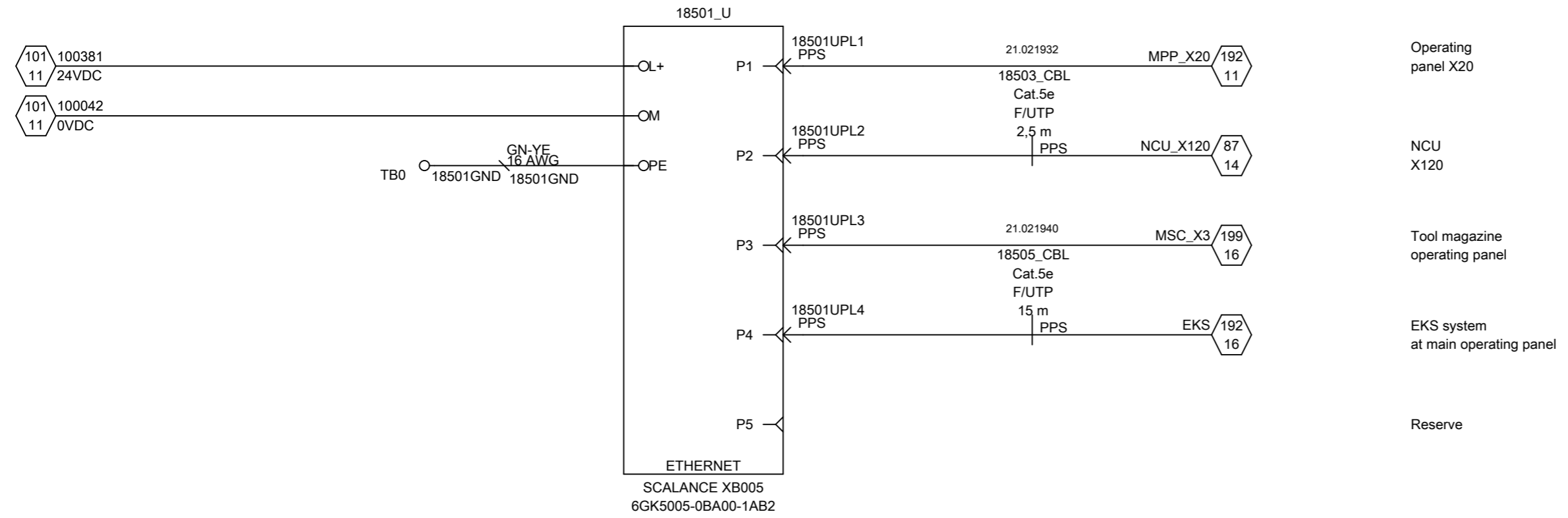


Plant Ethernet



Project description P-009081				Project JIC_EP05480000	
				Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	30.06.2015	AHP3/RIG			
Patchpanel				Inv.No.	
				Number of pages 275 Page 184	
ePLAN P8 2.2.5		=54800		176 Page 185	

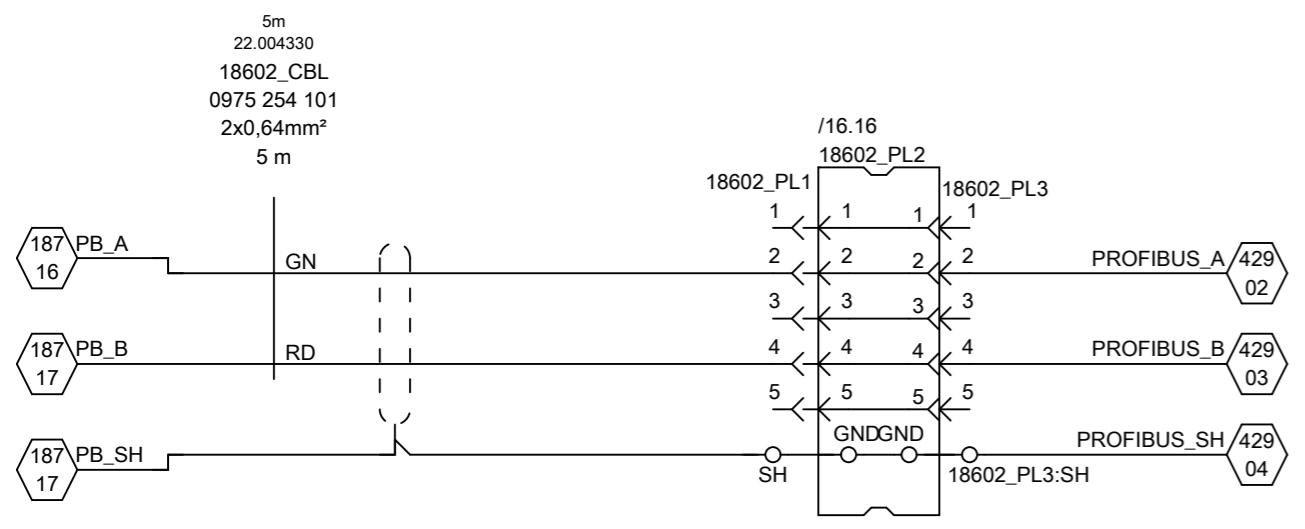
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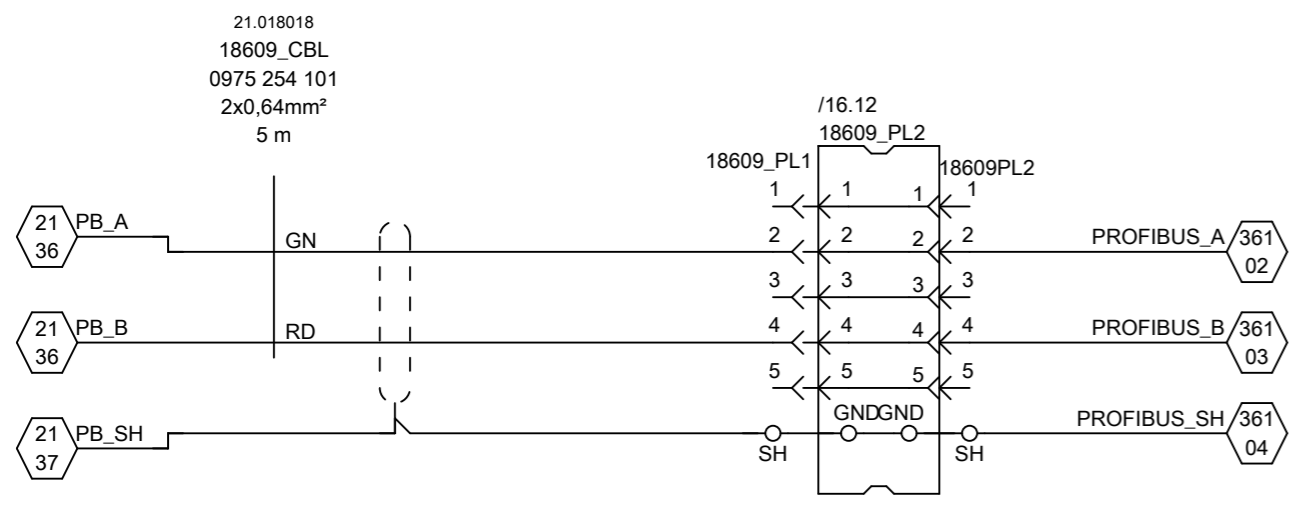
Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	29.10.2015	AHP3/EWD			
Industrial Ethernet				Inv.No.	
Number of pages				275	Page
ePLAN P8 2.2.5				=54800	184
				Page	186

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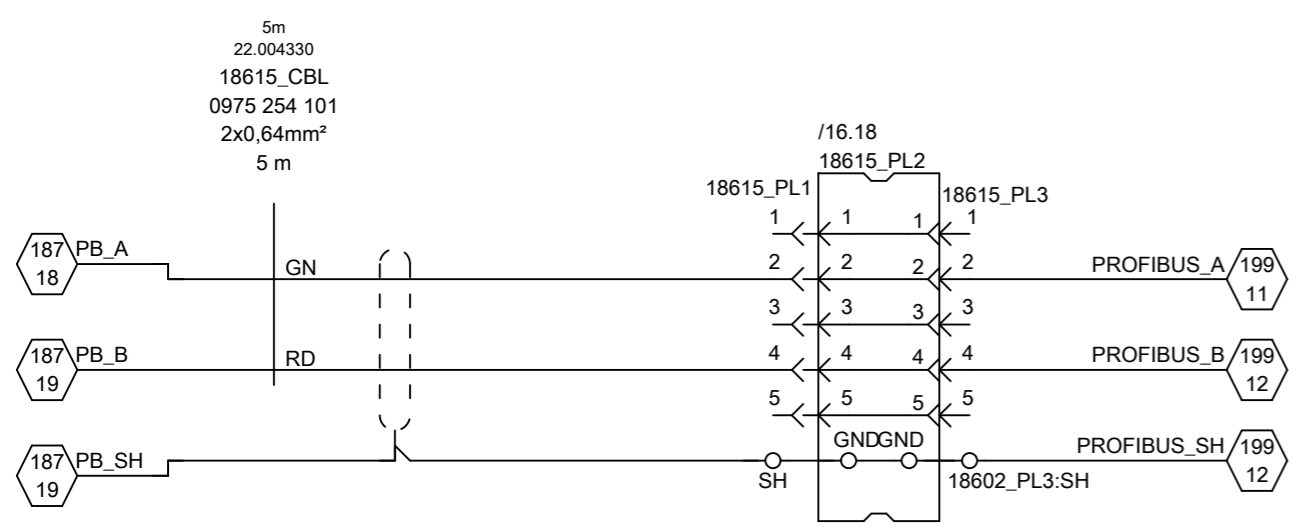
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ET200Pro



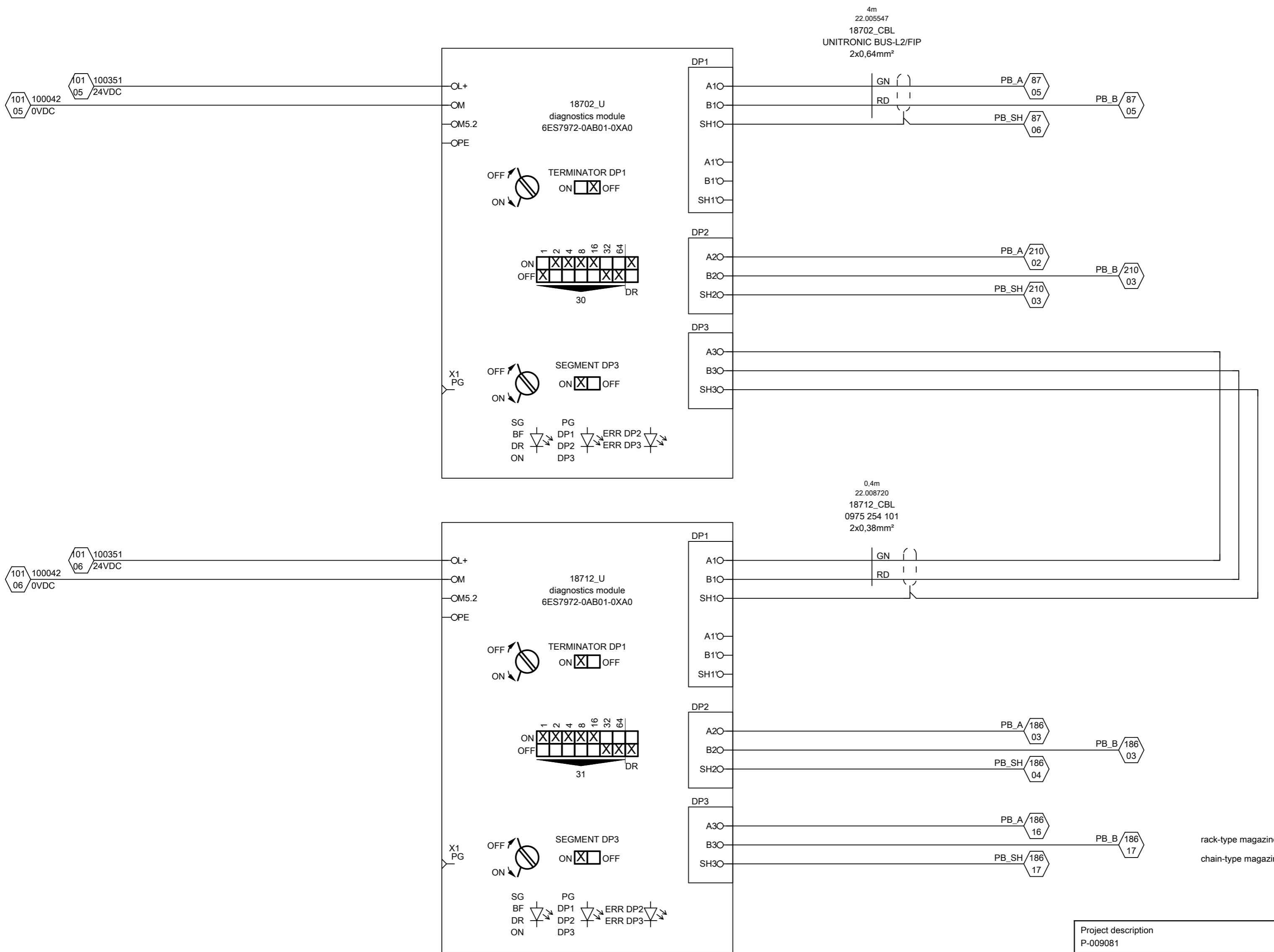
ET200pro
interface cooling
lubricant unit



rack-type magazine
chain-type magazine

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus DP Field bus coupling				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 186	
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Project description P-009081				Project JIC_EP05480000	
				Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of pages 275 Page 187	
Profibus DP diagnostics repeater					
ePLAN P8 2.2.5		=54800	Page 186 Page 188		

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Reserve
barcode reader, handheld
scanner, workpiece loading station

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Barcode reader, handheld scanner with Ethernet				Number of pages 275 Page 188	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve					
ePLAN P8 2.2.5			=54800	Number of pages	275
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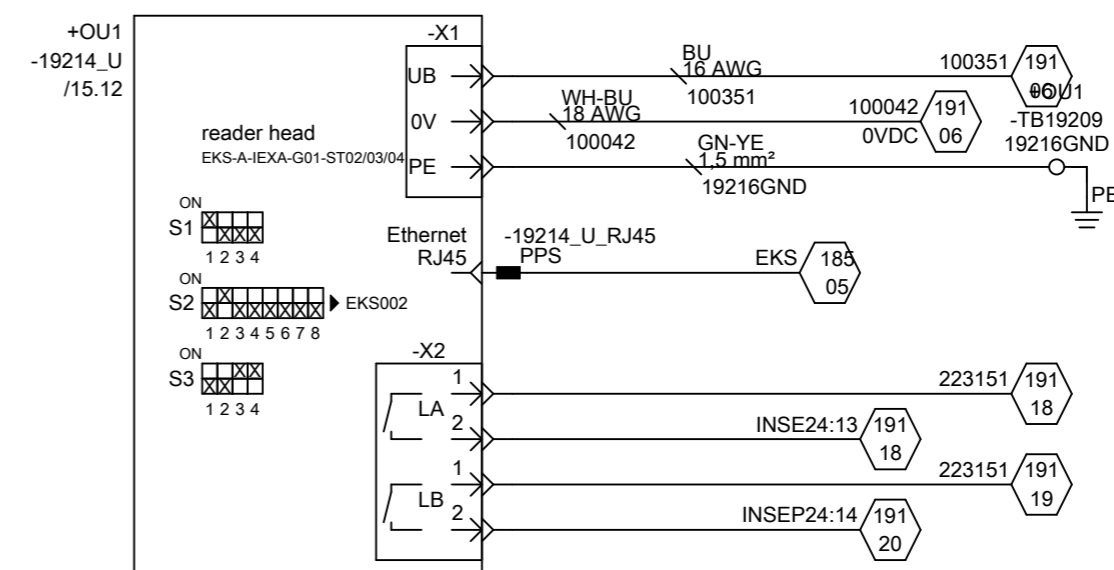
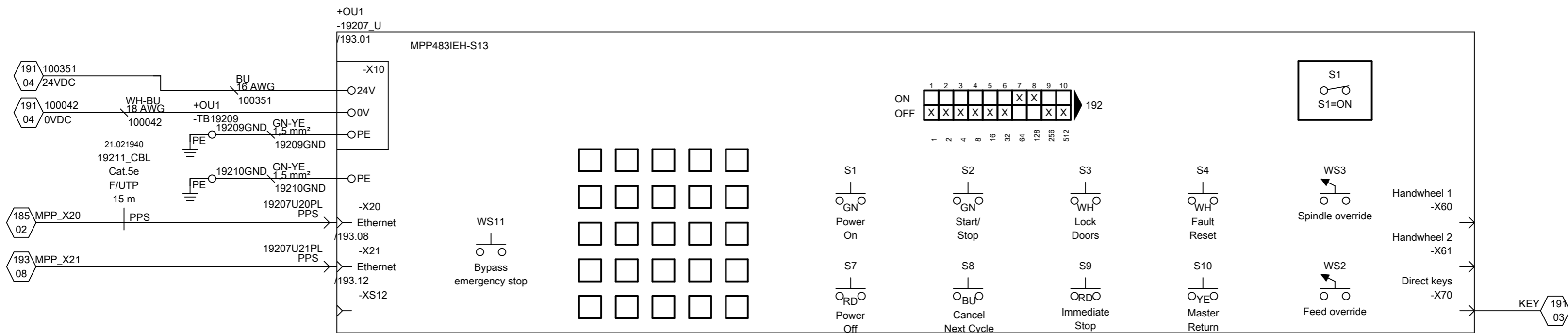
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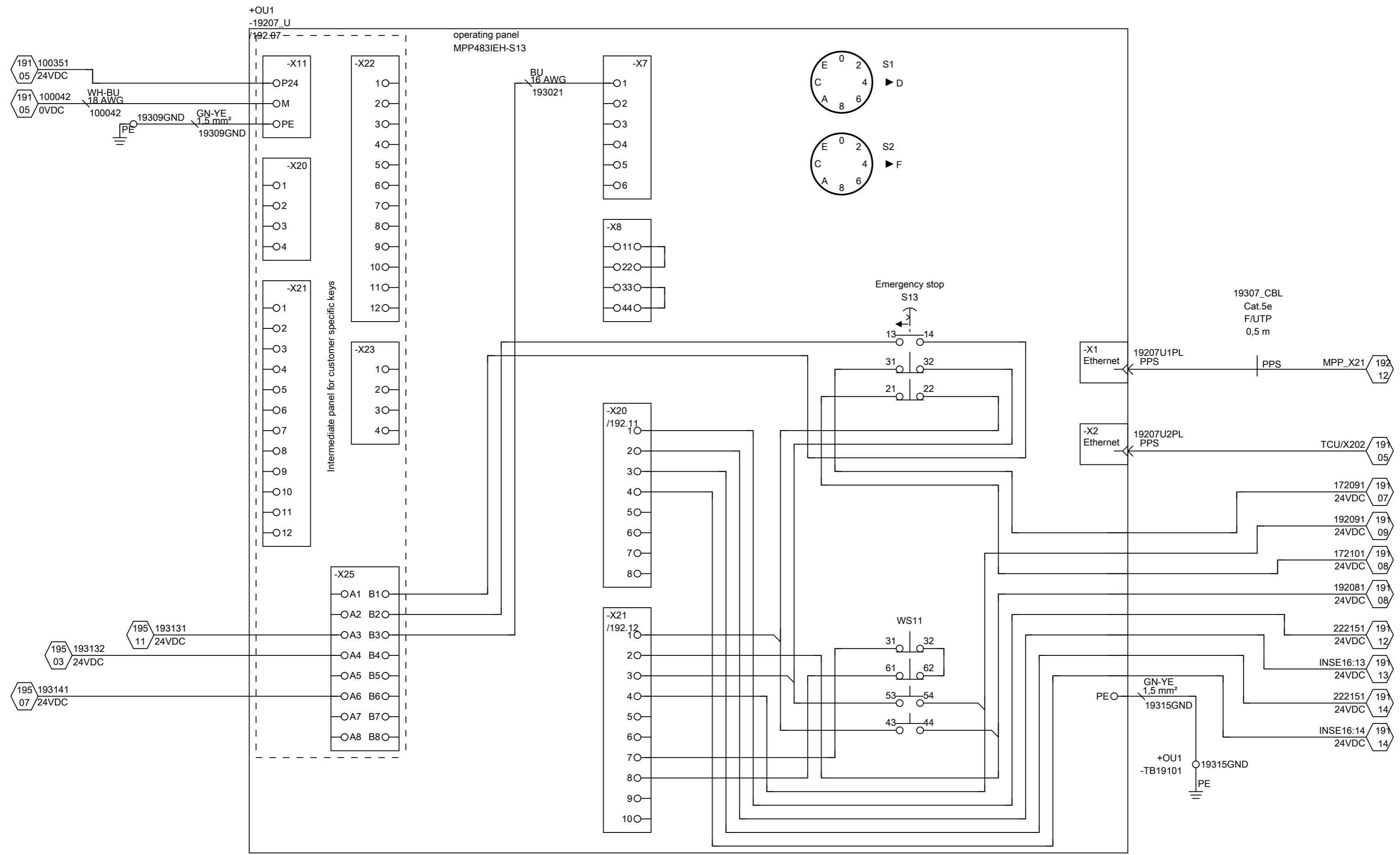
Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve				Number of pages 275 Pages 190	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	24.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Machine operating panel, main operating panel				Inv.No.		
ePLAN P8 2.2.5				=54800		
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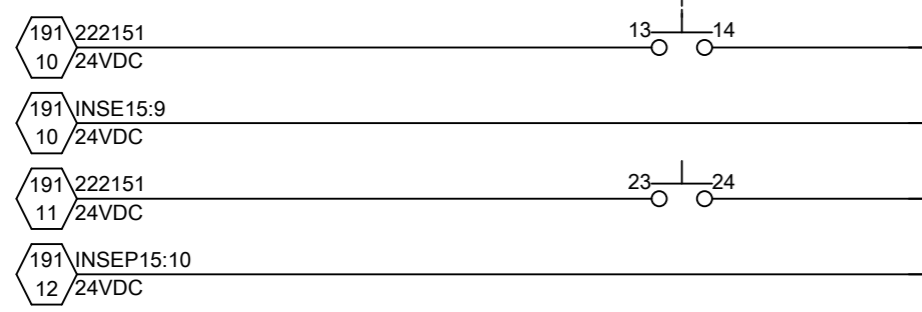
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Machine operating panel, main operating panel				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Page 194	

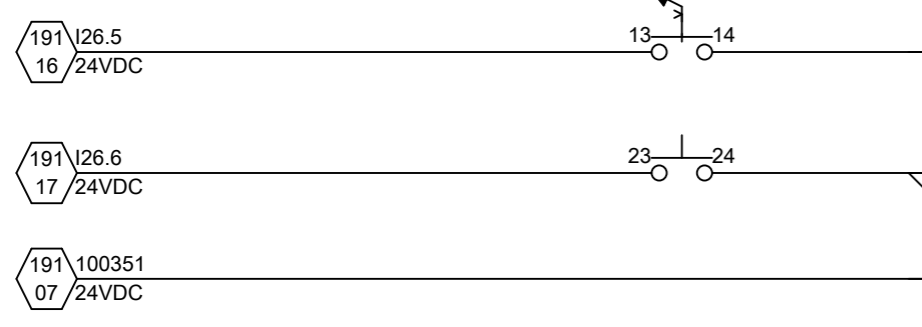
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Approval
main operator panel
+OU1
-19402_PB
WH



Approval key,
main operator panel

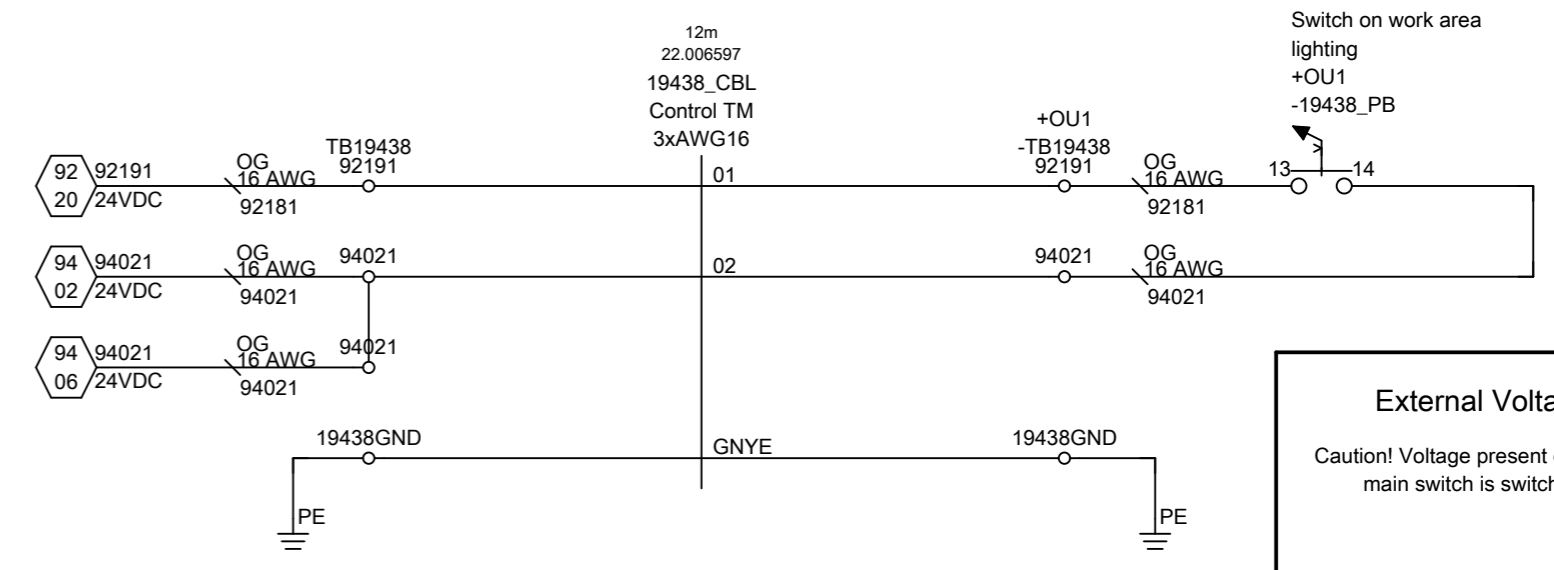
Spiral chip conveyor
+OU1
-19407_PB



Spiral chip conveyor
forwards on

Jogging spiral chip
conveyor backwards

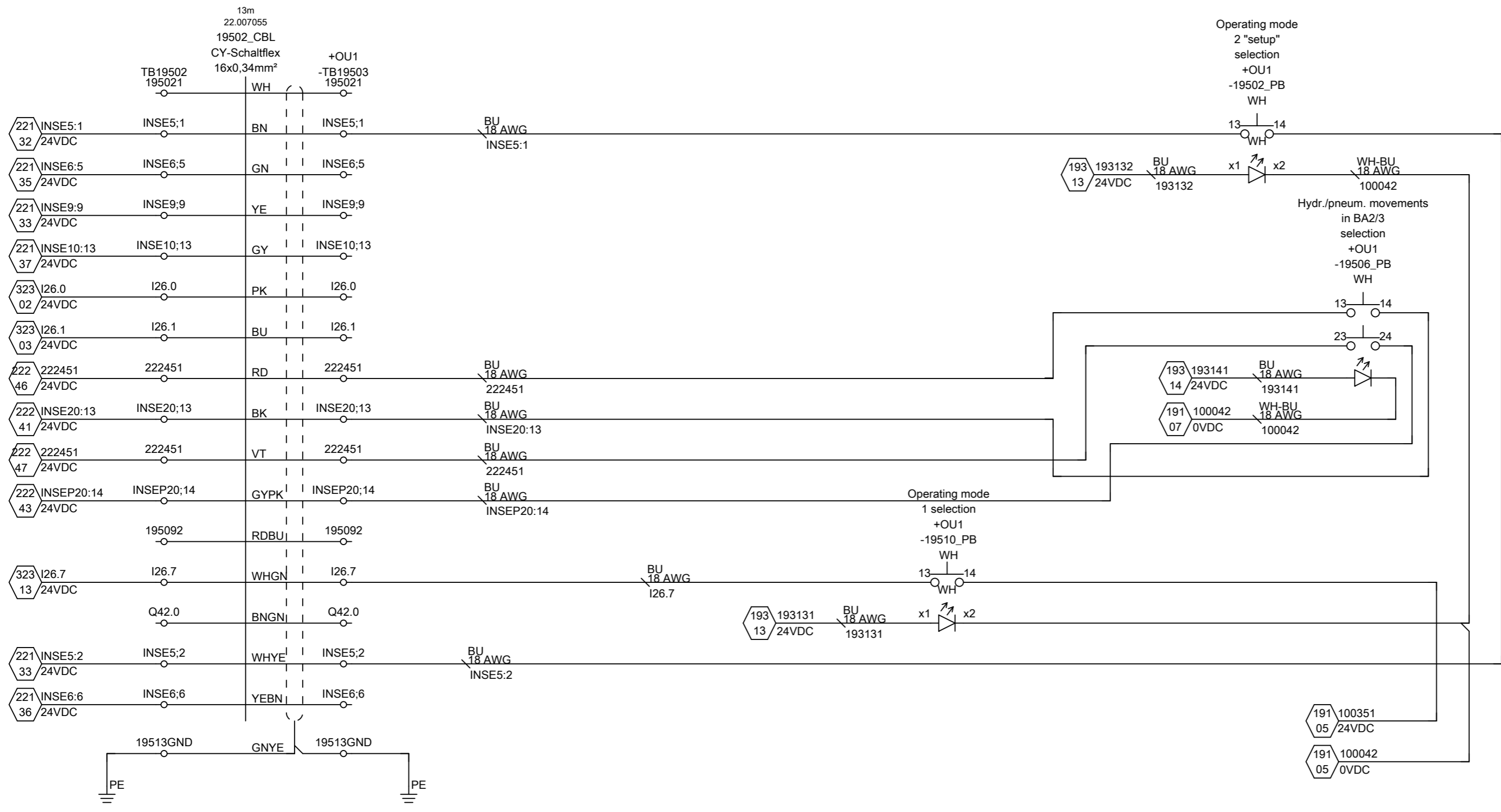
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External Voltage!
Caution! Voltage present even when
main switch is switched off

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Approval main operator panel				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Operating mode selection, main operating panel				Inv.No.	
ePLAN P8 2.2.5				=54800	
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Hand-held operating unit main operating unit				Number of pages 275 Page 196	
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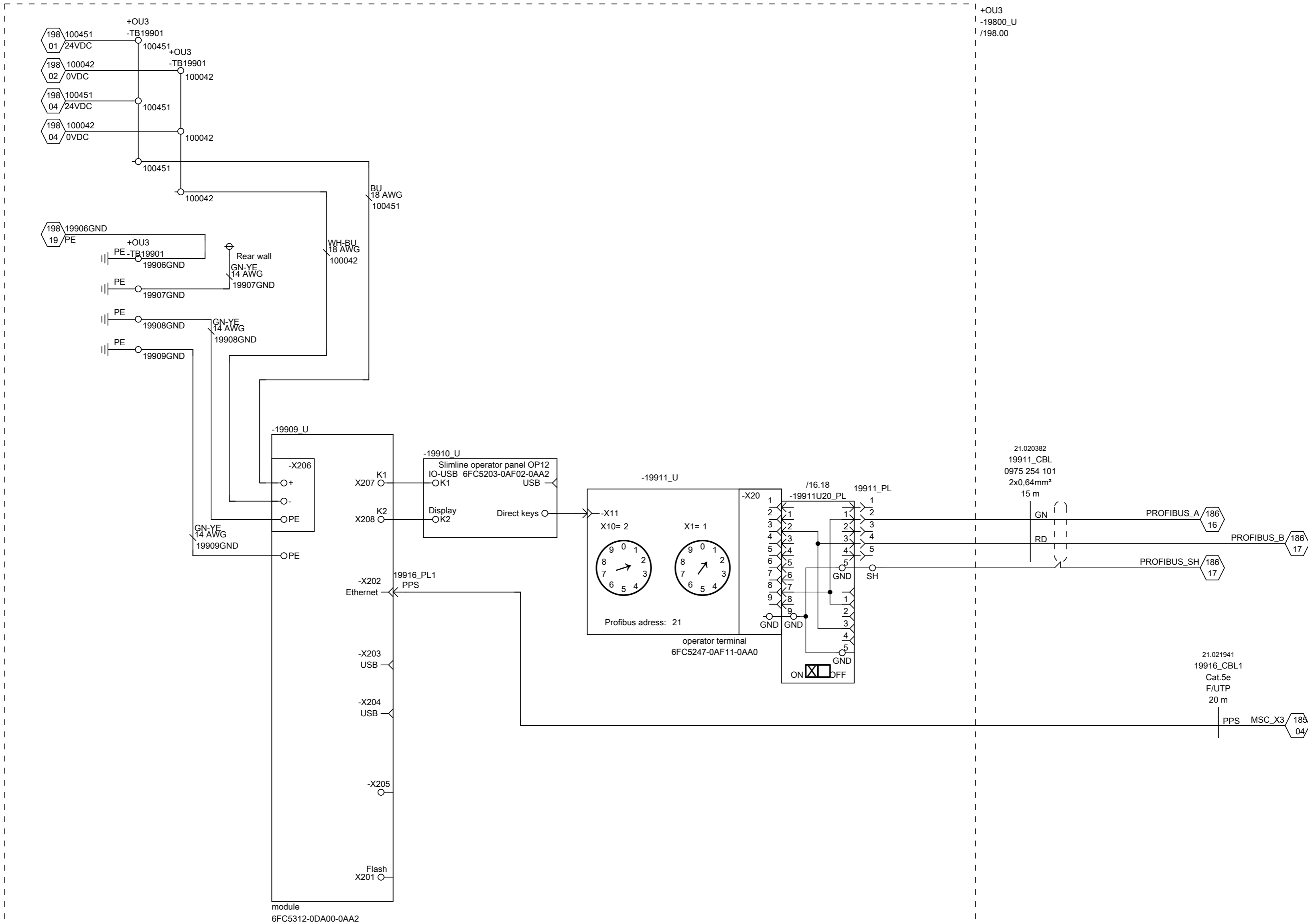
Reserve

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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve, control panel rear wall media supply				Number of pages 275 Pages 197	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Tool setting station magazine control panel				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Page 199	
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Reserve

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Interface for rack-type magazine handheld operating unit					
Number of pages				275	Page 200
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Reserve workpiece loading station
operating unit

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Workpiece setting station operator panel				Inv.No.	
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Reserve
workpiece loading station operating unit

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Workpiece setting station operator panel				Inv.No.	
Number of pages				275	Page
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Reserve
workpiece loading station operating unit

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve workpiece loading station operating panel preset start				Number of pages 275 Page 203	
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Reserve

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
Workpiece setting station operator panel						
ePLAN P8 2.2.5				=54800	Number of pages 275 Page 204	
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Reserve

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
	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.		
Workpiece setting station operator panel						
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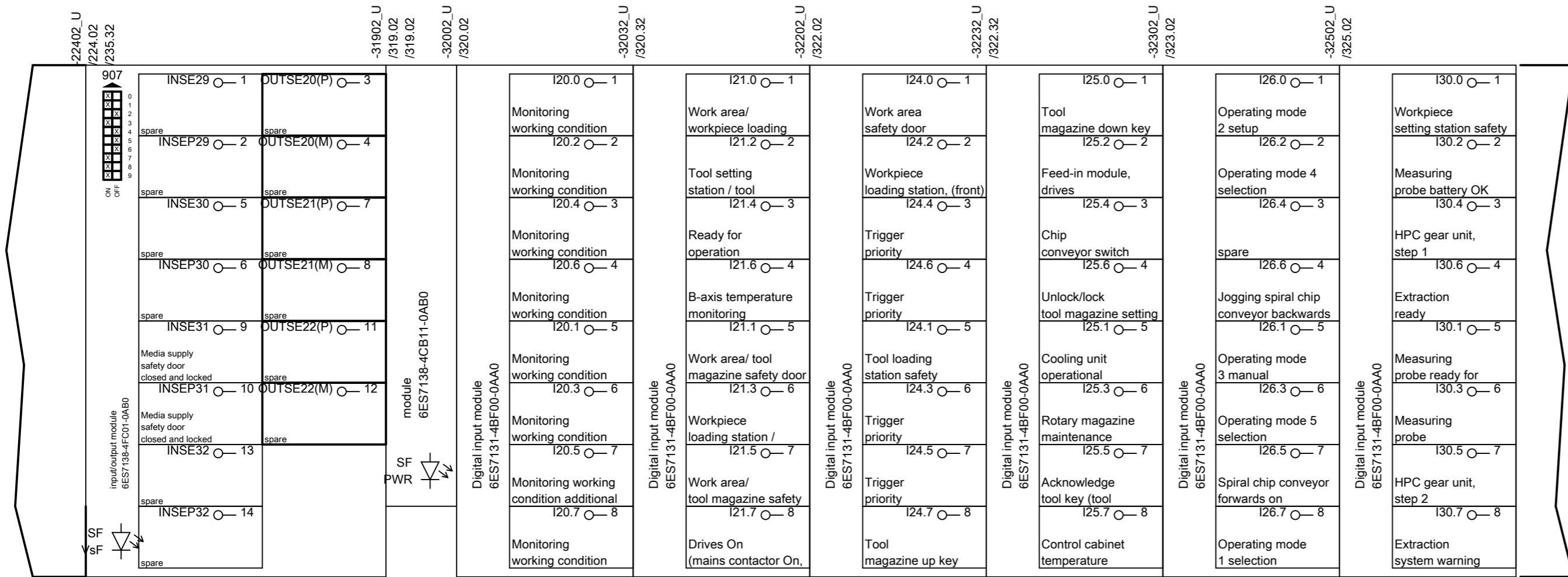
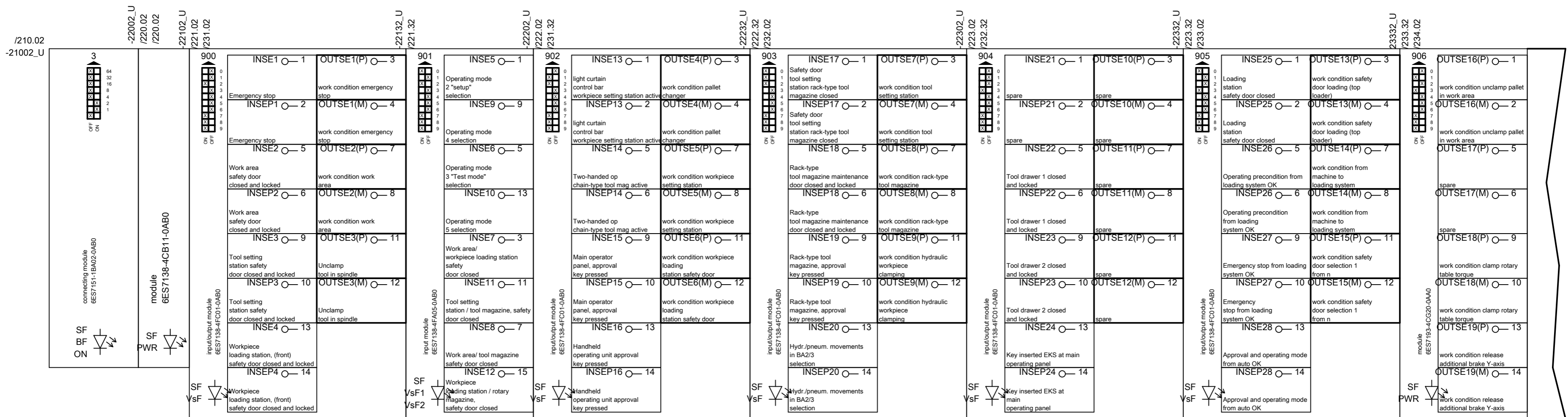
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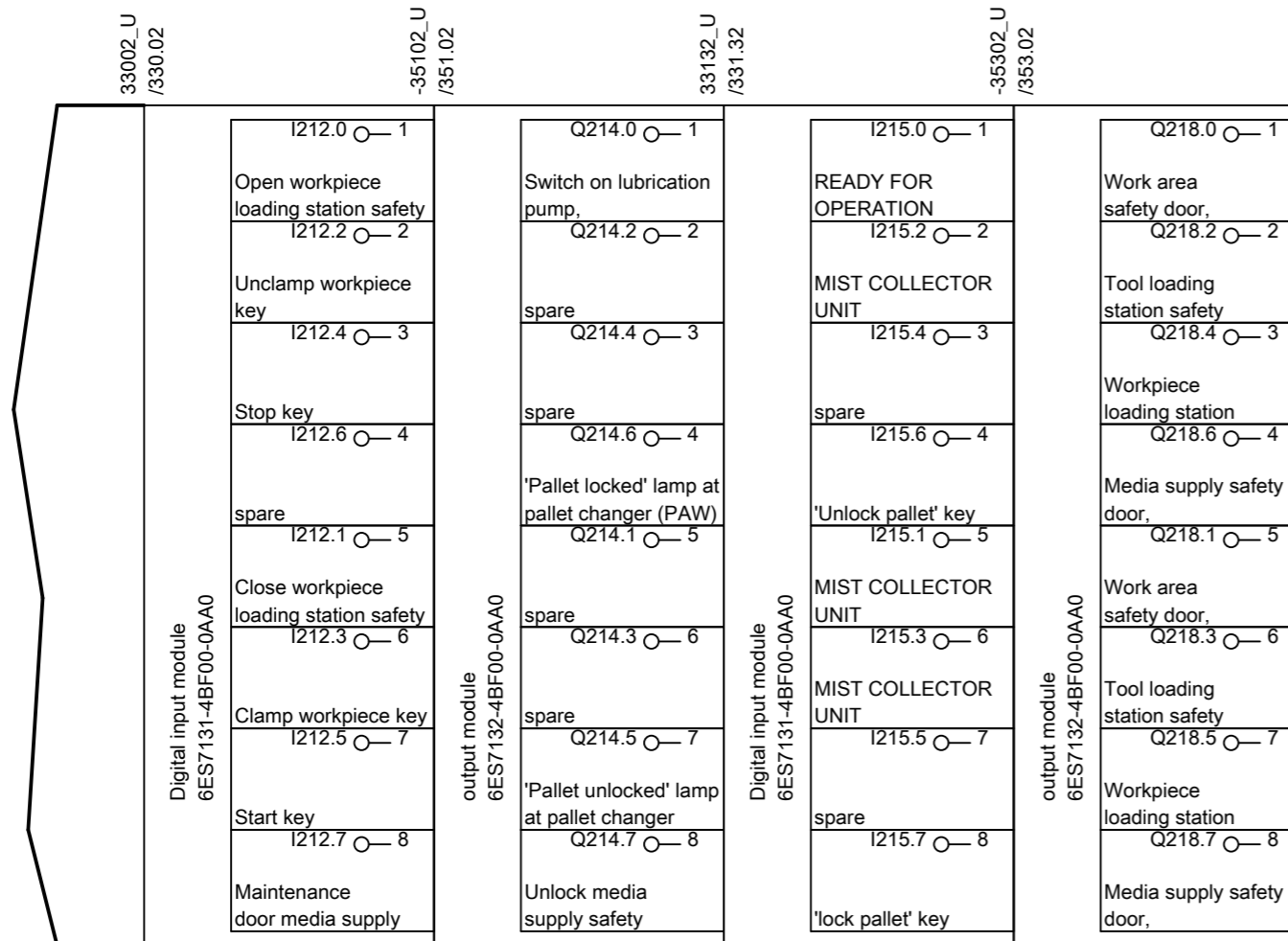
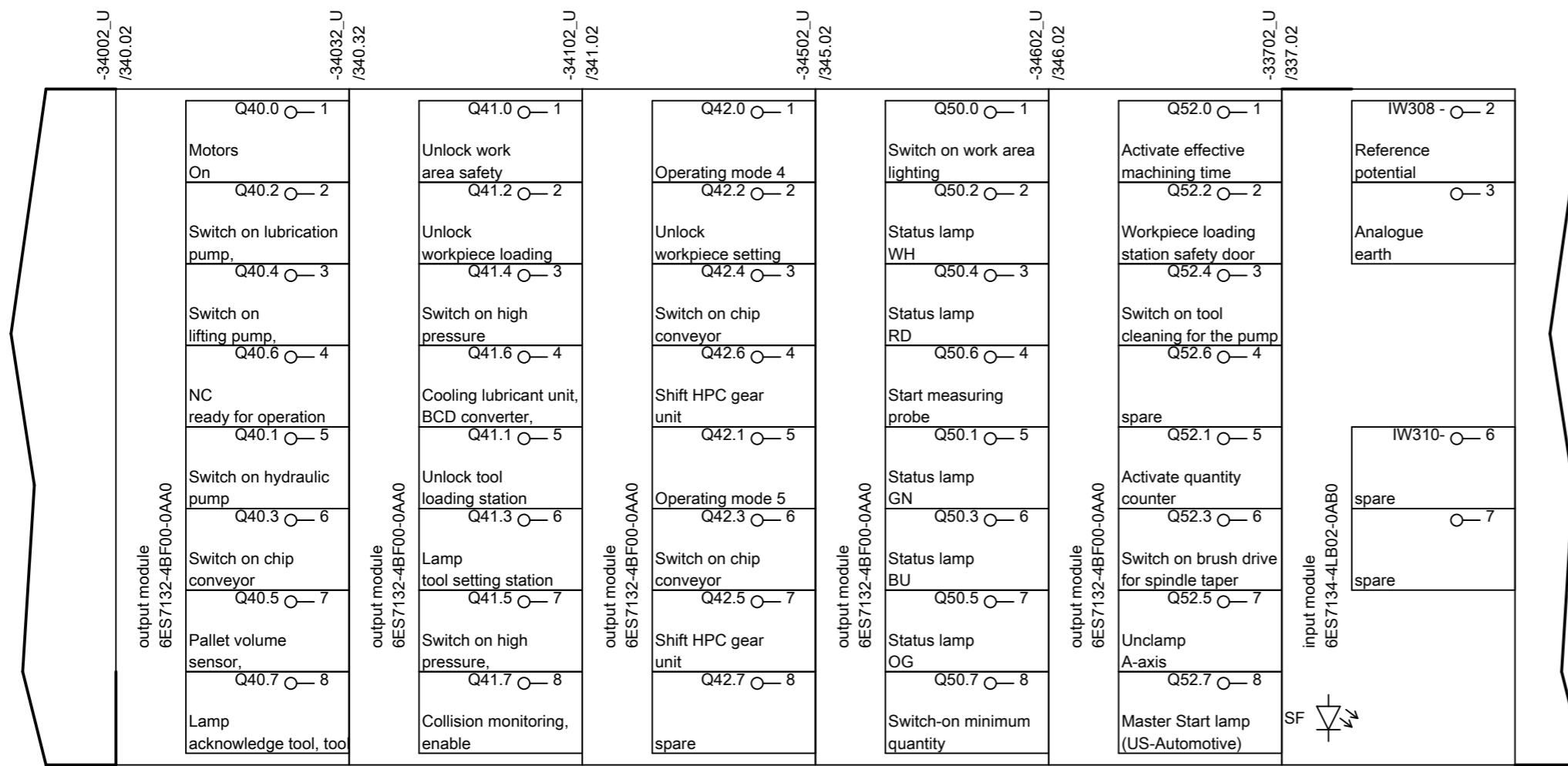
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve PICK32-X300				Number of pages 275 Page 206	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC	Inv.No.	
DRAWN	26.05.2015	AHP3/GMI		Number of pages 275 Page 207	
Overview of inputs/outputs control cabinet				ePLAN P8 2.2.5 =54800	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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 inputs/outputs control cabinet				Inv.No.	
				Number of pages 275 Page 208	
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Overview of inputs/outputs
control cabinet

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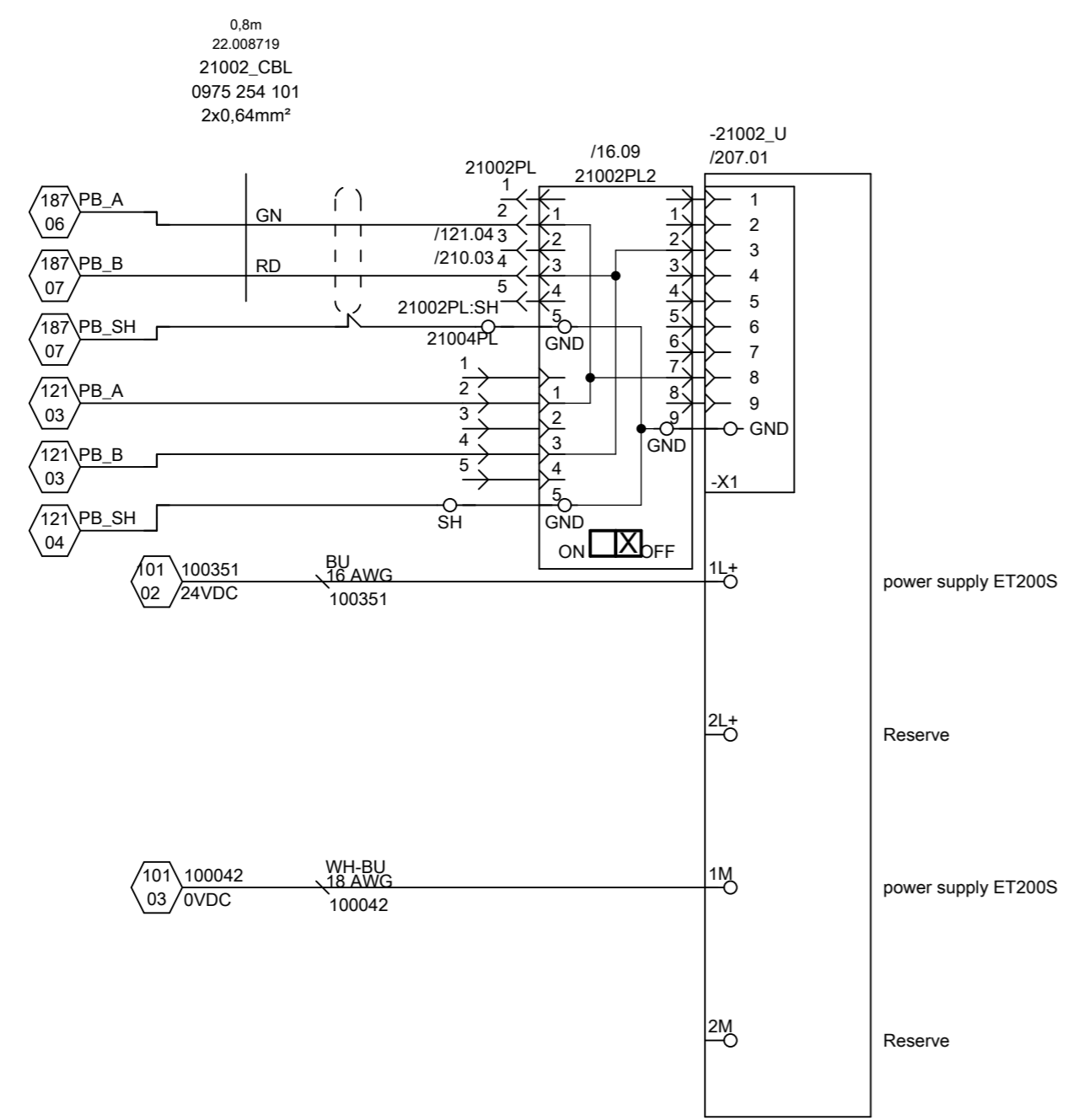
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Overview of inputs/outputs control cabinet				Number of pages 275 Page 209	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	11.06.2016	OE1/SMC	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Profibus interface				Inv.No.	
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Profibus interface

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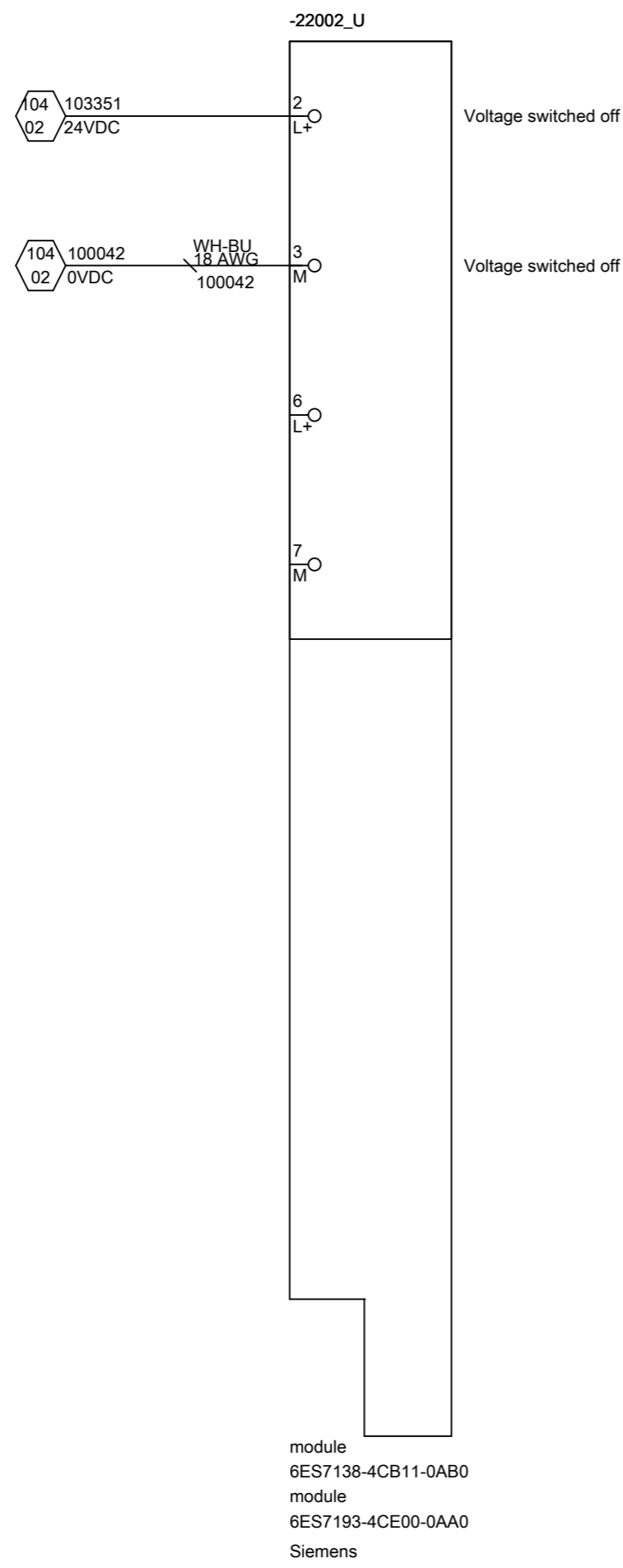
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve page 211-218 Profibus-Interface				Number of pages 275 Page 211	
ePLAN P8 2.2.5		=54800		210	219

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Power module 24V DC

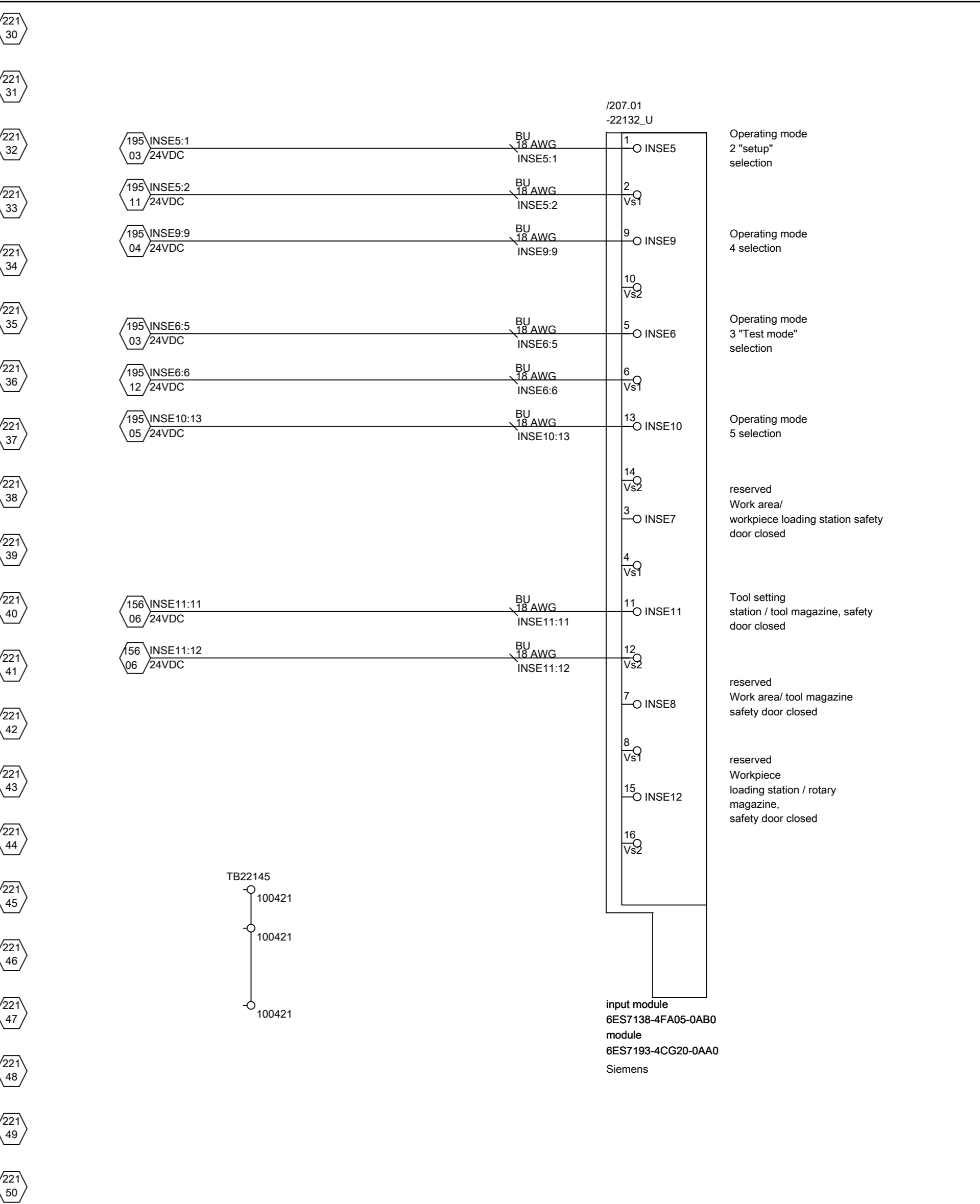
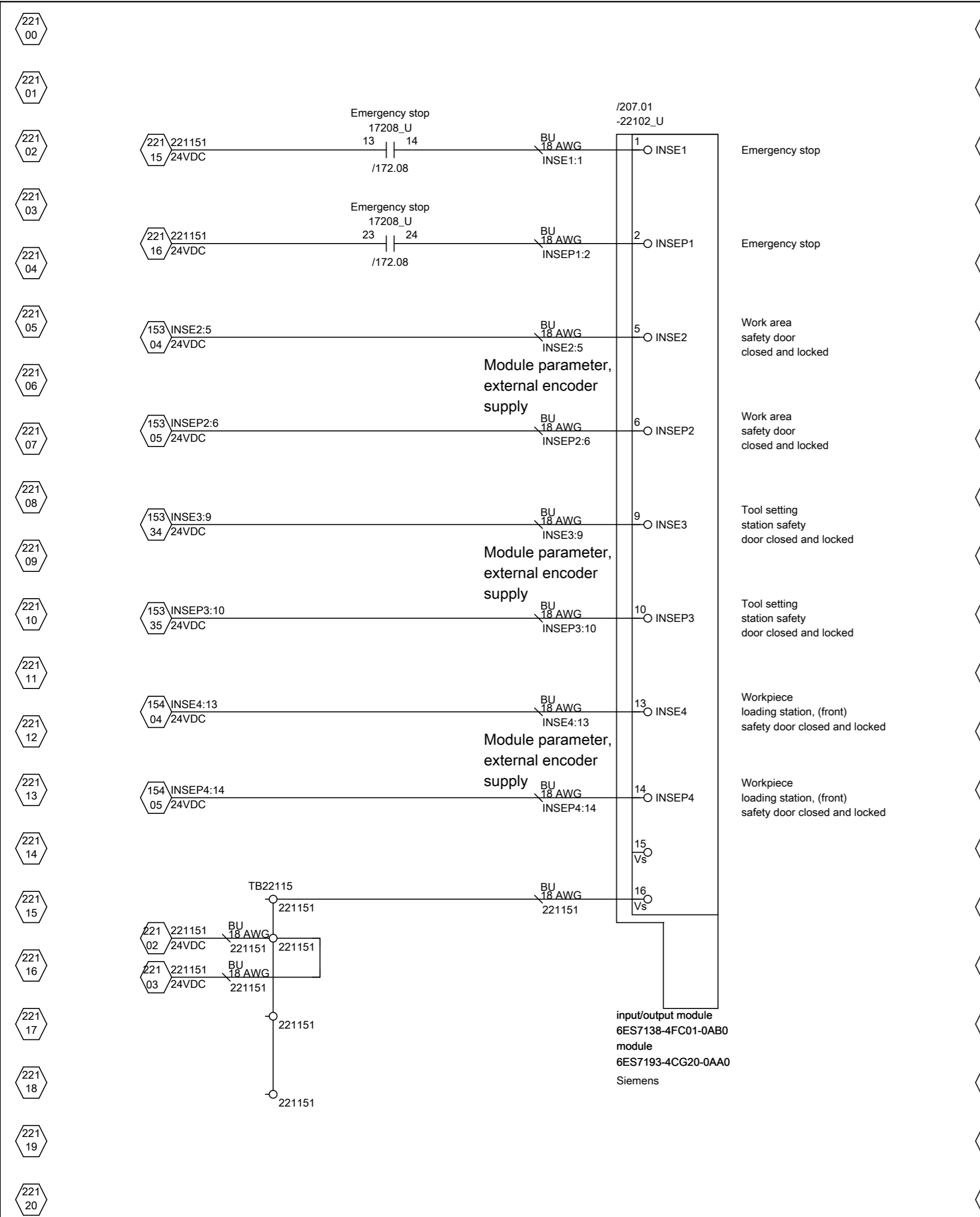
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Powermodul 24V DC				Number of pages 275 Pages 219	
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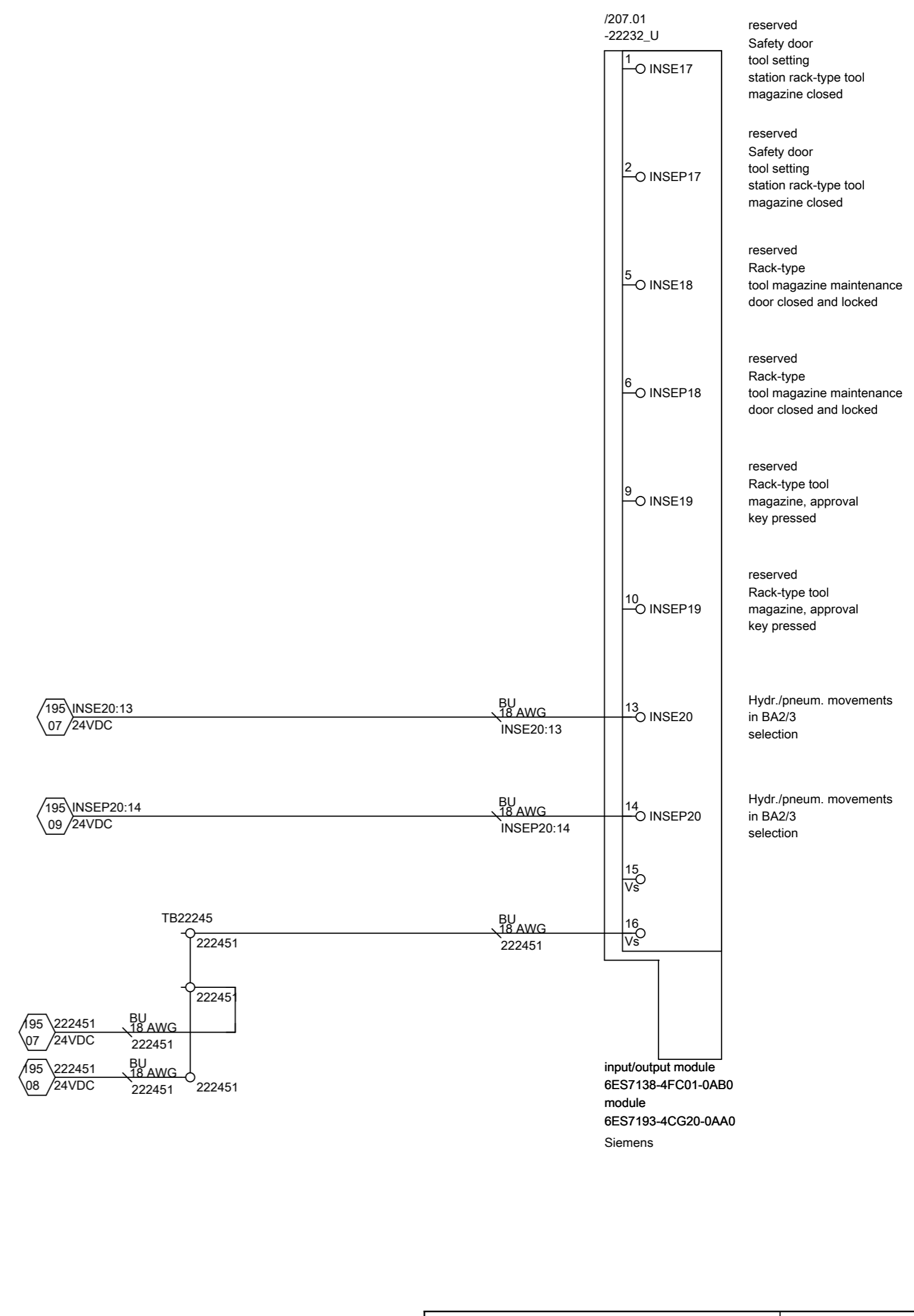
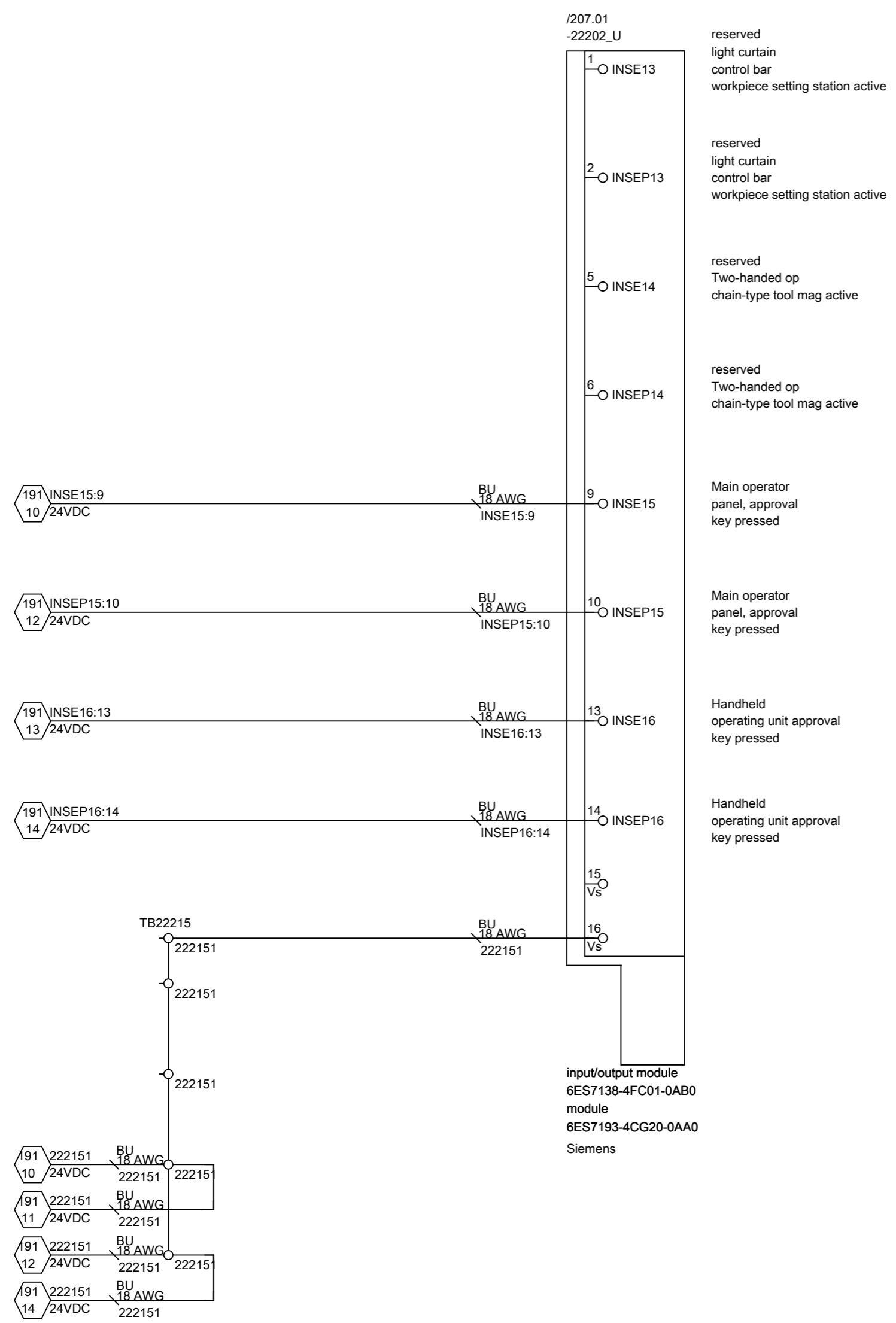
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DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Power module 24V DC					
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CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
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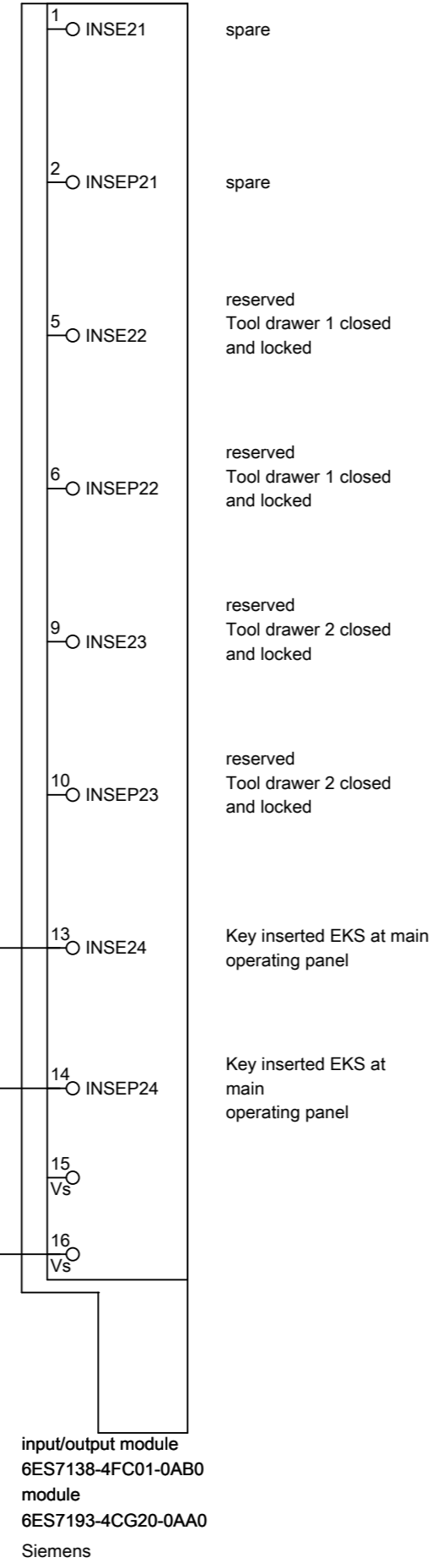
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
INSE13 - INSE16 INSE17 - INSE20				Inv.No.	
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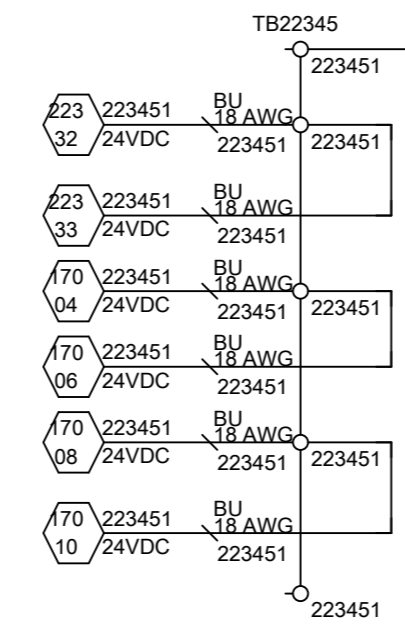
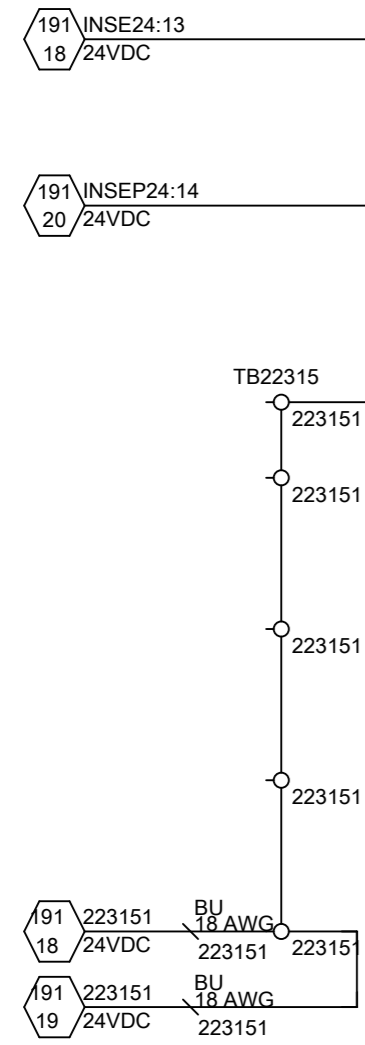
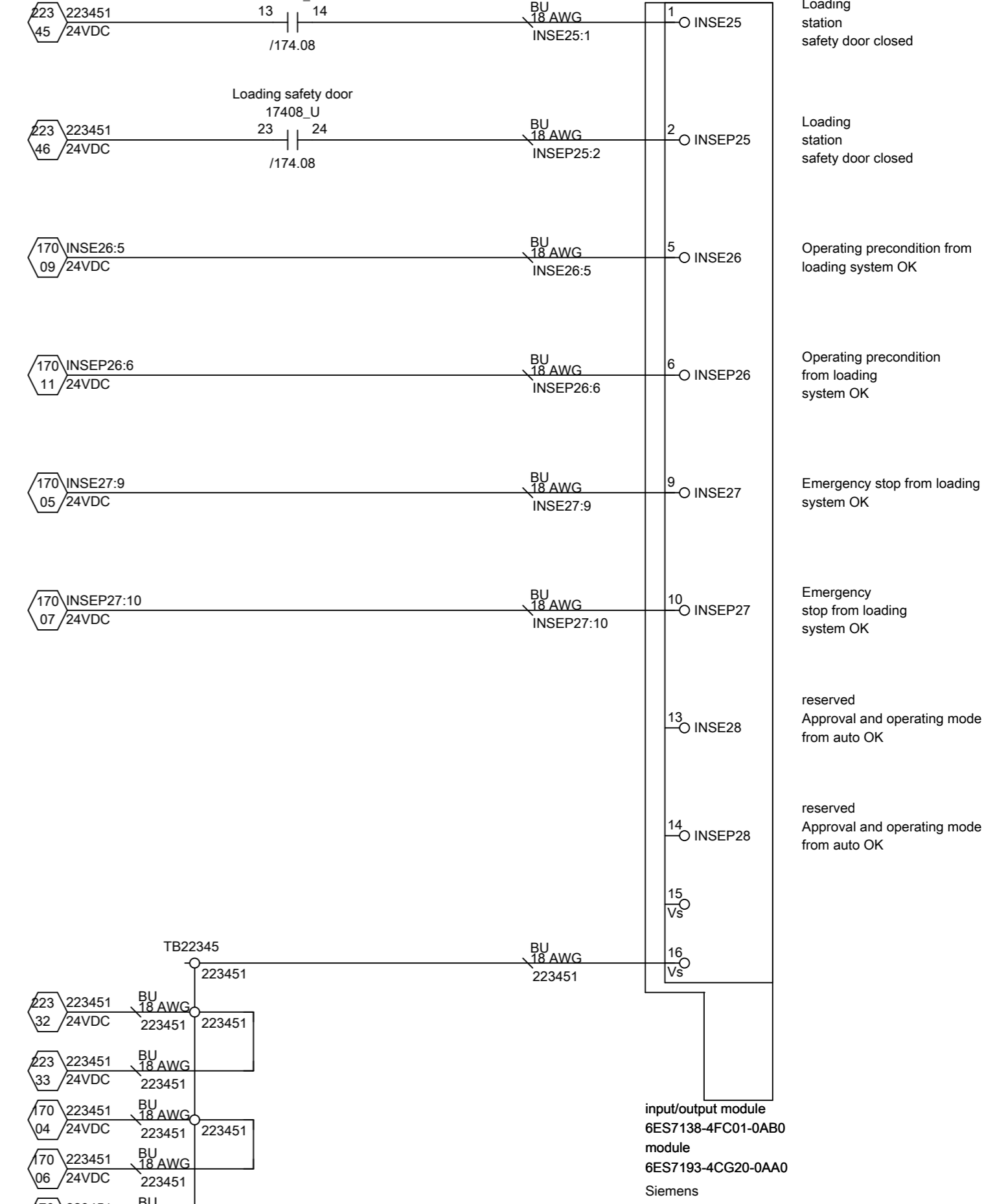
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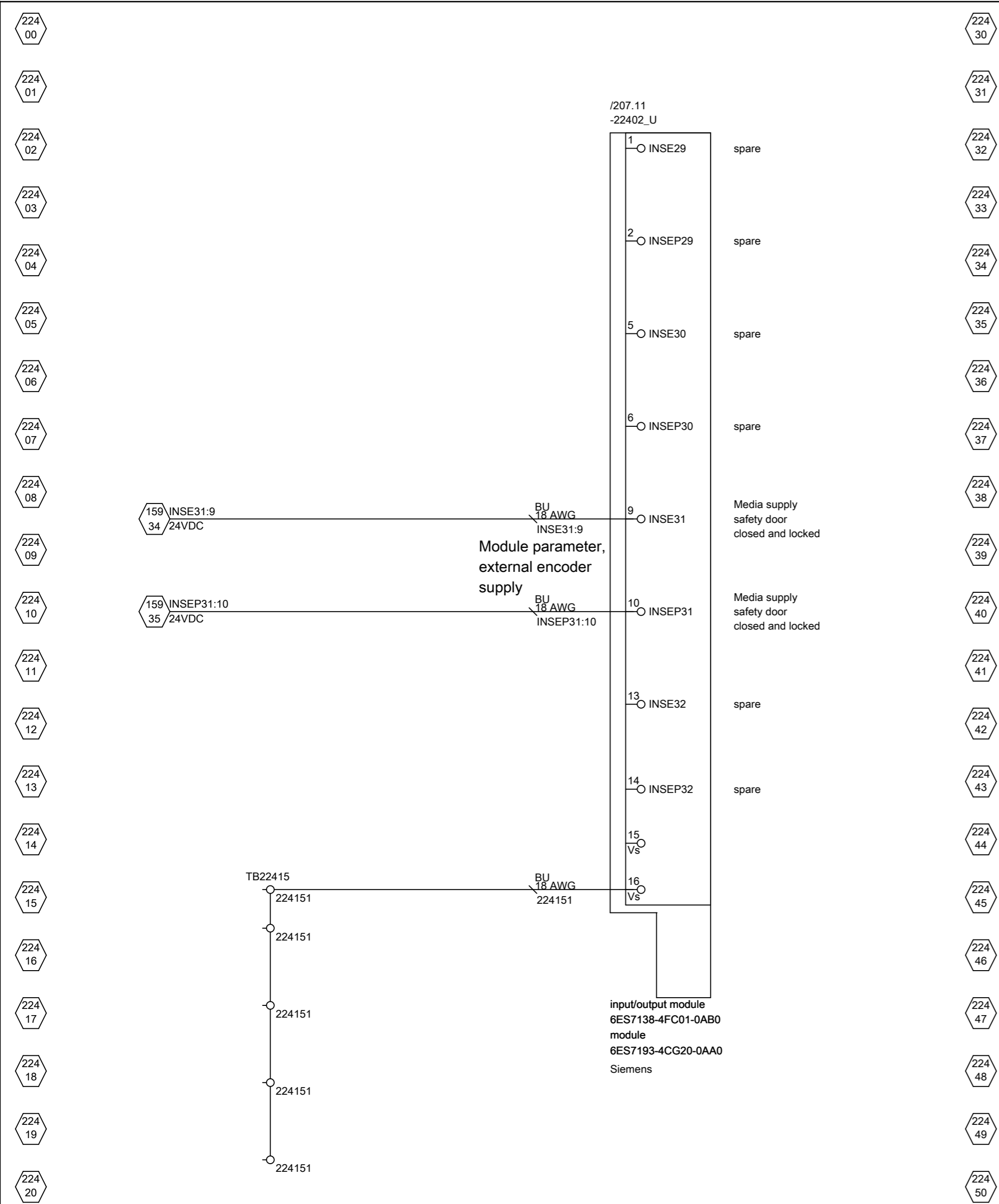


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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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DRAWN	26.05.2015	AHP3/GMI			
INSEP21 - INSEP24 INSEP25 - INSEP28				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
INSE29 - INSE32				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	12.08.2015	AHP3/RIG		Inv.No.	
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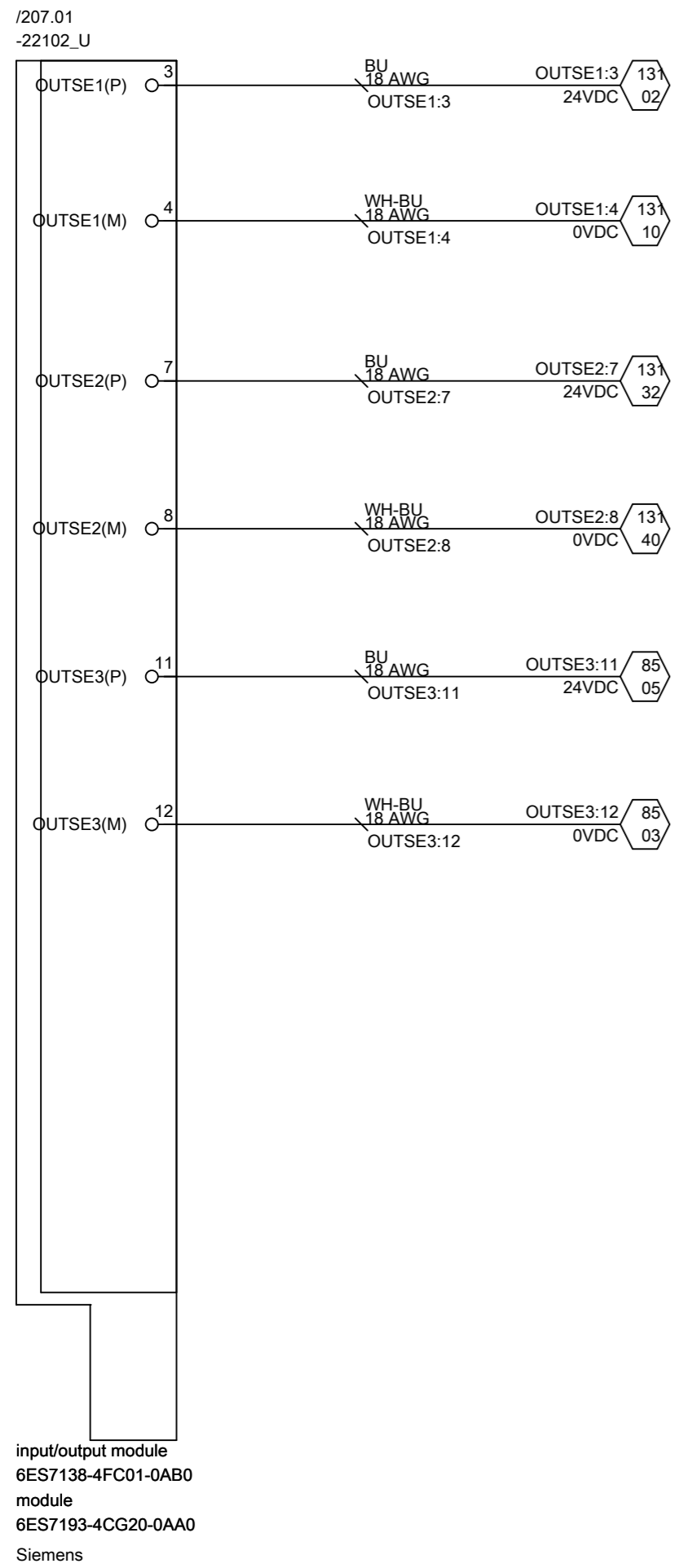
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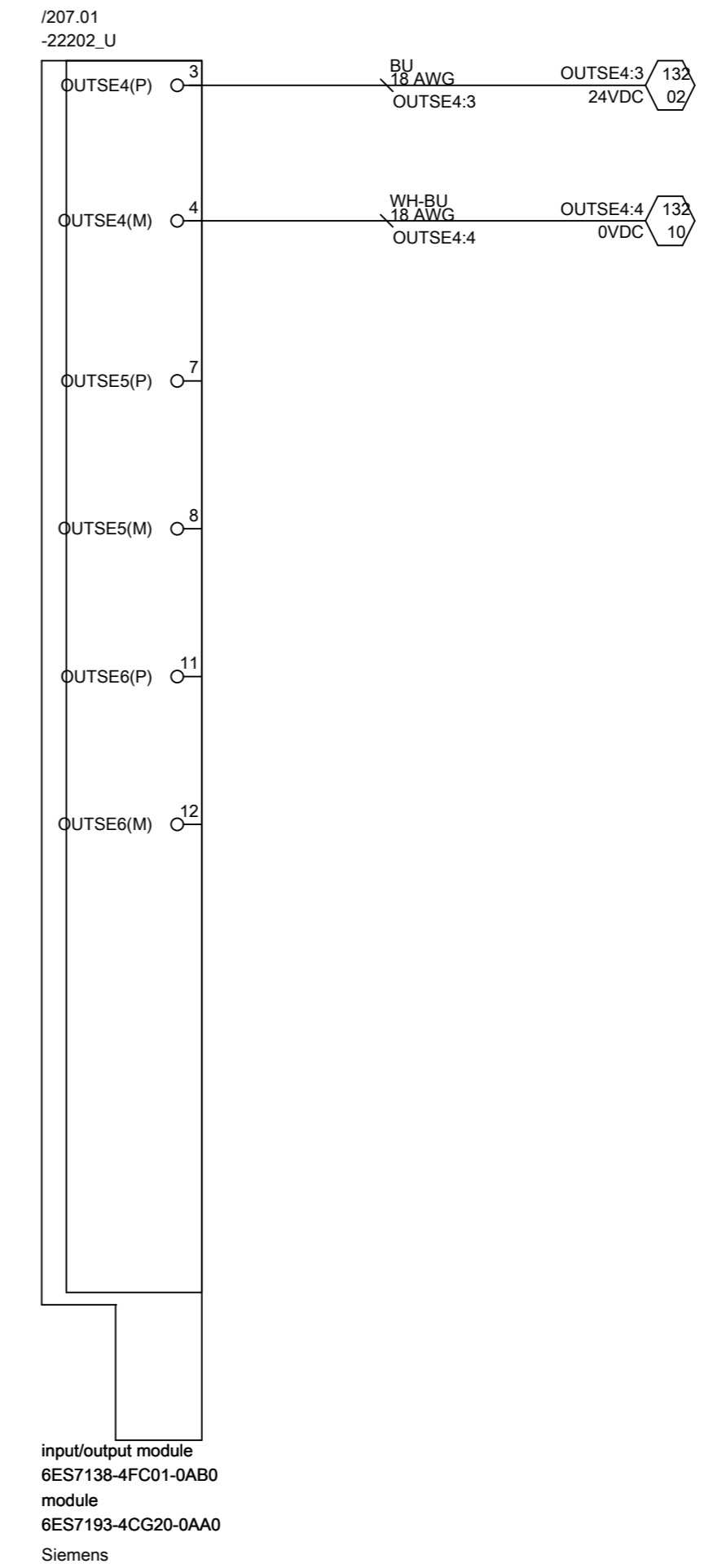
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DRAWN	04.09.2015	AHP3/GMI		Inv.No.				
Reserve page 225-230								
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work condition emergency stop
work condition emergency stop
work condition work area
work condition work area
Unclamp tool in spindle
Unclamp tool in spindle

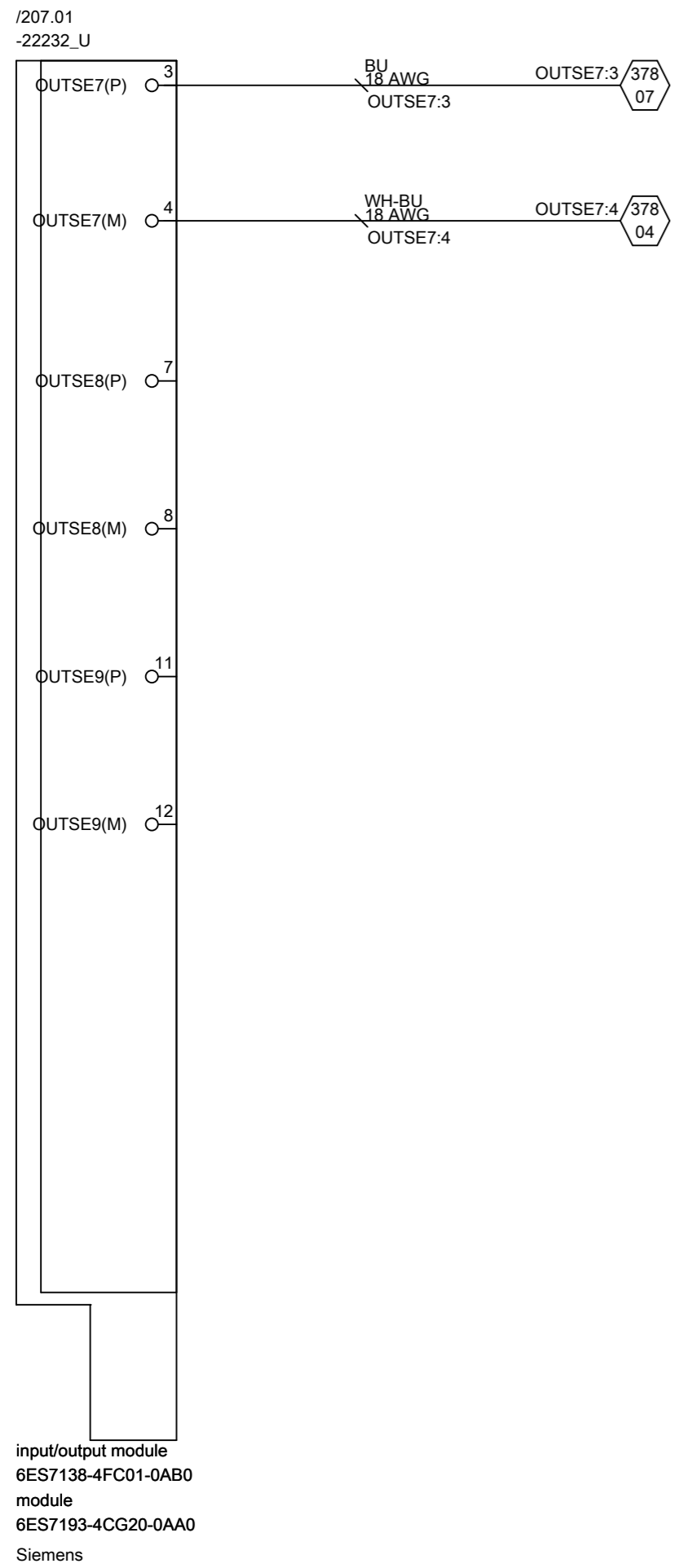
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work condition pallet changer
work condition pallet changer
reserved work condition workpiece setting station
reserved work condition workpiece setting station
reserved work condition workpiece loading station safety door
reserved work condition workpiece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

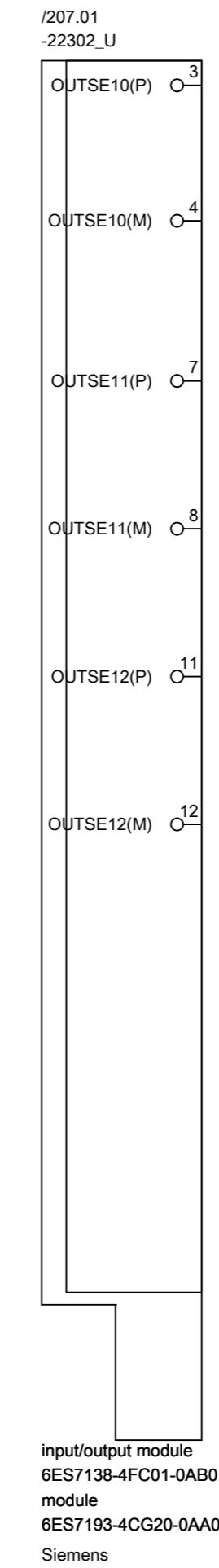
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DRAWN	26.05.2015	AHP3/GMI			
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work condition tool setting station
work condition tool setting station
reserved work condition rack-type tool magazine
reserved work condition rack-type tool magazine
reserved work condition hydraulic workpiece clamping
reserved work condition hydraulic workpiece clamping

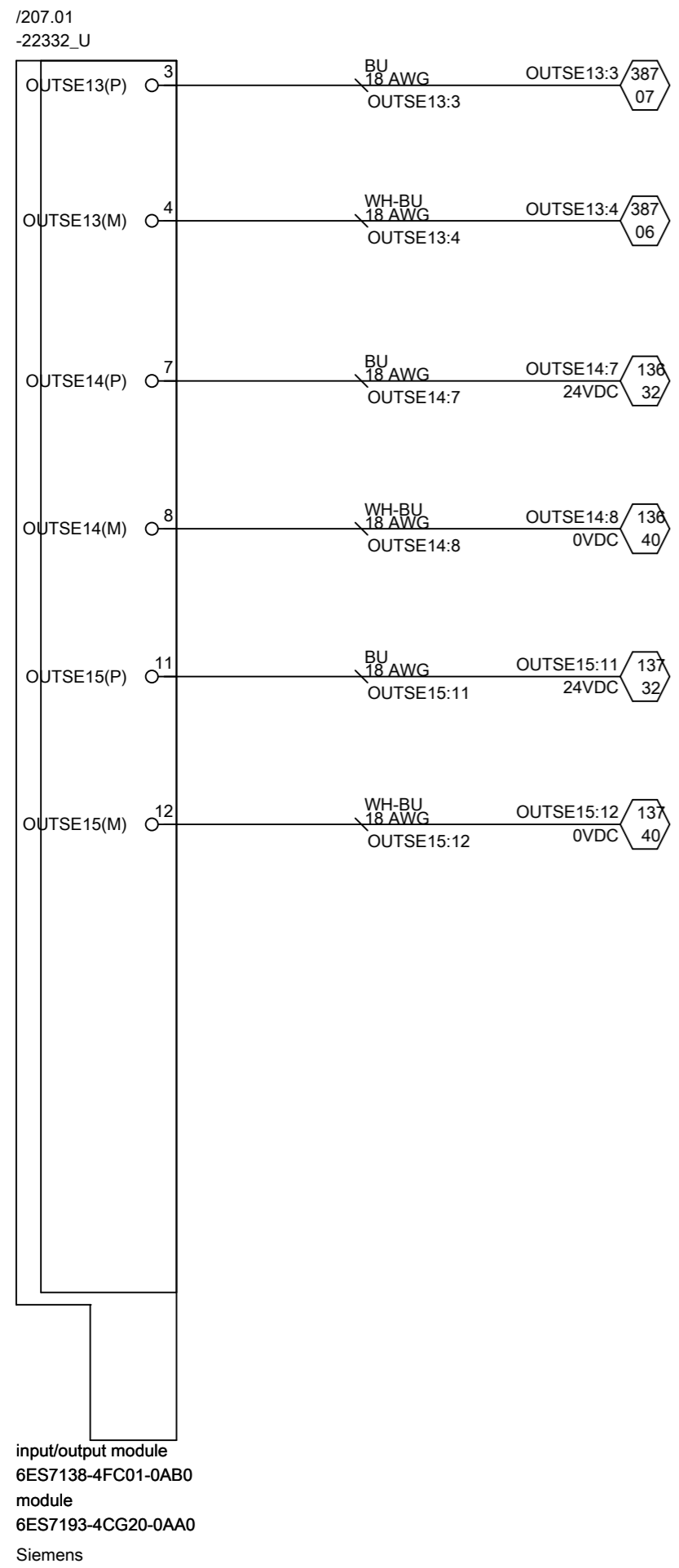
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
OUTSE7 - OUTSE9 OUTSE10 - OUTSE12				Inv.No.			
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work condition safety
door loading (top
loader)

work condition safety
door loading (top
loader)

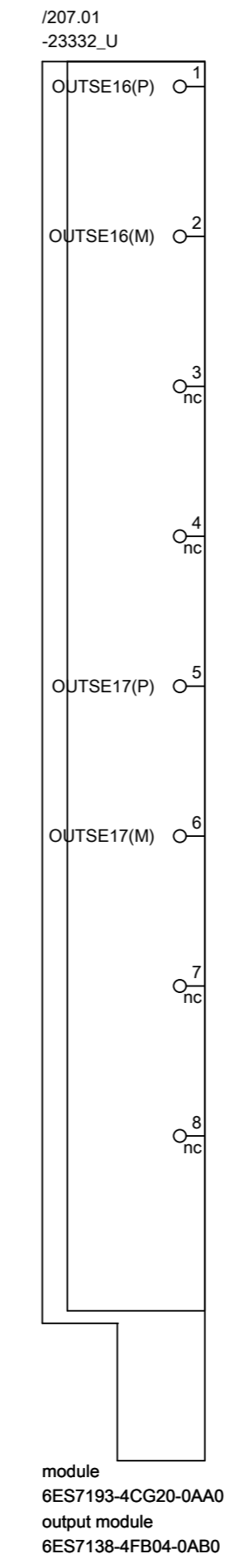
work condition from
machine to
loading system

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

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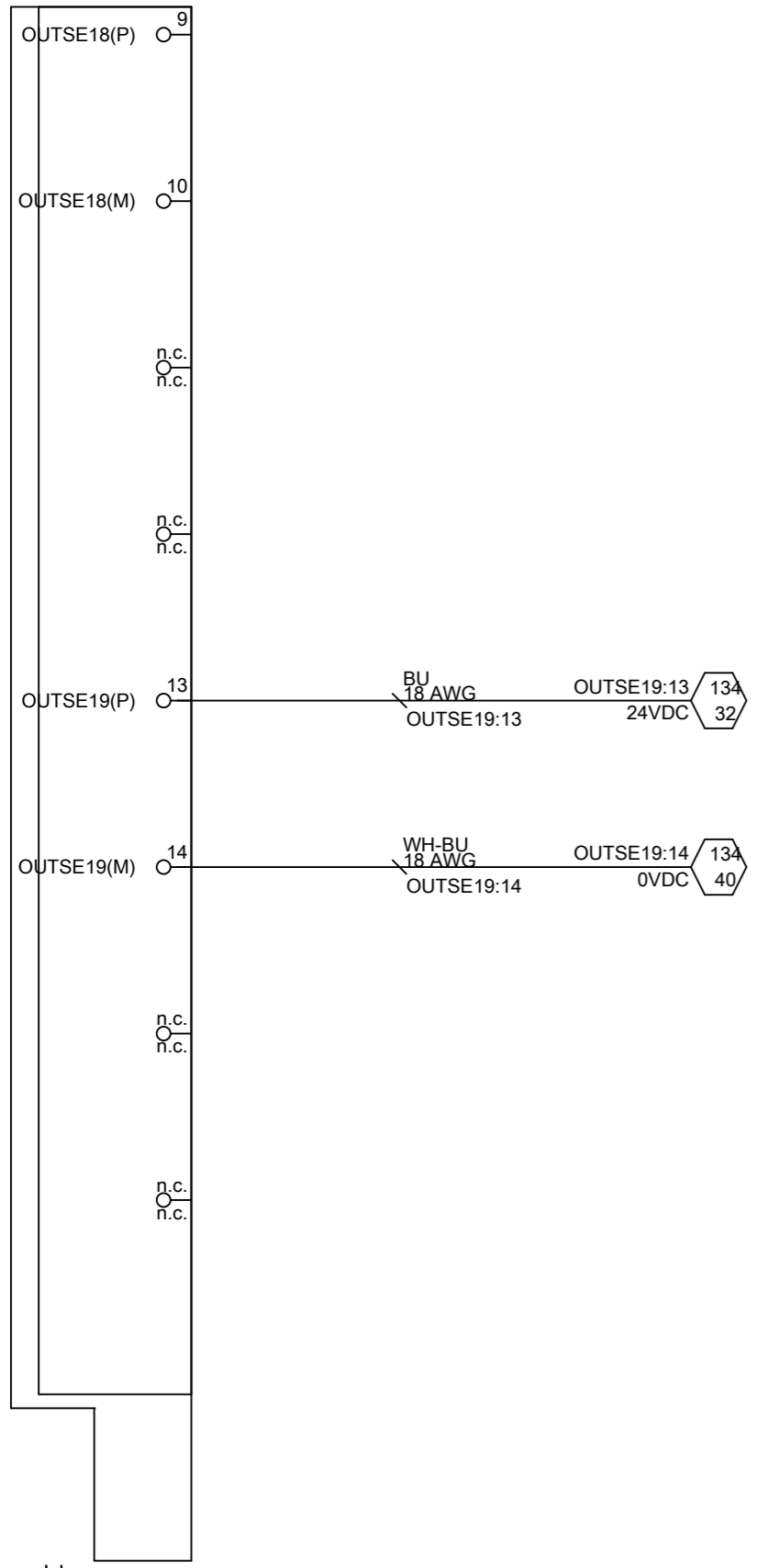
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
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reserved
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
6ES7138-4FB04-0AB0

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
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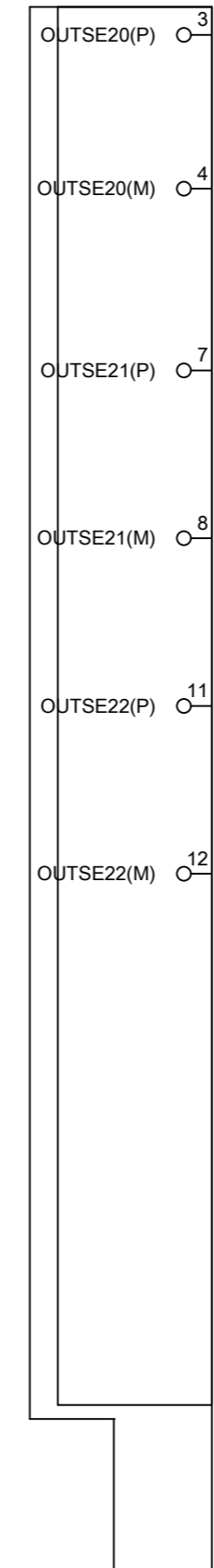
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input/output module
6ES7138-4FC01-0AB0
module
6ES7193-4CG20-0AA0
Siemens

Reserve OUTSE23 - OUTSE25

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
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Reserve
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	12.08.2015	AHP3/RIG		Inv.No.	
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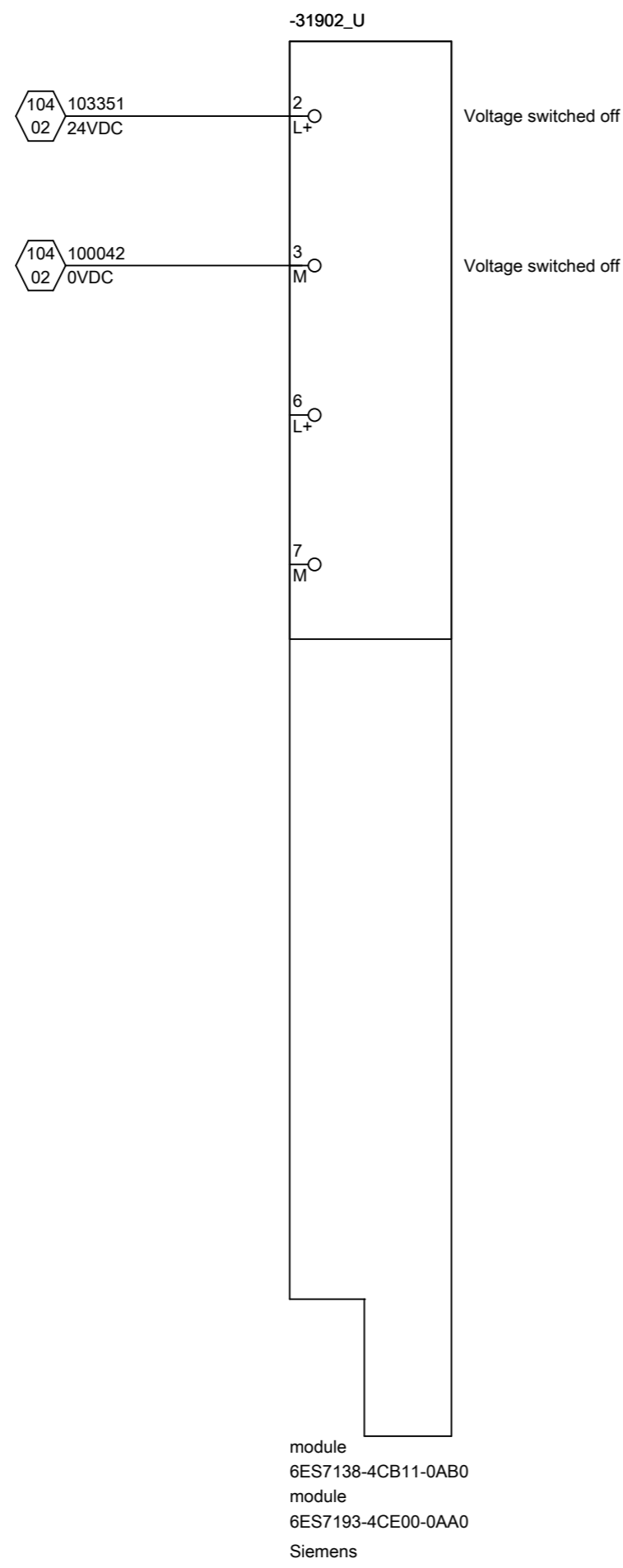
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page 241-318

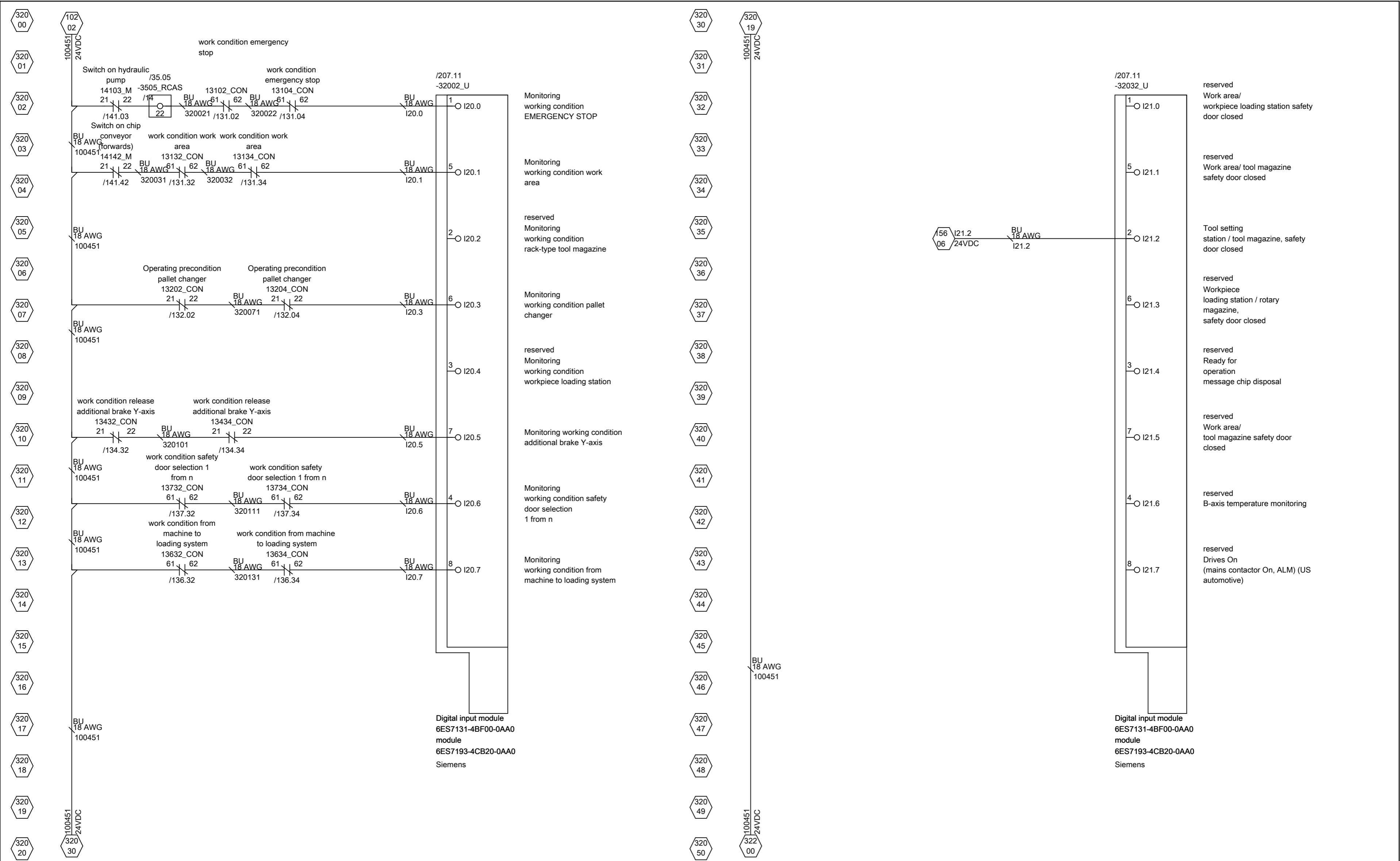
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	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Power module 24V DC				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I20.0 - I20.7 I21.0 - I21.7				Inv.No.	
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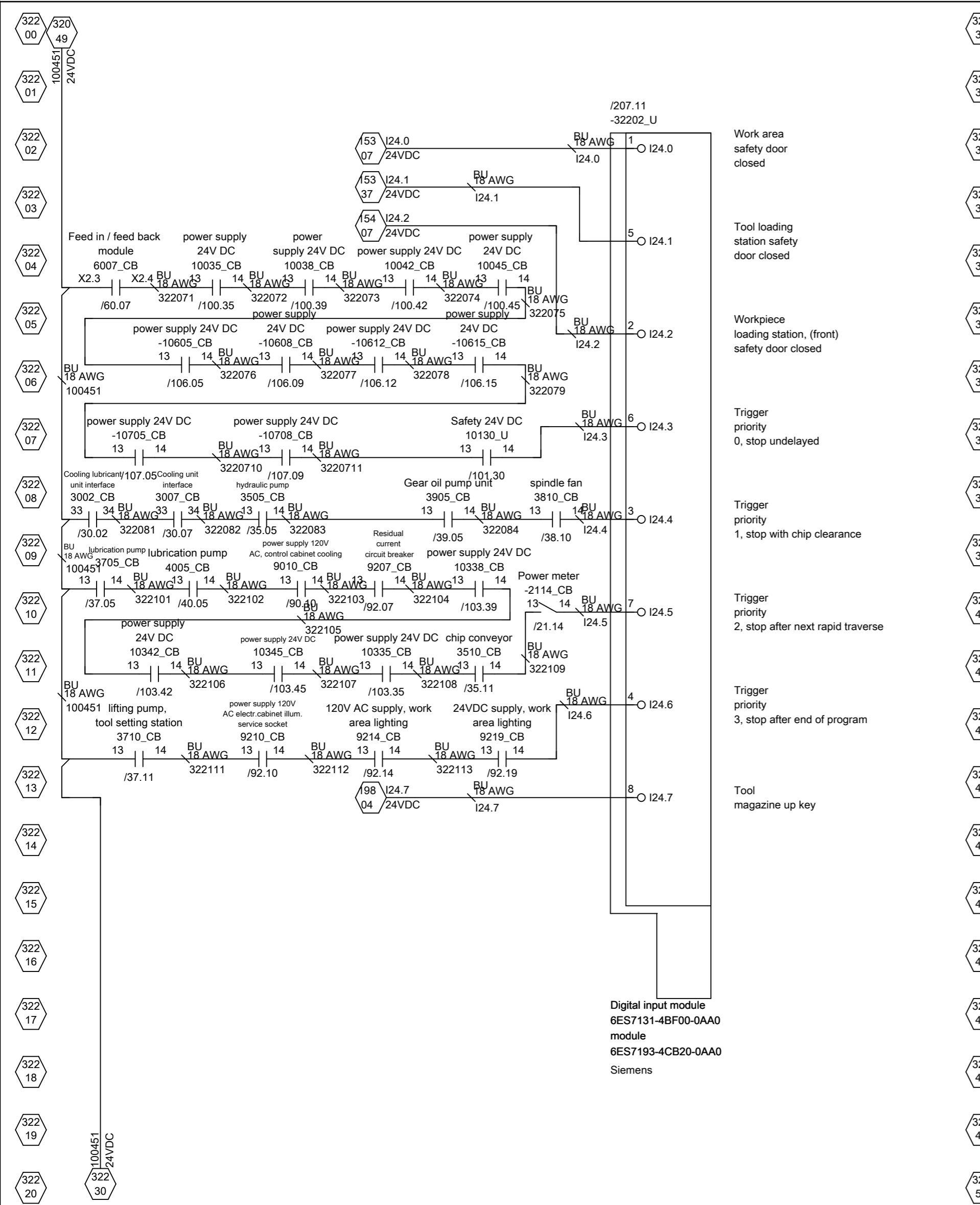
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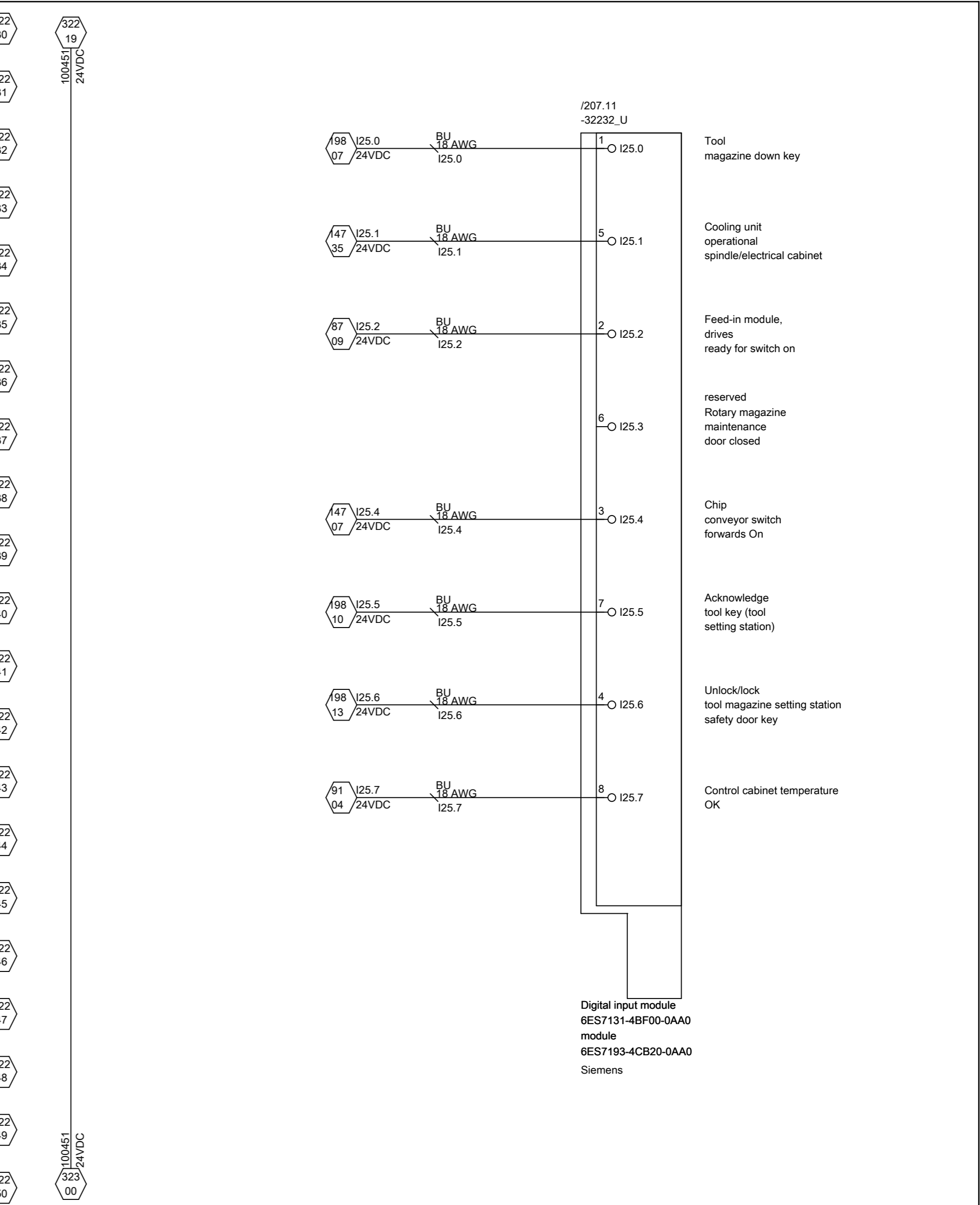
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I23.0 - I23.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
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CHANGE	12.04.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
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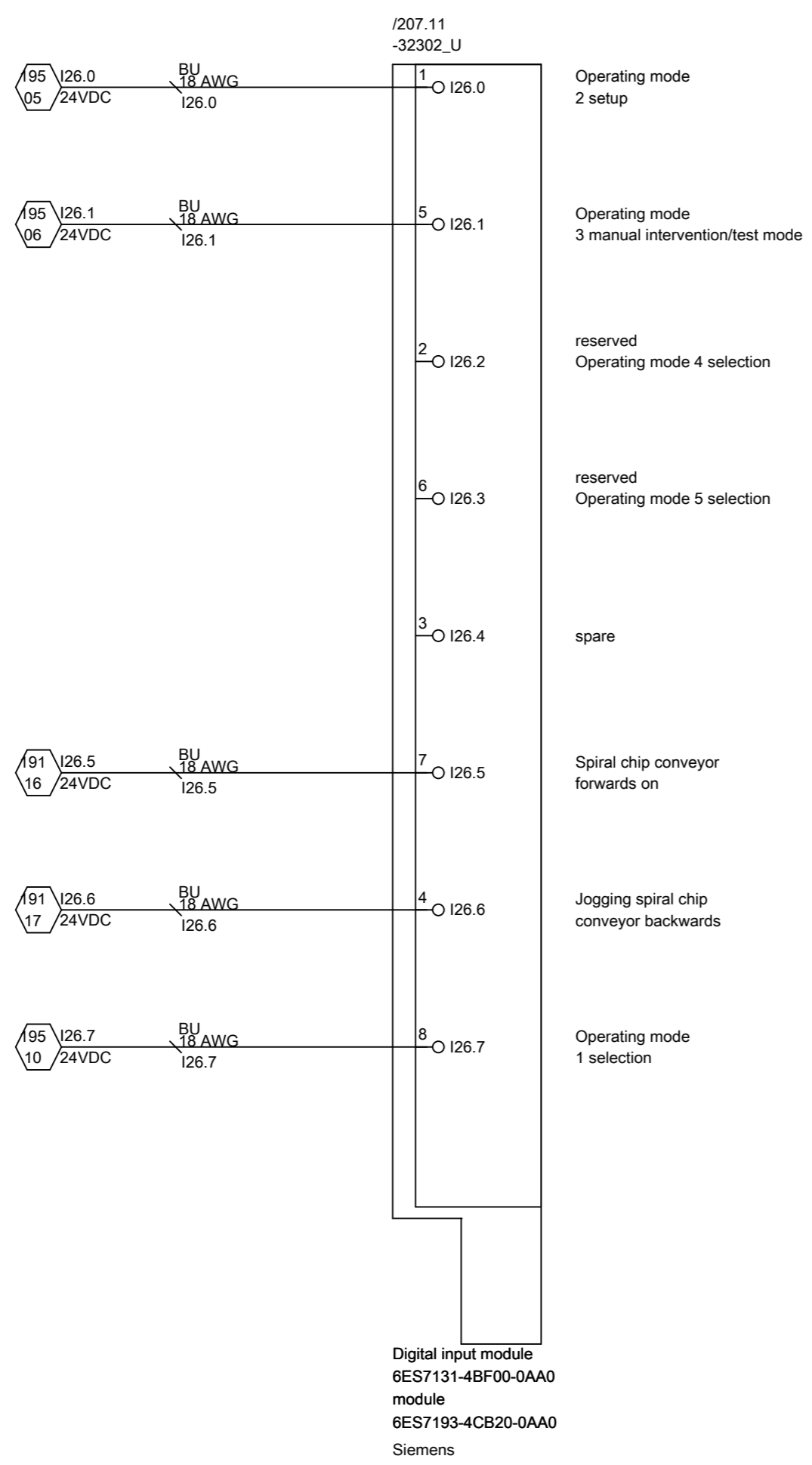
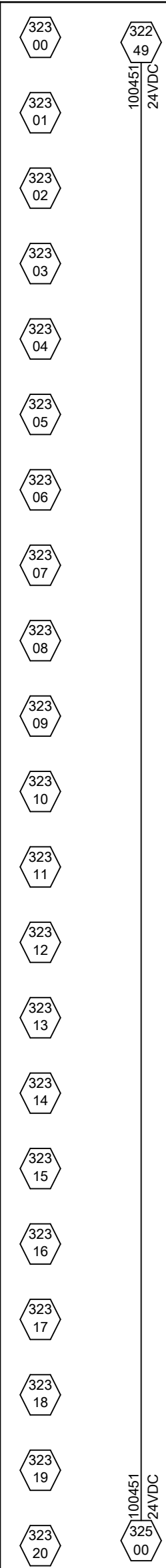


Digital input module
6ES7131-4BF00-0AA0
module
6ES7193-4CB20-0AA0
Siemens



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

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
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DRAWN	26.05.2015	AHP3/GMI			
I24.0 - I24.7 I25.0 - I25.7				Inv.No.	
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Digital input module
 6ES7131-4BF00-0AA0
 module
 6ES7193-4CB20-0AA0
 Siemens



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 I27.0 - I27.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
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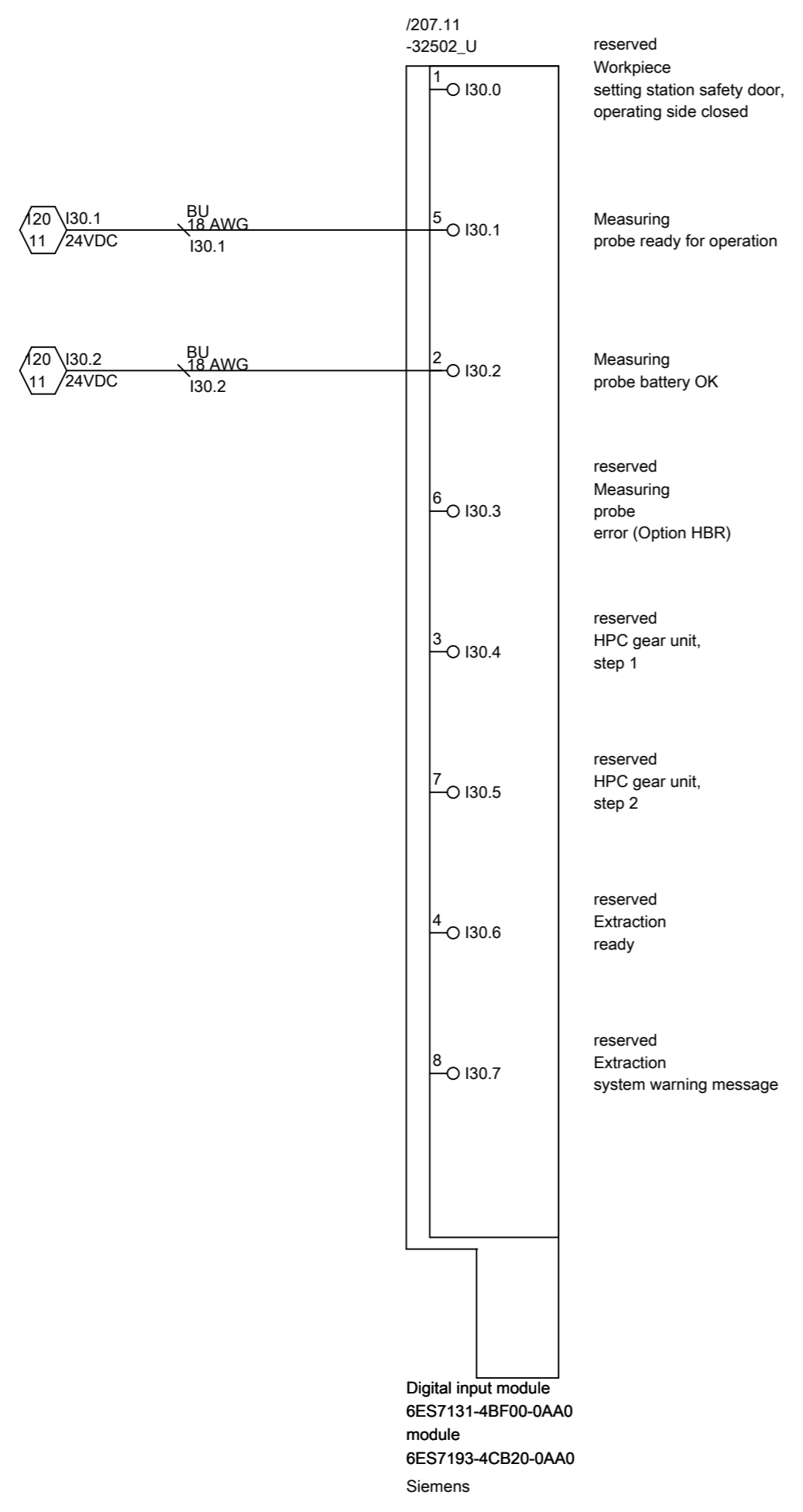
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I29.0 - I29.7

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DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
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I31.0 - I31.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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CHANGE	12.10.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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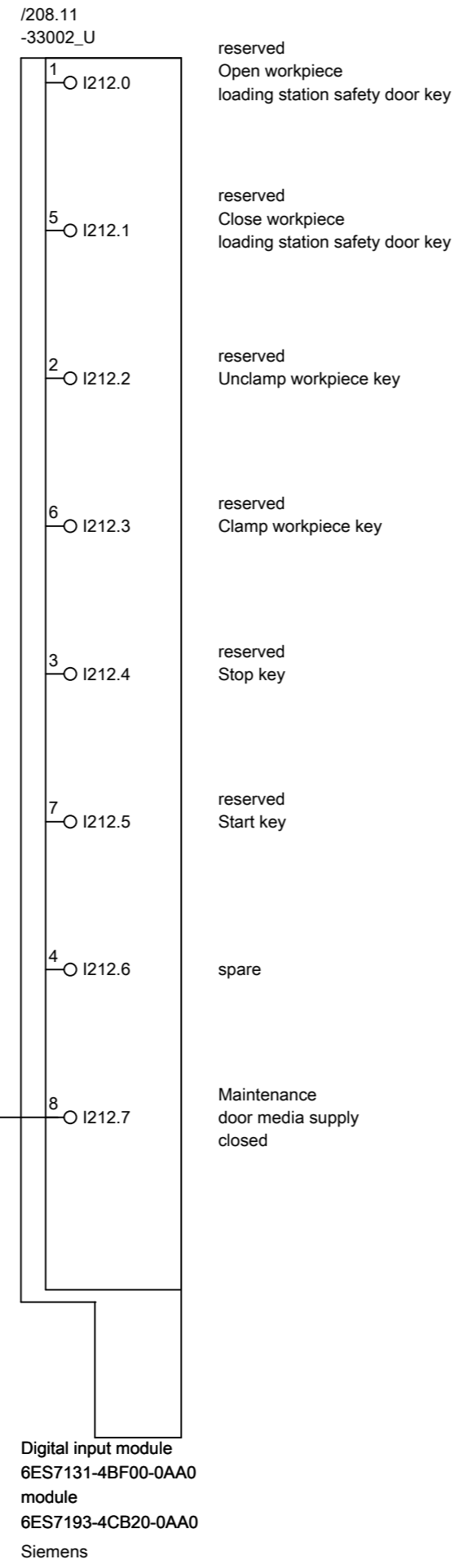
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reserved
Open workpiece
loading station safety door key

reserved
Close workpiece
loading station safety door key

reserved
Unclamp workpiece key

reserved
Clamp workpiece key

reserved
Stop key

reserved
Start key

spare

Maintenance
door media supply
closed

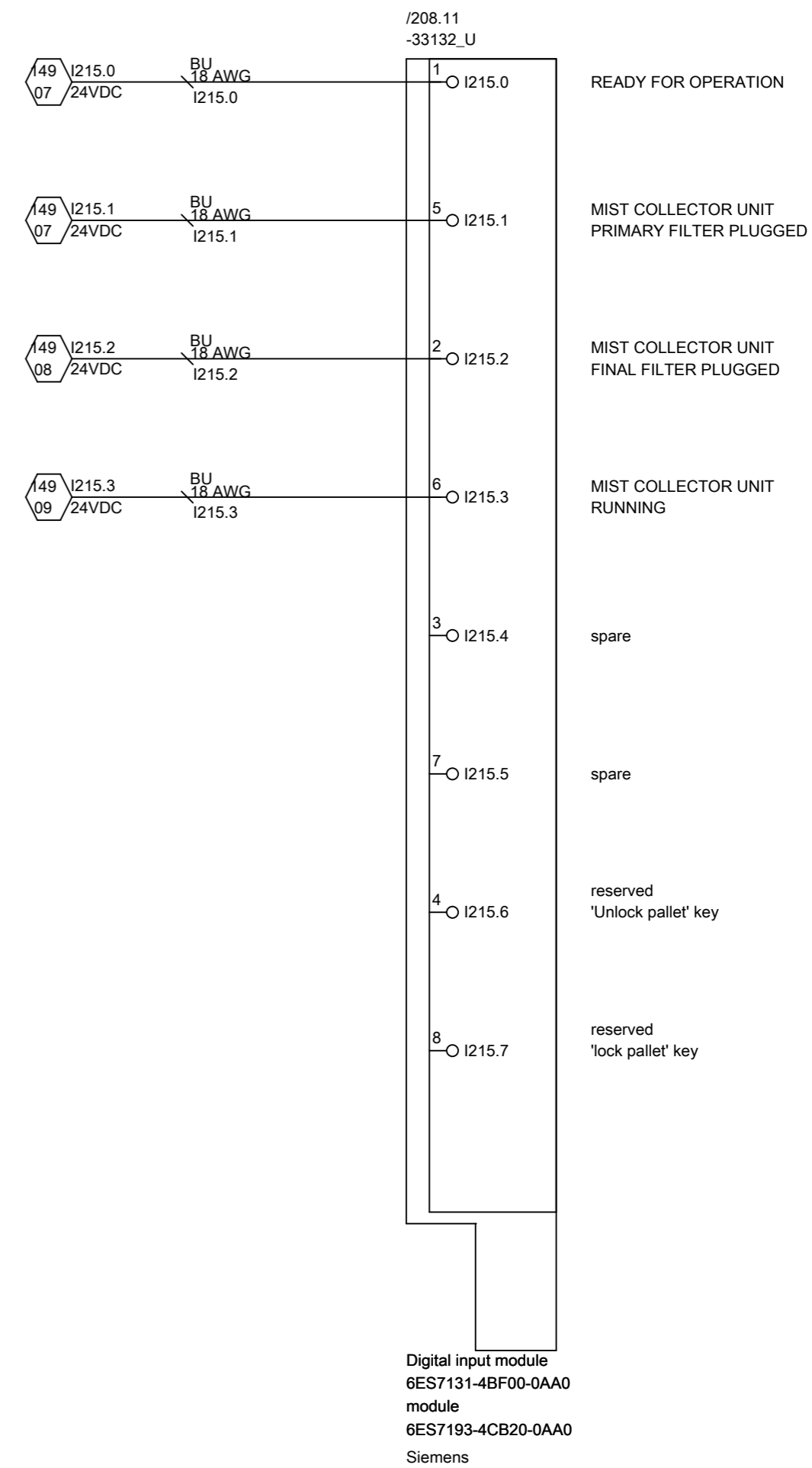
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I213.0 - I213.7

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Project description P-009081				Project JIC_EP05480000		
				Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	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.			
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DRAWN	26.05.2015	AHP3/GMI			
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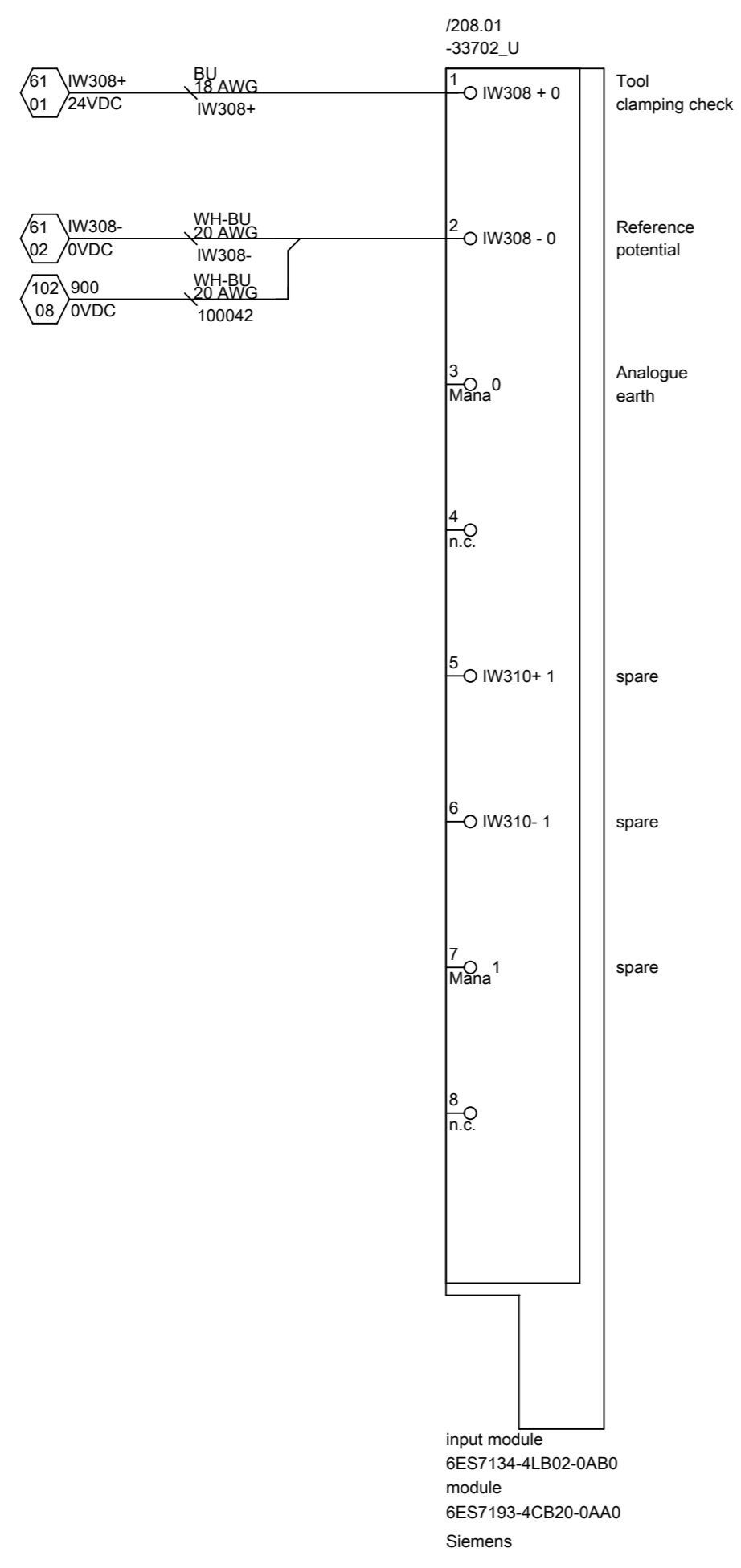
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC				
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Reserve
IW372 - IW374

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Reserve
IW376 - IW378

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve IW372 - IW374 IW376 - IW378				Number of pages 275 Pages 338	
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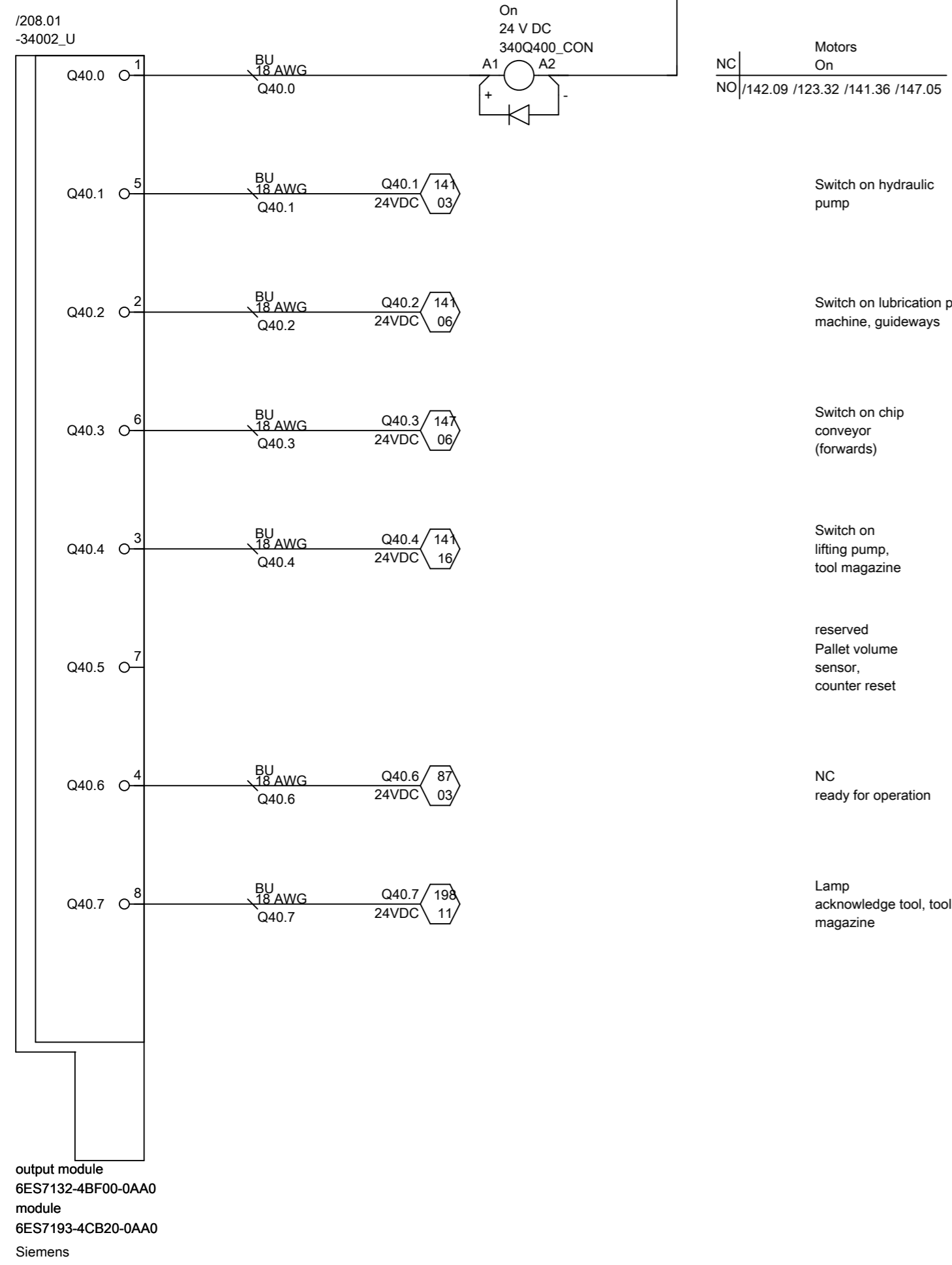
Reserve
IW379 - IW381

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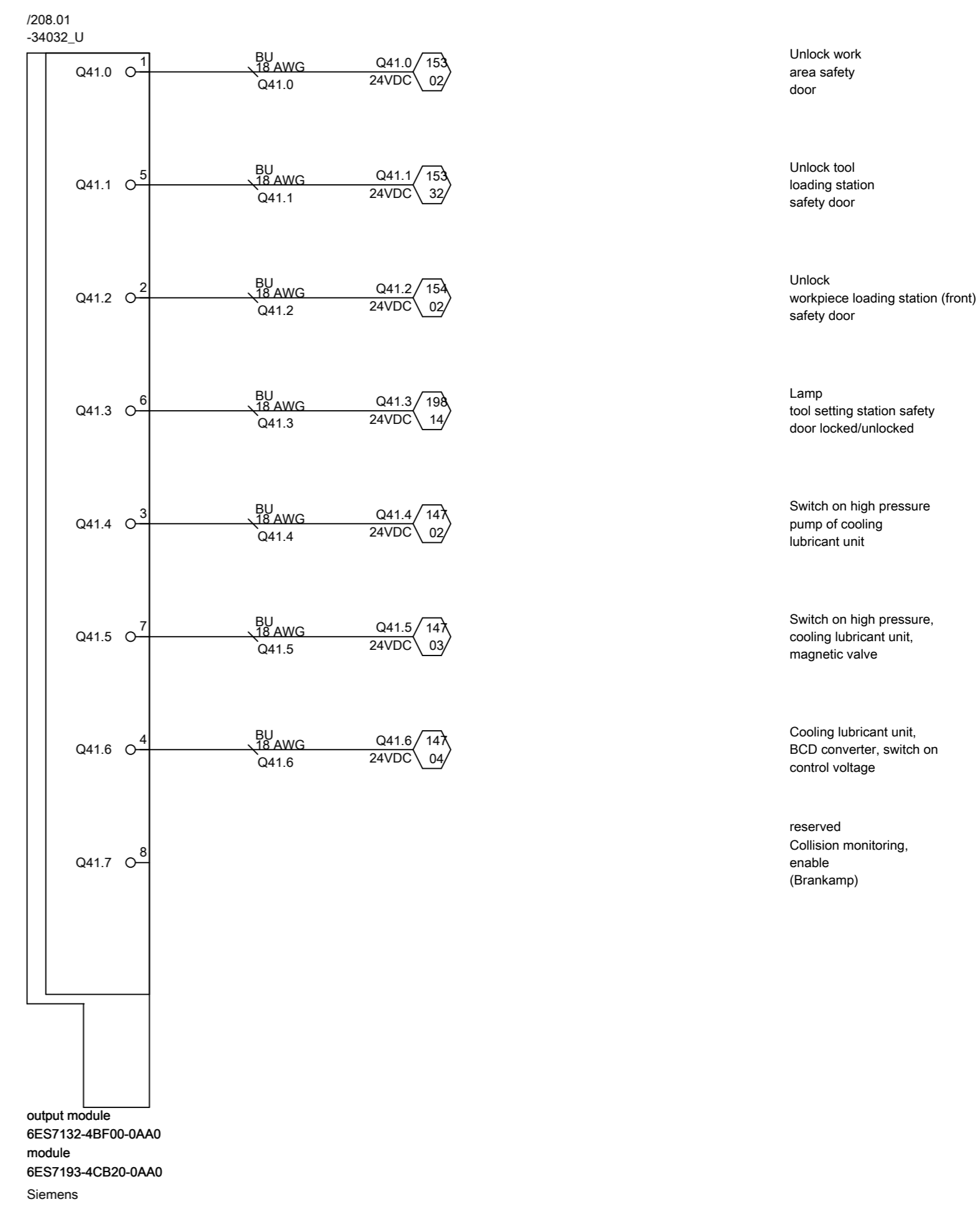
Reserve
IW382 - IW384

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve IW379 - IW381 IW382 - IW384				Number of pages 275 Pages 339	
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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

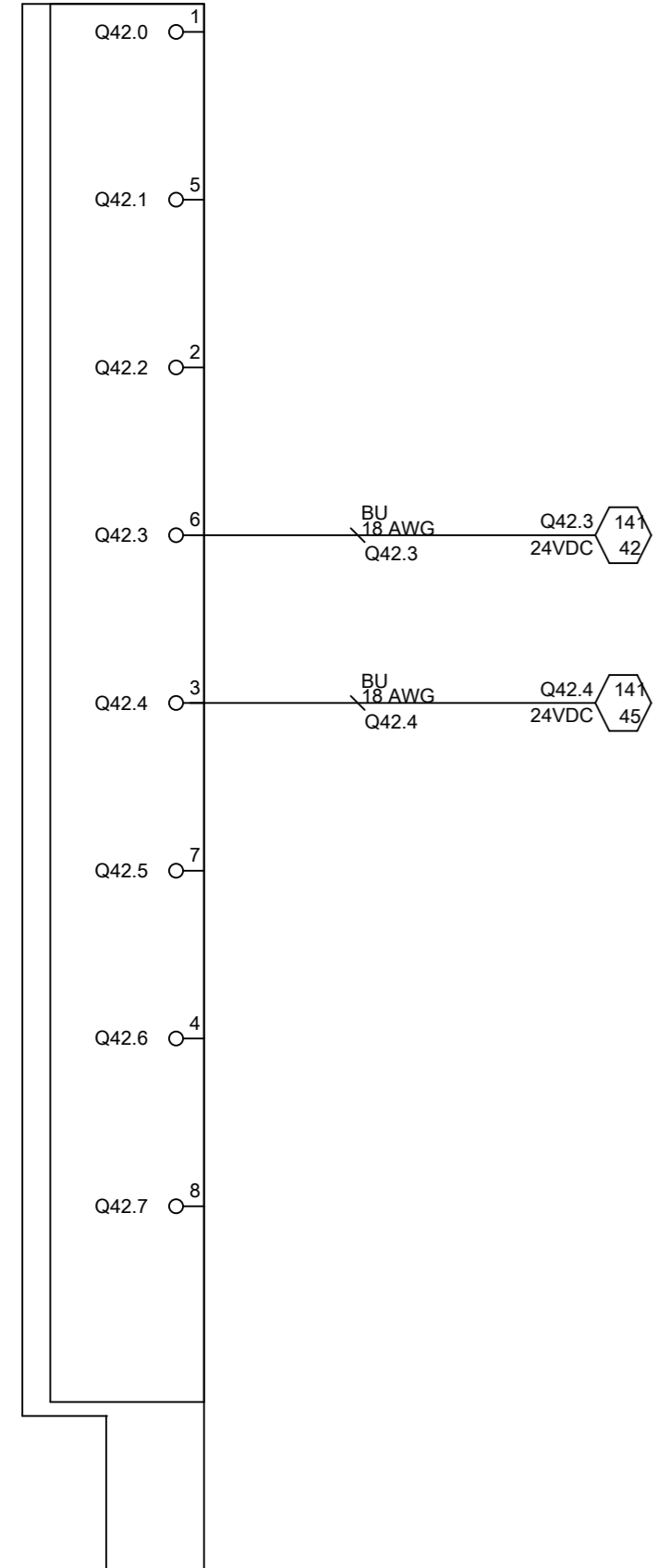
Cooling lubricant unit, BCD converter, switch on control voltage

reserved
Collision monitoring, enable (Brankamp)

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q40.0 - Q40.7 Q41.0 - Q41.7				Inv.No.		
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-34102_U



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

reserved
Operating mode 4

reserved
Operating mode 5

reserved
Unlock
workpiece setting station safety
door, operating side

Switch on chip
conveyor
forwards

Switch on chip
conveyor
backwards

reserved
Shift HPC gear
unit
to step 1

reserved
Shift HPC gear
unit
to step 2

spare

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Reserve Q43.0 - Q43.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHECK			H 10000 MC				
CHANGE	12.10.2016	AHP3/RIG					
DRAWN	26.05.2015	AHP3/GMI					
Q42.0 - Q42.7 Reserve Q43.0 - Q43.7				Inv.No.			
ePLAN P8 2.2.5				=54800	Number of pages		275 Pages 341
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Reserve
Q44.0 - Q44.7

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Reserve
Q45.0 - Q45.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	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.			
Reserve Q44.0 - Q44.7 Q45.0 - Q45.7				Number of pages 275 Pages 342			
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Reserve
Q46.0 - Q46.7

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Reserve
Q47.0 - Q47.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Q46.0 - Q46.7 Q47.0 - Q47.7				Number of pages 275 Pages 343	
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Reserve
Q48.0 - Q48.7

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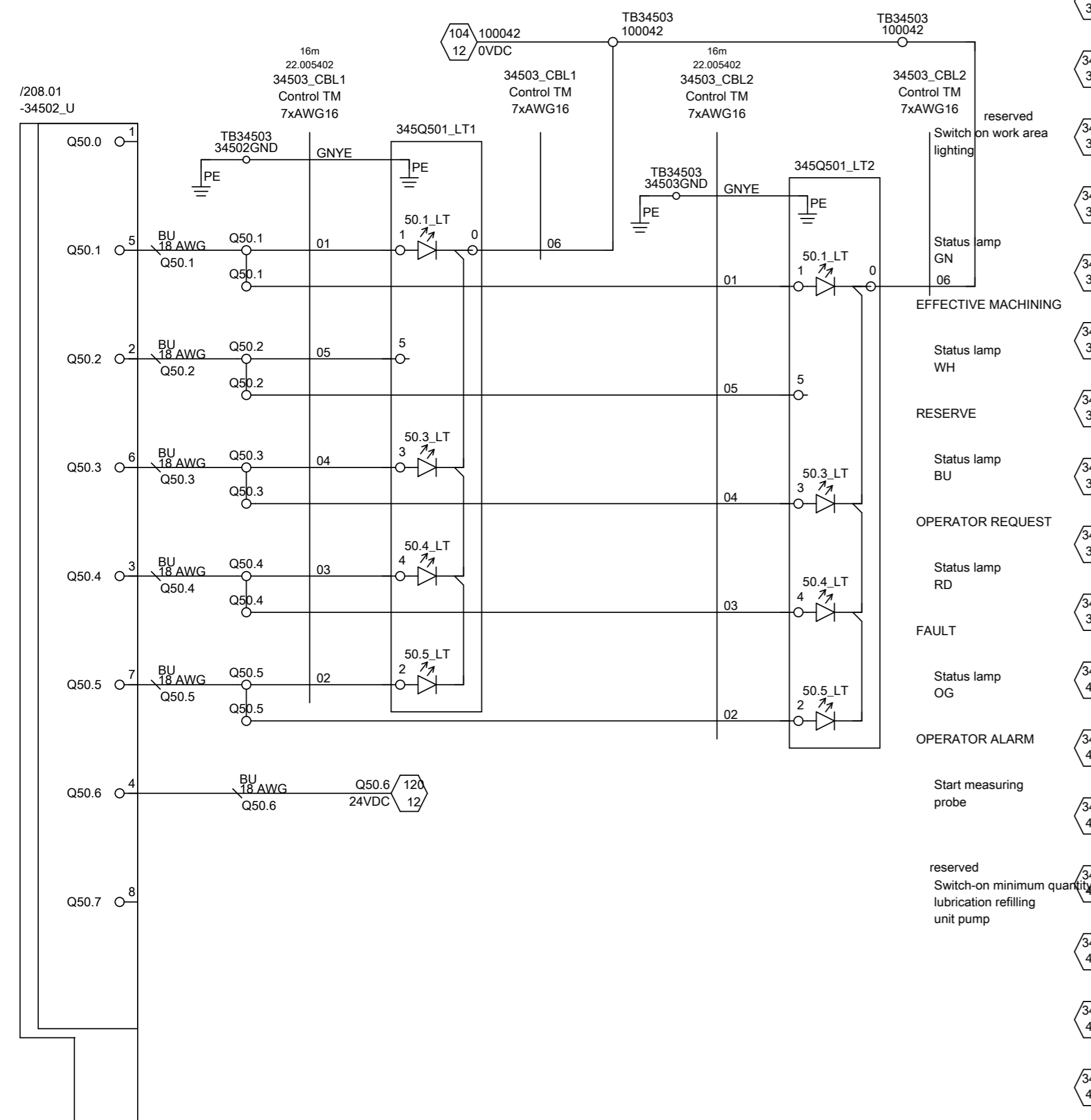
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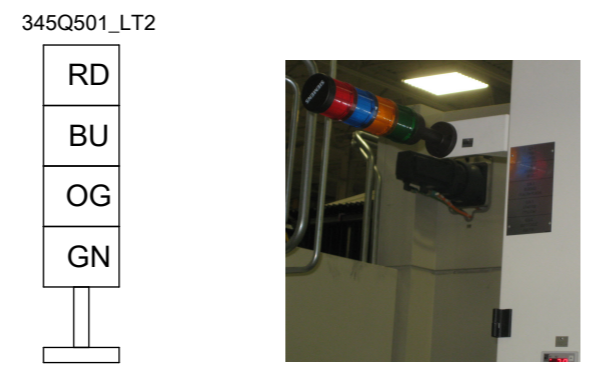
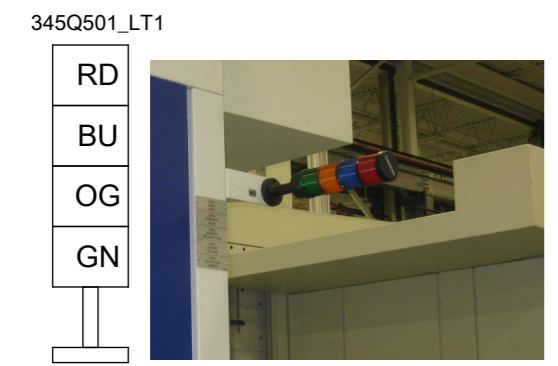
Reserve
Q49.0 - Q49.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	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.			
Reserve Q48.0 - Q48.7 Q49.0 - Q49.7				Number of pages 275 Pages 344			
ePLAN P8 2.2.5 =54800				◀ 343 Page 345 ▶			

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



- reserved on work area
- Switch on work area lighting
- Status lamp GN 06
- EFFECTIVE MACHINING
- Status lamp WH 05
- RESERVE
- Status lamp BU 04
- OPERATOR REQUEST
- Status lamp RD 03
- FAULT
- Status lamp OG 02
- OPERATOR ALARM
- Start measuring probe
- reserved
- Switch-on minimum quantity lubrication refilling unit pump

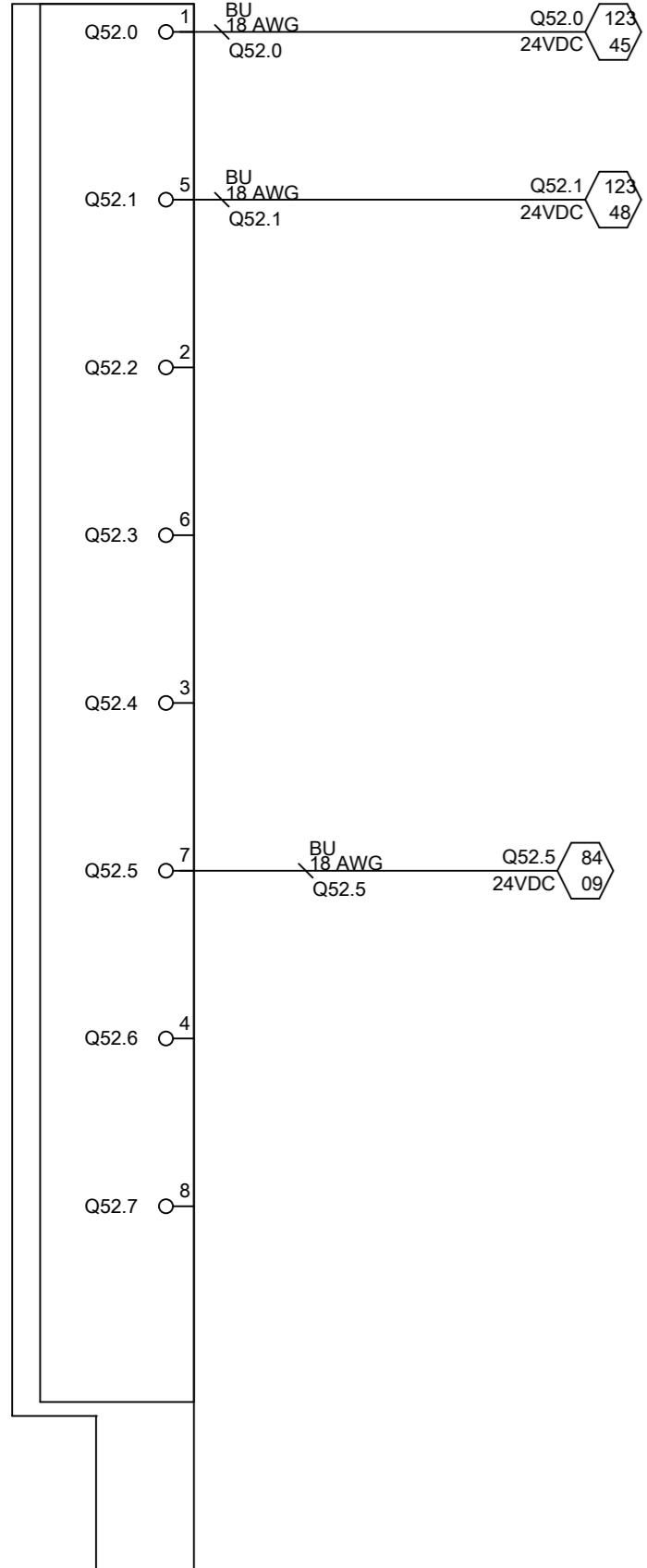
Reserve Q51.0 - Q51.7

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Q50.0 - Q50.7 Q51.0 - Q51.7				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 345	
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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

Unclamp A-axis clamping

spare

reserved
Master Start lamp (US-Automotive)

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Reserve
Q53.0 - Q53.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q52.0 - Q52.7 Q53.0 - Q53.7				Inv.No.		
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Reserve
Q54.0 - Q54.7

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Reserve
Q55.0 - Q55.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	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.			
Reserve Q54.0 - Q54.7 Q55.0 - Q55.7				Number of pages 275 Pages 347			
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Reserve
Q56.0 - Q56.7

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Reserve
Q57.0 - Q57.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Q56.0 - Q56.7 Q57.0 - Q57.7				Number of pages 275 Pages 348	
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Reserve
Q58.0 - Q58.7

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Reserve
Q59.0 - Q59.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Q58.0 - Q58.7 Q59.0 - Q59.7				Number of pages 275 Pages 349	
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Reserve
Q212.0 - Q212.7

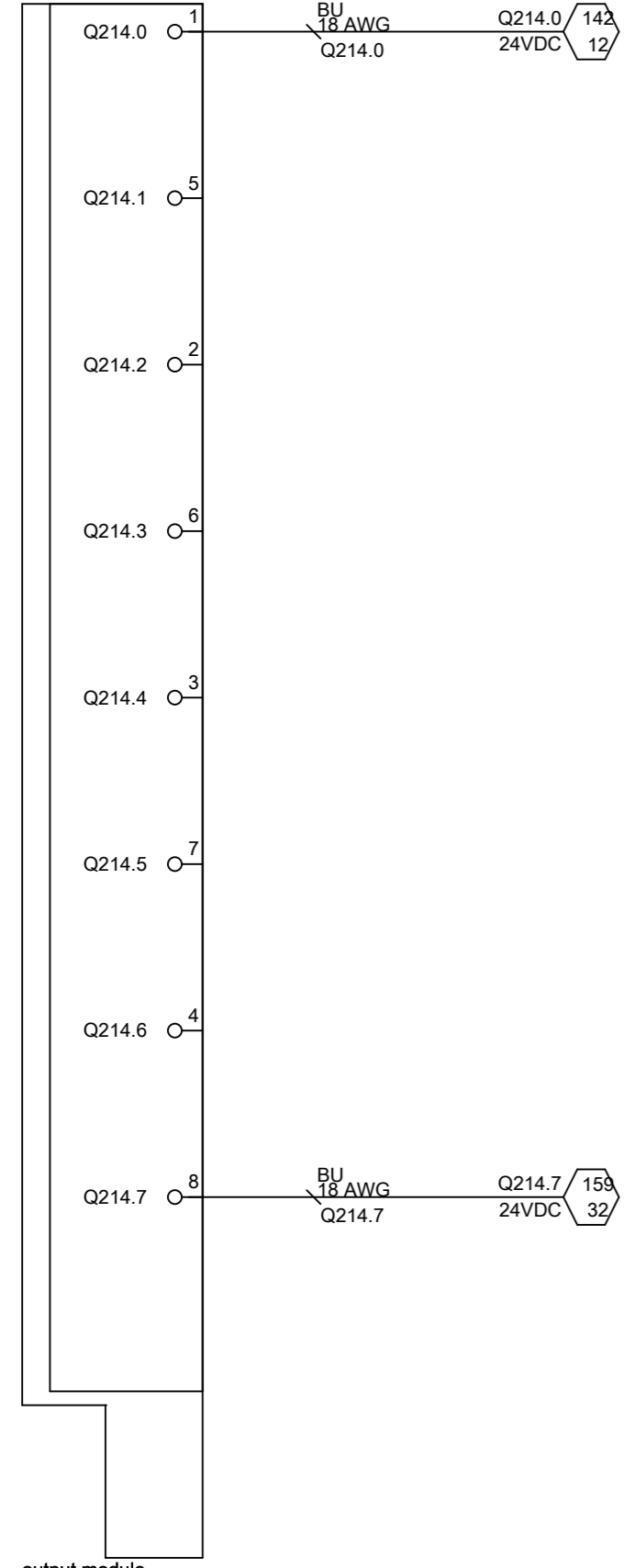
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Reserve
Q213.0 - Q213.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q212.0 - Q212.7 Q213.0 - Q213.7					
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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-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q214.0 - Q214.7 Q215.0 - Q215.7				Inv.No.	
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Reserve
Q216.0 - Q216.7

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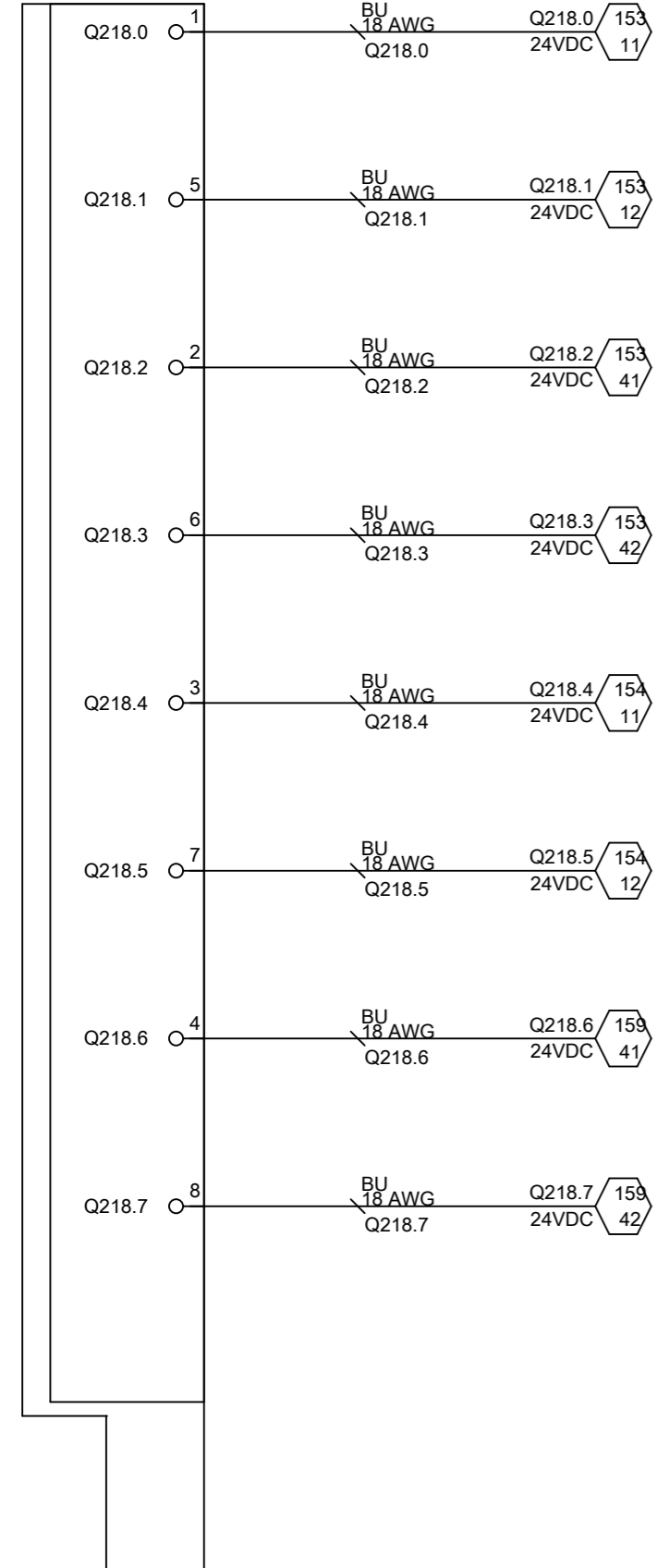
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Reserve
Q217.0 - Q217.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	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.			
Reserve Q216.0 - Q216.7 Q217.0 - Q217.7				Number of pages 275 Pages 352			
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-35302_U



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-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	10.08.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
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Reserve
Q220.0 - Q220.7

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Reserve
Q221.0 - Q221.7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q220.0 - Q220.7 Q221.0 - Q221.7				Inv.No.	
				Number of pages 275 Pages 354	
ePLAN P8 2.2.5		=54800		◀ 353 Page 355 ▶	

Reserve
page 355-359

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve page 355-359				Number of pages 275 Pages 355	
ePLAN P8 2.2.5		=54800		354	Page +H1/360

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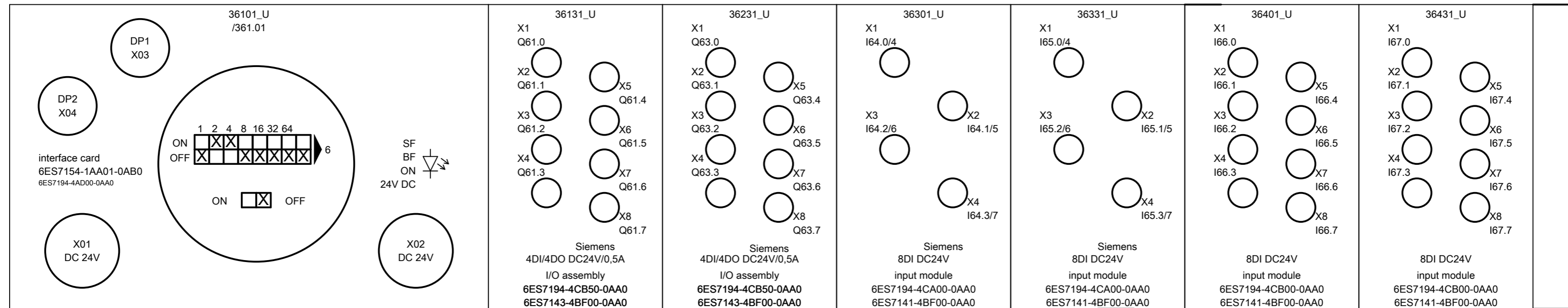
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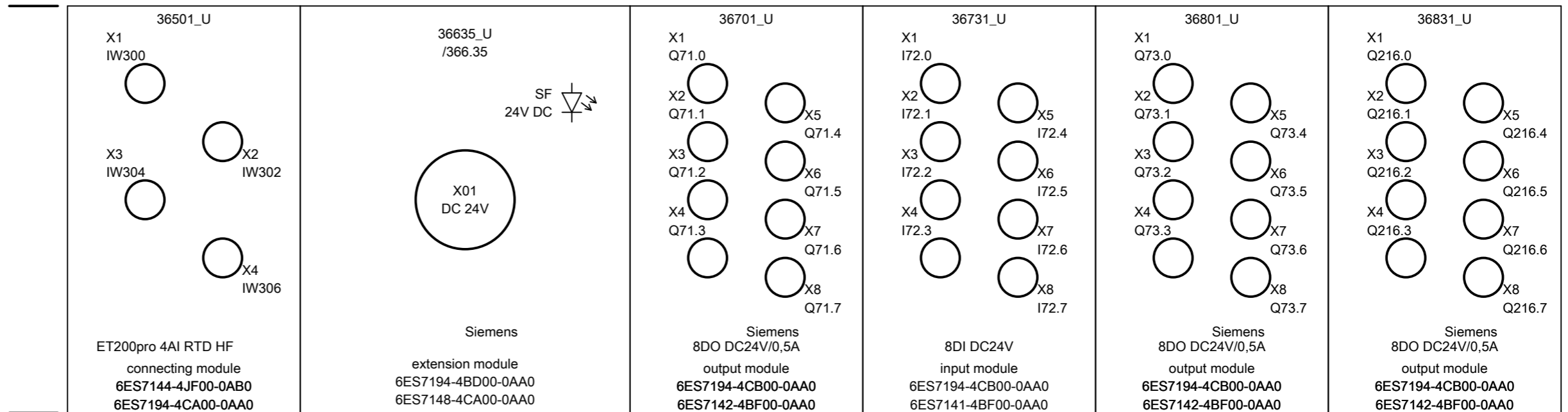
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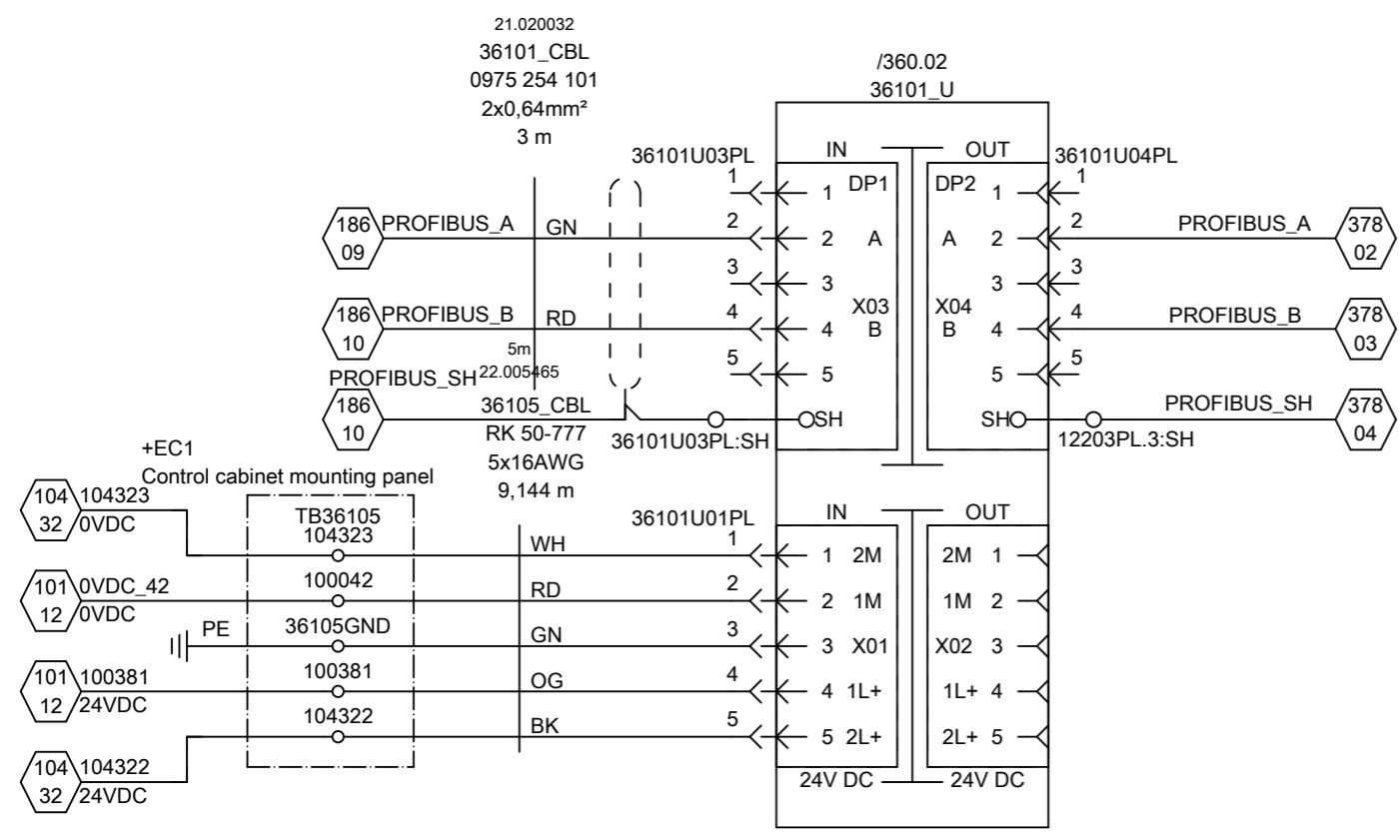
Operating precondition emergency Stop switch-off



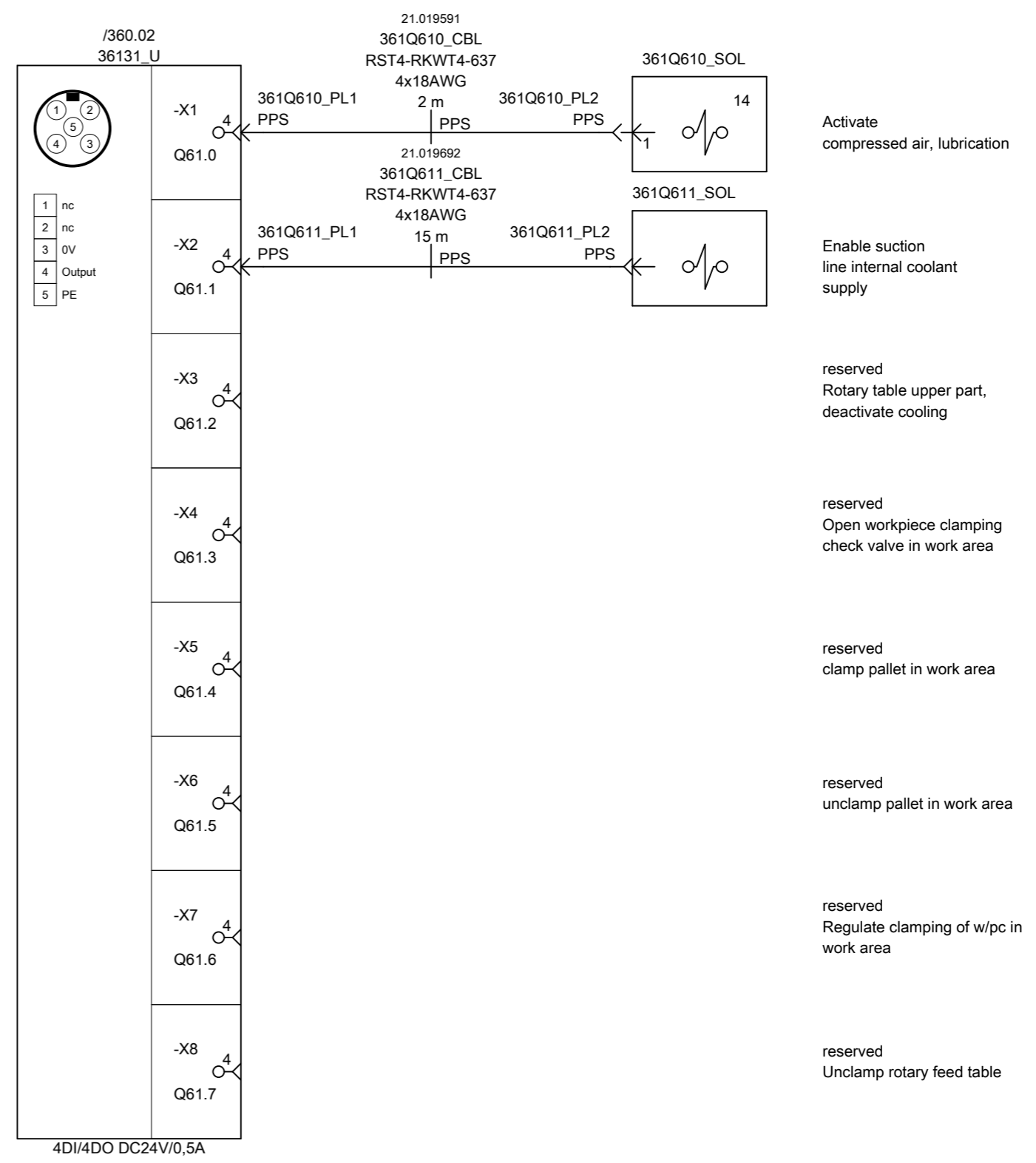
Operating precondition work area, switch-off

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of inputs/outputs, HELP 1/1				Inv.No.	
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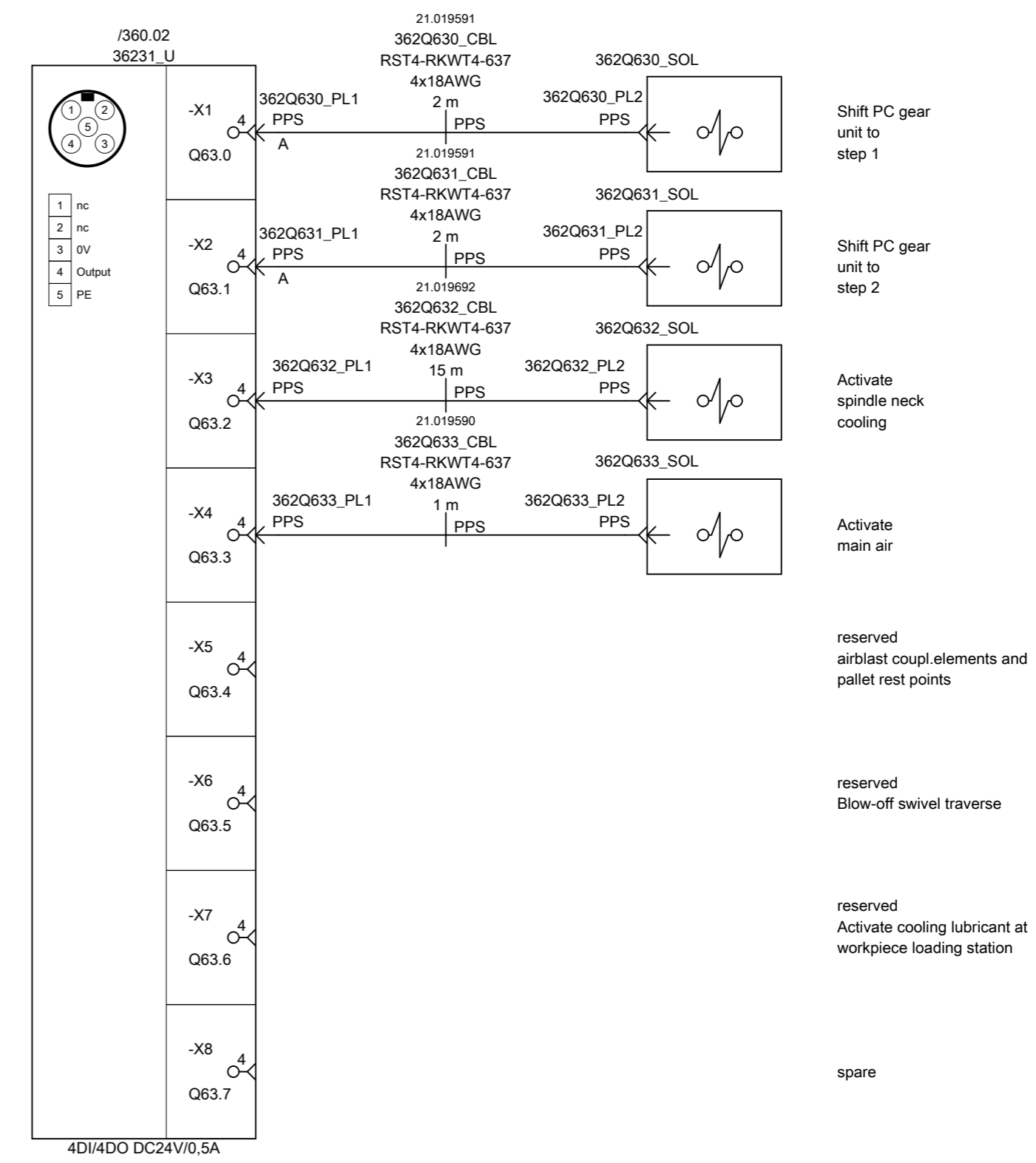
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Q61.0 - Q61.7				Inv.No.	
ePLAN P8 2.2.5				=54800	
Number of pages		275	Pages	361	
◀ 360		Page	362		

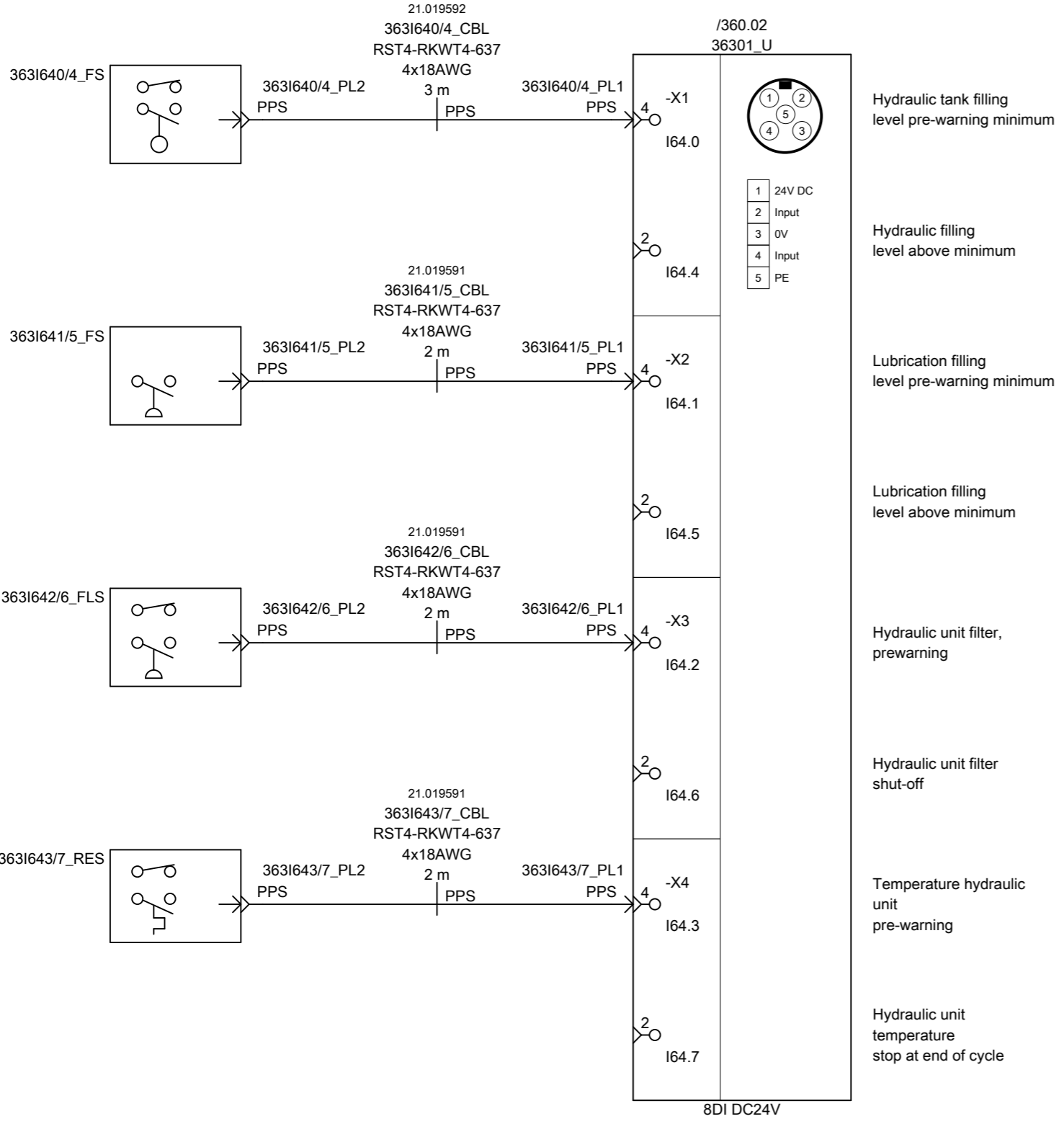
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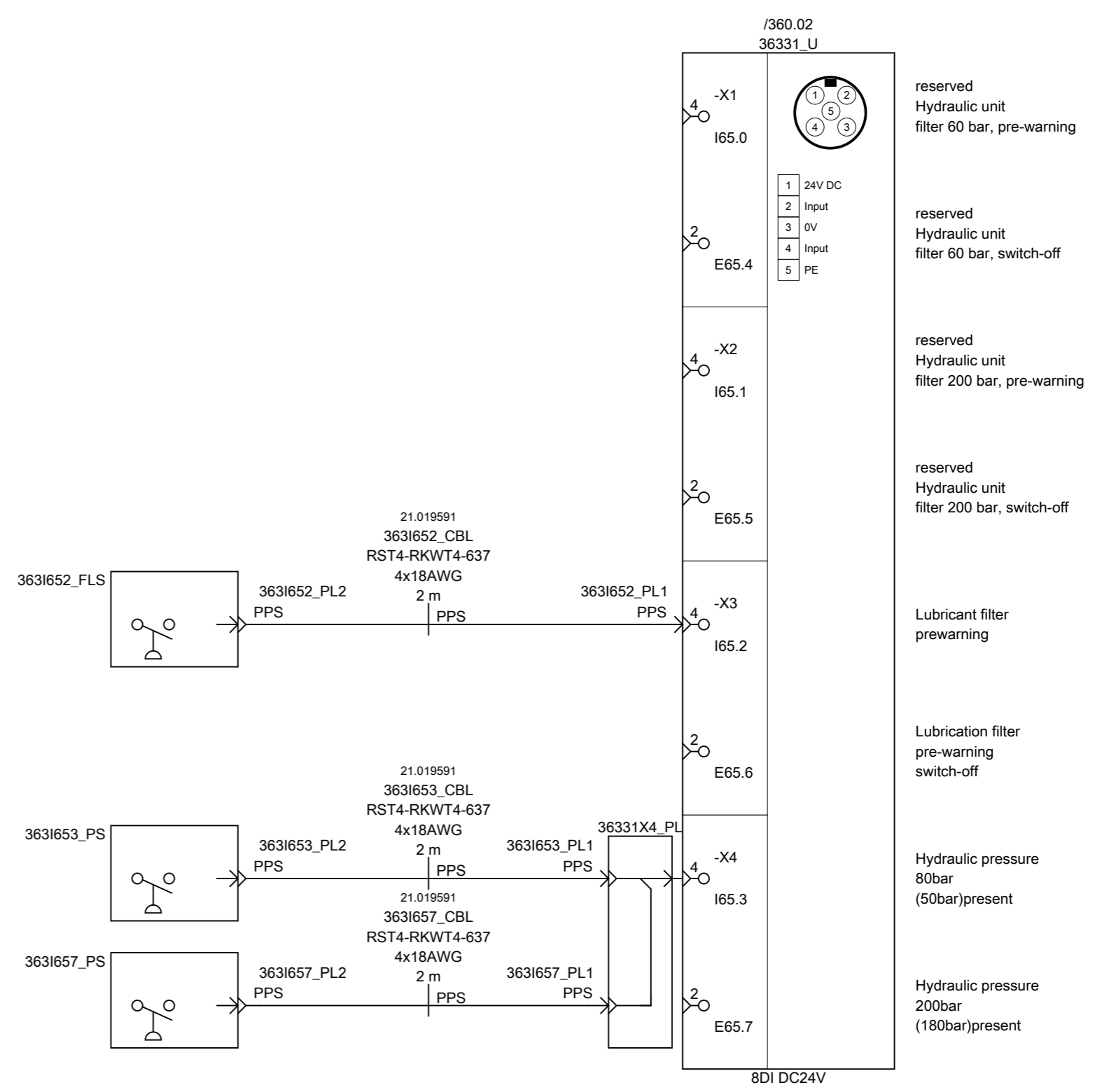


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI					
Reserve I/Q62.x I/Q63.x				Inv.No.			
ePLAN P8 2.2.5 =54800				Number of pages 275		Pages 362	
				Page 361		Page 363	

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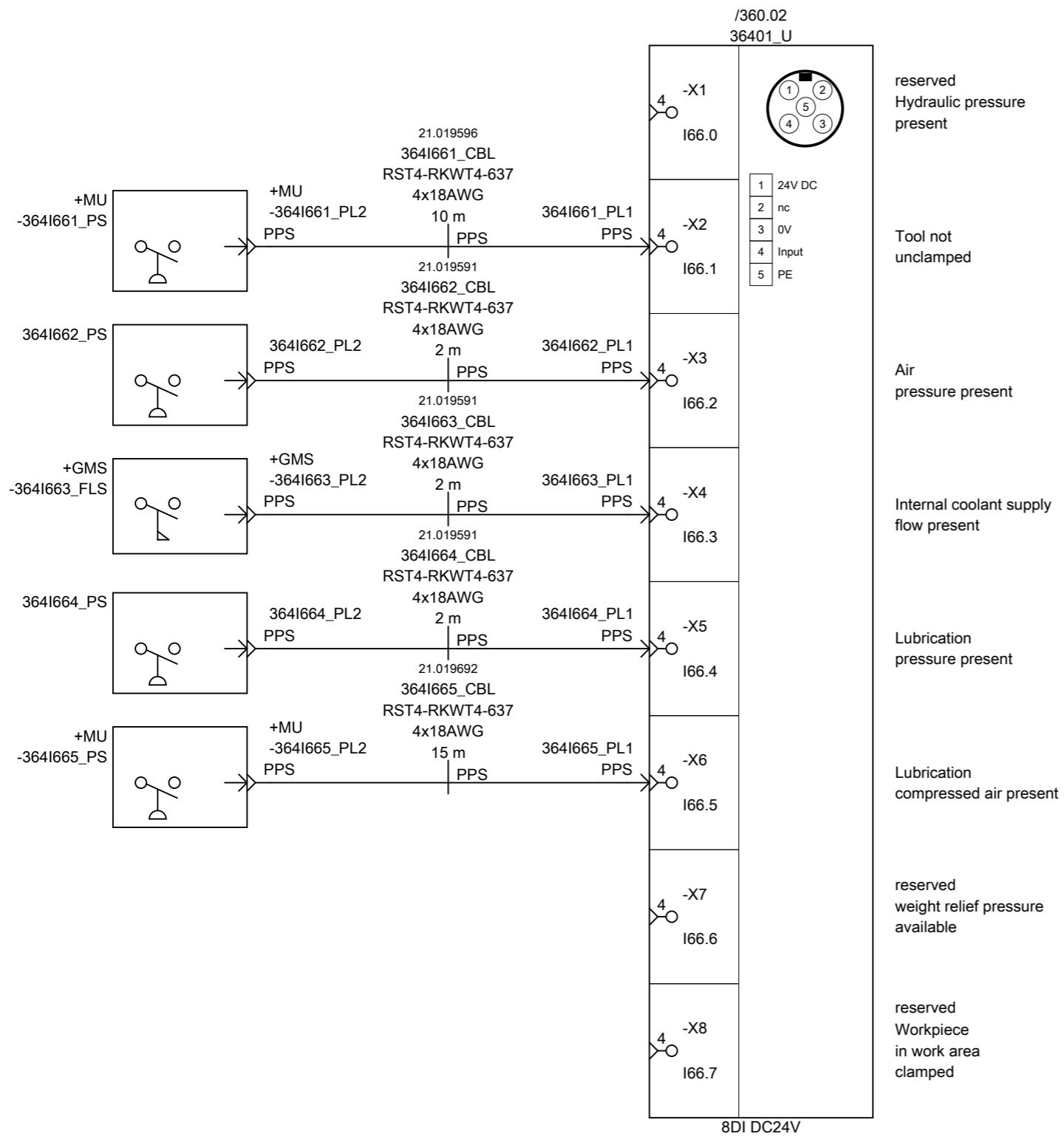


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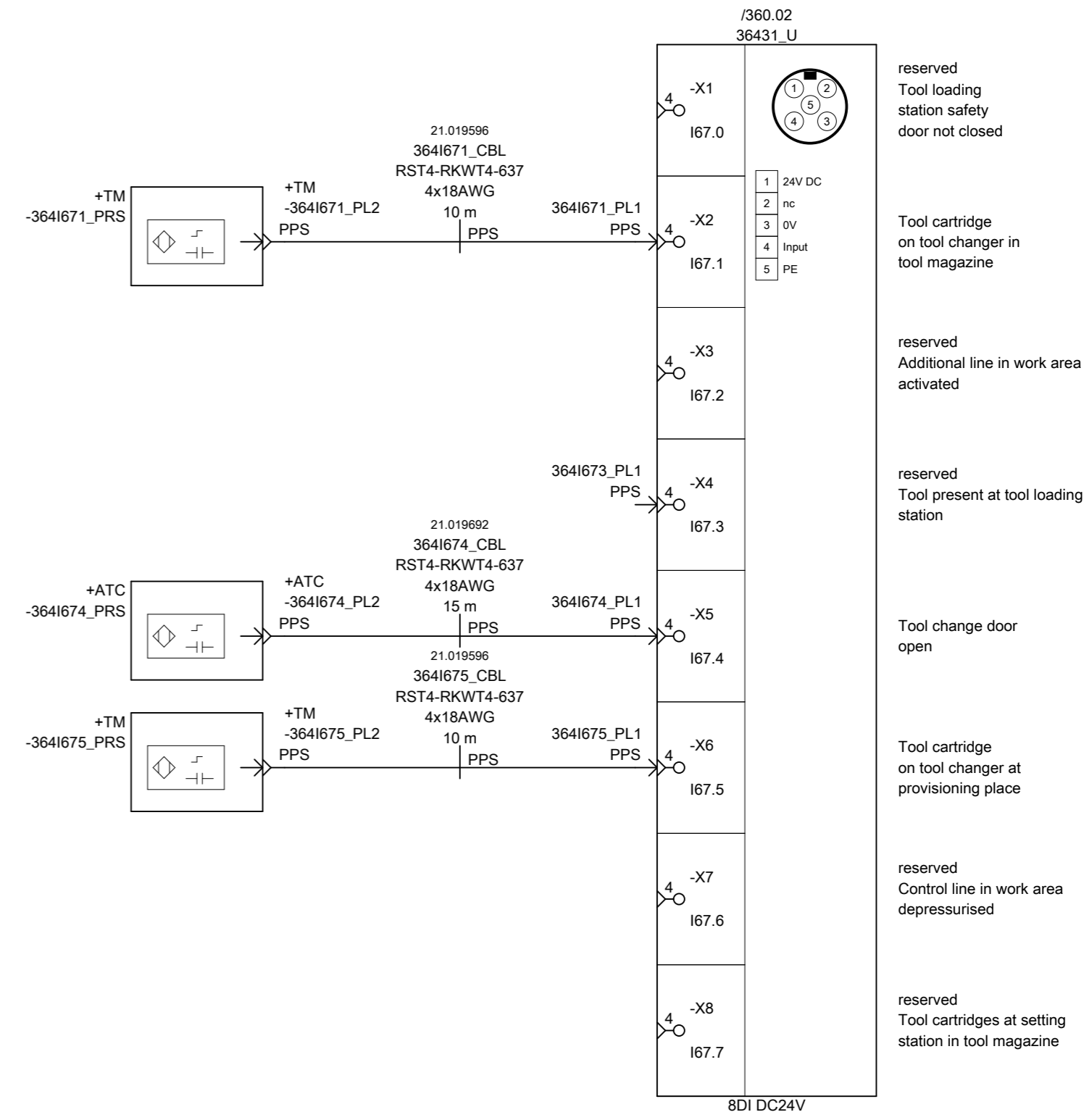


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	21.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I64.0 - I64.7 I65.0 - I65.7				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 363	
=54800				Page 362	

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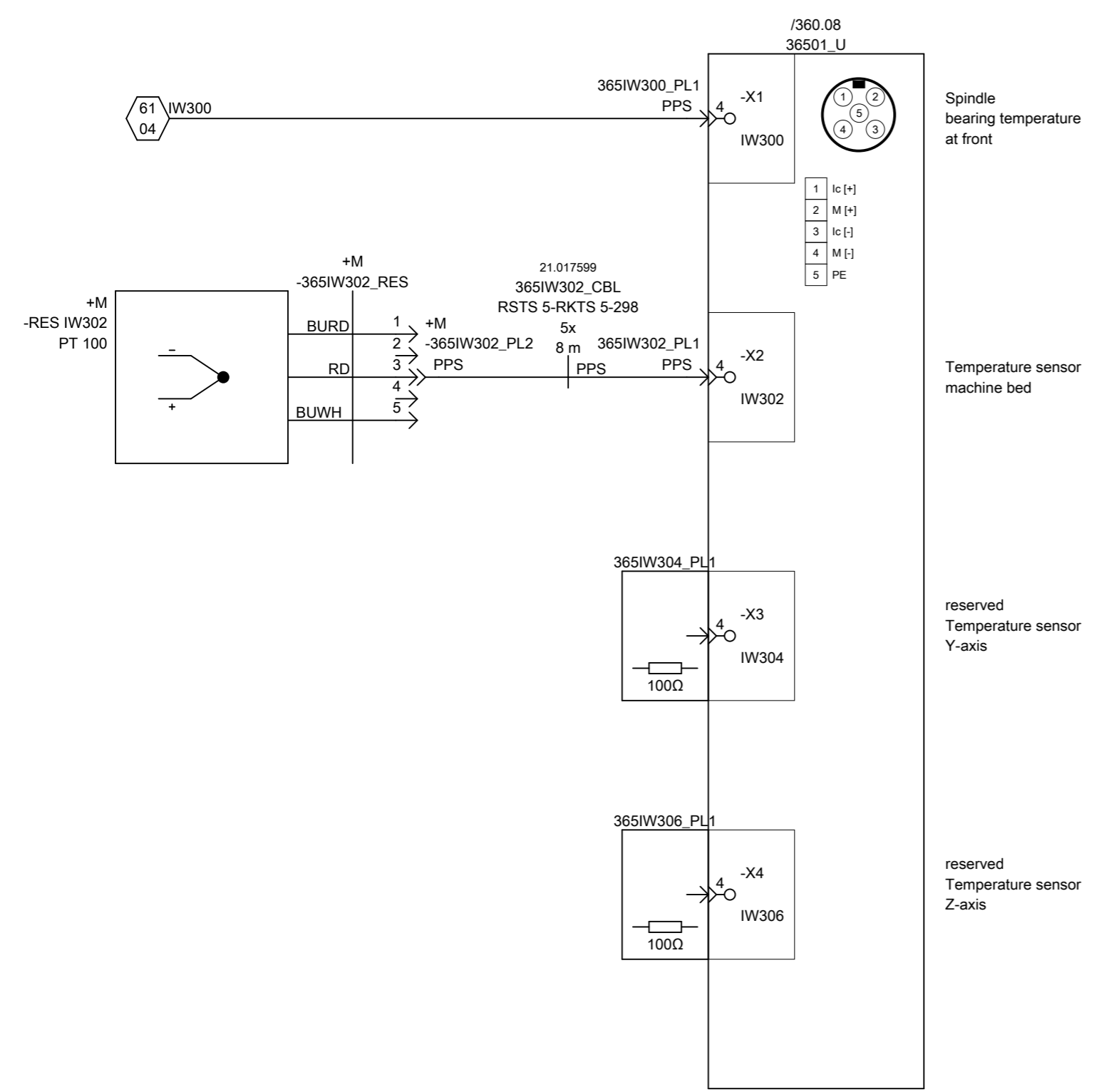


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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	15.11.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
166.0 - 166.7 167.0 - 167.7				Inv.No.	
ePLAN P8 2.2.5				=54800	
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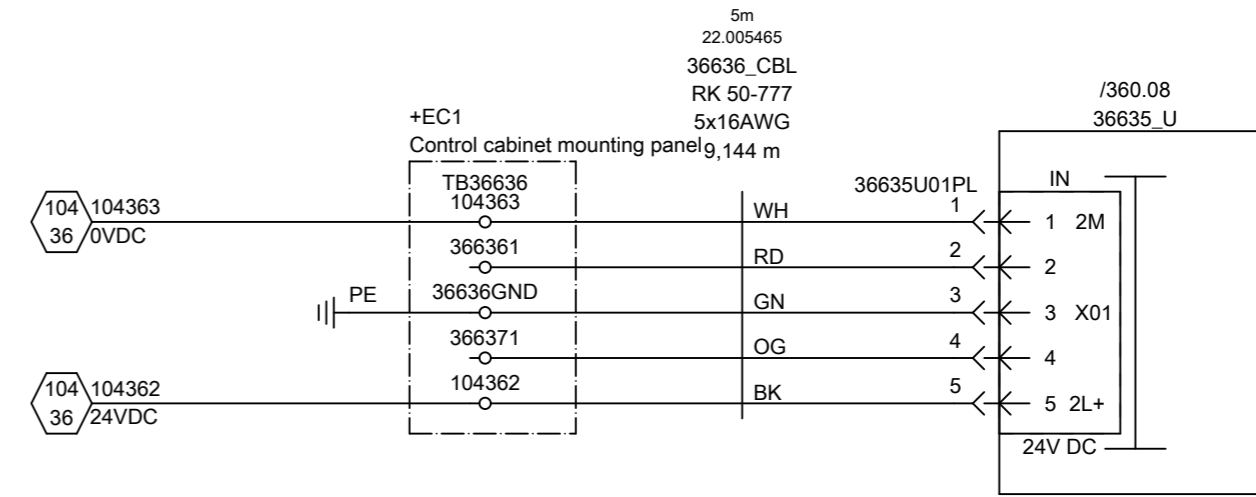
Reserve
I/Q69.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
IW300 - IW306 I/Q69.0 -I/Q69.7				Inv.No.	
ePLAN P8 2.2.5				=54800	
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Reserve
I/Q70.x



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	03.06.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I/Q70.x				Inv.No.	
ePLAN P8 2.2.5				Number of pages 275 Pages 366	
=54800				Page 365 Page 367	

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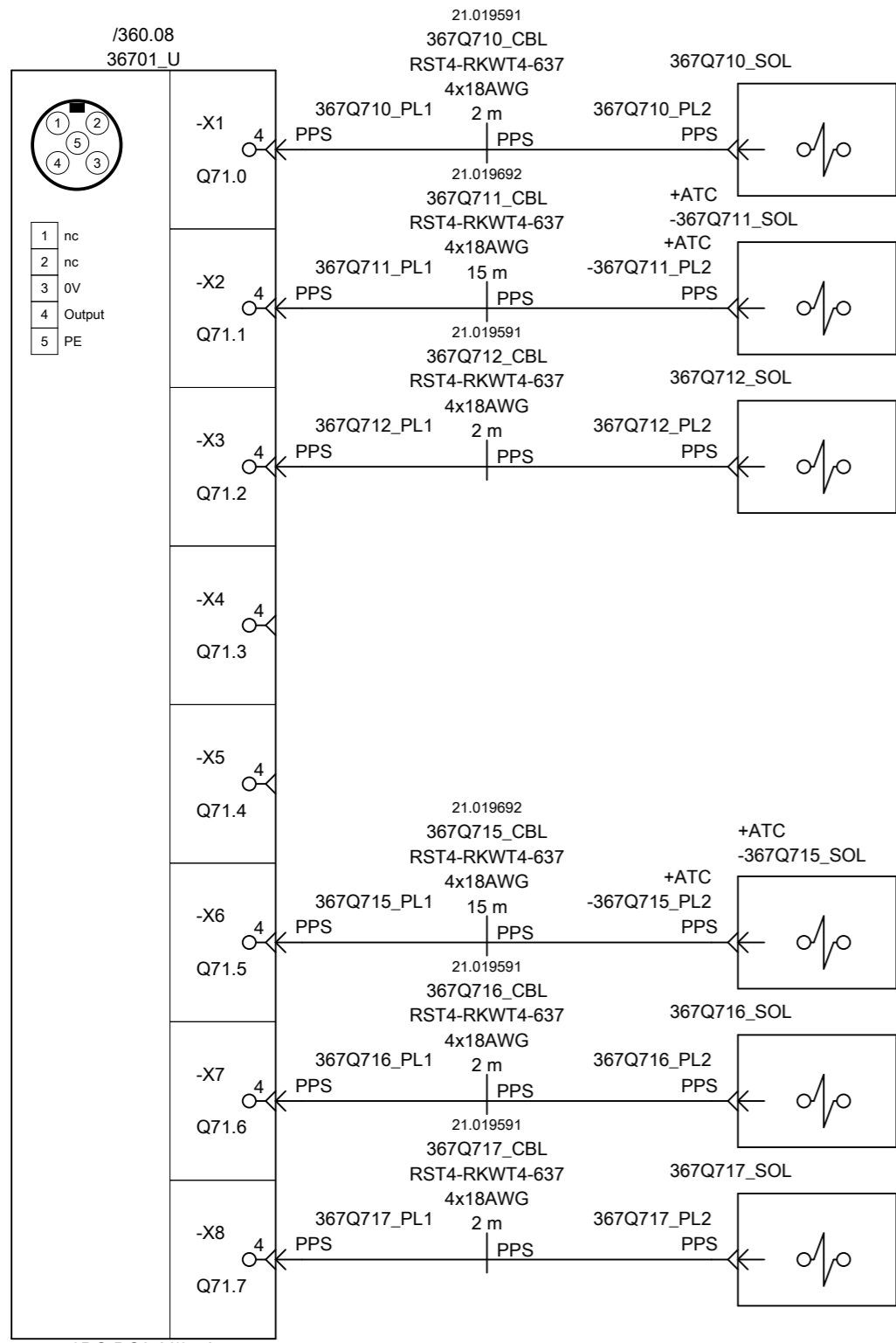
367 16

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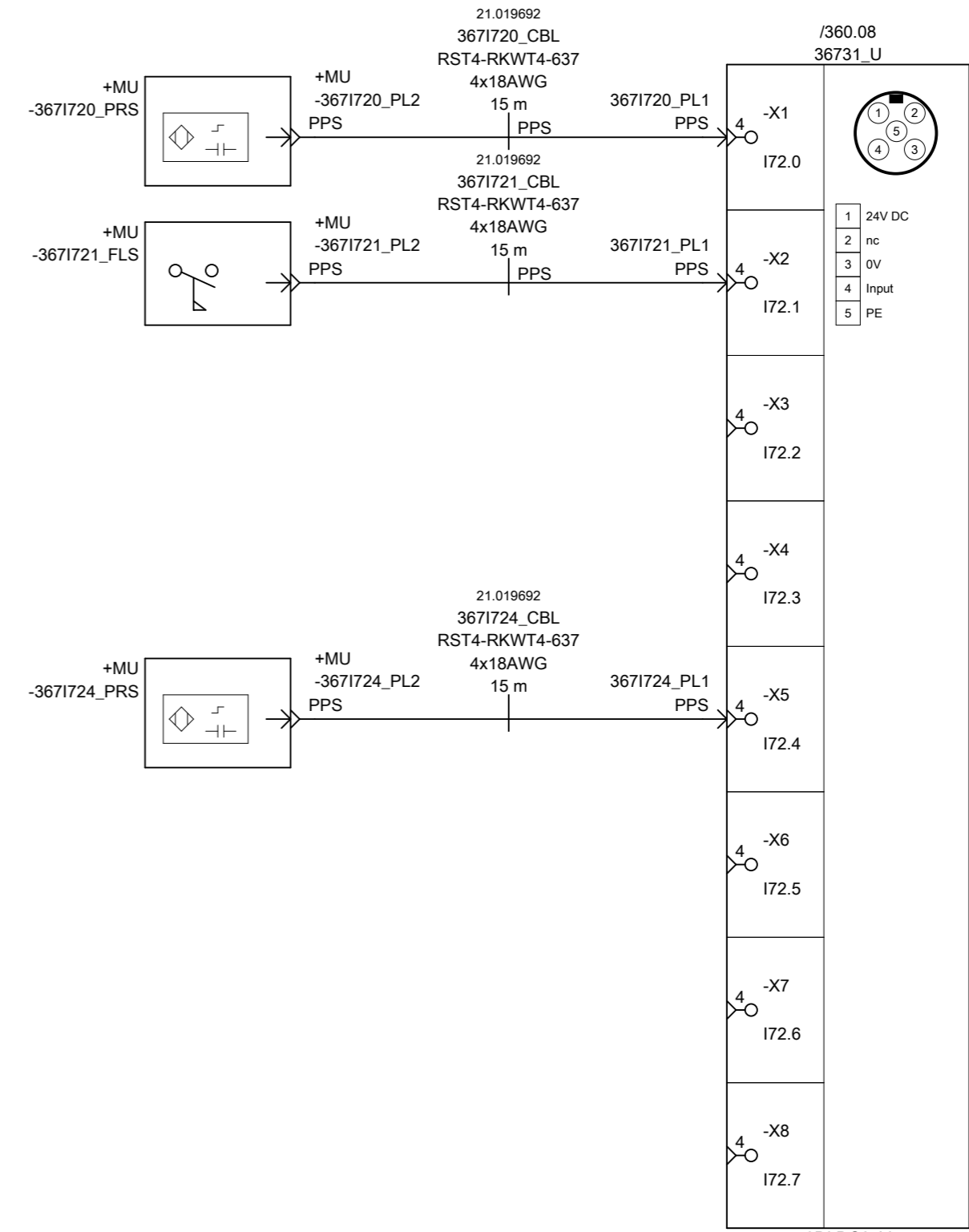
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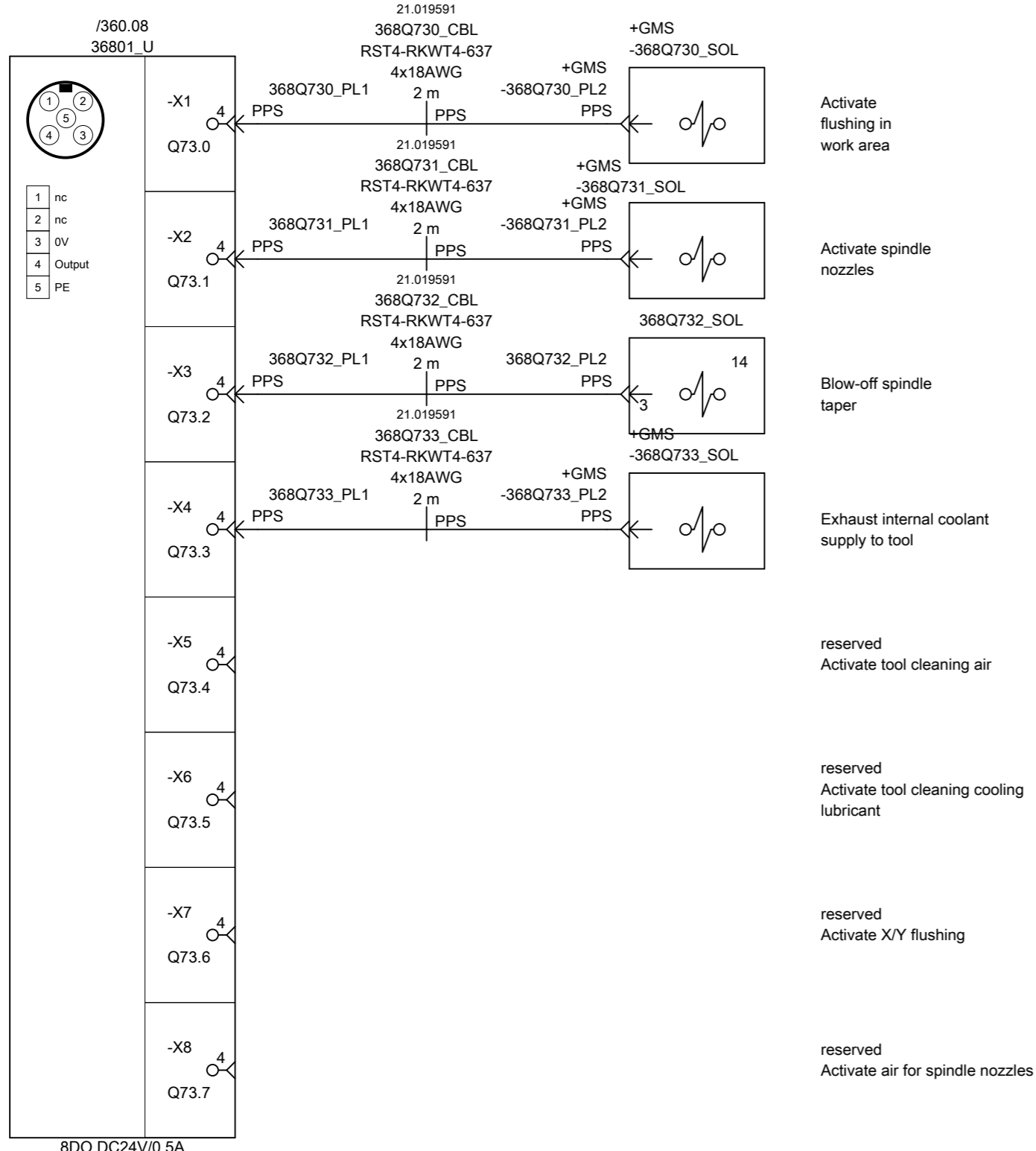
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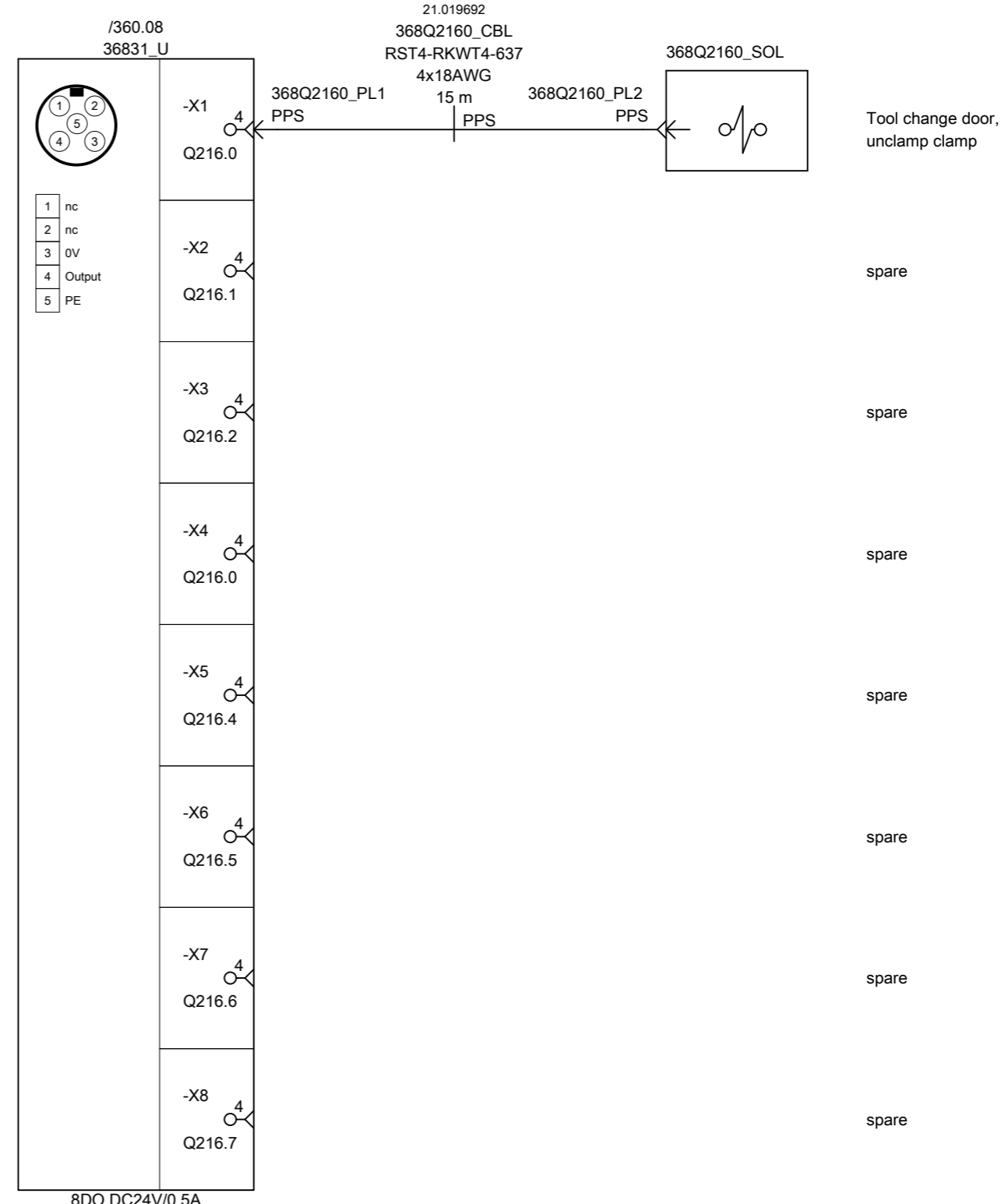
- PC gear unit to step 1
- Lubrication gear unit flow present
- reserved
Handheld operating unit connected to rack-type tool magazine
- reserved
Facing slide coupled
- PC gear unit to step 2
- reserved
Lubrication HPC-gear unit flow present
- reserved
Leakage OK
- reserved
Facing slide uncoupled

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	19.10.2016	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				=54800	Number of pages 275	Pages 367

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
Q73.0 - Q73.7 Q74.0 - Q74.7				Inv.No.		
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Tool identification
Brand: Siemens

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Reserve
IW120 - IW123

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Tool identification
Brand: Siemens

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Reserve
QW120 - QW123

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve IW120 - IW123 QW120 - QW123					
ePLAN P8 2.2.5				=54800	
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Reserve
I/Q216.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
Reserve Q216.0 - Q216.7				Number of pages 275 Pages 370	
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Reserve
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	15.09.2015	AHP3/GMI		Inv.No.	
Reserve page 371-376				Number of pages 275 Pages 371	
ePLAN P8 2.2.5		=54800		370	Page 377

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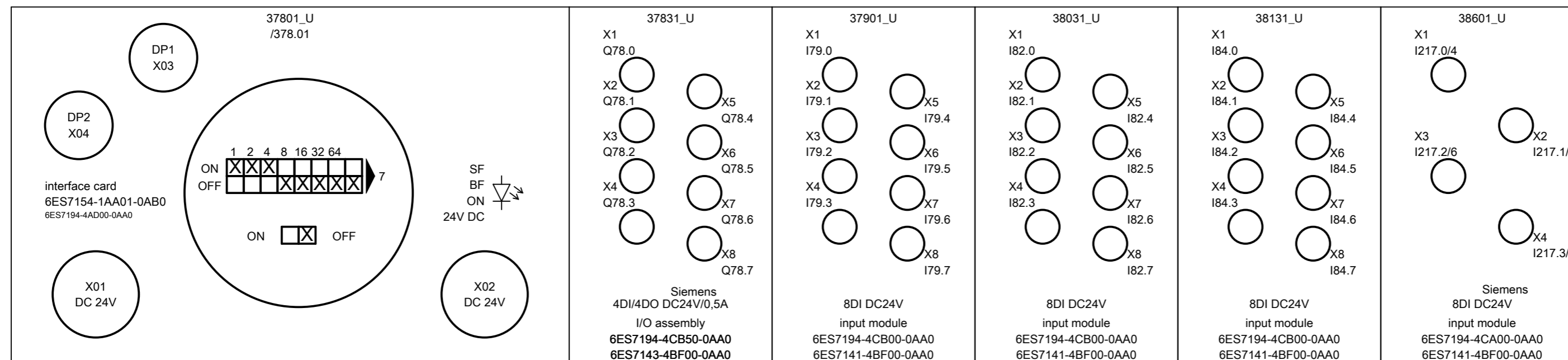
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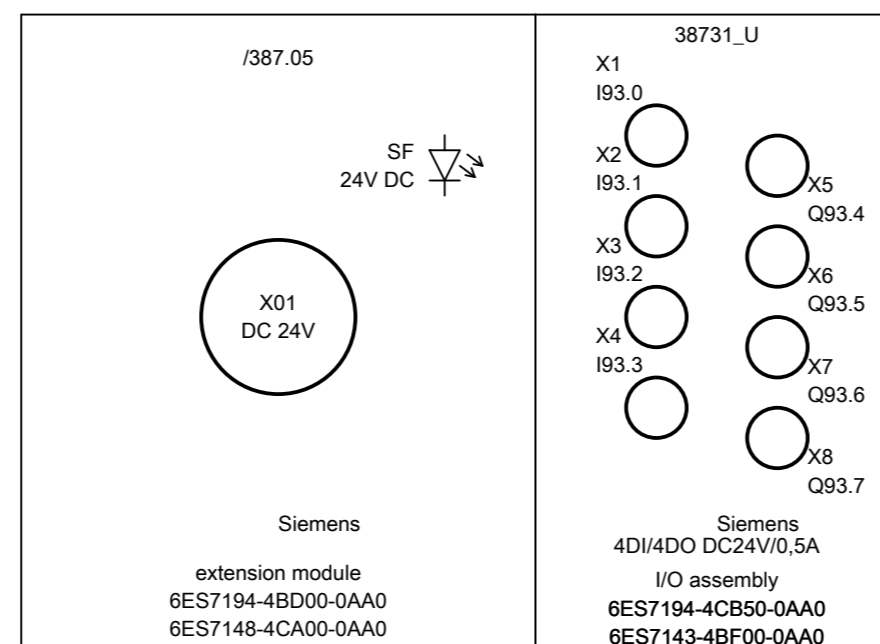
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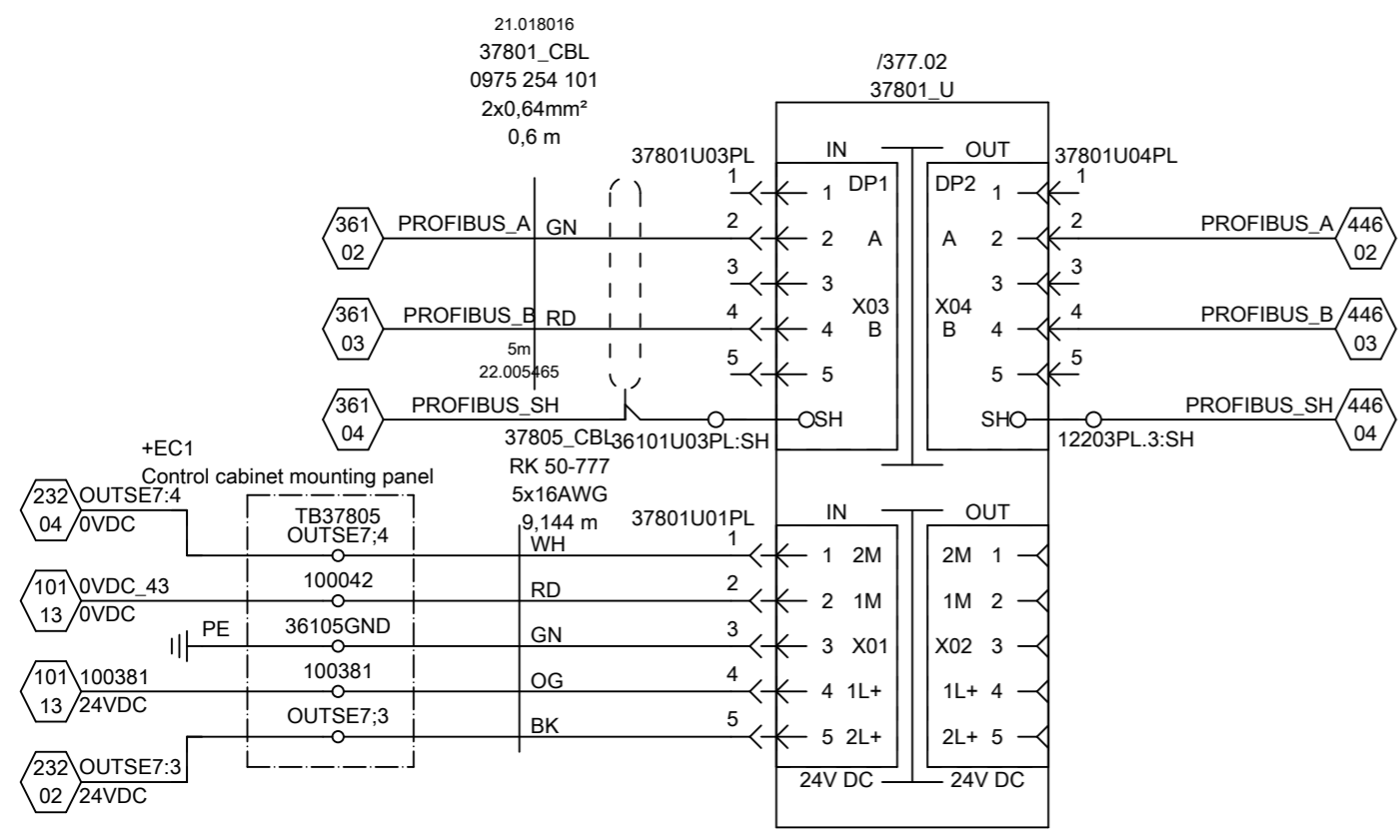
Operating precondition tool setting station, switch-off



Safety door loading (TOP LOADER) switch-off

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Overview of inputs/outputs, HELP 1/2				Inv.No.	
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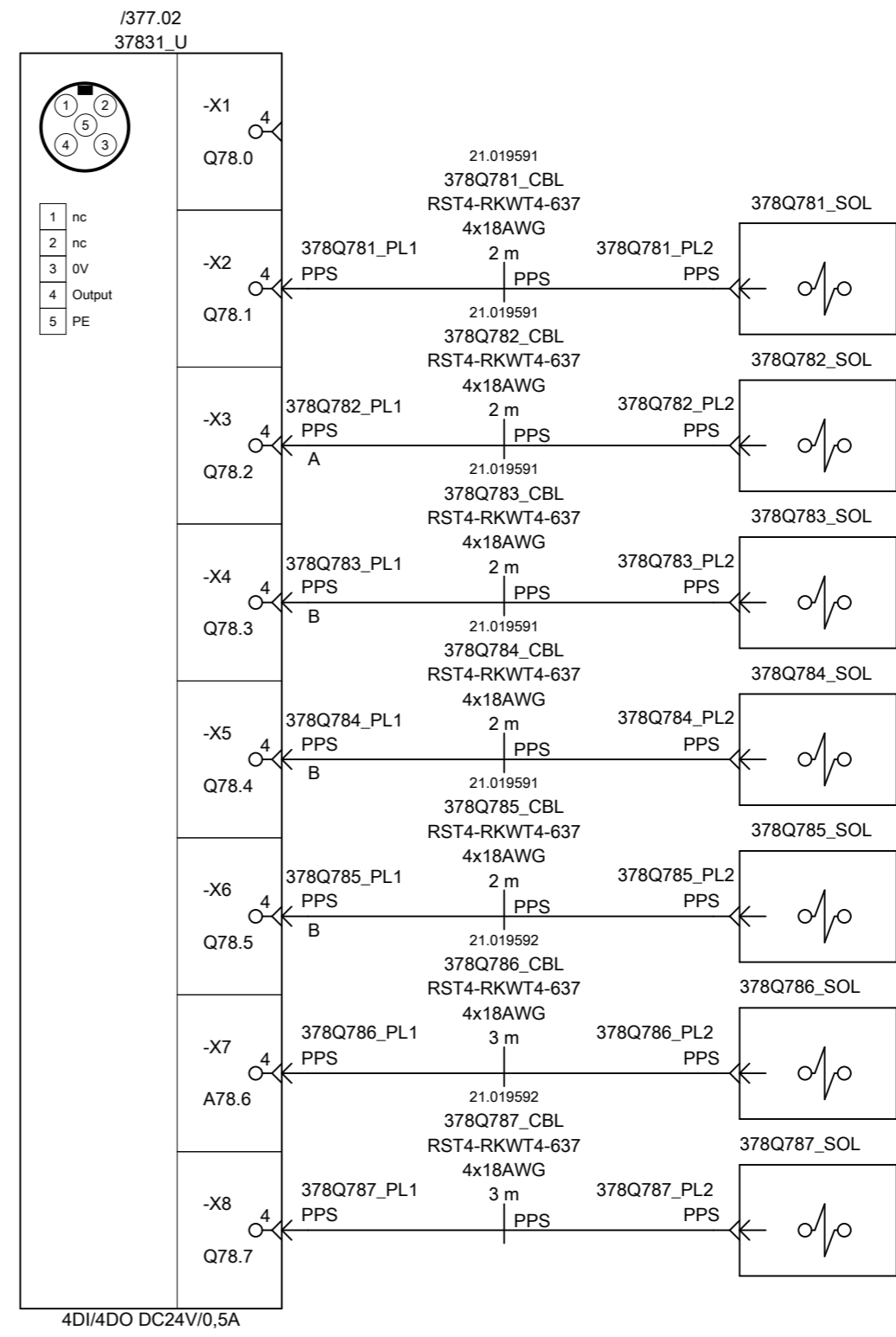
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Attention
Voltage also present
when main switch
is turned off

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----- HZPR -----



spare

Tool loading
station/tool magazine safety
door release clamping

Swivel back tool aligning
attachment

Align tool holder

Close tool setting station/tool
magazine safety door

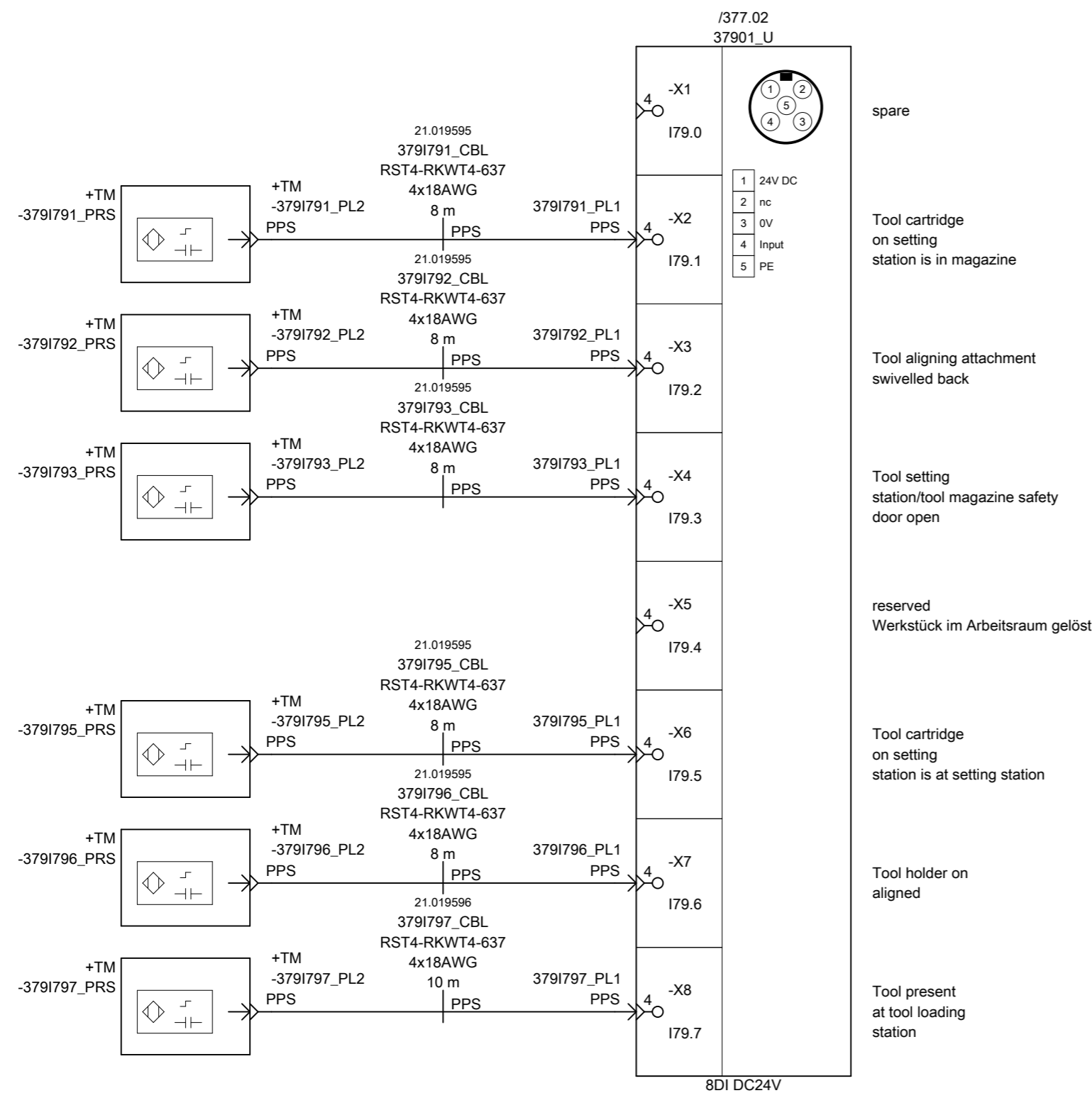
Open tool setting station/tool
magazine safety door

Tool cartridge
on setting
station to tool magazine

Tool cartridge
on setting
station to setting station

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve Q78.0 - Q78.7				Inv.No.	
ePLAN P8 2.2.5				=54800	
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HZPR



spare

Tool cartridge on setting station is in magazine

Tool aligning attachment swivelled back

Tool setting station/tool magazine safety door open

reserved Werkstück im Arbeitsraum gelöst

Tool cartridge on setting station is at setting station

Tool holder on aligned

Tool present at tool loading station

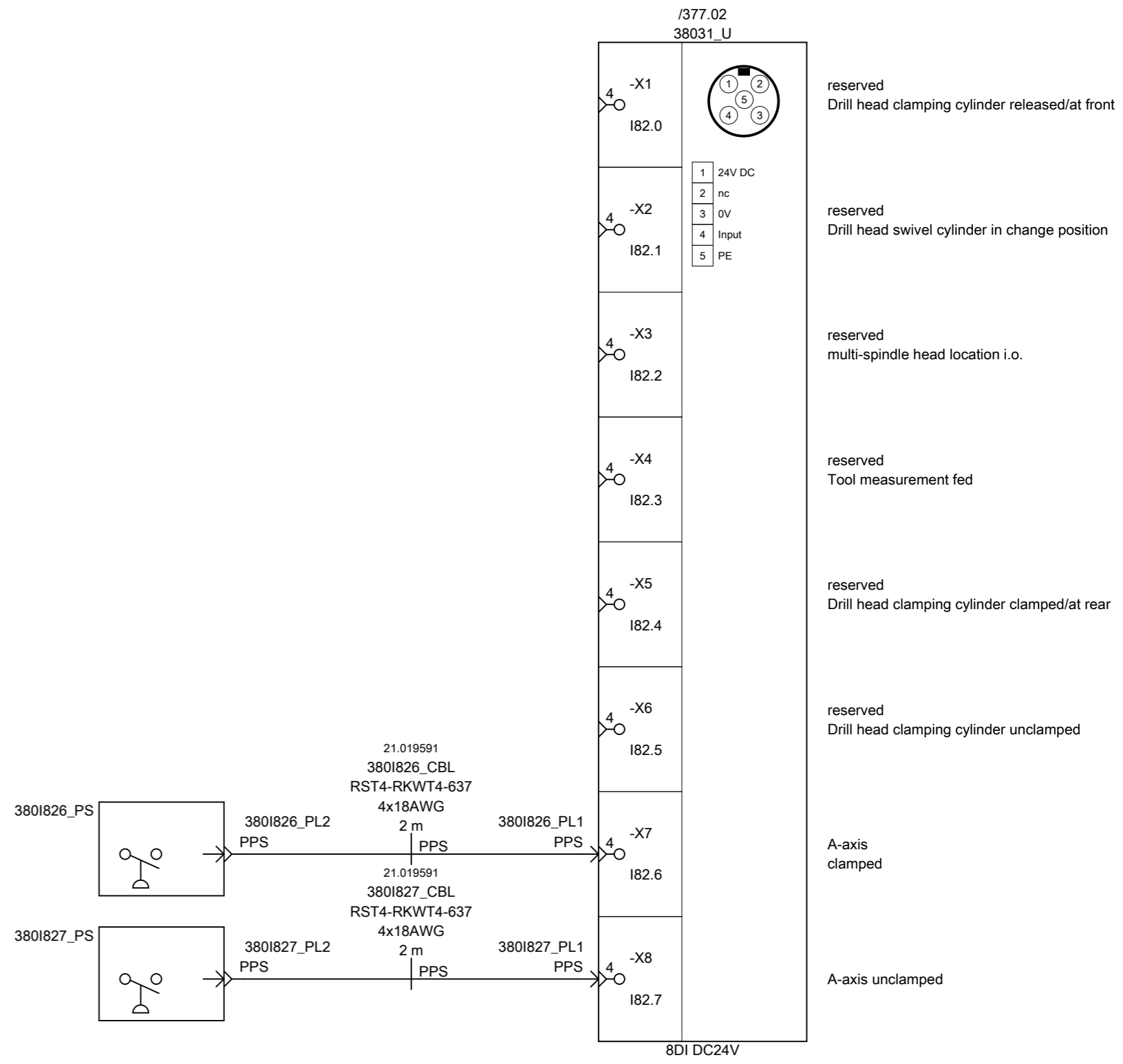
Reserve
I/Q80.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I79.0 - I79.7 I/Q80.0 - I/Q80.7				Inv.No.	
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----- MSK -----
Reserve
Q81.x

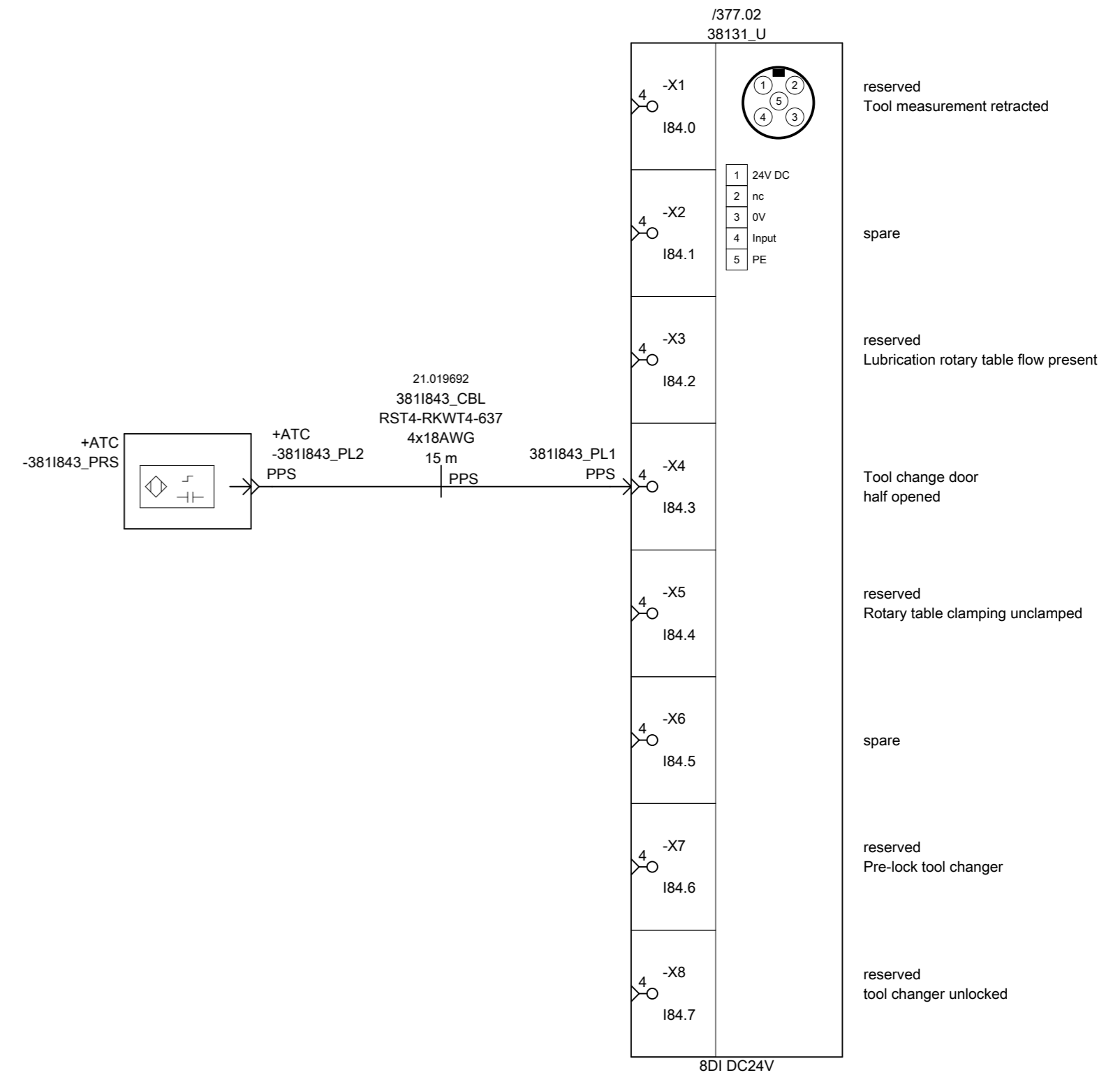


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I/Q81.0 - I/Q81.7 I/Q82.0 - I/Q82.7				Inv.No.	
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Reserve
I/Q83.x



Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
CHANGE	12.10.2016	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				=54800		Number of pages 275 Pages 381	
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Reserve
I/Q85.x

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Reserve
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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Reserve
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Reserve
I/Q88.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
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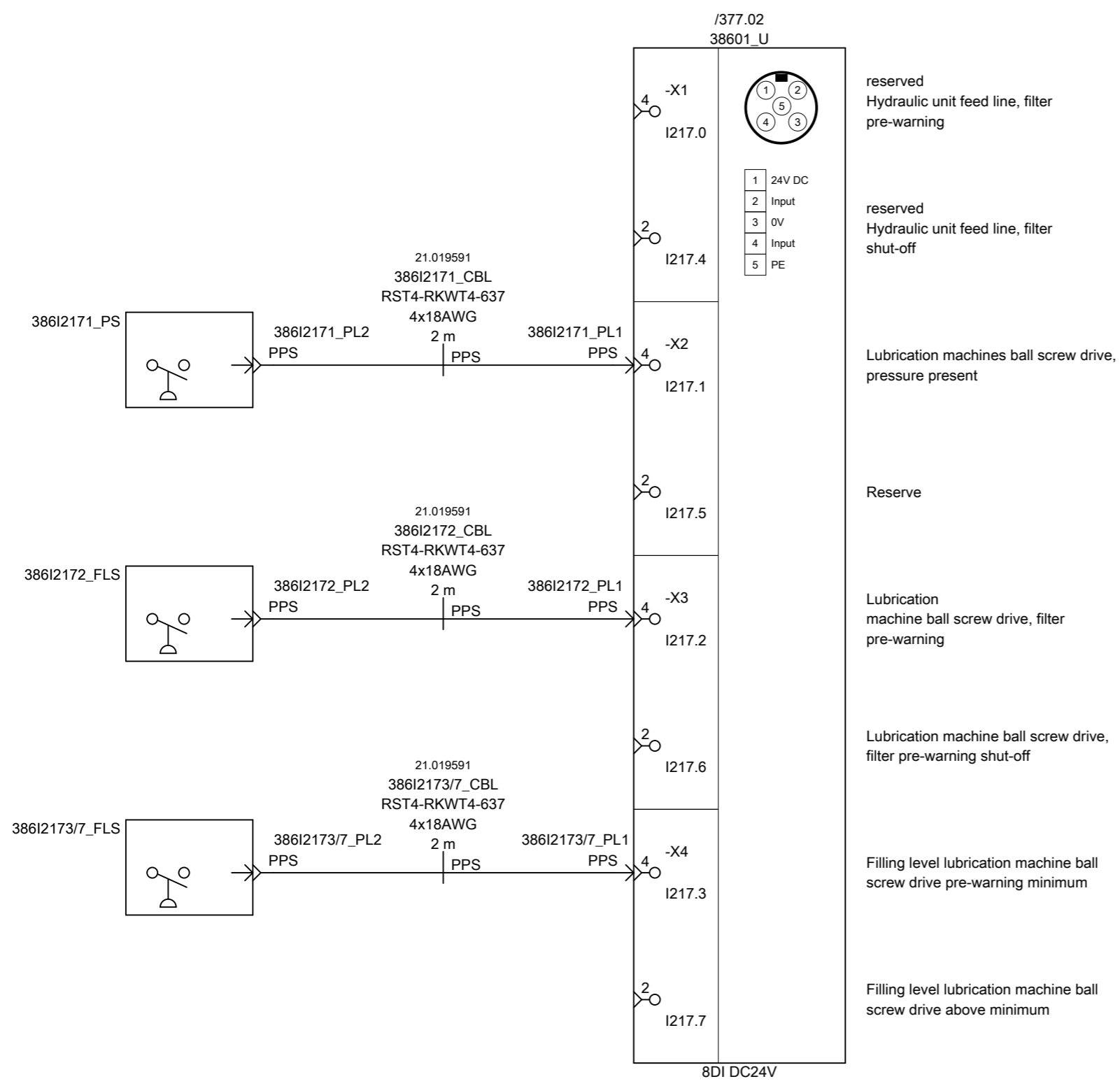
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Reserve
Q90.0 - 7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	15.09.2015	AHP3/GMI		Inv.No.	
I/Q89.0 - I/Q89.7 Q90.0 - Q90.7				Number of pages 275 Pages 385	
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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

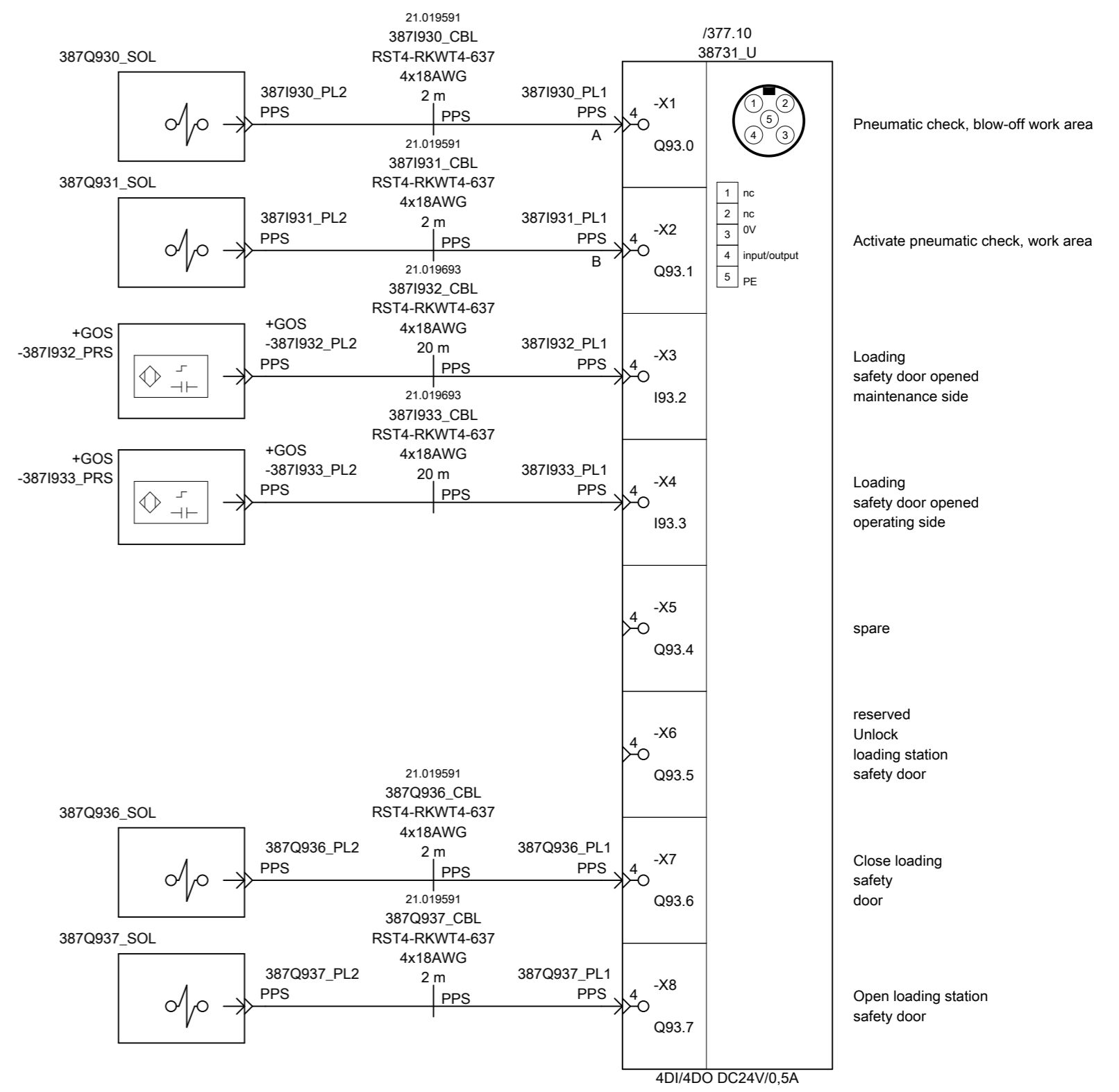
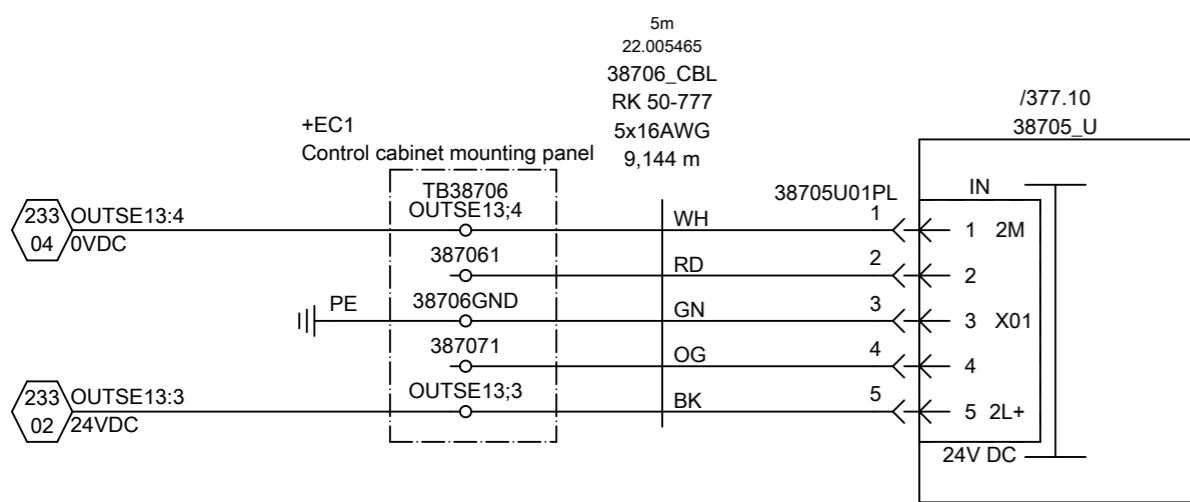
Filling level lubrication machine ball
screw drive pre-warning minimum

Filling level lubrication machine ball
screw drive above minimum

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	15.07.2015	AHP3/EWD			
I217.0 - I217.7 I218.0 - I218.7				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
I/Q90.0 - I/Q90.7				Inv.No.	
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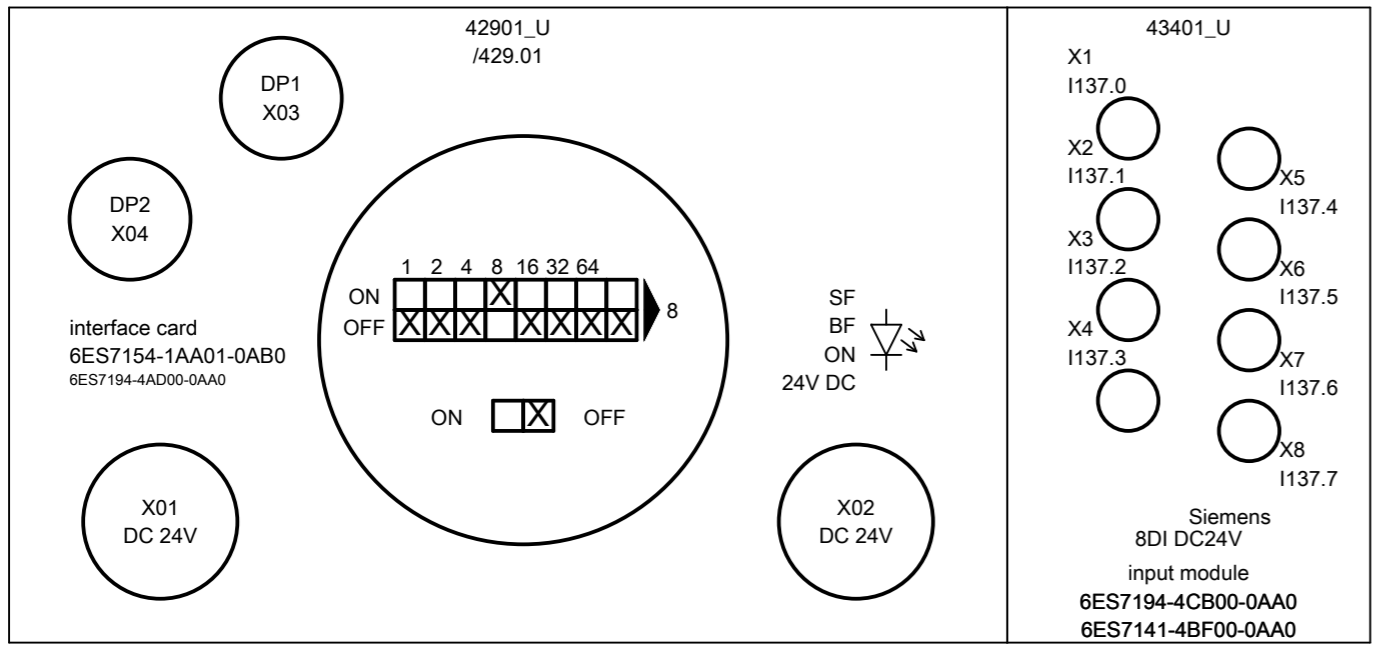
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Reserve
page 388-427

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	16.07.2015	AHP3/EWD			
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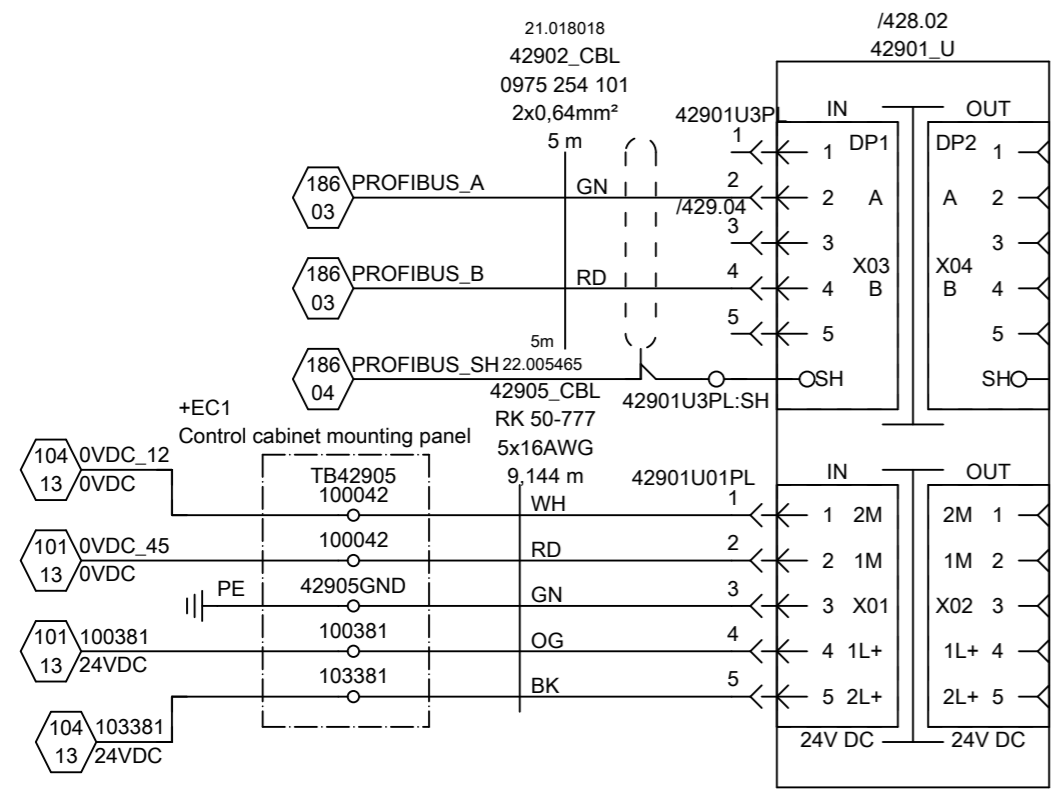
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unswitched

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	12.04.2016	AHP1/HAS			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Overview of inputs/outputs, HELP 2					
Number of pages			275	Page	428
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I/Q129.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Reserve I/Q129.0 - I/Q129.7				Inv.No.	
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Reserve
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Reserve
I/Q131.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve I/Q131.0 - I/Q131.7				Number of pages 275 Pages 430	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock			
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CHANGE	12.04.2016	AHP3/RIG	H 10000 MC				
DRAWN	26.05.2015	AHP3/GMI		Inv.No.			
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I/Q134.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807			
	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.			
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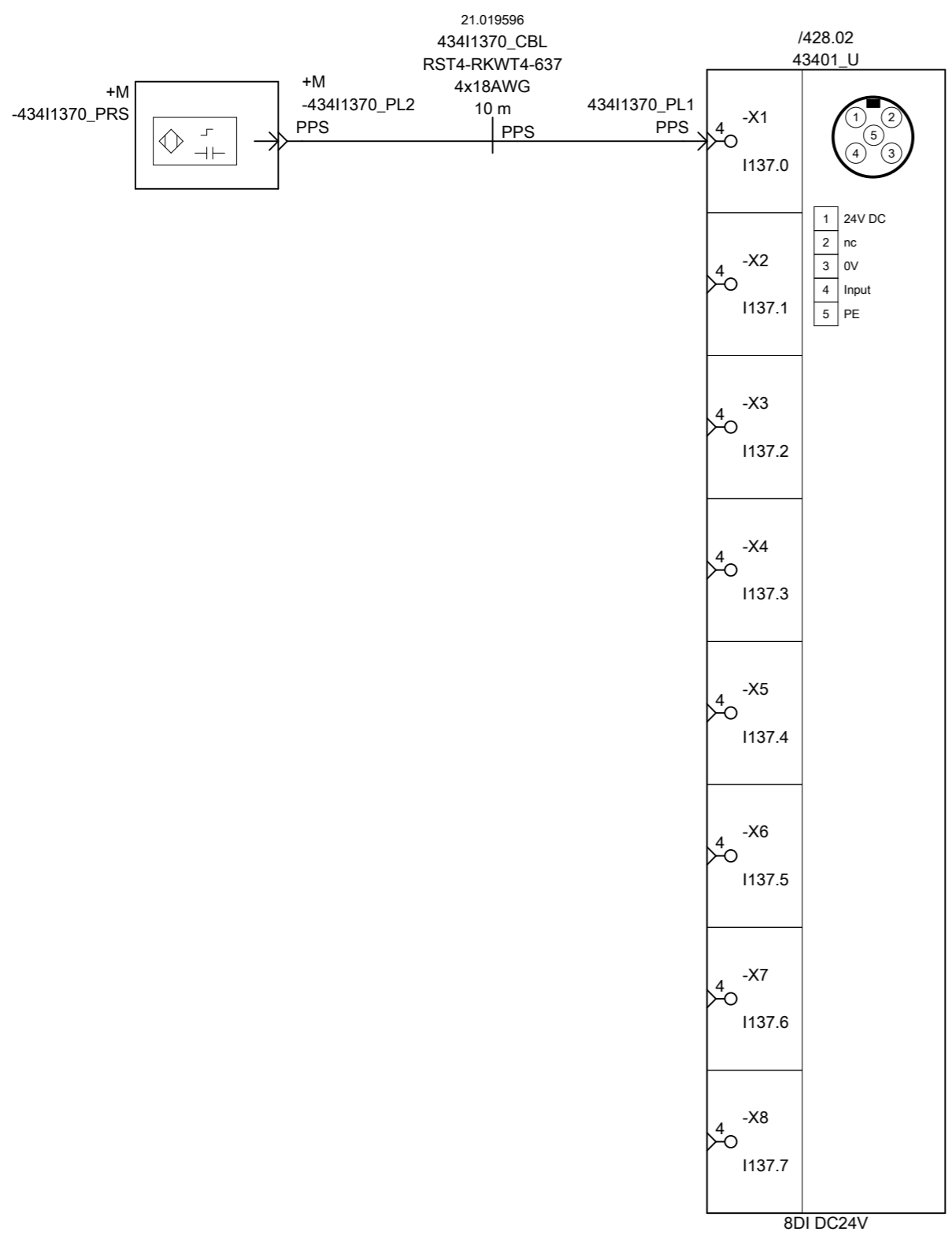
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve Q135.0 - Q135.7 Reserve I136.0 - I136.7				Number of pages 275 Pages 433	
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Spiral conveyor, operating side, function check

reserved
Workpiece loading station safety door operator side not closed

reserved
Spindle locked

reserved
Spindle bearing exhaust, low pressure existing

reserved
Spiral conveyor at maintenance side, function check

reserved
Pallet on rotary table clamped

reserved
Spindle unlocked

reserved
Pallet location at workpiece loading station OK

Reserve
I/Q138.x

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807		
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock		
CHANGE	17.10.2016	AHP1/HAS	H 10000 MC			
DRAWN	26.05.2015	AHP3/GMI				
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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-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type H 10000 MC	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Reserve QW324 - QW330 IW332 - IW338					
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Reserve
IW340 - IW346

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Reserve
IW348 - IW354

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
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Reserve
page 437 - 499

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	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.	
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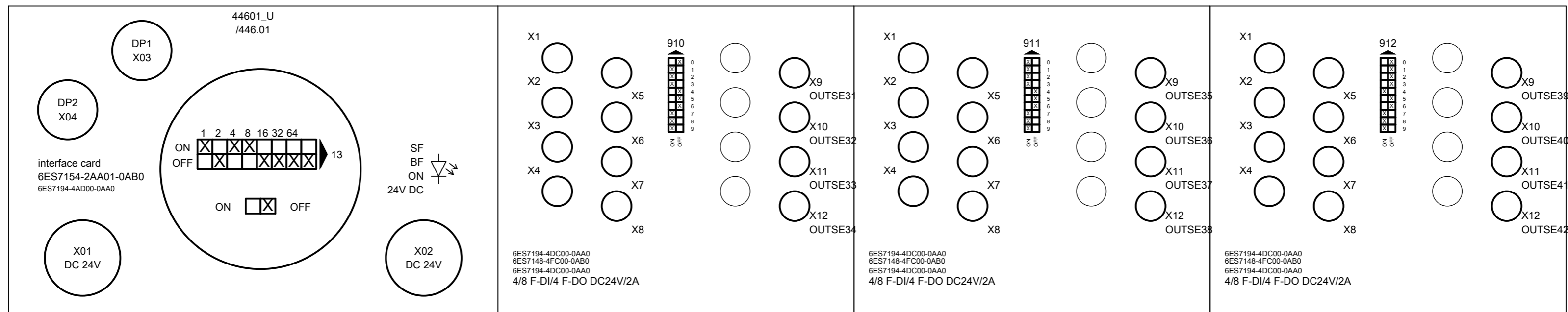
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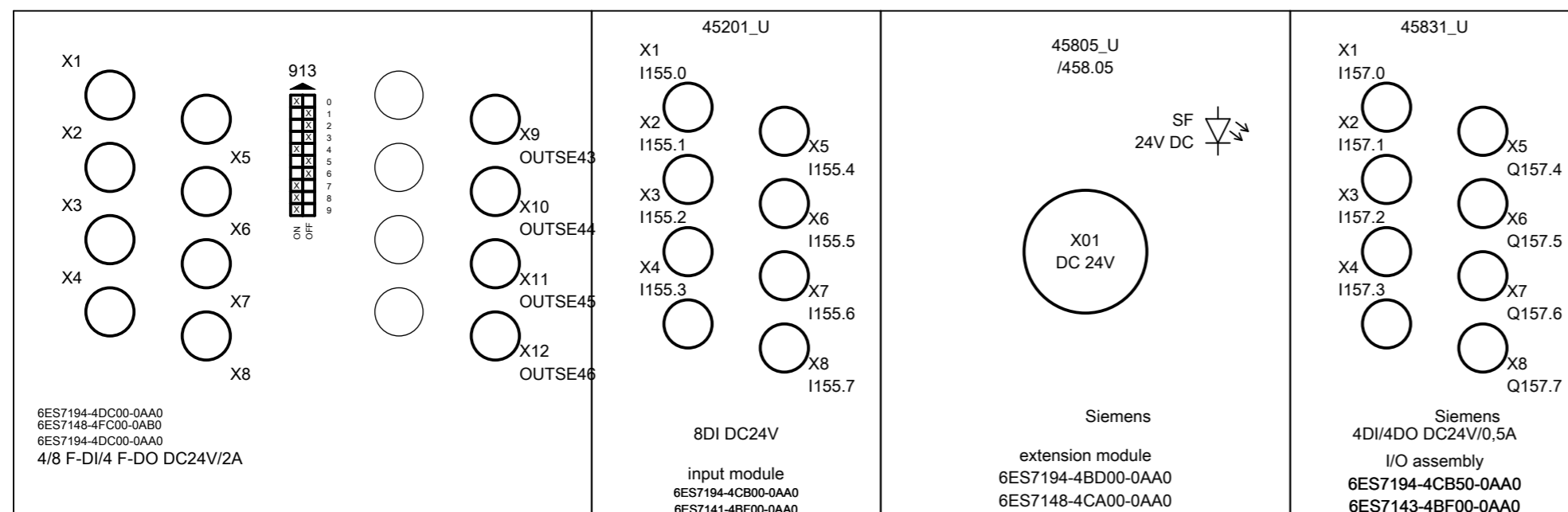
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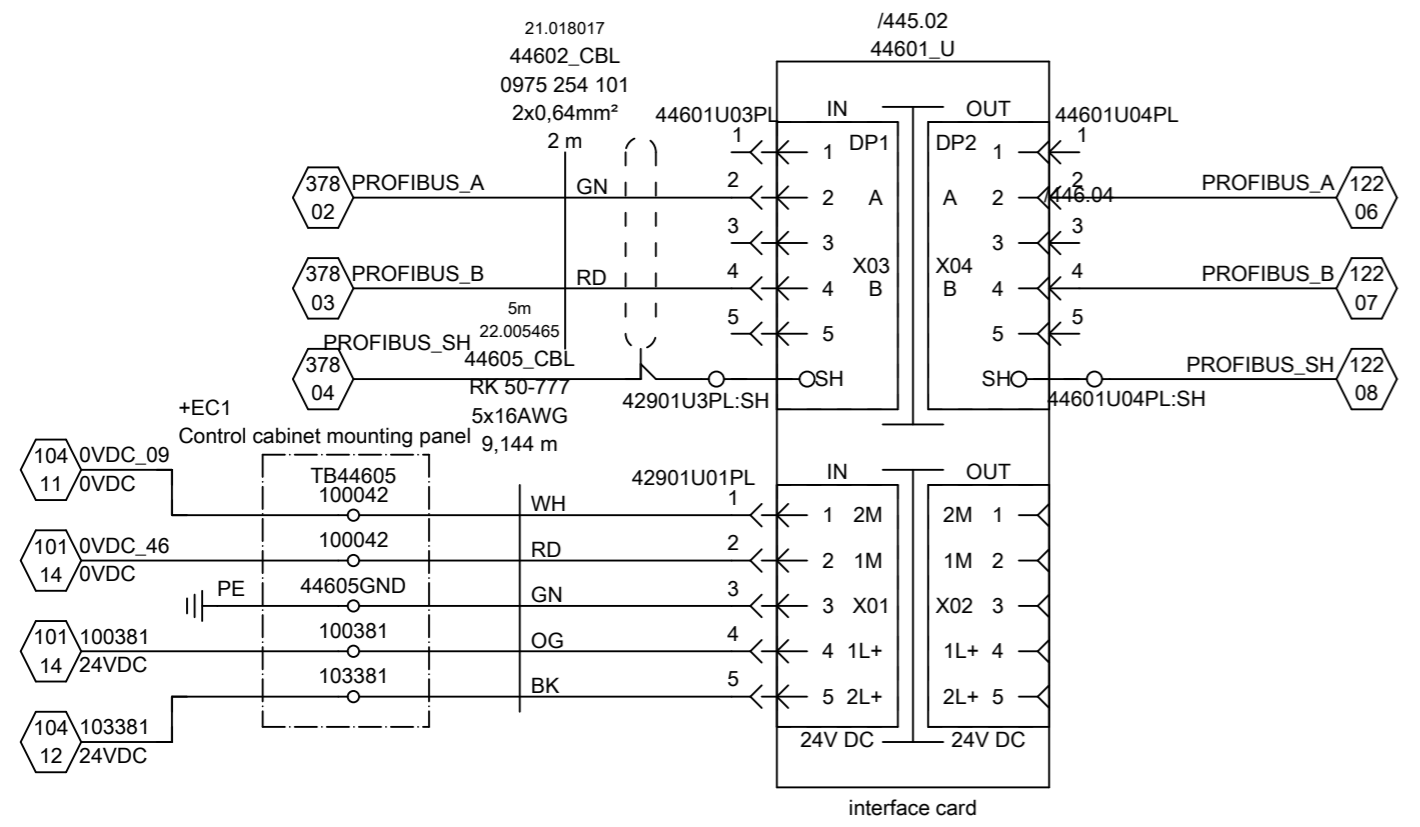


Operating precondition work area, switch-off

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP1/HAS	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
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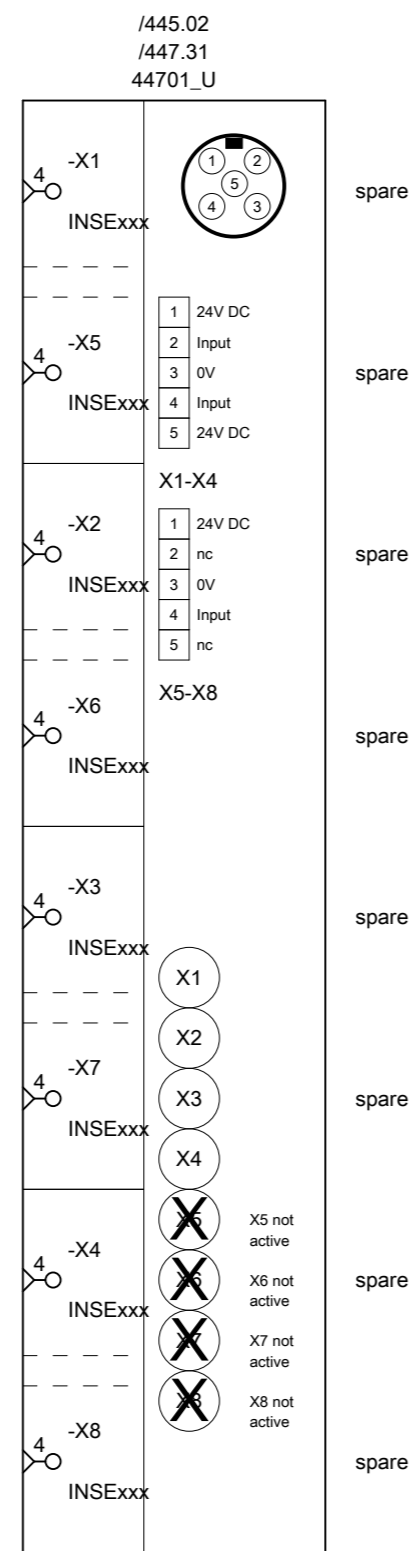
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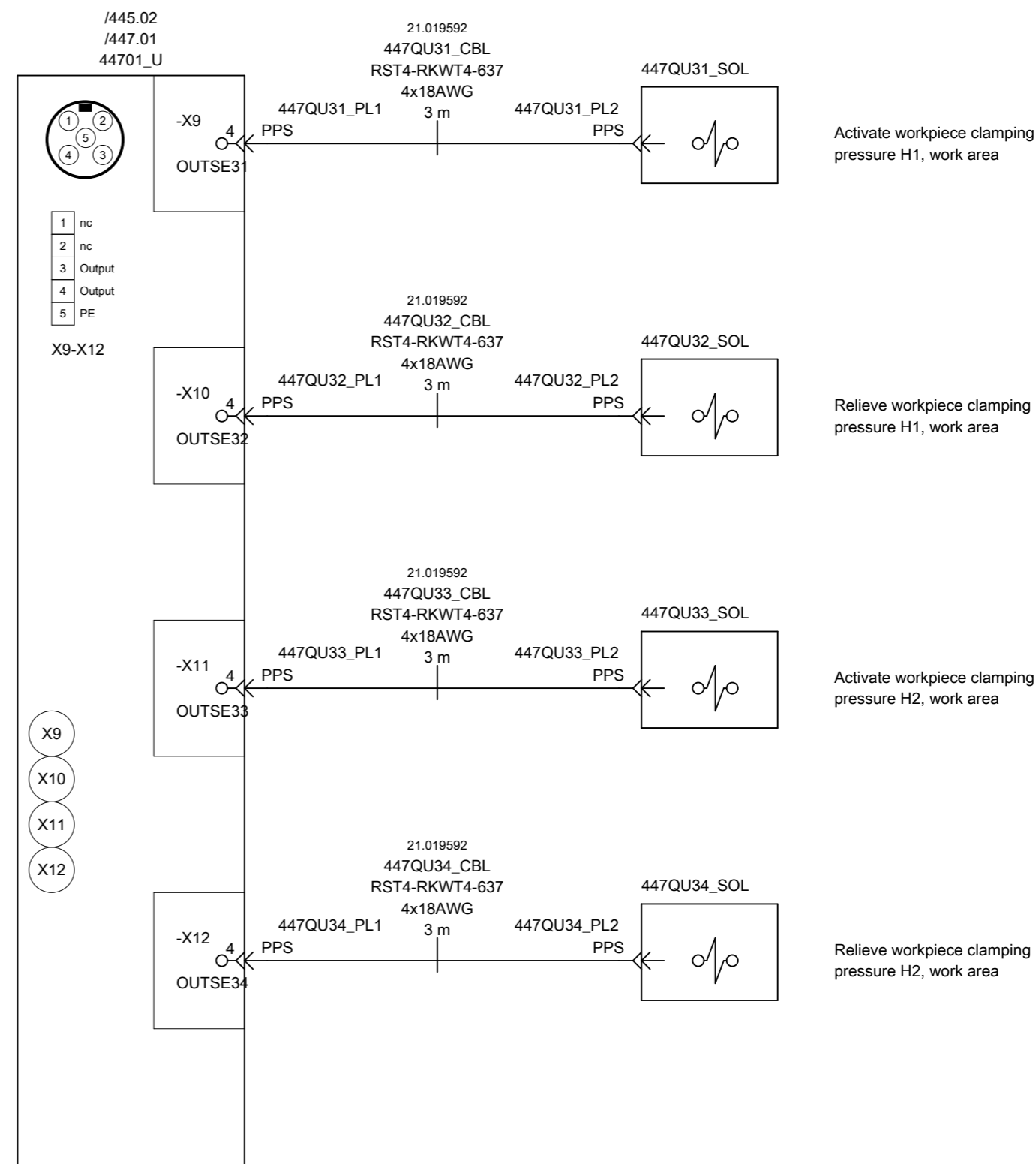


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CHANGE	17.10.2016	AHP1/HAS	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
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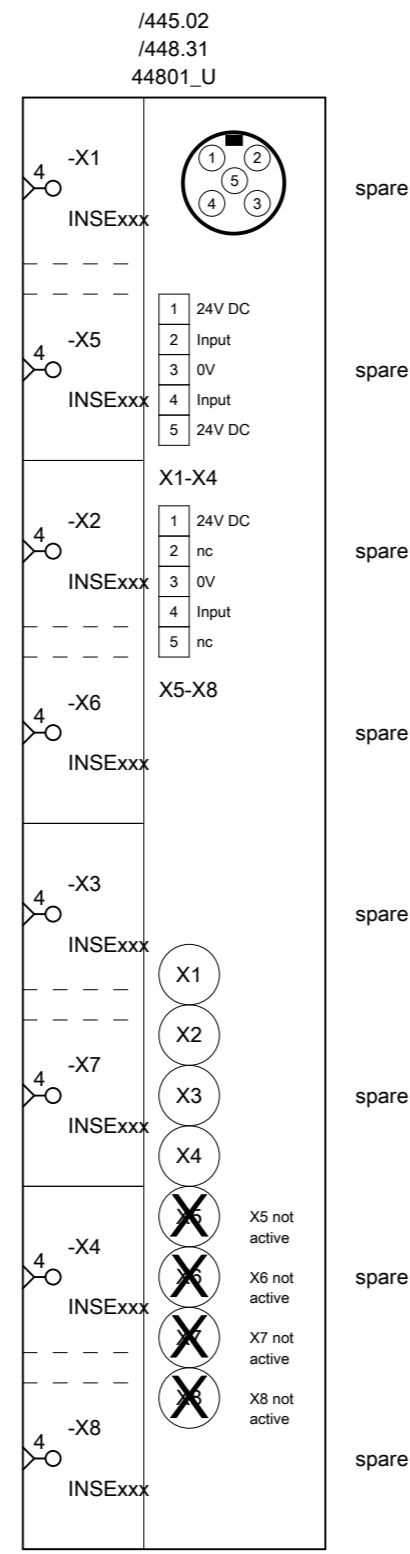


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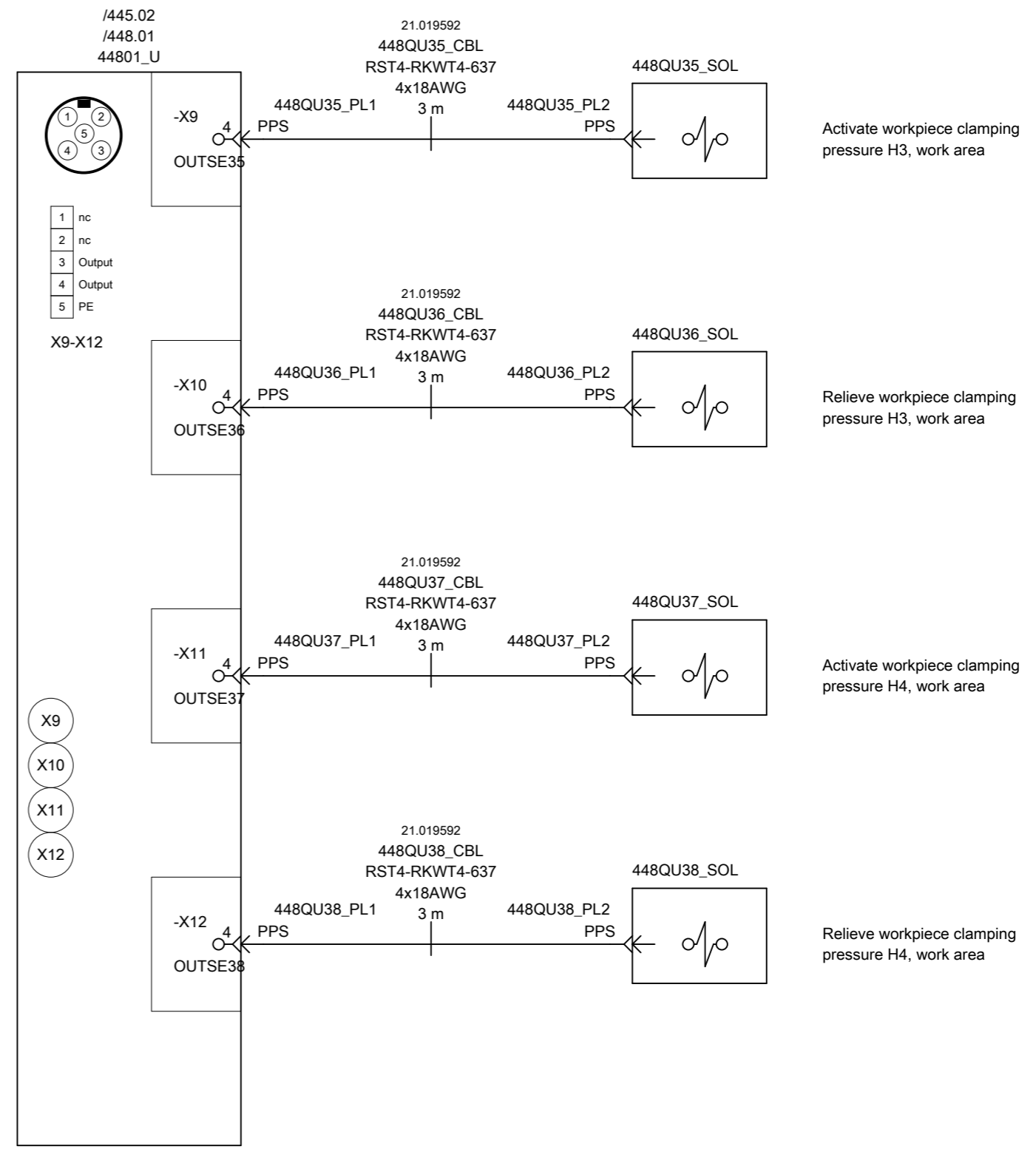


Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
INSExxx OUTSE31 - OUTSE34				Inv.No.	
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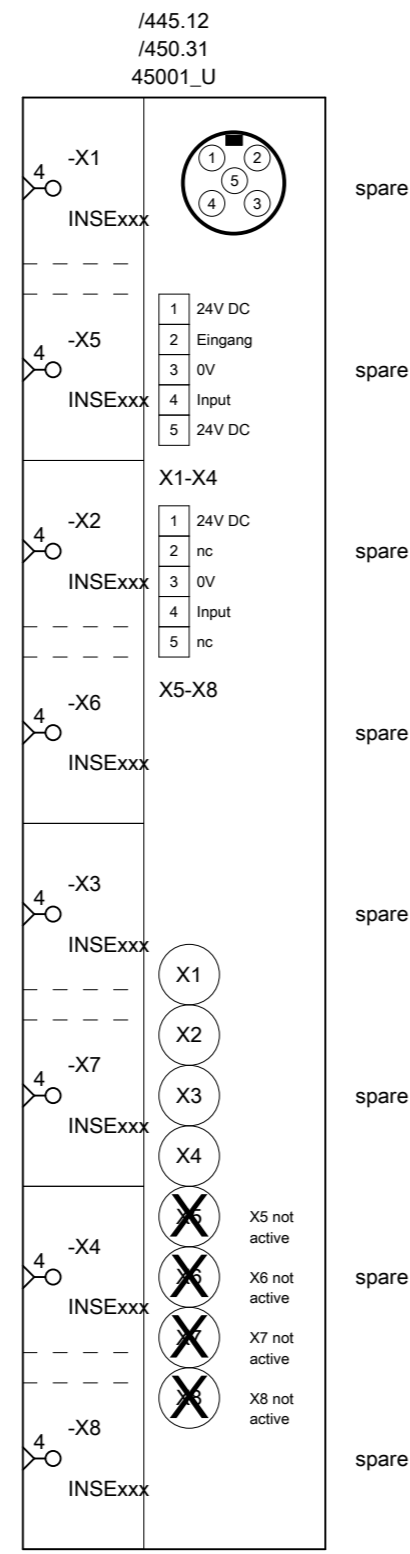


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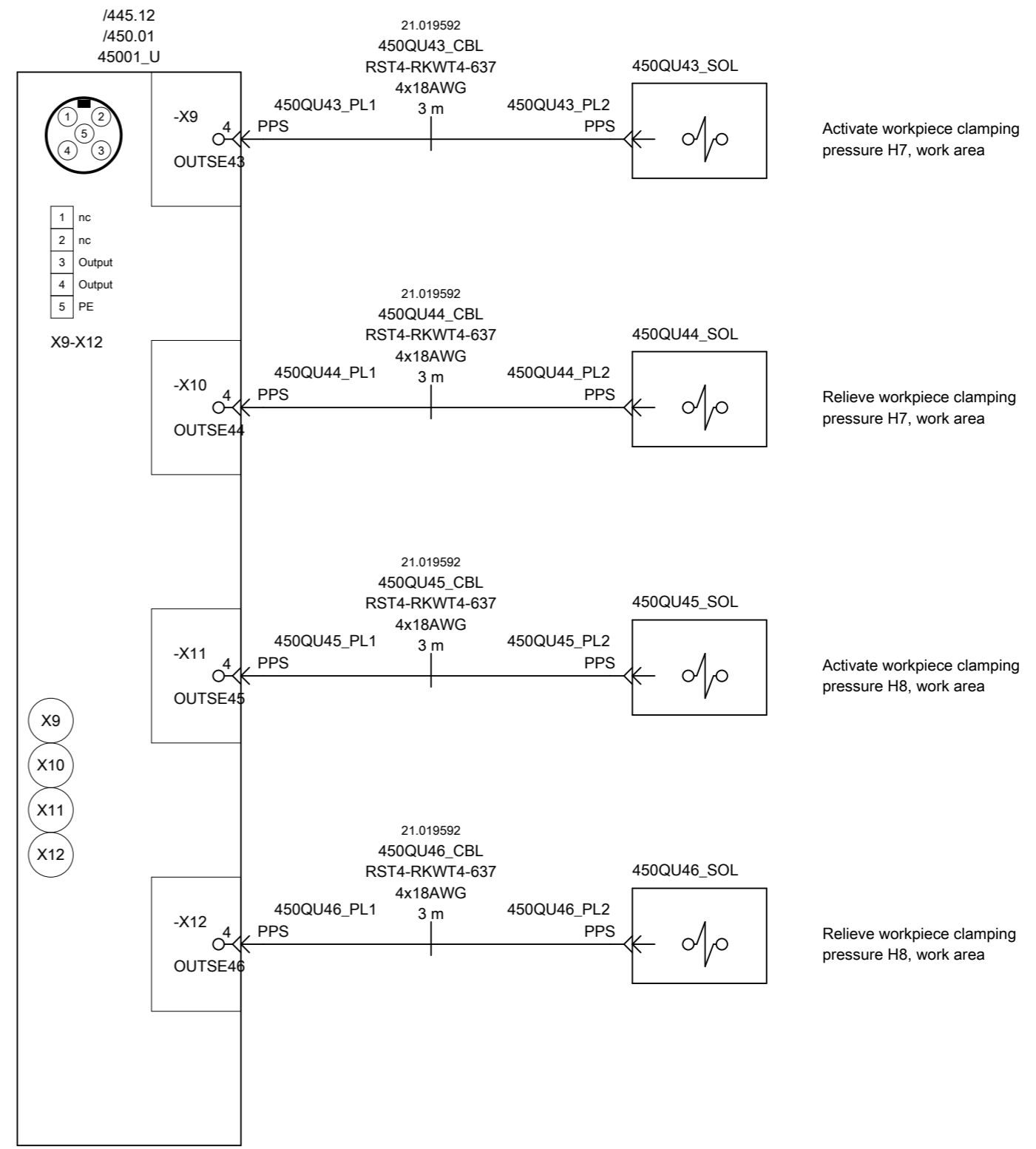
Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
INSExxx OUTSE35 - OUTSE38				Inv.No.	
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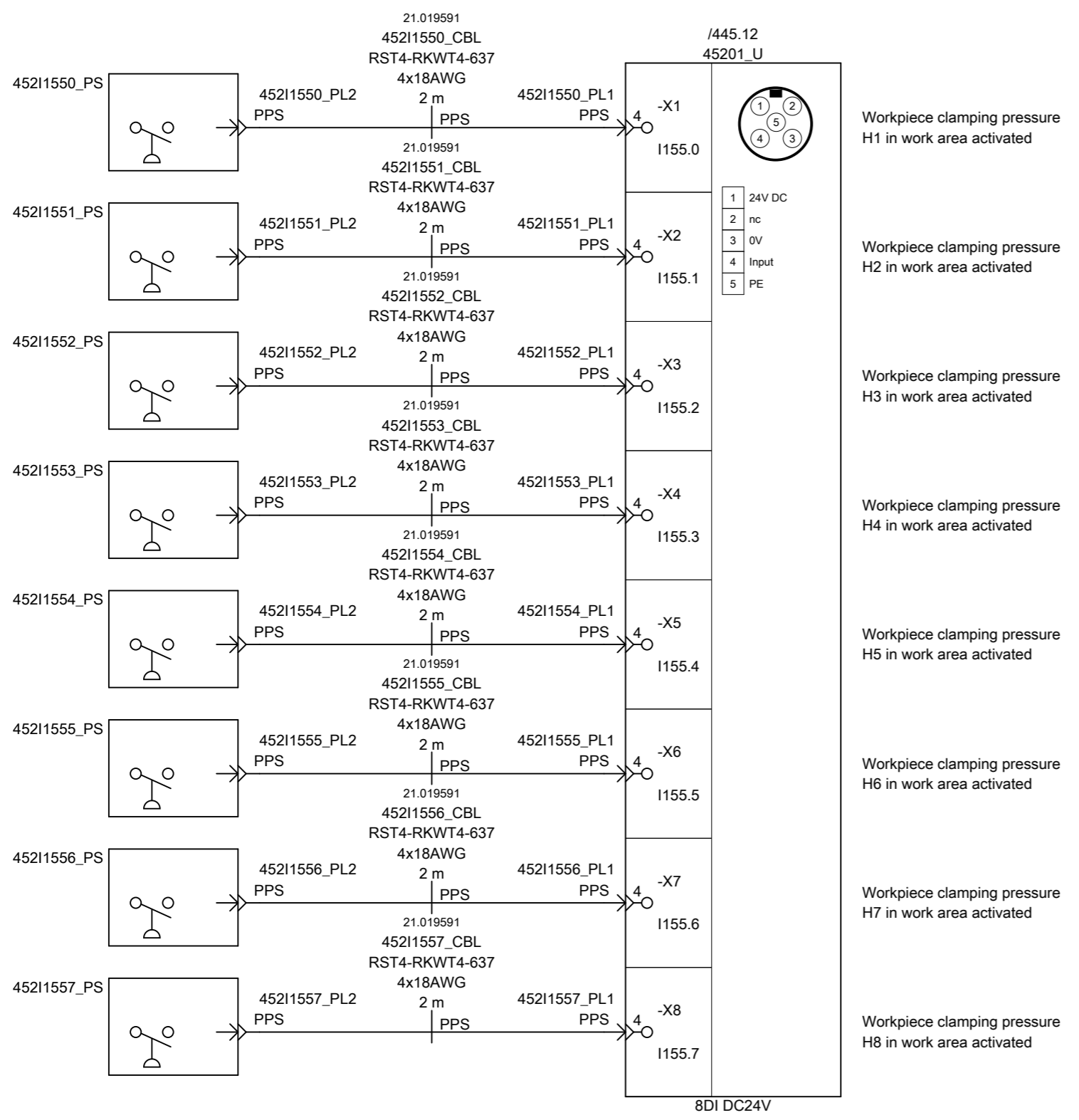
Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
INSExxx OUTSE43 - OUTSE46				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
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PPS
-X1
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4x18AWG
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PPS
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PPS
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I155.1

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4x18AWG
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PPS
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PPS
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I155.3

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45211554_CBL
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45211555_PL1
PPS
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45211556_CBL
RST4-RKWT4-637
4x18AWG
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45211556_PL1
PPS
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I155.6

21.019591
45211557_CBL
RST4-RKWT4-637
4x18AWG
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45211557_PL1
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I155.7

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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
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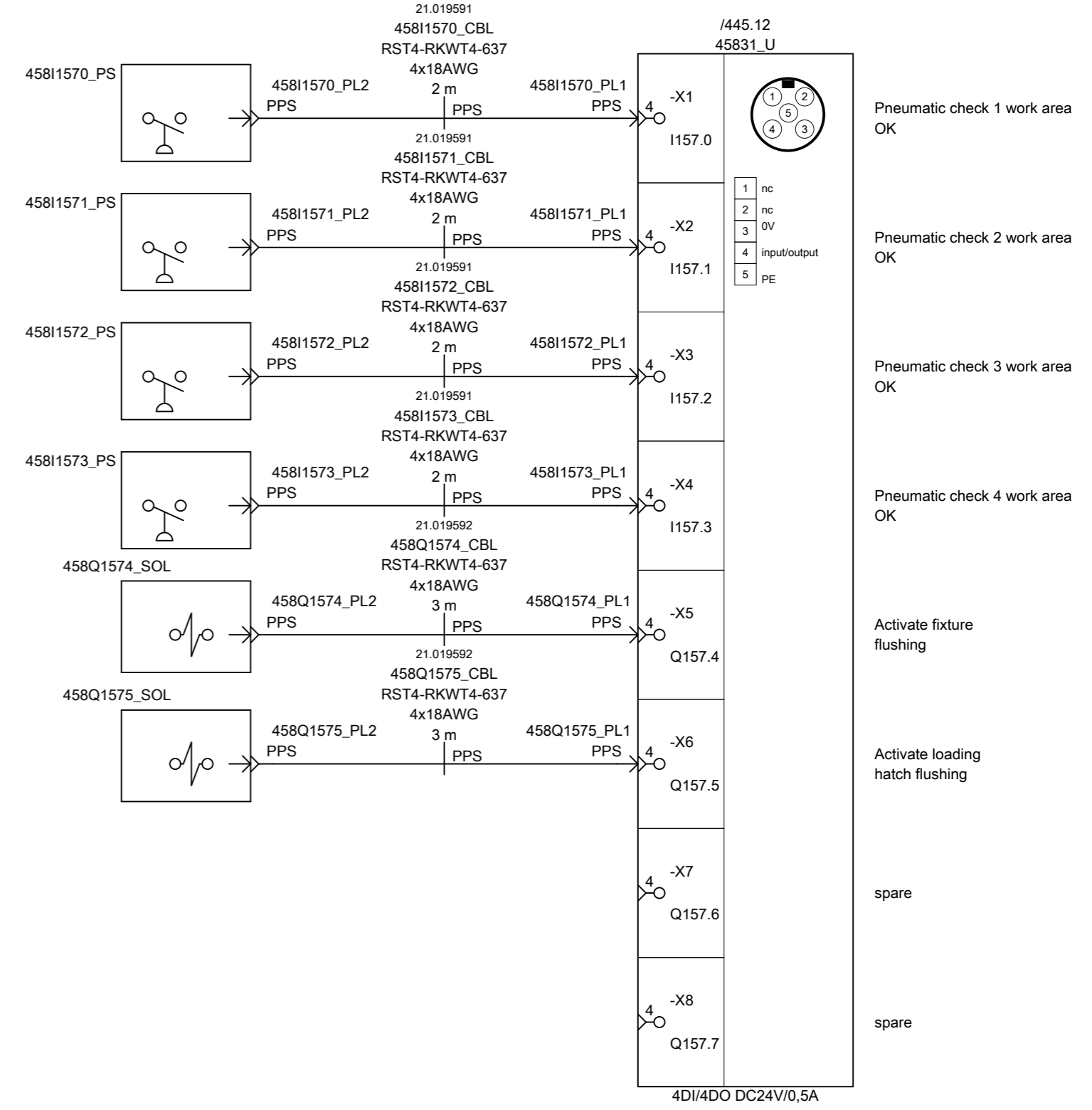
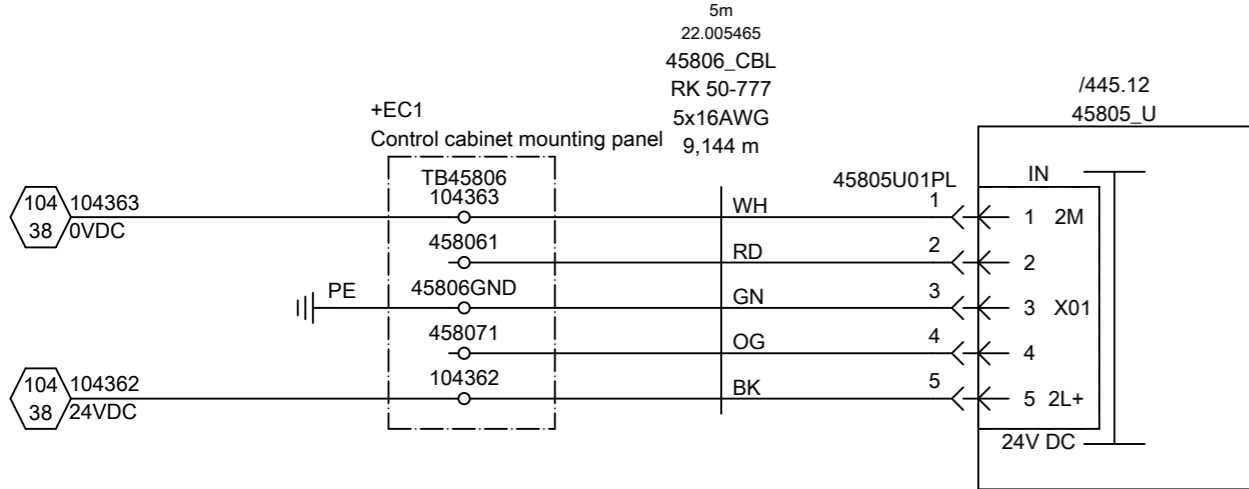
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Reserve
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	19.10.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG			
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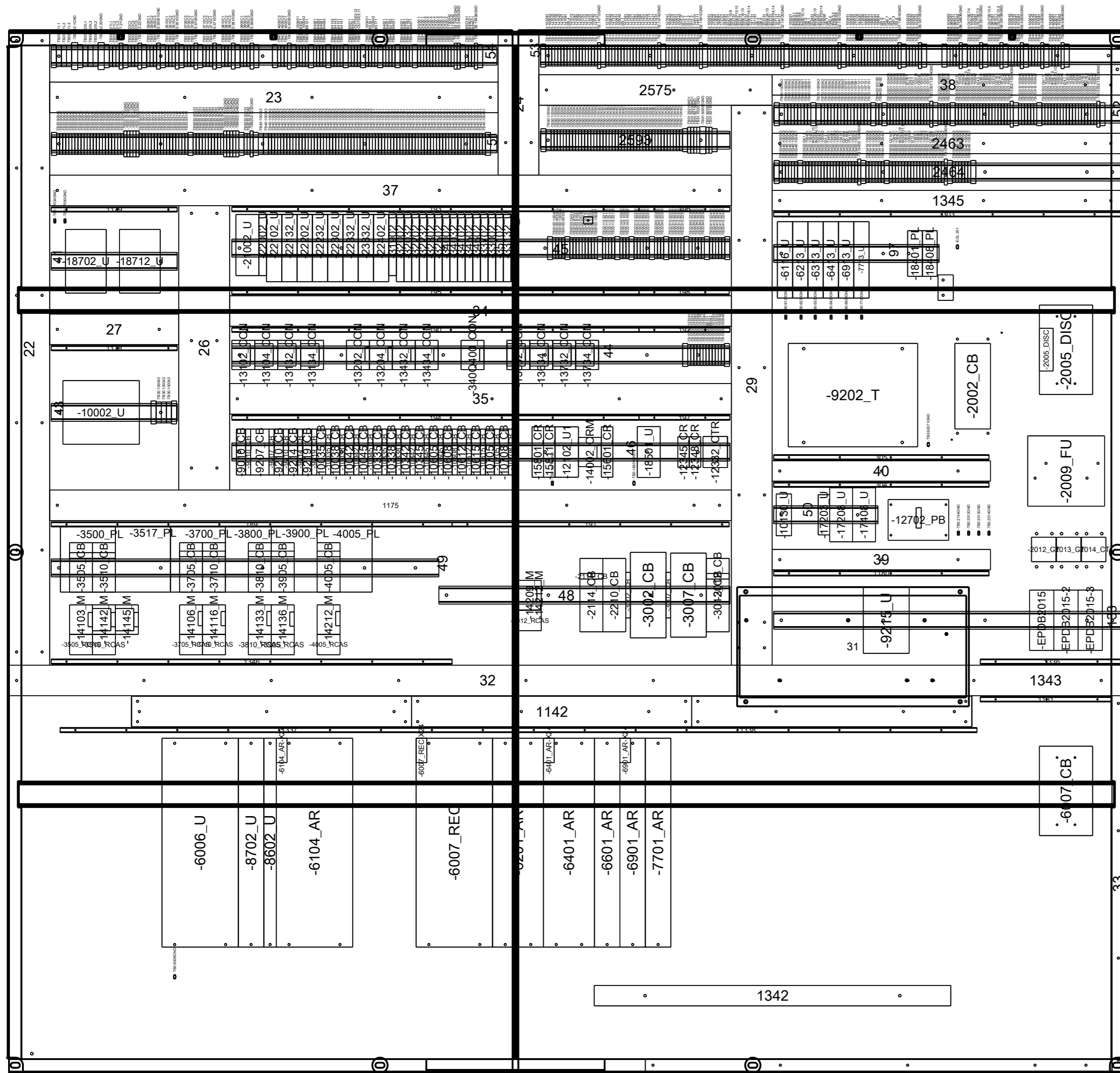
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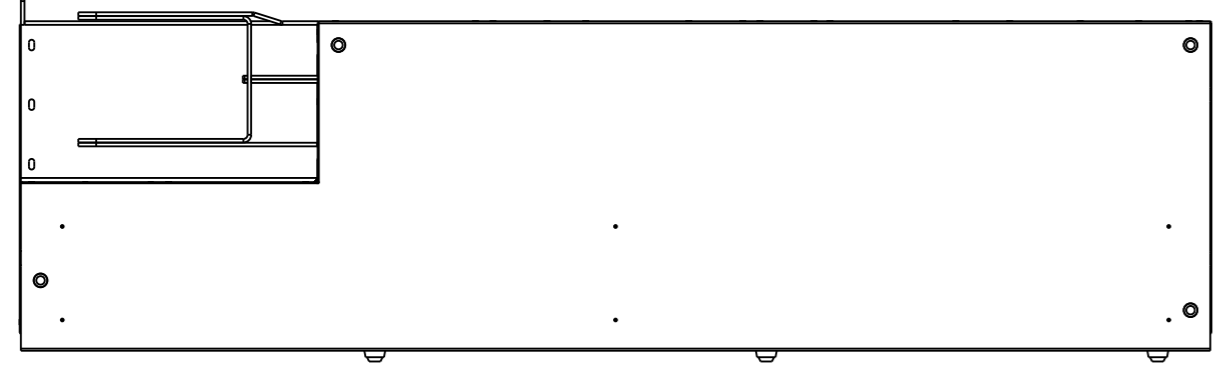
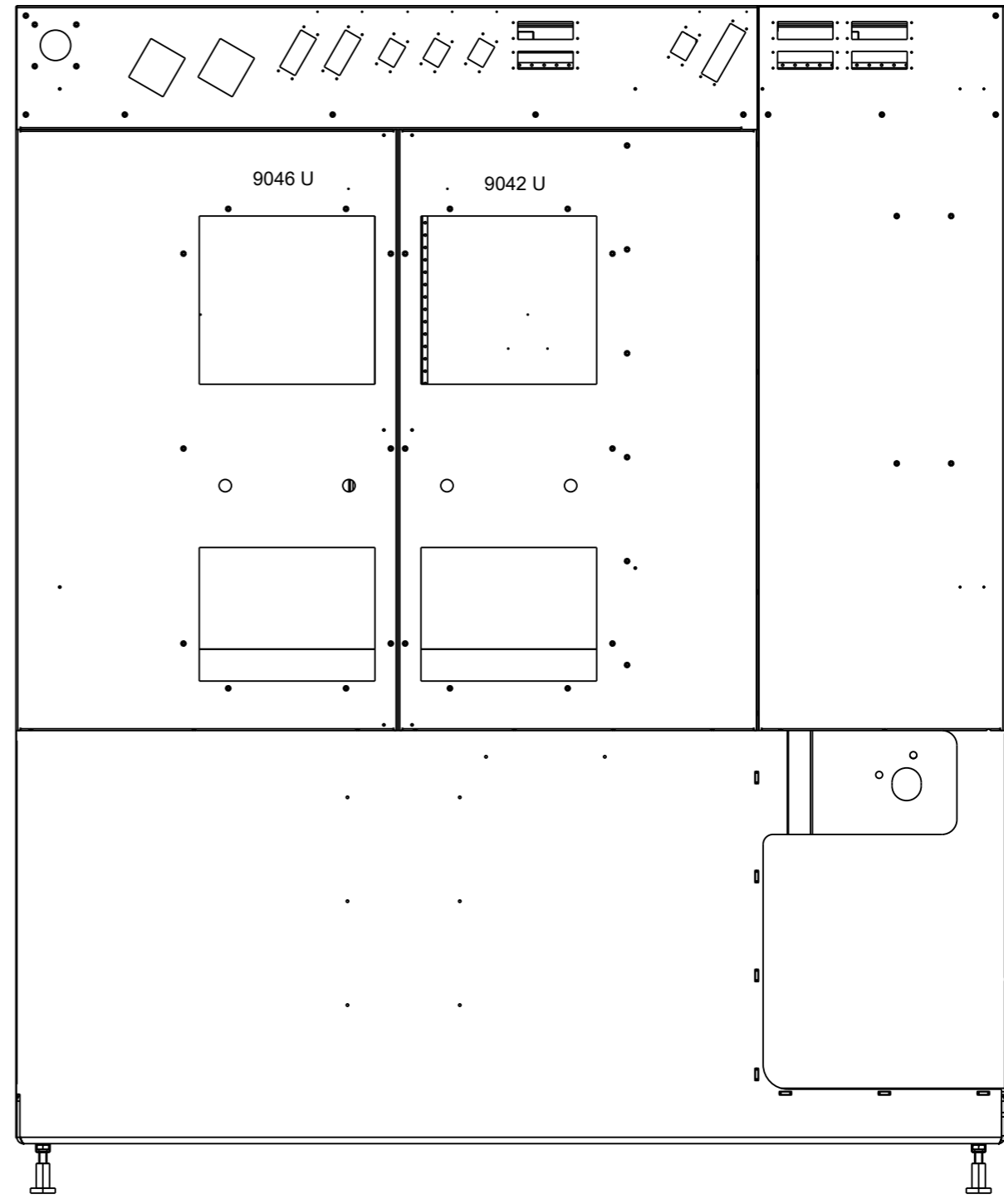
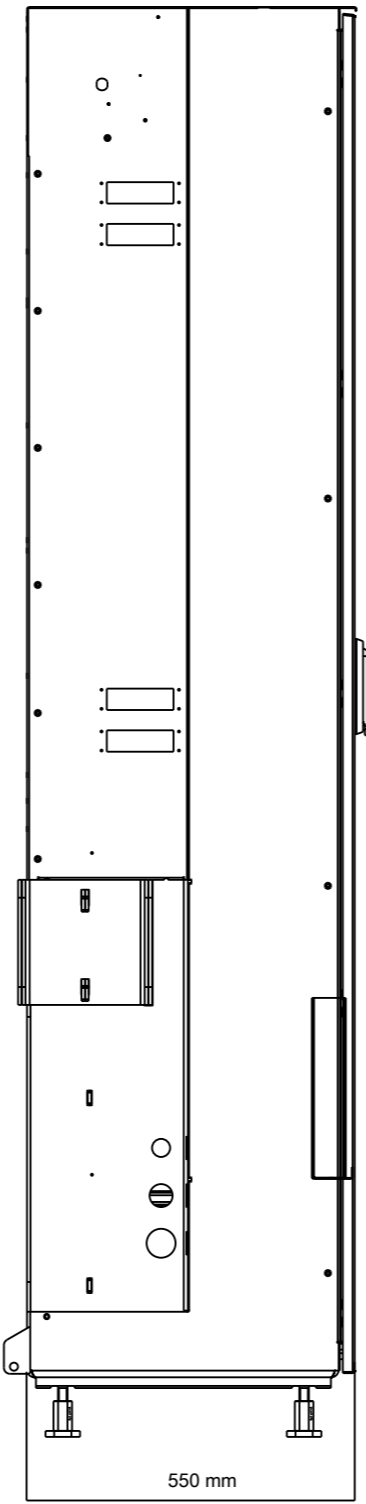
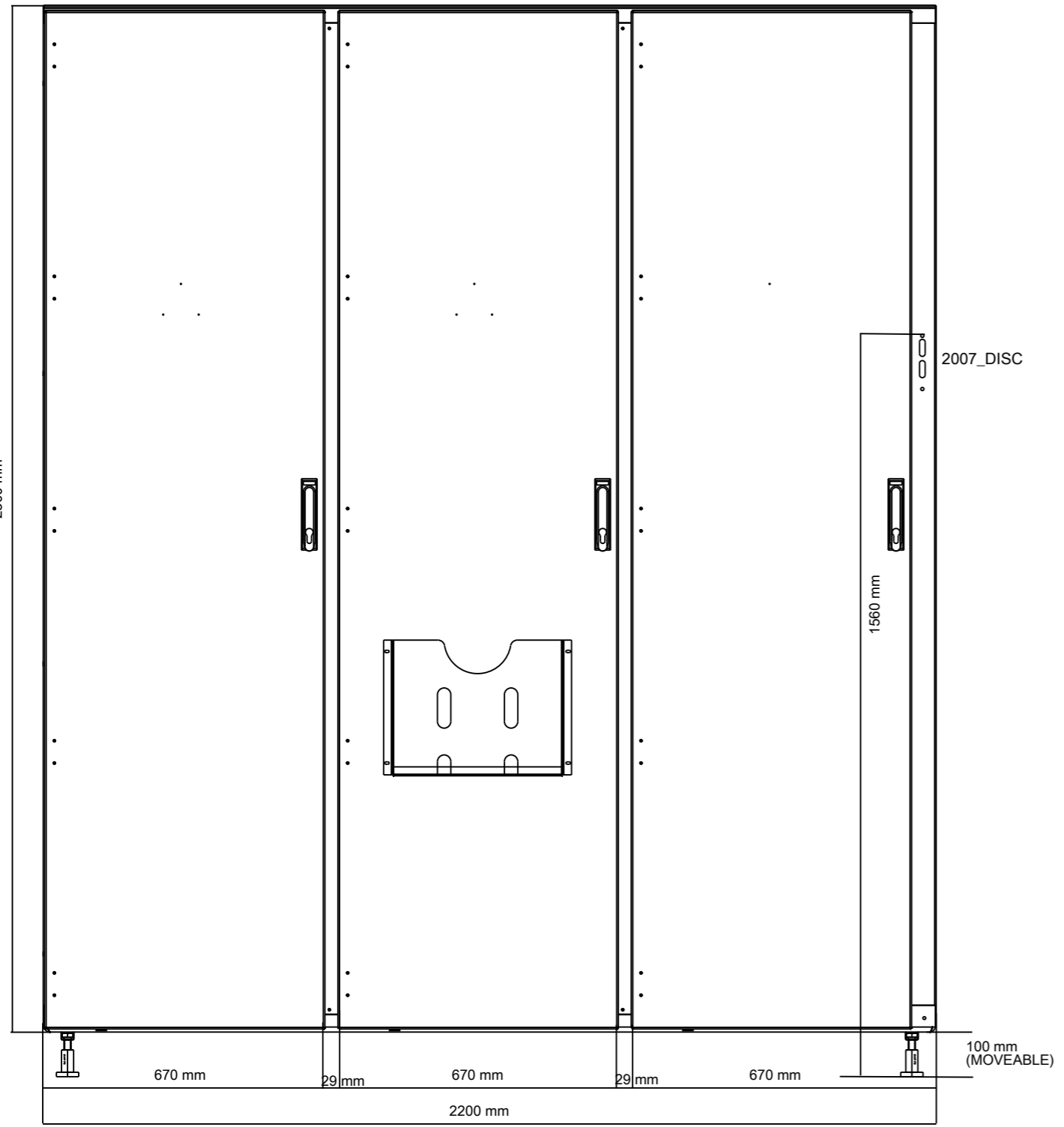
Reserve
I/Q160.0 - 7

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	19.02.2016	AHP3/RIG		Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	13.06.2016	OE1/SMC	H 10000 MC		
DRAWN	13.06.2016	OE1/SMC			
Mounting panel structure				Inv.No.	
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Control cabinet housing				Inv.No.	
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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)

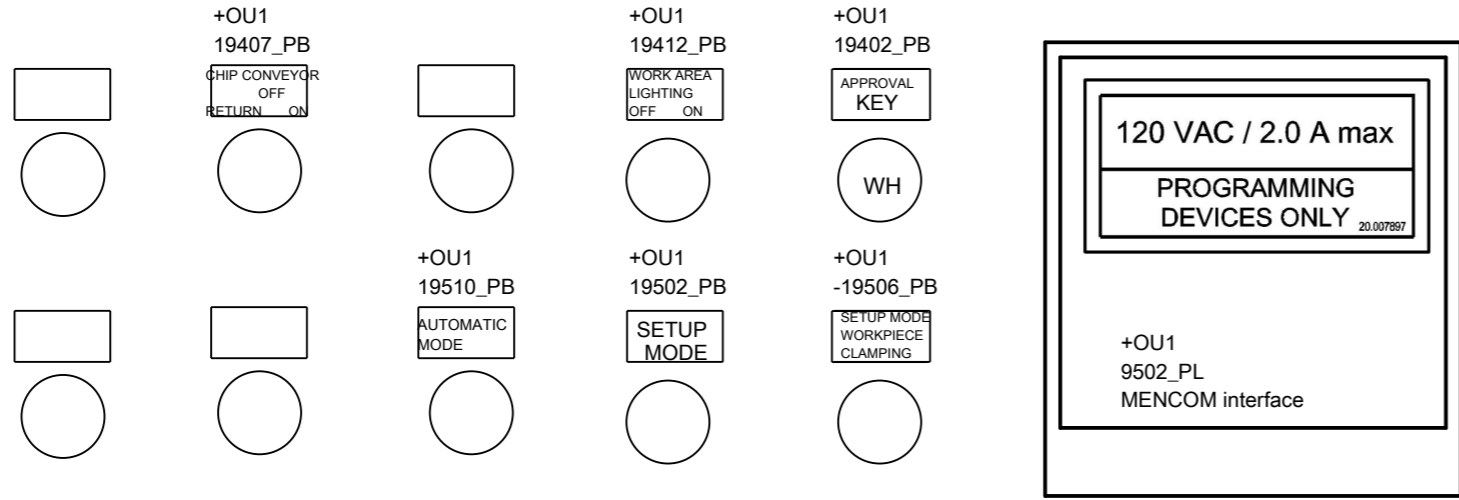
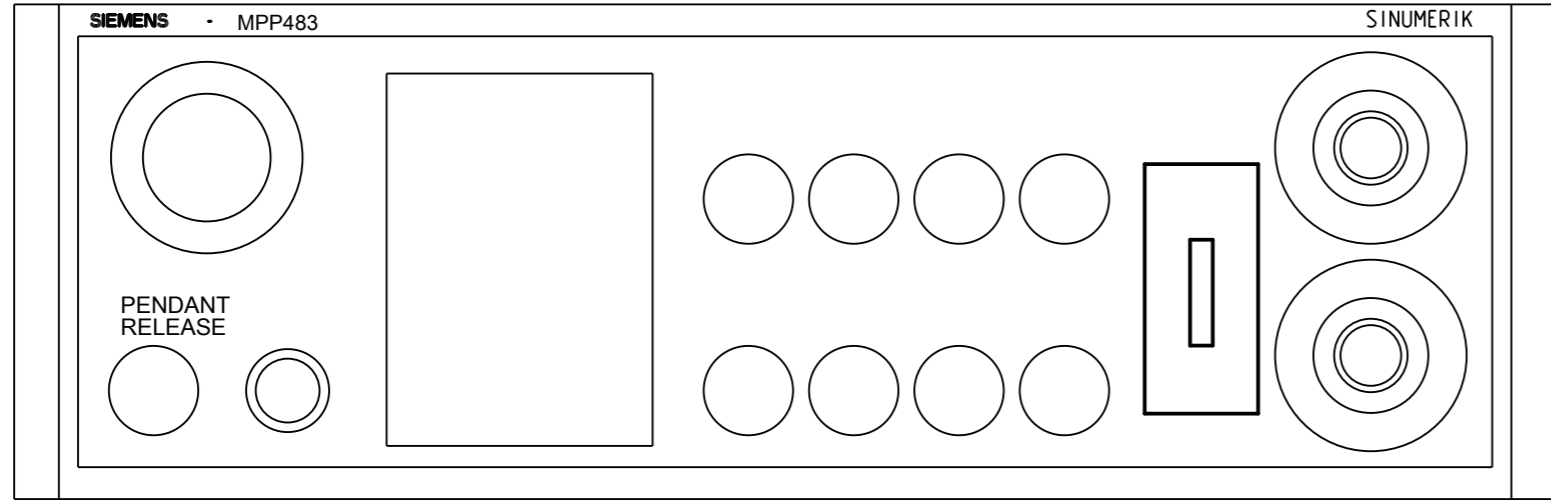
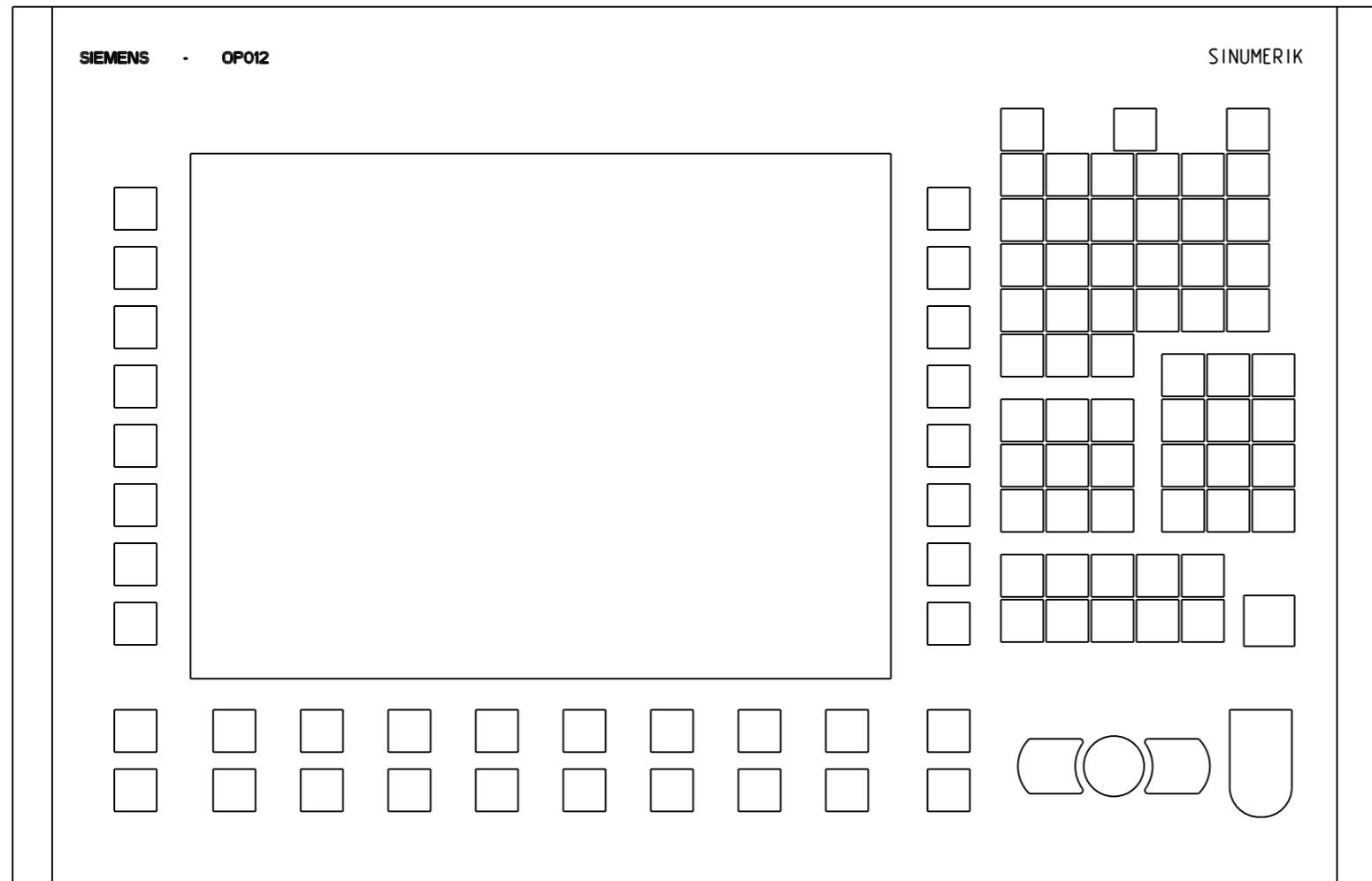
6. NET HEAT DISSIPATION _____ 9394 (BTU/Hr)

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

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

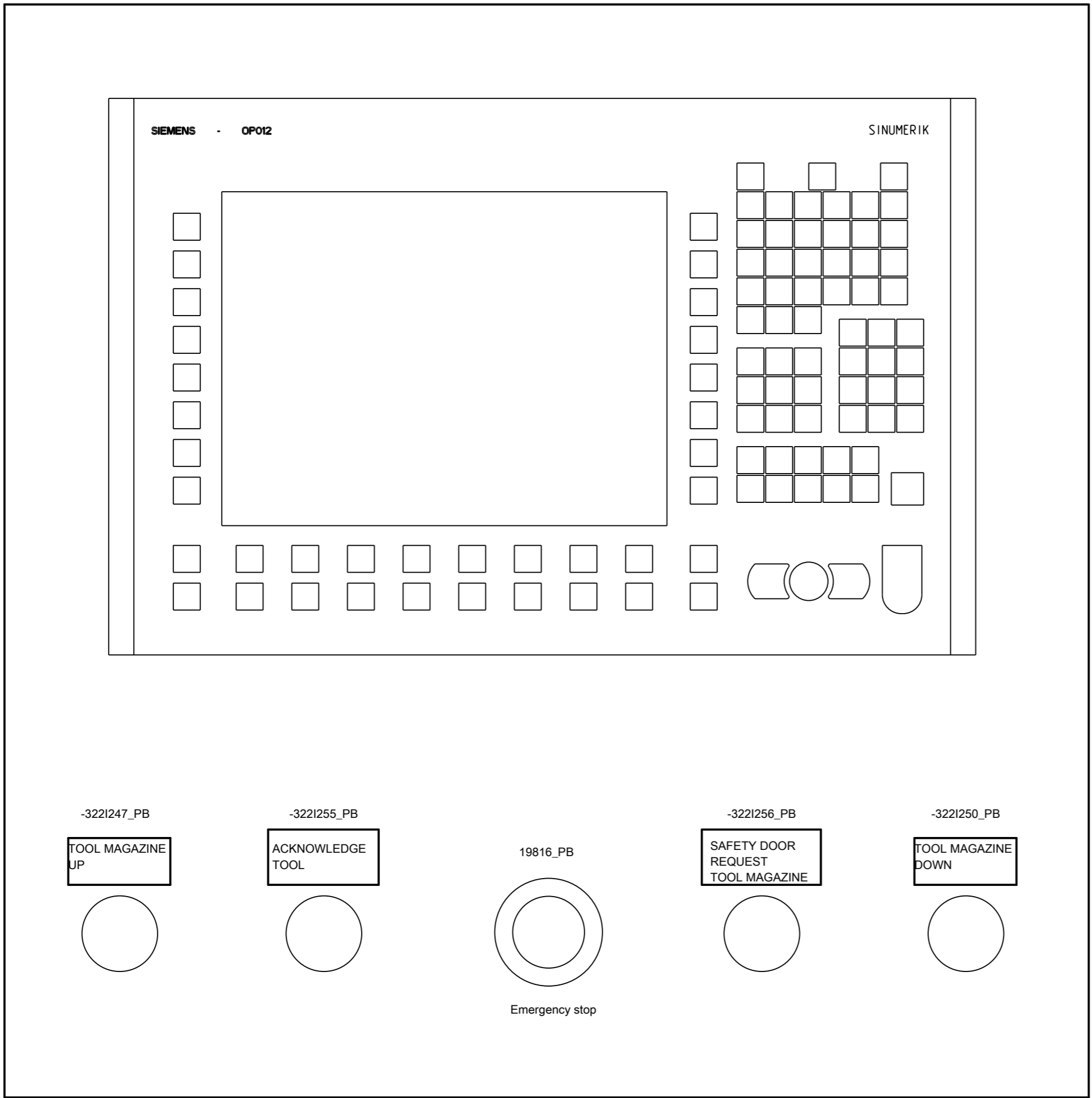
Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK					
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	01.10.2015	AHP3/EWD			
Heat calculation in control cabinet				Inv.No.	
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20.008 172

Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	26.05.2015	AHP3/GMI			
Main operating unit OP12				Inv.No.	
Number of pages				275	Page 703
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Project description P-009081				Project JIC_EP05480000 Machine serial number M54807	
	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHECK			H 10000 MC		
CHANGE	12.04.2016	AHP3/RIG			
DRAWN	26.05.2015	AHP3/GMI		Inv.No.	
Tool setting station magazine control panel				Number of pages 275 Page 704	
ePLAN P8 2.2.5		=54800	703		Page 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
6SN1123x-1Ax00-	[N*m]	[lb*in]																
0AA0x	0.7	6.2																
0CA0x	0.7	6.2																
0DA0x	1.8	16.0																
0EA0x	8.0	70.0																
0FA0x	20.0	177.0																

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

	<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-009081				Project JIC_EP05480000 Machine serial number M54807	
CHECK	Date	Dep./Name	Machine type	Customer 6-Cylinderblock	
CHANGE	12.04.2016	AHP3/RIG	H 10000 MC		
DRAWN	22.03.2016	AHP3/RIG			
Labelling of control cabinet housing				Inv.No.	
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