

Manufactured by

URK FEI

Ilkovicova 3 841 01 Bratislava / Slovakia Phone. +421 910 688 301



Customer

Supplier

URK FEI

Device description

Project name

Project desctription

Project category/number

001_TSI_LI_development_DP

Diploma thesis: Tire surface inspection - lettering inspection

001

Created on 23-Oct-17

Edit date 12-Nov-20 by PATRIK HERCUT

by PATRIK HERCUT

Number of pages

Table of contents

Column X: An automatically generated page was edited

F06_001

Page	Page description	supplementary page field	Date	Edited by	Х
/1	Title page / cover sheet		12-Nov-20	MATUS KOLAROVIC	
/2	Table of contents		12-Nov-20	MATUS KOLAROVIC	
/2.a	Table of contents		12-Nov-20	MATUS KOLAROVIC	
/3	Cable overview		12-Nov-20	MATUS KOLAROVIC	
/3.a	Cable overview		12-Nov-20	MATUS KOLAROVIC	
/4	Parts list		12-Nov-20	MATUS KOLAROVIC	
/4.a	Parts list		12-Nov-20	MATUS KOLAROVIC	
/4.b	Parts list		12-Nov-20	MATUS KOLAROVIC	
/5	Summarized parts list		12-Nov-20	MATUS KOLAROVIC	
/5.a	Summarized parts list		12-Nov-20	MATUS KOLAROVIC	
/5.b	Summarized parts list		12-Nov-20	MATUS KOLAROVIC	
/5.c	Summarized parts list		12-Nov-20	MATUS KOLAROVIC	
=TSI_LI+RM1/100	Panel layout RM1		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+RM1/101	Mains		15-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/102	Power part		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+RM1/104	Power part - 24VDC supply - aircon		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+RM1/106	S120 -power infeed		15-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/107	S120 -control unit		16-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/110	S120 -motor module		15-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/115	HW PLC		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+RM1/120	PLC		16-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/121	PLC		16-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/123	PLC		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+RM1/124	PLC		15-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/125	PLC -thermometer		15-Sep-20	MATUS KOLAROVIC	
=TSI_LI+RM1/150	PC		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+RM1/151	Networks		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/200	Panel layout		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/201	PLC		16-Sep-20	MATUS KOLAROVIC	
=TSI_LI+MS2/202	PLC		12-Nov-20	MATUS KOLAROVIC	
=TSI_LI+MS2/204	PLC		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/205	PLC		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/206	PLC F-power module		15-Sep-20	MATUS KOLAROVIC	

URK FEI
Ilkovicova 3
841 01 Bratislava / Slovakia

001_TSI_LI_development_DP



Table of contents

Column X: An automatically generated page was edited

F06_001

Page	Page description	supplementary page field	Date	Edited by	X
=TSI_LI+MS2/207	PLC		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/209	SCHUNK joint		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/210	Safety scaner		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/211	Sensor actuator		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/212	LLT		23-Oct-20	MATUS KOLAROVIC	
=TSI_LI+MS2/215	Kawasaki 1TR board		23-Oct-20	MATUS KOLAROVIC	

001_TSI_LI_development_DP

Cable overview

F10_001

Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	function text	Graphical page of cable diagram
=TSI_LI+RM1-101W7	=TSI_LI+RM1-151HUB3	=TSI_LI+MC-101U2	6XV1840-2AH10		1				
=TSI_LI+RM1-102W0	=TSI_LI+RM1-102X0	=TSI_LI+Customer-L1		5G	5	6			
		=TSI_LI+Customer-L2							
		=TSI_LI+Customer-L3							
		=TSI_LI+Customer-N1							
		=TSI_LI+Customer-PE1							
=TSI_LI+RM1-102W1	=TSI_LI+KAWASAKI Robot co	ntr əller_1102XX M1-102X1		5G	5	4			
=TSI_LI+RM1-102W6	=TSI_LI+RM1-102Q6	=TSI_LI+RM1-102XS6-PWR	Olflex Classic 100	4G	3	1.5			
	PE								
=TSI_LI+RM1-102W7	=TSI_LI+RM1-151HUB5	=TSI_LI+RM1-102XS6-ETH1	CAT5E		1				
=TSI_LI+RM1-102W7.1		=TSI_LI+RM1-102XS6-ETH2	6XV1840-2AH10		1				
=TSI_LI+RM1-102W8.1	=TSI_LI+RM1-102X0	=TSI_LI+RM1-102HL8	Rittal 2500.400		3				
	=TSI_LI+RM1-102F8								
=TSI_LI+RM1-107W5	=TSI_LI+RM1-106T2.1-X200	=TSI_LI+RM1-107T1-X100	6SL3060-4AK00-0AA0		1				
=TSI_LI+RM1-110W2.1			6FX5002-5DN06-1CA0		0				
=TSI_LI+RM1-110W4	=TSI_LI+RM1-110T2-X201	=TSI_LI+MEASURING_STAND			1				
=TSI_LI+RM1-110W6	=TSI_LI+RM1-106T2.1-X201	=TSI_LI+RM1-110T2-X200	6SL3060-4AK00-0AA0		1				
=TSI_LI+RM1-115W5	=TSI_LI+RM1-115PLC3	=TSI_LI+RM1-120ET3	6XV1840-2AH10		1				
=TSI_LI+RM1-115W5.1		=TSI_LI+RM1-115PLC3	6XV1840-2AH10		1				
=TSI_LI+RM1-121W0	=TSI_LI+RM1-121DI0	=TSI_LI+RM1-121S0		5G	4	0.5			
=TSI_LI+RM1-125W0	=TSI_LI+RM1-125AI0	=TSI_LI+RM1-125B0			2				
=TSI_LI+RM1-150W4	=TSI_LI+RM1-150U3	=TSI_LI+RM1-150U4-DPP			1				
=TSI_LI+RM1-150W4.1	=TSI_LI+RM1-150U4-USB	=TSI_LI+PANEL-150D0-USB	USB A-A M/M		1				
=TSI_LI+RM1-150W6	131_11111111111111111111111111111111111	=TSI_LI+RM1-150U4-X1	CAT5E		1				
=TSI_LI+RM1-150W7	=TSI_LI+RM1-151HUB3	=TSI_LI+RM1-150U4-X2	6XV1840-2AH10		1				
=TSI_LI+RM1-150W8	=TSI_LI+RM1-150U4-USB	=TSI_LI+RM1-150U7-X3	USB A / USB B		1				
=TSI_LI+PANEL-150W2	=TSI_LI+PANEL-150D0-USB	=TSI_LI+PANEL-150U1	USB A-A M/F		1				
=TSI_LI+PANEL-150W3	=TSI_LI+RM1-150U3	=TSI_LI+PANEL-150D0-DVI	OSD A A PIJI		1				
=TSI_LI+MS2-201W3	=131_L11Ki11 13003	-131_L111 AIVEL 13000 DV1	ÖLFLEX® CLASSIC 110	5G	3	0.75			
-131_L1+1432-201W3	=TSI_LI+RM1-201X3	=TSI_LI+MS2-201X3	OLI LLAW CLASSIC 110	30	J	0.73			
=TSI_LI+MS2-202W0	=TSI_LI+MS2-202DI0			FC	4	0.5			
=TSI_LI+MS2-202W0 =TSI_LI+MS2-207W0	=1SI_LI+MS2-202D10 =TSI_LI-207Y0	=TSI_LI+MS2-202S0 =TSI_LI+MS2-207D00		5G 3G	2	0.5			
		=TSI_LI+MS2-207D00 =TSI_LI+MS2-207D00		3G 3G	2	0.5			
=TSI_LI+MS2-207W1	=TSI_LI-207Y1			3G		0.5			
=TSI_LI+MS2-207W2	=TSI_LI-207Y2	=TSI_LI+MS2-207D00 =TSI_LI+MS2-204DI0		21G	2				
=TSI_LI+MS2-209W1				216	14	0.5			
TCL 11 - MC2 240W4	TCI 17 - MC2 24012	=TSI_LI+MS2-205DI0	CVOA POOOFC						
=TSI_LI+MS2-210W4	=TSI_LI+MS2-210U3	=TSI_LI+MS2-210X4	SX0A-B0905G		9				
=TSI_LI+MS2-211W0	=TSI_LI-211X0-1	TCI 1 2449/2 2		210	4	0.7			
=TSI_LI+MS2-211W0.1		=TSI_LI-211X0-0		21G	14	0.5			
=TSI_LI+MS2-211W1	=TSI_LI-211X0-2				4				
=TSI_LI+MS2-211W3	=TSI_LI-211X0-3				4				
=TSI_LI+MS2-211W4	=TSI_LI-211X0-4				4				
=TSI_LI+MS2-211W5	=TSI_LI-211X0-5				4				
=TSI_LI+MS2-211W6	=TSI_LI-211X0-6				4				
=TSI_LI+MS2-212W3	=TSI_LI+MS2-212X3.2	=TSI_LI+MS2-212LLT3	PC2700-4.5	6x2	12	0.14	4.5		
=TSI_LI+MS2-212W6			SC2700-20/ET		0		20		

Cable overview

F10_001

Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	function text	Graphical page of cable diagram
TSI_LI+MS2-215W4	=TSI_LI+MS2-215U3-X7	=TSI_LI+MS2-215X4		5G	4	0.5			
		1							
					I				

001_TSI_LI_development_DP

Parts list

F01 MF					
	F	=0	1	M	F

Device tag	Quantity	Designation	Part number	Supplier	Function text	User notes
	6	Y connector 2xM8 3-pin to 1xM12 4-pin	NEDY-L2R1-V1-M8G3-N-M12G4	FESTO		
TSI_LI-211SM0	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO	Griper Open1	
TSI_LI-211SM0.1	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO FESTO	Griper Closed1	
TSI_LI-211SM1	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO FESTO	Griper Open2	
TSI_LI-211SM2	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO FESTO	Griper Closed2	
TSI_LI-211SM2.1	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO FESTO	Griper Open3	
TSI_LI-211SM3	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO	Griper Closed3	
TSI_LI-211SM4	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO	Griper Up1	
TSI_LI-211SM4.1	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO	Griper Down1	
TSI_LI-211SM5	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO	Griper Up2	
TSI_LI-211SM5.1	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO	Griper Down2	
	1			FESTO		
TSI_LI-211SM6		Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D		Griper Up3	
TSI_LI-211SM7	1	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D	FESTO Walder Tiller	Griper Down3	
TSI_LI-211X0	1	Sensor-actuator passive distributor, M12, Hood version	SAI-8-M 5P M12 ZF III	Weidmüller		
TSI_LI-211X0	1	Round plug-in connector M12, Screw connection, Straight	SAIS-4/7	Weidmüller		
TSI_LI-207Y0	0				Gripper up	
TSI_LI-207Y1	0				Gripper down	
TSI_LI-207Y2	0				Gripper close	
TSI_LI+RM1-104A1	1	Electronic Current Monitoring	9000-41034-0401000	Murr		
TSI_LI+RM1-104A3	1	Electronic Current Monitoring	9000-41034-0401000	Murr		
TSI_LI+RM1-125AI0	1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens AG		
TSI_LI+RM1-125AI0	1	ET 200SP, AI 4XRTD/TC 2-/3-/4-WIRE HF	6ES7134-6JD00-0CA1	Siemens AG		
TSI_LI+RM1-125AI0	1	SIMATIC ET 200SP, shield terminal and shield support	6ES7193-6SC00-1AM0	Siemens AG		
TSI_LI+RM1-125B0	1	Temperature sensors	Pt100-3	ELKO EP	Temperature sensor	
TSI_LI+RM1-121DI0	1	BASEUNIT TYPE A0, BU15-P16+A10+2D	6ES7193-6BP20-0DA0	Siemens AG		
TSI_LI+RM1-121DI0	1	ET 200SP, EL-MOD., F-DI 8X24VDC HF	6ES7136-6BA00-0CA0	Siemens AG		
TSI_LI+RM1-123DI0	1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens AG		
TSI_LI+RM1-123DI0	1	ET 200SP, DI 8X24VDC ST	6ES7131-6BF00-0BA0	Siemens AG		
TSI_LI+RM1-124DI0	1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens AG		
TSI_LI+RM1-124DI0	1	ET 200SP, DI 8X24VDC ST	6ES7131-6BF00-0BA0	Siemens AG		
TSI_LI+RM1-120ET2	1	ET 200SP, IM155-6PN HF	6ES7155-6AU00-0CN0	Siemens AG		
TSI_LI+RM1-120ET2	1	ET 200SP, Bus Adapter 2XRJ45	6ES7193-6AR00-0AA0	Siemens AG		
TSI_LI+RM1-120ET3	1	ET 200SP, IM155-6PN HF	6ES7155-6AU00-0CN0	Siemens AG		
TSI_LI+RM1-120ET3	1	ET 200SP, Bus Adapter 2XRJ45	6ES7193-6AR00-0AA0	Siemens AG		
	2	Industrial Ethernet FastConnect RJ45 plug 180 2x 2	6GK1901-1BB10-2AB0	Siemens AG		
 :TSI_LI+RM1-101F5	1	CIRCUIT BREAKER 400V 6KA, 3-POLE, C, 1A, D=70MM	5SY6301-7	Siemens AG		
TSI_LI+RM1-101F5	1	AUXILIARY SWITCH MOUNT. 1NC+1NO	5ST3010	Siemens AG		
TSI_LI+RM1-101F5	1	Pin busbar, 10 mm2 connection: 2x (3-phase+AUX/FS) touch-safe	5ST3616	Siemens AG		
TSI LI+RM1-102F0	1	CIRCUIT BREAKER 400V 6KA, 3-POLE, B,32A, D=70MM	5SY6332-6	Siemens AG	Main circuit breaker	
TSI_LI+RM1-102F0	1	AUXILIARY SWITCH MOUNT. 1NC+1NO	5ST3010	Siemens AG	=	
TSI_LI+RM1-102F0	1	Pin busbar, 10 mm2 connection: 2x (3-phase+AUX/FS) touch-safe	5ST3616	Siemens AG	=	
TSI_LI+RM1-102F2	1	CIRCUIT BREAKER, SCREW-TYPE, 25 A	3RV2031-4UA10	Siemens AG		
TSI_LI+RM1-102F2	1	LATERAL AUXILIARY SWITCH 1NO+1NC, SCREW CONNECTION,	3RV2901-1A	Siemens AG		
TSI_LI+RM1-102F2 TSI_LI+RM1-102F3	1	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 1A, D=70MM	5SY6101-7	Siemens AG		
	1	AUXILIARY SWITCH MOUNT. 1NC+1NO		Siemens AG		
TSI_LI+RM1-102F3			5ST3010			
TSI_LI+RM1-102F3	1	Pin busbar, 10 mm2 connection: 2x (1-phase+AUX/FS) touch-safe	5ST3603	Siemens AG		
SI_LI+RM1-102F6	1	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	5SY6110-7	Siemens AG		
TSI_LI+RM1-102F6	1	AUXILIARY SWITCH MOUNT. 1NC+1NO	55T3010	Siemens AG		
TSI_LI+RM1-102F6	1	Pin busbar, 10 mm2 connection: 2x (1-phase+AUX/FS) touch-safe	5ST3603	Siemens AG		
TSI_LI+RM1-102F8	1	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 4A, D=70MM	5SY6104-7	Siemens AG		
TSI_LI+RM1-102F8	1	AUXILIARY SWITCH MOUNT. 1NC+1NO	5ST3010	Siemens AG		
TSI_LI+RM1-102F8	1	Pin busbar, 10 mm2 connection: 2x (1-phase+AUX/FS) touch-safe	5ST3603	Siemens AG		
TSI_LI+RM1-104F1	1	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	5SY6110-7	Siemens AG		
TSI_LI+RM1-104F1	1	AUXILIARY SWITCH MOUNT. 1NC+1NO	5ST3010	Siemens AG		
TSI_LI+RM1-104F1	1	Pin busbar, 10 mm2 connection: 2x (1-phase+AUX/FS) touch-safe	5ST3603	Siemens AG		
TSI_LI+RM1-104F7	1	CIRCUIT BREAKER 400V 6KA, 3-POLE, C, 10A, D=70MM	5SY6310-7	Siemens AG		

Parts list

Device tag	Quantity	Designation	Part number	Supplier	Function text	User notes
=TSI_LI+RM1-104F7	1	AUXILIARY SWITCH MOUNT. 1NC+1NO	5ST3010	Siemens AG		
=TSI_LI+RM1-106F3	1	CIRCUIT BREAKER, SCREW-TYPE, 25 A	3RV2031-4UA10	Siemens AG		
=TSI_LI+RM1-106F3	1	LATERAL AUXILIARY SWITCH 1NO+1NC, SCREW CONNECTION,	3RV2901-1A	Siemens AG		
=TSI_LI+RM1-104G1	1	SITOP PSU200M 10 A STABILIZED POWER SUPPLY	6EP1334-3BA10	Siemens AG		
=TSI_LI+RM1-102HL3	1	INDICATOR LIGHT, WHITE	3SU1156-6AA60-1AA0	Siemens AG	Cabinet under voltage	
=TSI_LI+RM1-102HL3	1	LABEL HOLDER 27x27mm	3SU1900-0AT10-0AA0	Siemens AG	=	
=TSI_LI+RM1-102HL8	1	Universal light with integral motion detector	SZ 2500.300	Rittal	Cabinet light	
=TSI_LI+RM1-151HUB3	1	SCALANCE X208, MANAGED IE SWITCH, 8 X 10/100MBIT/S RJ45 PORTS	6GK5208-0BA10-2AA3	Siemens AG		
=TSI_LI+RM1-151HUB5	1	SCALANCE X208, MANAGED IE SWITCH, 8 X 10/100MBIT/S RJ45 PORTS	6GK5208-0BA10-2AA3	Siemens AG		
=TSI_LI+RM1-101L2	1	Current measuring transformer 75/5A; 3,75VA	ASR 21.5	Rotex		
=TSI_LI+RM1-101L3	1	Current measuring transformer 75/5A; 3,75VA	ASR 21.5	Rotex		
=TSI_LI+RM1-101L4	1	Current measuring transformer 75/5A; 3,75VA	ASR 21.5	Rotex		
=TSI_LI+RM1-100M1	1	Electrical cabinet / Mounting panel	8805.500	Rittal		
=TSI_LI+RM1-104M7	1	Cooling unit 2500 W, 400/460V, 50/60Hz	DTS6501	Elektris		
=TSI_LI+RM1-115PLC3	1	CPU 1516F-3 PN/DP, 1.5 MB PROG, 5 MB DATA	6ES7516-3FN02-0AB0(1)	Siemens AG		
=TSI_LI+RM1-102Q0	1	EM.STOP SWITCH 63A/690V 400V/22KW	3LD2504-0TK53	Siemens AG	Main switch	
=TSI_LI+RM1-102Q4	1	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6	Siemens AG	. Idili Striceli	
	1					
=TSI_LI+RM1-102Q5 =TSI_LI+RM1-102Q6	1	RCCB TYPE A 16/2 30MA 2MW RCCB TYPE A 16/2 30MA 2MW	5SV3311-6 5SV3311-6	Siemens AG Siemens AG		
=TSI_LI+RM1-102Q7	1	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6	Siemens AG	Material de la constituir	
=TSI_LI+RM1-104S8	1	Door-operated switch with 0.6m cable	SZ 4315.520	Rittal	Main cabinet door switch	
=TSI_LI+RM1-121S0	1	EM. STOP MUSHROOM PUSHBUTTON, 40MM, RED	3SU1050-1HB20-0AA0	Siemens AG	Emergency stop1 (Main cabinet)	
=TSI_LI+RM1-121S0	1	CONTACT MODULE	3SU1400-1AA10-1EA0	Siemens AG	=	
=TSI_LI+RM1-121S0	1	HOLDER	3SU1550-0AA10-0AA0	Siemens AG	=	
=TSI_LI+RM1-121S0	1	BACKING PLATE FOR EMERGENSTOP	3SU1900-0BC31-0NB0	Siemens AG	=	
=TSI_LI+RM1-121S0	1	PROTECTIVE COLLAR FOR PADLOCKS	3SU1950-0DX30-0AA0	Siemens AG	=	
=TSI_LI+RM1-106T2	1	SINAMICS S120 AIM 400V 36KW	6SL3100-0BE23-6AB0	Siemens AG		
=TSI_LI+RM1-106T2.1	1	SINAMICS S120 ACTIVE LINE MODULE 60A, 36KW	6SL3130-7TE23-6AA3	Siemens AG		
=TSI_LI+RM1-107T1	1	SINAMICS S120 CONTROL UNIT CU320-2 PN	6SL3040-1MA01-0AA0	Siemens AG		S120 Control unit
=TSI_LI+RM1-107T1	1	SINAMICS S120 COMPACTFLASH CARD V5.1	6SL3054-0FB01-1BA0	Siemens AG		S120 Control unit
=TSI_LI+RM1-107T1	1	SINAMICS S120 BASIC OPERATOR PANEL (BOP20)	6SL3055-0AA00-4BA0	Siemens AG		S120 Control unit
=TSI_LI+RM1-110T2	1	SINAMICS S120 SINGLE MOMO 3A D-TYPE	6SL3120-1TE13-0AD0	Siemens AG	Rotary table	
=TSI_LI+RM1-101U2	1	SENTRON PAC3200 POWER MONITORING DEVICE	7KM2111-1BA00-3AA0	Siemens AG		
=TSI_LI+RM1-101U2	1	PLUG-IN COMMUNICATIONS MODULE SWITCHED ETHERNET PROFINET	7KM9300-0AE00-0AA0	Siemens AG		
=TSI_LI+RM1-150U3	1	DP to DVI-D Adapter	6ES7648-3AF00-0XA0	Siemens AG		
=TSI_LI+RM1-150U4	1	SIMATIC IPC427E (Microbox PC)	6AG4141-5BG44-0FA0	Siemens AG		
=TSI_LI+RM1-150U4	1	Gigabit dual port network adapter (PCIe)	Intel I350T2v2 Server Adapter	Intel		
=TSI_LI+RM1-150U4	1	Vertical mounting kit	6ES7648-1AA20-0YP0	Siemens AG		
=TSI_LI+RM1-150U7	1	SITOP UPS500S SERVICE-FREE UNINTERRUPTIBLE POWER SUPPLY	6EP1933-2EC51	Siemens AG		
=TSI_LI+RM1-102X0	0					
=TSI_LI+RM1-102X0	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+RM1-102X1	0	'	,			
=TSI_LI+RM1-102X1	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+RM1-104X1	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+RM1-104X4	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+RM1-102XS4	1	SCHUKO SOCKET 16A 3-POLE	5TE6803	Siemens AG	Service socket	
=TSI_LI+RM1-102XS6	1	FrontCom, Single frame, Metal cover	IE-FC-SFM-KNOB	Weidmüller	Cabinet wall-mounted sockets	
	1			Weidmüller	=	
=TSI_LI+RM1-102XS6		FrontCom, Insert Power Jargo, Type F. Socket connector, DE	IE-FC-SP-PWB/2ST			
=TSI_LI+RM1-102XS6	1	FrontCom, Touch cafe protection (a.g. for codest inserts)	IE-FCI-PWB-DE	Weidmüller	=	
=TSI_LI+RM1-102XS6	1	FrontCom, Touch-safe protection (e.g. for socket inserts)	IE-FC-PWPC	Weidmüller	=	
=TSI_LI+RM1-102XS6	2	RJ45 plug-in connector, Bulkhead inserts coupler	IE-BI-RJ45-C	Weidmüller	=	
=TSI_LI+RM1-102XS6	1	Industrial Ethernet FastConnect RJ45 plug 180 2x 2	6GK1901-1BB10-2AB0	Siemens AG	=	
=TSI_LI+PANEL-150D0	1	SIMATIC IFP1900 PRO HD LR Flat Panel 19"	6AV7466-6MA02-0CS0	Siemens AG		
=TSI_LI+PANEL-150D0	1	EXTENSION UNIT 19"	6AV7674-0KH00-0AA0	Siemens AG		
=TSI_LI+PANEL-150U1	1	Keyboard with optical trackball	PERIBOARD-514H PLUS	Elvac		
=TSI_LI+MS2-202DI0	1 1	BASEUNIT TYPE A0, BU15-P16+A10+2D	6ES7193-6BP20-0DA0	Siemens AG		

Parts list

F0	1	М	ΕI	

Device tag	Quantity	Designation	Part number	Supplier	Function text	User notes
Device tag	Quartitity	Designation	T dit Humber	Зиррпсі	Tunction text	OSCI HOLES
=TSI_LI+MS2-202DI0	1	ET 200SP, EL-MOD., F-DI 8X24VDC HF	6ES7136-6BA00-0CA0	Siemens AG		
=TSI_LI+MS2-204DI0	1	BASEUNIT TYPE AO, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens AG		
=TSI_LI+MS2-204DI0	1	ET 200SP, DI 8X24VDC ST	6ES7131-6BF00-0BA0	Siemens AG		
=TSI_LI+MS2-205DI0	1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens AG		
=TSI_LI+MS2-205DI0	1	ET 200SP, DI 8X24VDC ST	6ES7131-6BF00-0BA0	Siemens AG		
=TSI_LI+MS2-207D00	1	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0	Siemens AG		
=TSI_LI+MS2-207D00	1	ET 200SP, DQ 8X24VDC/0,5A ST	6ES7132-6BF00-0BA0	Siemens AG		
=TSI_LI+MS2-201ET3	1	ET 200SP, IM155-6PN HF	6ES7155-6AU00-0CN0	Siemens AG		
=TSI_LI+MS2-201ET3	1	ET 200SP, Bus Adapter 2XRJ45	6ES7193-6AR00-0AA0	Siemens AG		
=TSI_LI+MS2-201ET3	2	Industrial Ethernet FastConnect RJ45 plug 180 2x 2	6GK1901-1BB10-2AB0	Siemens AG		
=TSI_LI+MS2-220ET2	1	ET 200SP, IM155-6PN HF	6ES7155-6AU00-0CN0	Siemens AG		
=TSI_LI+MS2-206FPM2	1	BASEUNIT TYP CO, BU20-P6+A2+4D	6ES7193-6BP20-0DC0	Siemens AG		
=TSI_LI+MS2-206FPM2	1	F-PM-E 24V DC/8A PPM ST	6ES7136-6PA00-0BC0	Siemens AG		
=TSI_LI+MS2-207K3	1	CONTACTOR, AC-3, 3KW/400V, 1NC, DC 24V,	3RT2015-1BB42	Siemens AG	Robot ON 1	
=TSI_LI+MS2-207K3	1	SURGE SUPPRESSOR, VARISTOR,	3RT2916-1BB00	Siemens AG	=	
=TSI_LI+MS2-207K4	1	CONTACTOR, AC-3, 3KW/400V, 1NC, DC 24V,	3RT2015-1BB42	Siemens AG	Robot ON 2	
=TSI_LI+MS2-207K4	1	SURGE SUPPRESSOR, VARISTOR,	3RT2916-1BB00	Siemens AG	=	
=TSI_LI+MS2-212LLT3	1	Laser line sensor scanControl 2950-100	LLT 2950-100	Micro-Epsilon		
=TSI_LI+MS2-202S0	1	EM. STOP MUSHROOM PUSHBUTTON, 40MM, RED	3SU1050-1HB20-0AA0	Siemens AG	Emergency stop (Measuring stand)	
=TSI_LI+MS2-202S0	1	CONTACT MODULE	3SU1400-1AA10-1EA0	Siemens AG	=	
=TSI_LI+MS2-202S0	1	HOLDER	3SU1550-0AA10-0AA0	Siemens AG	=	
=TSI_LI+MS2-202S0	1	BACKING PLATE FOR EMERGENSTOP	3SU1900-0BC31-0NB0	Siemens AG	=	
=TSI_LI+MS2-202S0	1	PROTECTIVE COLLAR FOR PADLOCKS	3SU1950-0DX30-0AA0	Siemens AG	=	
=TSI_LI+MS2-200U1	1	Enclosure with hinged door W/H/D: 300/600/155 mm	1578.500	Rittal		
=TSI_LI+MS2-210U3	1	Safety laser scanner	S30A-4011BA	SICK		
=TSI_LI+MS2-215U3	0					
=TSI_LI+MS2-201X2	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+MS2-210X4	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+MS2-212X3	1	End clamp with label	BS/35	WIELAND		
=TSI_LI+MS2-215X4	1	End clamp with label	BS/35	WIELAND		
				<u> </u>		

Summarized parts list

F02_001

Order number	Quantity	Description	Type number	Manufacturer	Unit price	Total price	Pos
Order Humber	Qualitity	Designation	Part number	Supplier	Offic price	rotal price	105
8005311	6	Y connector 2xM8 3-pin to 1xM12 4-pin	NEDY-L2R1-V1-M8G3-N-M12G4 NEDY-L2R1-V1-M8G3-N-M12G4	FESTO FESTO	0.00	0.00	
543861	12	Proximity Sensor NO	SME-8M-DS-24V-K-0,3-M8D SME-8M-DS-24V-K-0,3-M8D	FESTO FESTO	0.00	0.00	
1767880000	1	Sensor-actuator passive distributor, M12, Hood version	SAI-8-M 5P M12 ZF III SAI-8-M 5P M12 ZF III	Weidmüller Weidmüller	0.00	0.00	
9457550000	1	Round plug-in connector M12, Screw connection, Straight	SAIS-4/7 SAIS-4/7	Weidmüller Weidmüller	0.00	0.00	
	0					0.00	
9000-41034-0401000	2	Electronic Current Monitoring	Mico+ 4.10 9000-41034-0401000	Murr Murr	0.00	0.00	
6ES7193-6BP20-0BA0	6	BASEUNIT TYPE A0, BU15-P16+A10+2B	6ES7193-6BP20-0BA0 6ES7193-6BP20-0BA0	SIE SIE	0.00	0.00	
6ES7134-6JD00-0CA1	1	ET 200SP, AI 4XRTD/TC 2-/3-/4-WIRE HF	6ES7134-6JD00-0CA1 6ES7134-6JD00-0CA1	SIE SIE	0.00	0.00	
6ES7193-6SC00-1AM0	pcs 1	SIMATIC ET 200SP, shield terminal and shield support	6ES7193-6SC00-1AM0 6ES7193-6SC00-1AM0	SIE SIE	0.00	0.00	
Pt100-3	1	Temperature sensors	Pt100-3 Pt100-3	ELKO EP ELKO EP	0.00	0.00	
6ES7193-6BP20-0DA0	2	BASEUNIT TYPE A0, BU15-P16+A10+2D	6ES7193-6BP20-0DA0 6ES7193-6BP20-0DA0	SIE SIE	0.00	0.00	
6ES7136-6BA00-0CA0	2	ET 200SP, EL-MOD., F-DI 8X24VDC HF	6ES7136-6BA00-0CA0 6ES7136-6BA00-0CA0	SIE SIE	0.00	0.00	
6ES7131-6BF00-0BA0	4	ET 200SP, DI 8X24VDC ST	6ES7131-6BF00-0BA0 6ES7131-6BF00-0BA0	SIE SIE	0.00	0.00	
6ES7155-6AU00-0CN0	4	ET 200SP, IM155-6PN HF	6ES7155-6AU00-0CN0 6ES7155-6AU00-0CN0	SIE SIE	0.00	0.00	
6ES7193-6AR00-0AA0	3	ET 200SP, Bus Adapter 2XRJ45	6ES7193-6AR00-0AA0 6ES7193-6AR00-0AA0	SIE SIE	0.00	0.00	
6GK1901-1BB10-2AB0	pcs 5	Industrial Ethernet FastConnect RJ45 plug 180 2x 2	6GK1901-1BB10-2AB0 6GK1901-1BB10-2AB0	SIE SIE	9.52	95.20	
5SY6301-7	1	CIRCUIT BREAKER 400V 6KA, 3-POLE, C, 1A, D=70MM	5SY6301-7 5SY6301-7	Siemens AG Siemens AG	0.00	0.00	
5ST3010	7	AUXILIARY SWITCH MOUNT. 1NC+1NO	5ST3010 5ST3010	Siemens AG Siemens AG	0.00	0.00	
5ST3616	2	Pin busbar, 10 mm2 connection: 2x (3-phase+AUX/FS) touch-safe	5ST3616 5ST3616	Siemens AG Siemens AG	0.00	0.00	

001_TSI_LI_development_DP

URK FEI

Ilkovicova 3
841 01 Bratislava / Slovakia

STU
FEI

Summarized parts list

F02_001

Order number	Quantity	Description	Type number	Manufacturer	Unit price	Total price	Pos
Order Humber	Qualitity	Designation	Part number	Supplier	Offic price	rotal price	105
5SY6332-6	1	CIRCUIT BREAKER 400V 6KA, 3-POLE, B,32A, D=70MM	5SY6332-6 5SY6332-6	Siemens AG Siemens AG	0.00	0.00	
3RV2031-4UA10	2	CIRCUIT BREAKER, SCREW-TYPE, 25 A	3RV2031-4UA10 3RV2031-4UA10	SIE SIE	0.00	0.00	
3RV29011A	pcs 2	LATERAL AUXILIARY SWITCH 1NO+1NC, SCREW CONNECTION,	3RV2901-1A 3RV2901-1A	Siemens AG Siemens AG	0.00	0.00	
5SY6101-7	1	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 1A, D=70MM	5SY6101-7 5SY6101-7	Siemens AG Siemens AG	0.00	0.00	
5ST3603	4	Pin busbar, 10 mm2 connection: 2x (1-phase+AUX/FS) touch-safe	5ST3603 5ST3603	Siemens AG Siemens AG	0.00	0.00	
5SY6110-7	2	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	5SY6110-7 5SY6110-7	Siemens AG Siemens AG	0.00	0.00	
5SY6104-7	1	CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 4A, D=70MM	5SY6104-7 5SY6104-7	Siemens AG Siemens AG	0.00	0.00	
5SY6310-7	1	CIRCUIT BREAKER 400V 6KA, 3-POLE, C, 10A, D=70MM	5SY6310-7 5SY6310-7	Siemens AG Siemens AG	0.00	0.00	
6EP13343BA10	1	SITOP PSU200M 10 A STABILIZED POWER SUPPLY	6EP1334-3BA10 6EP1334-3BA10	Siemens AG Siemens AG	0.00	0.00	
3SU1156-6AA60-1AA0	1	INDICATOR LIGHT, WHITE	3SU1156-6AA60-1AA0 3SU1156-6AA60-1AA0	Siemens AG Siemens AG	0.00	0.00	
3SU1900-0AT10-0AA0	1	LABEL HOLDER 27x27mm	3SU1900-0AT10-0AA0 3SU1900-0AT10-0AA0	Siemens AG Siemens AG	0.00	0.00	
SZ 2500.300	1	Universal light with integral motion detector	SZ 2500.300 SZ 2500.300	Rittal Rittal	0.00	0.00	
6GK52080BA102AA3	2	SCALANCE X208, MANAGED IE SWITCH, 8 X 10/100MBIT/S RJ45 PORTS	6GK5208-0BA10-2AA3 6GK5208-0BA10-2AA3	Siemens AG Siemens AG	0.00	0.00	
93057	3	Current measuring transformer 75/5A; 3,75VA	ASR 21.5 ASR 21.5	MBS Rotex	0.00	0.00	
8805.500	1	Electrical cabinet / Mounting panel	8805.500 8805.500	Rittal Rittal	0.00	0.00	
13886522055	1	Cooling unit 2500 W, 400/460V, 50/60Hz	DTS6501 DTS6501	Pfannenberg Elektris	0.00	0.00	
6ES7518-4FP00-4AB0	1	CPU 1516F-3 PN/DP, 1.5 MB PROG, 5 MB DATA	6ES7516-3FN02-0AB0 6ES7516-3FN02-0AB0(1)	Siemens AG Siemens AG	0.00	0.00	
3LD2504-0TK53	1	EM.STOP SWITCH 63A/690V 400V/22KW	3LD2504-0TK53 3LD2504-0TK53	Siemens AG Siemens AG	0.00	0.00	
5SV3311-6	4	RCCB TYPE A 16/2 30MA 2MW	5SV3311-6 5SV3311-6	Siemens AG Siemens AG	0.00	0.00	

001_TSI_LI_development_DP

URK FEI
Ilkovicova 3
841 01 Bratislava / Slovakia

Summarized parts list

F02_001

Order number	Quantity	Description	Type number	Manufacturer	Unit price	Total price	Pos
C.GC Hambel	Quantity	Designation	Part number	Supplier	Unit price	Total price	POS
SZ 4315.520	1	Door-operated switch with 0.6m cable	SZ 4315.520 SZ 4315.520	Rittal Rittal	0.00	0.00	
3SU1050-1HB20-0AA0	2	EM. STOP MUSHROOM PUSHBUTTON, 40MM, RED	3SU1050-1HB20-0AA0 3SU1050-1HB20-0AA0	Siemens AG Siemens AG	0.00	0.00	
3SU1400-1AA10-1EA0	2	CONTACT MODULE	3SU1400-1AA10-1EA0 3SU1400-1AA10-1EA0	Siemens AG Siemens AG	0.00	0.00	
3SU1550-0AA10-0AA0	2	HOLDER	3SU1550-0AA10-0AA0 3SU1550-0AA10-0AA0	Siemens AG Siemens AG	0.00	0.00	
3SU1900-0BC31-0NB0	2	BACKING PLATE FOR EMERGENSTOP	3SU1900-0BC31-0NB0 3SU1900-0BC31-0NB0	Siemens AG Siemens AG	0.00	0.00	
3SU1950-0DX30-0AA0	2	PROTECTIVE COLLAR FOR PADLOCKS	3SU1950-0DX30-0AA0 3SU1950-0DX30-0AA0	SIE SIE	0.00	0.00	
6SL3100-0BE23-6AB0	ST 1	SINAMICS S120 AIM 400V 36KW	6SL3100-0BE23-6AB0 6SL3100-0BE23-6AB0	SIE SIE	0.00	0.00	
6SL3130-7TE23-6AA3	ST 1	SINAMICS S120 ACTIVE LINE MODULE 60A, 36KW	6SL3130-7TE23-6AA3 6SL3130-7TE23-6AA3	SIE SIE	0.00	0.00	
6SL3040-1MA01-0AA0	ST 1	SINAMICS S120 CONTROL UNIT CU320-2 PN	6SL3040-1MA01-0AA0 6SL3040-1MA01-0AA0	Siemens AG Siemens AG	0.00	0.00	
6SL3054-0FB01-1BA0	1	SINAMICS S120 COMPACTFLASH CARD V5.1	6SL3054-0FB01-1BA0 6SL3054-0FB01-1BA0	Siemens AG Siemens AG	0.00	0.00	
6SL3055-0AA00-4BA0	1	SINAMICS S120 BASIC OPERATOR PANEL (BOP20)	6SL3055-0AA00-4BA0 6SL3055-0AA00-4BA0	Siemens AG Siemens AG	0.00	0.00	
6SL3120-1TE13-0AD0	ST 1	SINAMICS S120 SINGLE MOMO 3A D-TYPE	6SL3120-1TE13-0AD0 6SL3120-1TE13-0AD0	SIE SIE	0.00	0.00	
7KM2111-1BA00-3AA0	1	SENTRON PAC3200 POWER MONITORING DEVICE	7KM2111-1BA00-3AA0 7KM2111-1BA00-3AA0	Siemens AG Siemens AG	0.00	0.00	
7KM9300-0AE00-0AA0	1	PLUG-IN COMMUNICATIONS MODULE SWITCHED ETHERNET PROFINET	7KM9300-0AE00-0AA0 7KM9300-0AE00-0AA0	Siemens AG Siemens AG	0.00	0.00	
6ES7648-3AF00-0XA0	1	DP to DVI-D Adapter	6ES7648-3AF00-0XA0 6ES7648-3AF00-0XA0	Siemens AG Siemens AG	0.00	0.00	
6AG4141-5BG44-0FA0	1	SIMATIC IPC427E (Microbox PC)	6AG4141-5BG44-0FA0 6AG4141-5BG44-0FA0	Siemens AG Siemens AG	0.00	0.00	
I350T2V2	1	Gigabit dual port network adapter (PCIe)	Intel I350T2v2 Intel I350T2v2 Server Adapter	Intel Intel	0.00	0.00	
6ES7648-1AA20-0YP0	1	Vertical mounting kit	6ES7648-1AA20-0YP0 6ES7648-1AA20-0YP0	Siemens AG Siemens AG	0.00	0.00	
6EP19332EC51	1	SITOP UPS500S SERVICE-FREE UNINTERRUPTIBLE POWER SUPPLY	6EP1933-2EC51 6EP1933-2EC51	Siemens AG Siemens AG	0.00	0.00	

001_TSI_LI_development_DP

JRK FEI	•	•	•	•	STU
Ikovicova 3					
341 01 Bratislava / Slovakia	•	•	•	•	FEI

Order number	Quantity	Description Designation	Type number Part number	Manufacturer Supplier	Unit price	Total price	Pos
69.920.0553.0	pcs 8	End clamp with label	BS/35 BS/35	Wieland Wieland	0.00	0.00	
5TE6803	1	SCHUKO SOCKET 16A 3-POLE	5TE6803 5TE6803	Siemens AG Siemens AG	0.00	0.00	
1450530000	1	FrontCom, Single frame, Metal cover	IE-FC-SFM-KNOB IE-FC-SFM-KNOB	Weidmüller Weidmüller	0.00	0.00	
1450550000	1	FrontCom, Insert plate, shielded, 1x Power, 2x data	IE-FC-SP-PWB/2ST IE-FC-SP-PWB/2ST	Weidmüller Weidmüller	0.00	0.00	
1450730000	1	FrontCom, Insert Power large, Type F, Socket connector, DE	IE-FCI-PWB-DE IE-FCI-PWB-DE	Weidmüller Weidmüller	0.00	0.00	
1450820000	1	FrontCom, Touch-safe protection (e.g. for socket inserts)	IE-FC-PWPC IE-FC-PWPC	Weidmüller Weidmüller	0.00	0.00	
1962840000	2	RJ45 plug-in connector, Bulkhead inserts coupler	IE-BI-RJ45-C IE-BI-RJ45-C	Weidmüller Weidmüller	0.00	0.00	
6AV7466-6MA02-0CS0	1	SIMATIC IFP1900 PRO HD LR Flat Panel 19"	6AV7466-6MA02-0CS0 6AV7466-6MA02-0CS0	Siemens AG Siemens AG	0.00	0.00	
6AV7674-0KH00-0AA0	pcs 1	EXTENSION UNIT 19"	6AV7674-0KH00-0AA0 6AV7674-0KH00-0AA0	SIE SIE	0.00	0.00	
PERIBOARD-514H PLUS	1	Keyboard with optical trackball	PERIBOARD-514H PLUS PERIBOARD-514H PLUS	Perixx Elvac	0.00	0.00	
6ES7132-6BF00-0BA0	1	ET 200SP, DQ 8X24VDC/0,5A ST	6ES7132-6BF00-0BA0 6ES7132-6BF00-0BA0	SIE SIE	0.00	0.00	
6ES7193-6BP20-0DC0	1	BASEUNIT TYP CO, BU20-P6+A2+4D	6ES7193-6BP20-0DC0 6ES7193-6BP20-0DC0	Siemens AG Siemens AG	0.00	0.00	
6ES7136-6PA00-0BC0	1	F-PM-E 24V DC/8A PPM ST	6ES7136-6PA00-0BC0 6ES7136-6PA00-0BC0	Siemens AG Siemens AG	0.00	0.00	
3RT2015-1BB42	2	CONTACTOR, AC-3, 3KW/400V, 1NC, DC 24V,	3RT2015-1BB42 3RT2015-1BB42	SIE SIE	0.00	0.00	
3RT29161BB00	pcs 2	SURGE SUPPRESSOR, VARISTOR,	3RT2916-1BB00 3RT2916-1BB00	Siemens AG Siemens AG	0.00	0.00	
scanControl 2950-100	1	Laser line sensor scanControl 2950-100	LLT 2950-100 LLT 2950-100	Micro-Epsilon Micro-Epsilon	0.00	0.00	
1578.500	1	Enclosure with hinged door W/H/D: 300/600/155 mm	1578.500 1578.500	RITTAL RITTAL	0.00	0.00	
1028934	1	Safety laser scanner	S30A-4011BA S30A-4011BA	SICK SICK	0.00	0.00	

001_TSI_LI_development_DP

150U4 -115PLC3 151HUB3 151HUB5 121DI0 123DI0 124DI0 125AI0 104A1 104A3 **■** -110T2 -106T2 � �

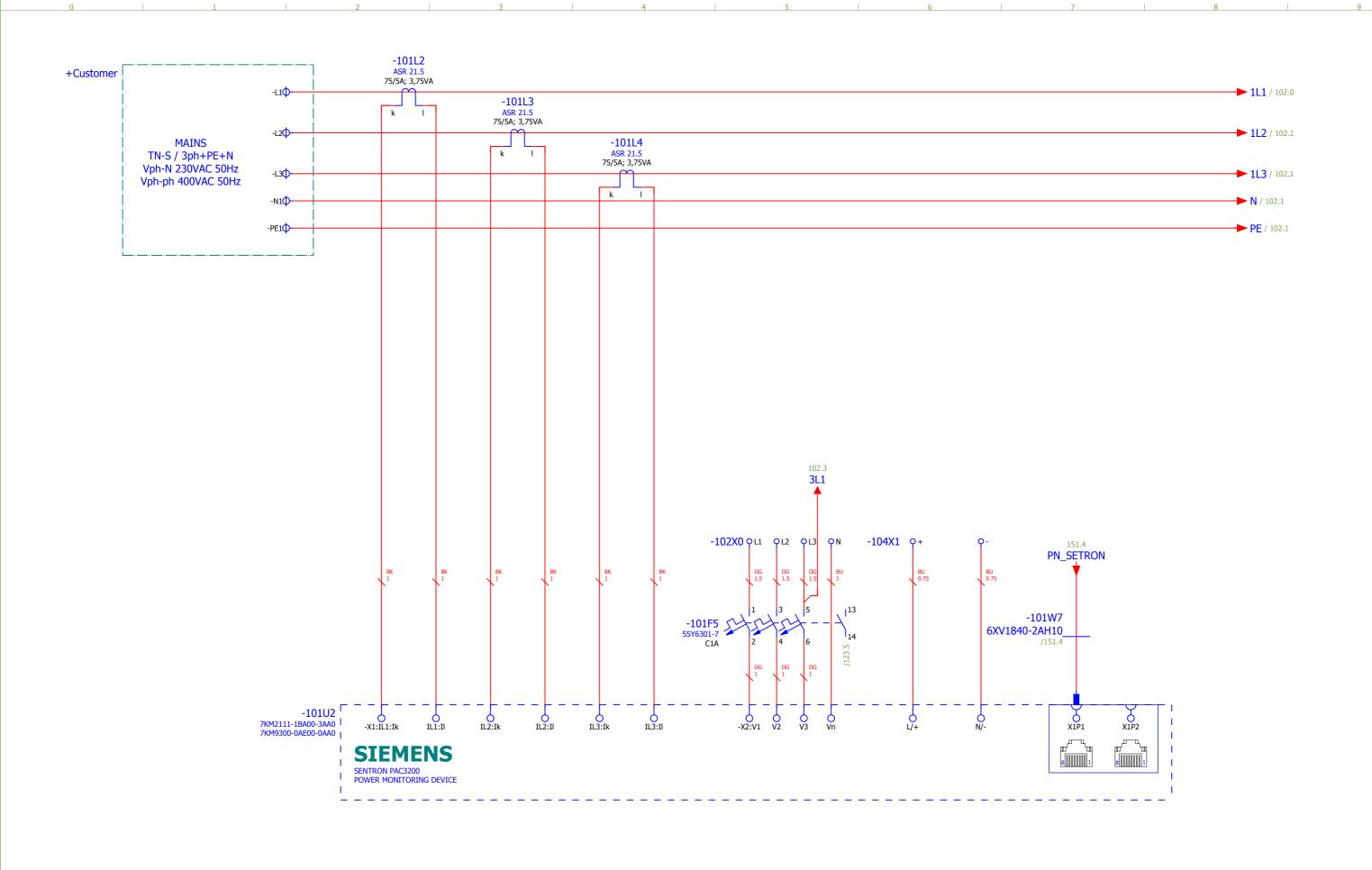
Previous page =+/5.c Next page 101

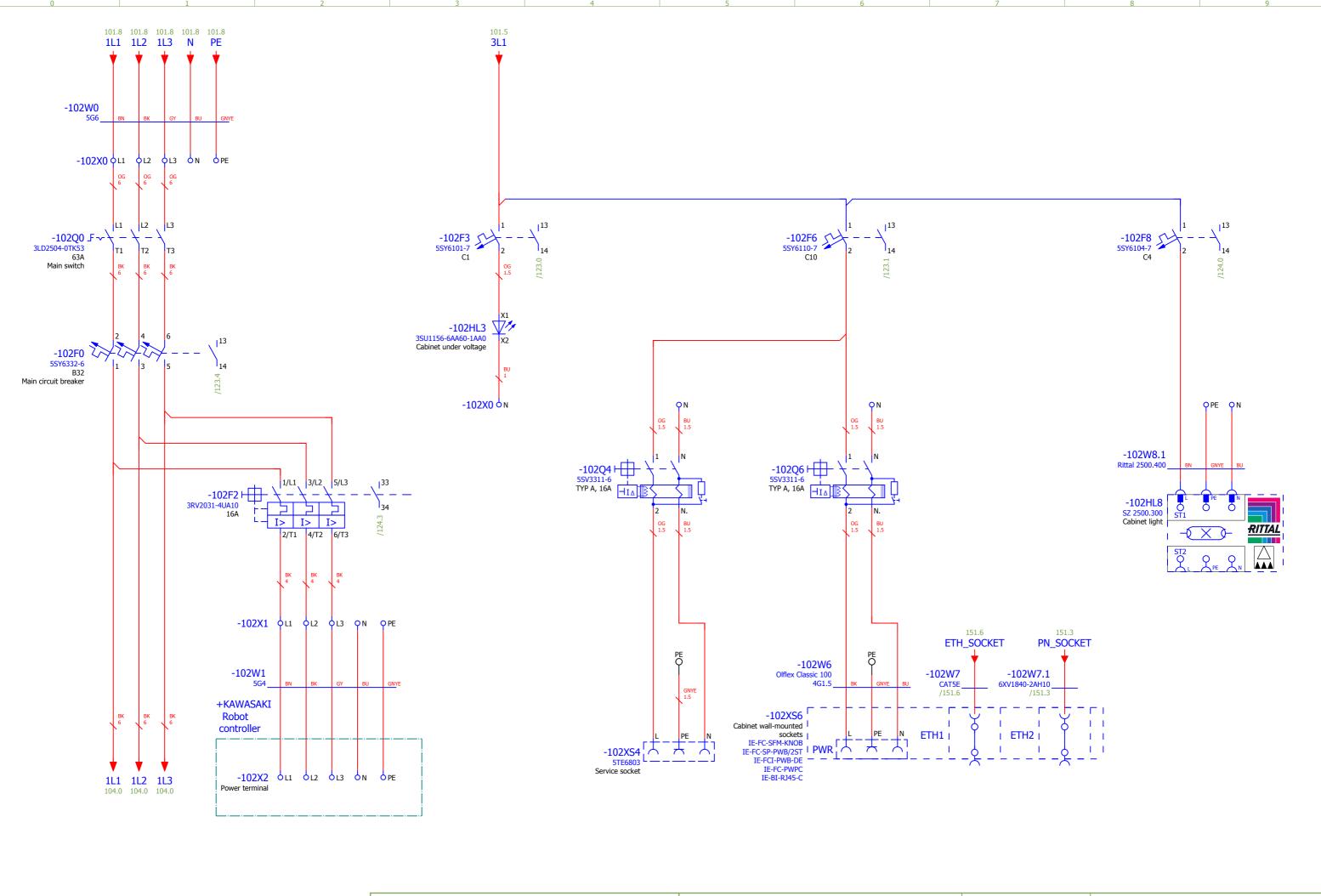
100

URK FEI Ilkovicova 3 841 01 Bratislava / Slovakia STU FEI

PATRIK HERCUT

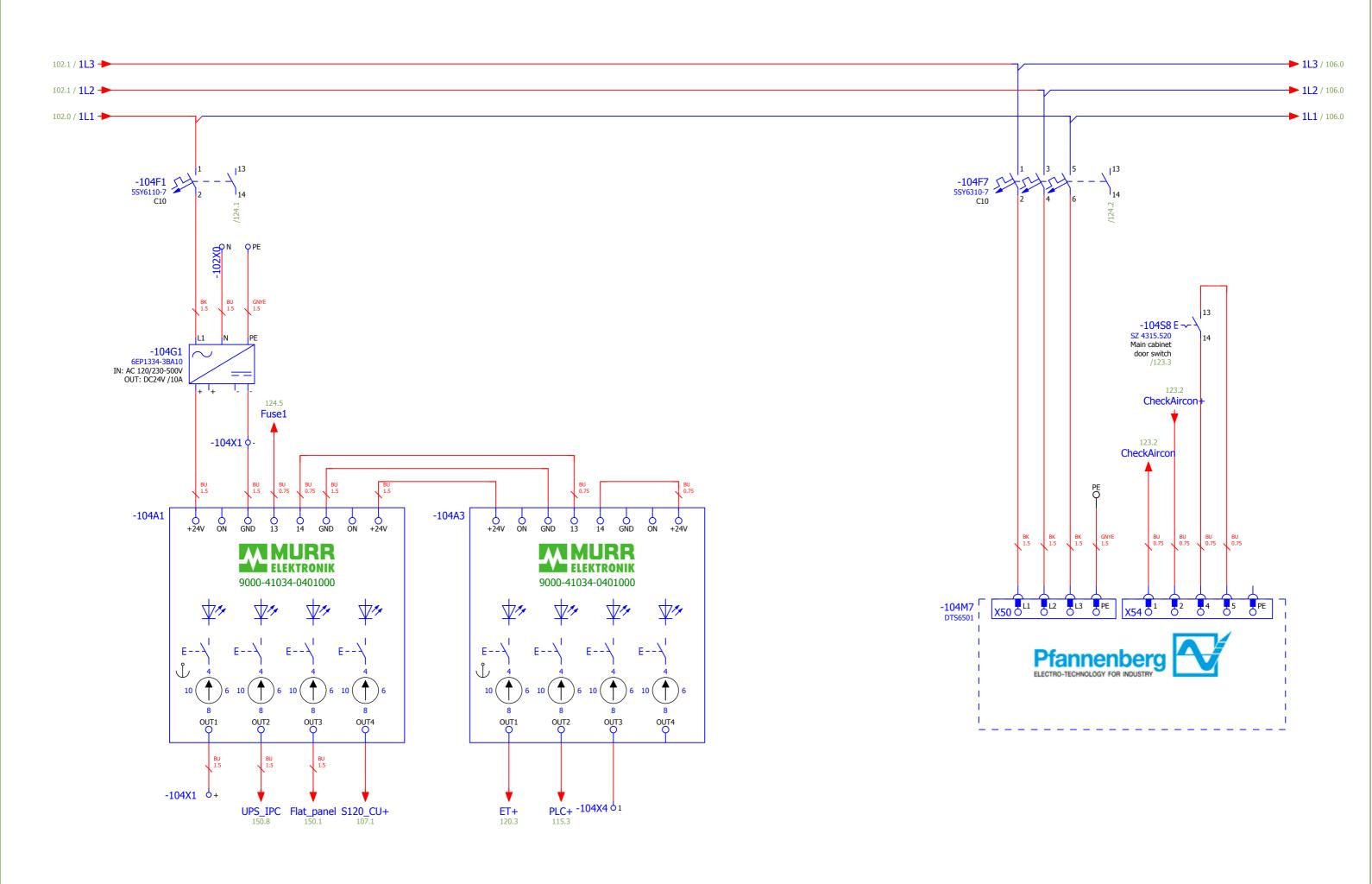
Changed by





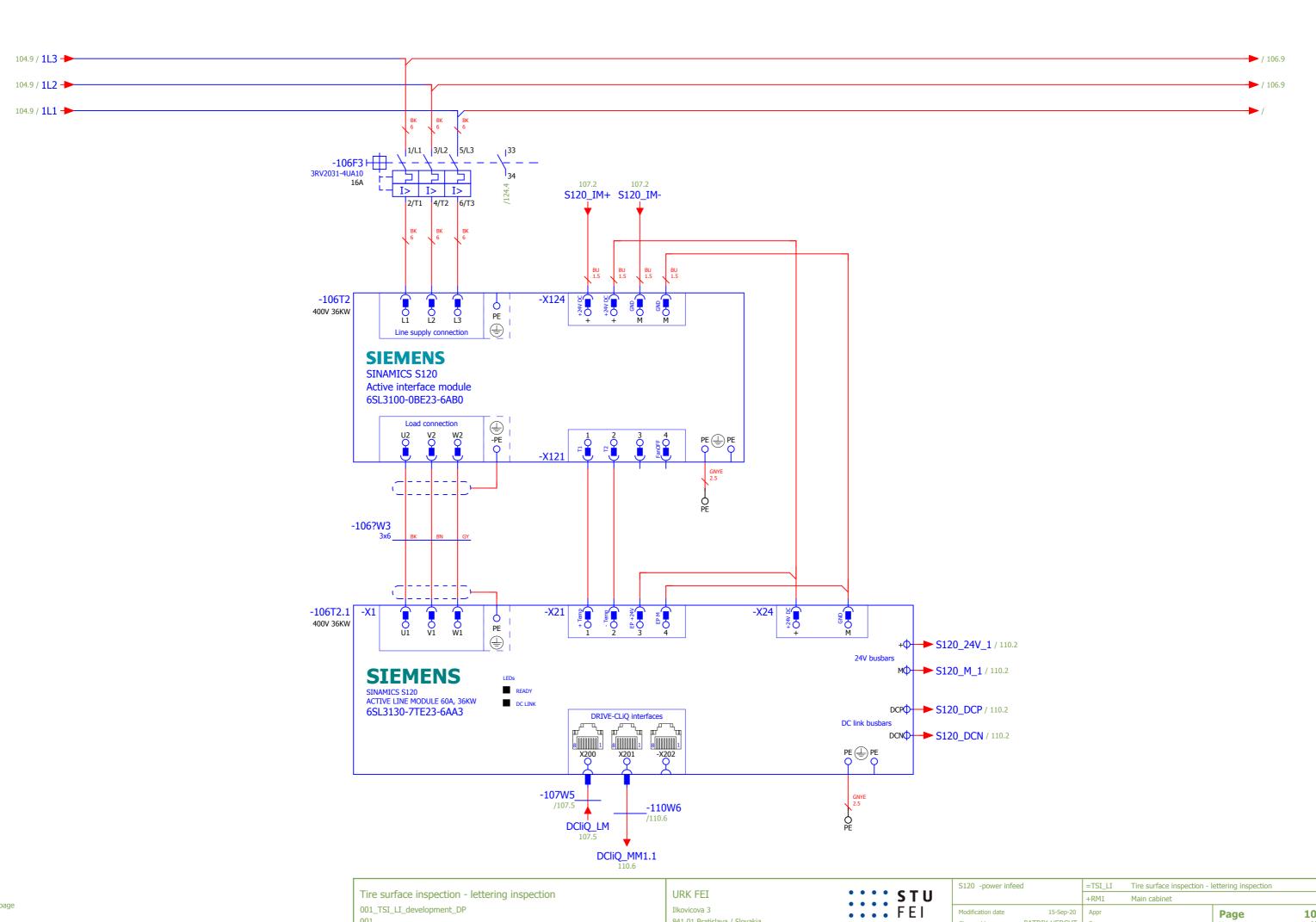
URK FEI

Ilkovicova 3



URK FEI

Ilkovicova 3



Ilkovicova 3

841 01 Bratislava / Slovakia

Modification date

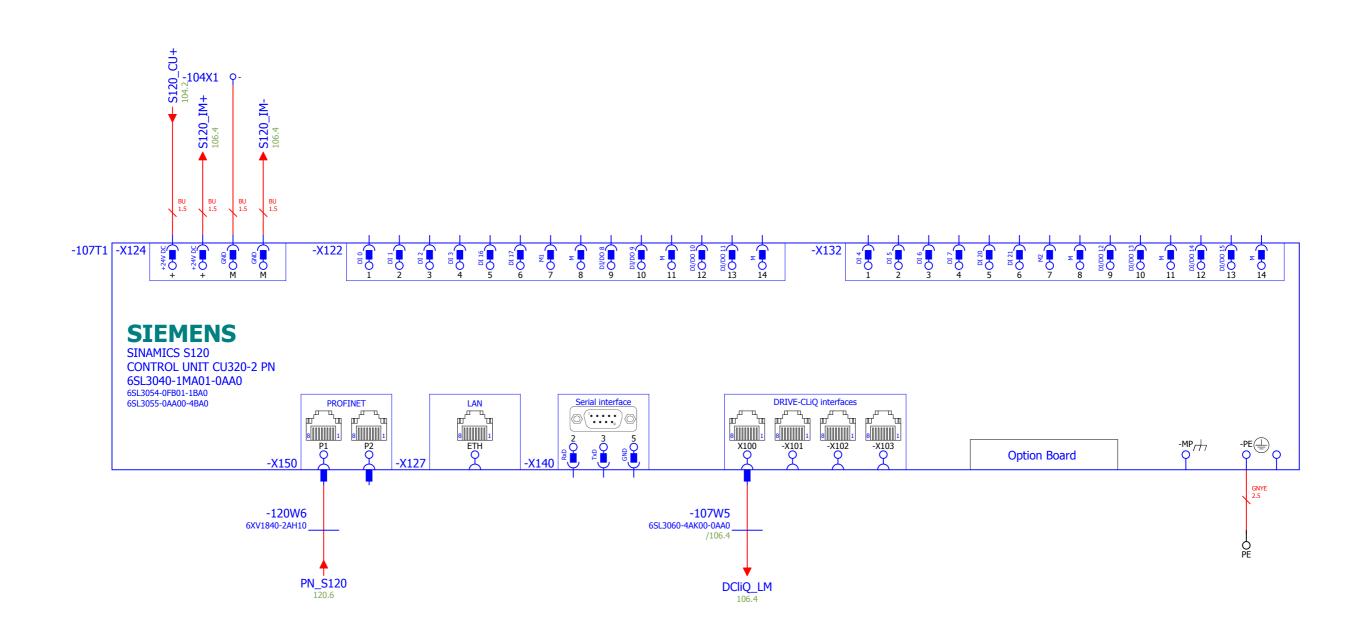
15-Sep-20

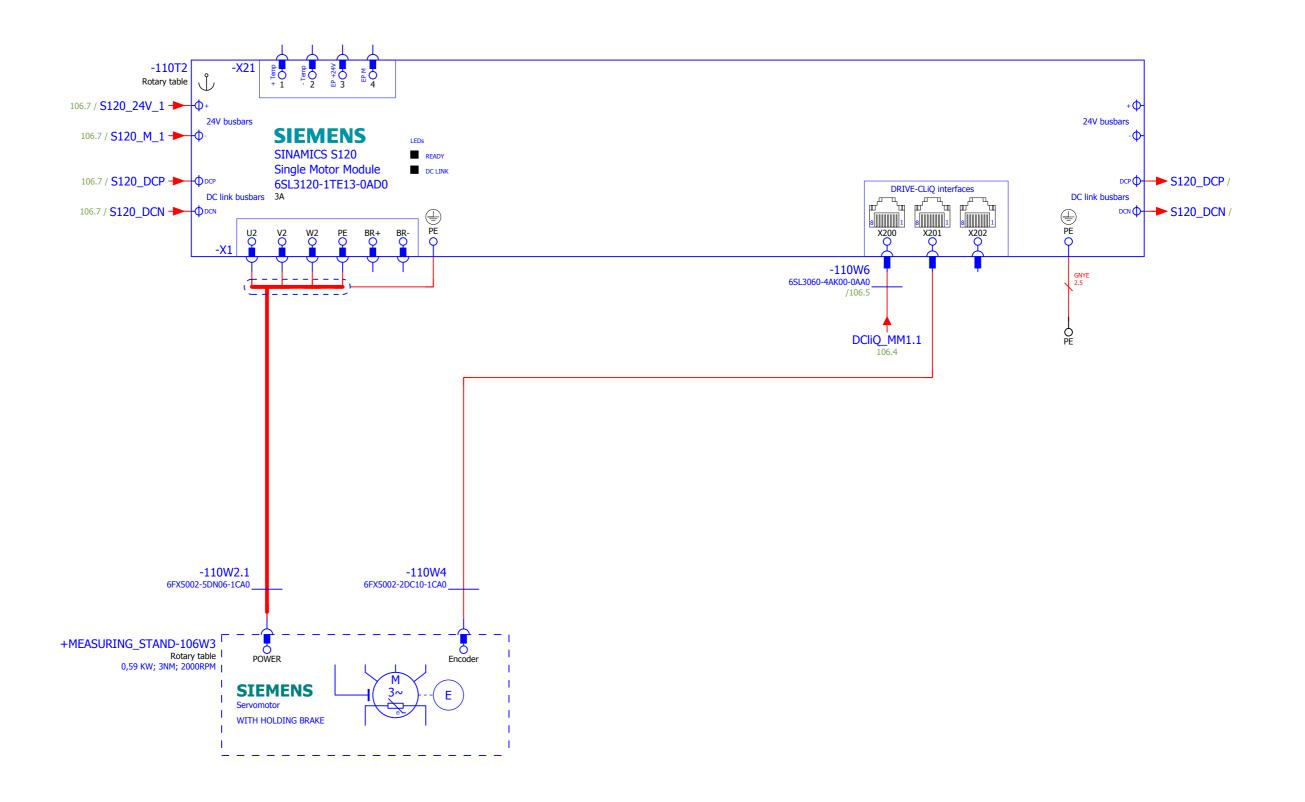
PATRIK HERCUT

Page

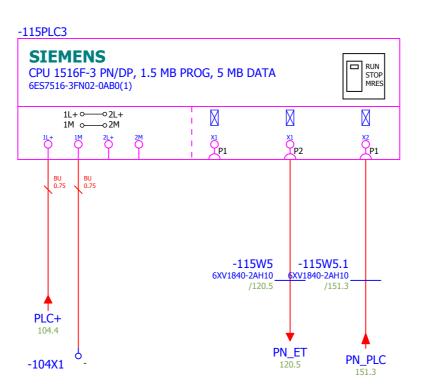
106

 $001_TSI_LI_development_DP$









-120ET3 **SIEMENS** ET 200SP, Bus Adapter 2XRJ45 6ES7193-6AR00-0AA0 ET 200SP, IM155-6PN HF 6ES7155-6AU00-0CN0 X PN P2 BU 0.75 BU BU 0.75 -115W5 6XV1840-2AH10_ /115.5 -120W6 6XV1840-2AH10_ LG1+ 121.8 ET+ 104.3 **LG1**-PN_ET 115.5 PN_S120 107.2 -120X3

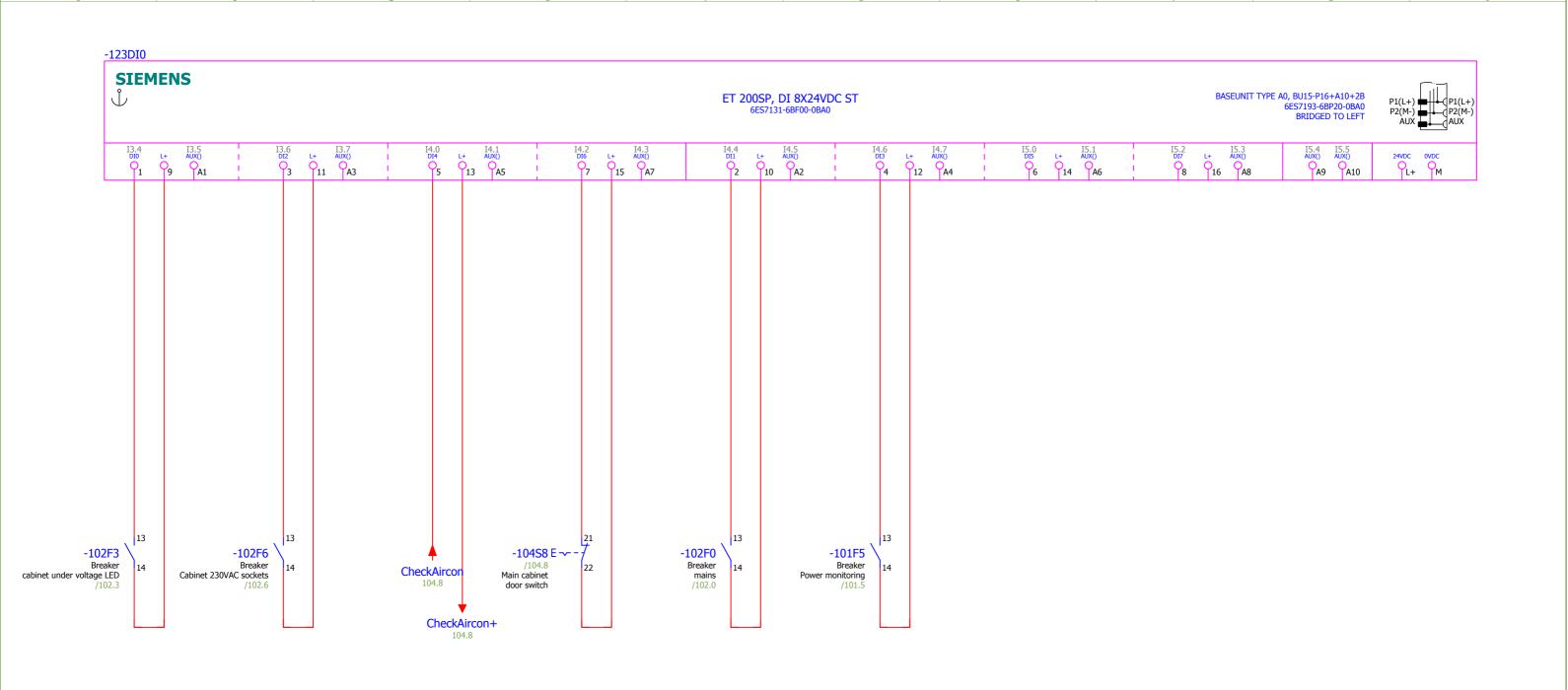


-121S0 3SU1050-1HB20-0AA0 Emergency stop1 (Main cabinet)

12

11

21 /



URK FEI

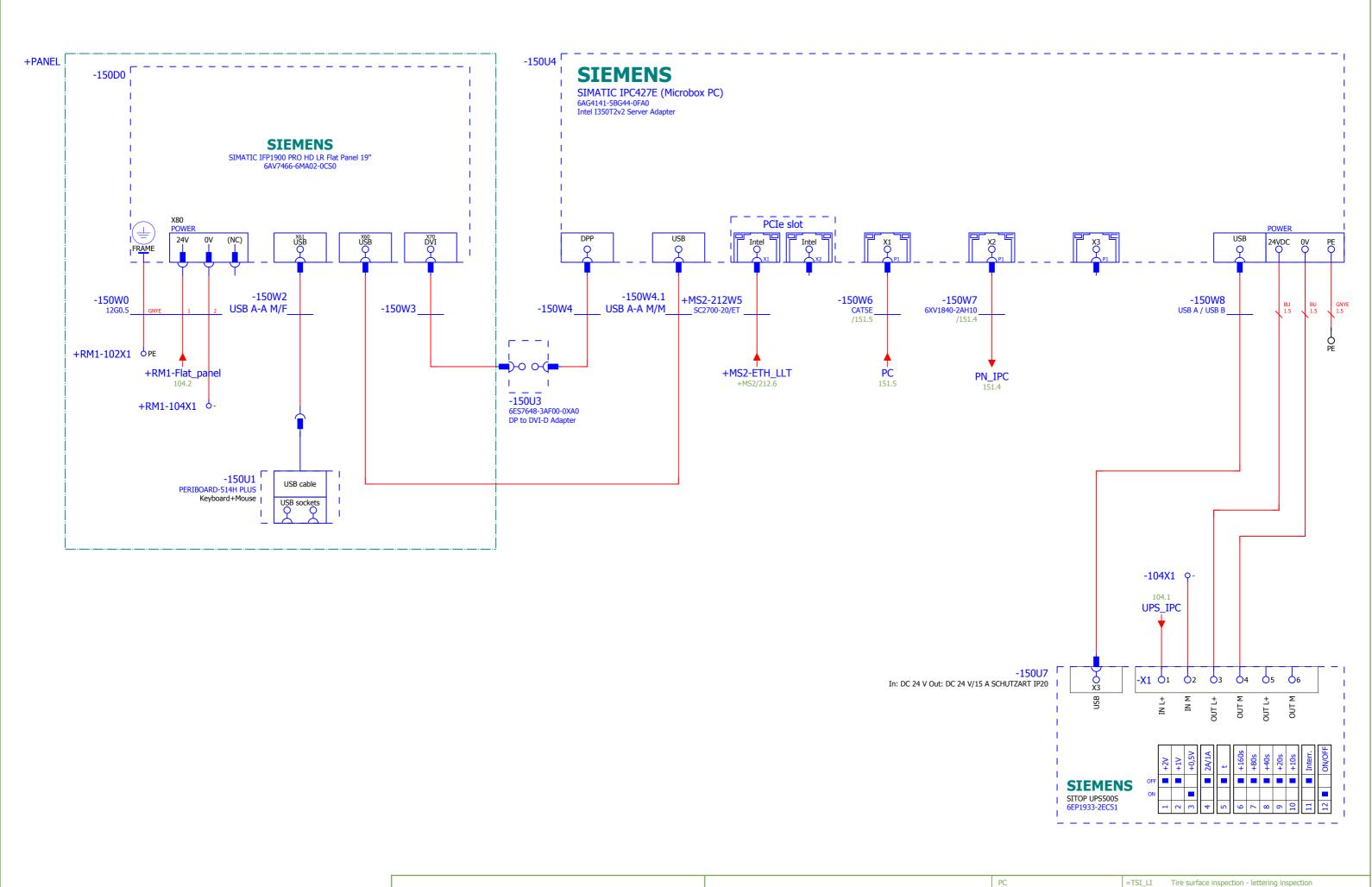
Ilkovicova 3

-124DI0 **SIEMENS** P1(L+) P2(M-) AUX BASEUNIT TYPE A0, BU15-P16+A10+2B 6ES7193-6BP20-0BA0 BRIDGED TO LEFT ET 200SP, DI 8X24VDC ST 6ES7131-6BF00-0BA0 17.6 AUX() A9 17.7 AUX() A10 I6.3 AUX() A5 I6.1 AUX() A3 I6.2 DI4 O 5 17.3 AUX() AG I7.4 DI7 O8 I6.5 AUX() A7 I6.7 AUX() A2 13 10 16 L+ O 14 L+ O 11 L+ O 15 L+ O 12 24VDC 0VDC 13 13 33 33 -104F1 -106F3 -102F8 -104F7 -102F2 Breaker Cabinet lights /102.8 Breaker Aircondition /104.7 Motor prot. \$120 /102.2 Motor prot. \$120 /106.3 Breaker Fuse1 104.2 VDC power /104.1

URK FEI

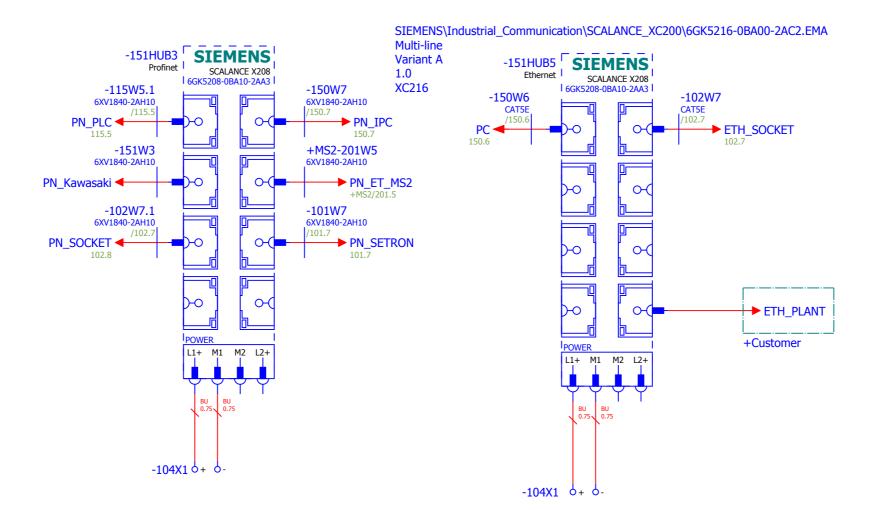
Ilkovicova 3





URK FEI

Ilkovicova 3



001

Networks

Modification date

=TSI_LI

+RM1

23-Oct-20

PATRIK HERCUT

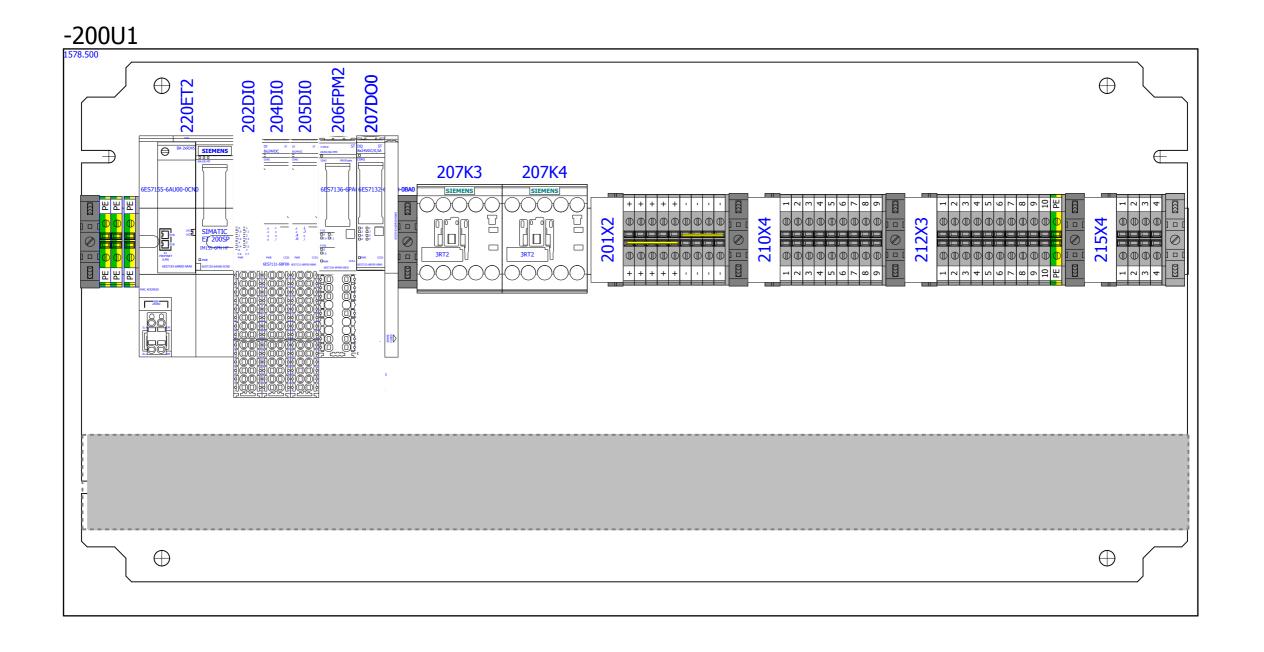
Tire surface inspection - lettering inspection

Page Next page

151 +MS2/200

Main cabinet

MS2 Electrobox on TSI stand



URK FEI

-201ET3 **SIEMENS** ET 200SP, Bus Adapter 2XRJ45 6ES7193-6AR00-0AA0 ET 200SP, IM155-6PN HF 6ES7155-6AU00-0CN0 X X PN P2 PN P1 -201W5 6XV1840-2AH10_ -201X3 \$\dagger 1 \quad \quad 2 O PE LG1+ 202.8 -201W3 ÖLFLEX® CLASSIC 110 5G0.75 **LG1**- 202.9 +RM1-PN_ET_MS2 +RM1/151.4 O PE +RM1-201X3 01 02 +RM1-201X4 01

URK FEI

Ilkovicova 3

Tire surface inspection - lettering inspection 001_TSI_LI_development_DP 001

STU FEI 841 01 Bratislava / Slovakia

PLC		=TSI_LI	Tire surface inspection - lettering inspection				
		+MS2	Electrobox on TSI stand				
Modification date	16-Sep-20	Appr		Page	201		
Changed by	PATRIK HERCUT	Form		Next page	202		

-202DI0 **SIEMENS** P1(L+) (P2(M-) (AUX BASEUNIT TYPE A0, BU15-P16+A10+2D 6ES7193-6BP20-0DA0 NEW LOADGROUP ET 200SP, EL-MOD., F-DI 8X24VDC HF 6ES7136-6BA00-0CA0 I8.4 DI4 I9.0 DI1 O2 I9.2 DI3 I8.2 DI2 O3 I10.0 I10.1 AUX() AUX() A9 A1 Vs2 Vs1 I8.7 AUX() Vs5 Vs0 Og Vs4 AUX() 13 A5 Vs6 AUX() 15 A7 Vs3 AUX() 12 A4 Vs7 0 16 O_{A3} O_{A10} O_{A1} O_{A2} Q_{A6} O_{A8} P_{L+} Q_{M} **LG1+** 201.4 **LG1-** 201.5 -207K3 -207K4 /207.4 21 Robot ON 2 NC /207.3 121 Robot ON 1 NC SICK2 210.4 SICK1 210.4 -202W0 5G0.5 21 / -202S0 3SU1050-1HB20-0AA0 Emergency stop (Measuring stand)

URK FEI

Ilkovicova 3

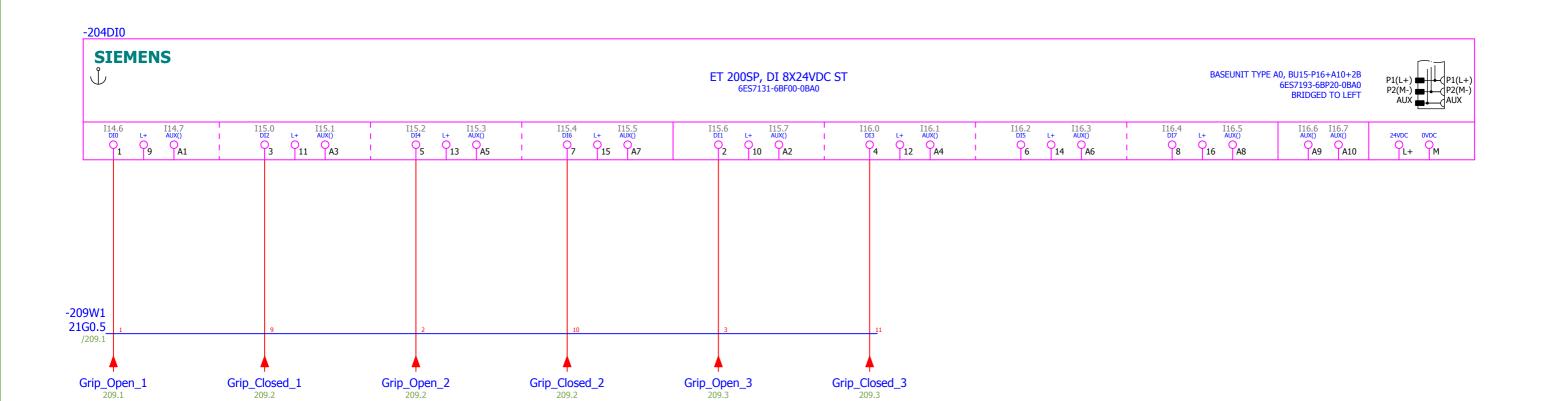
841 01 Bratislava / Slovakia

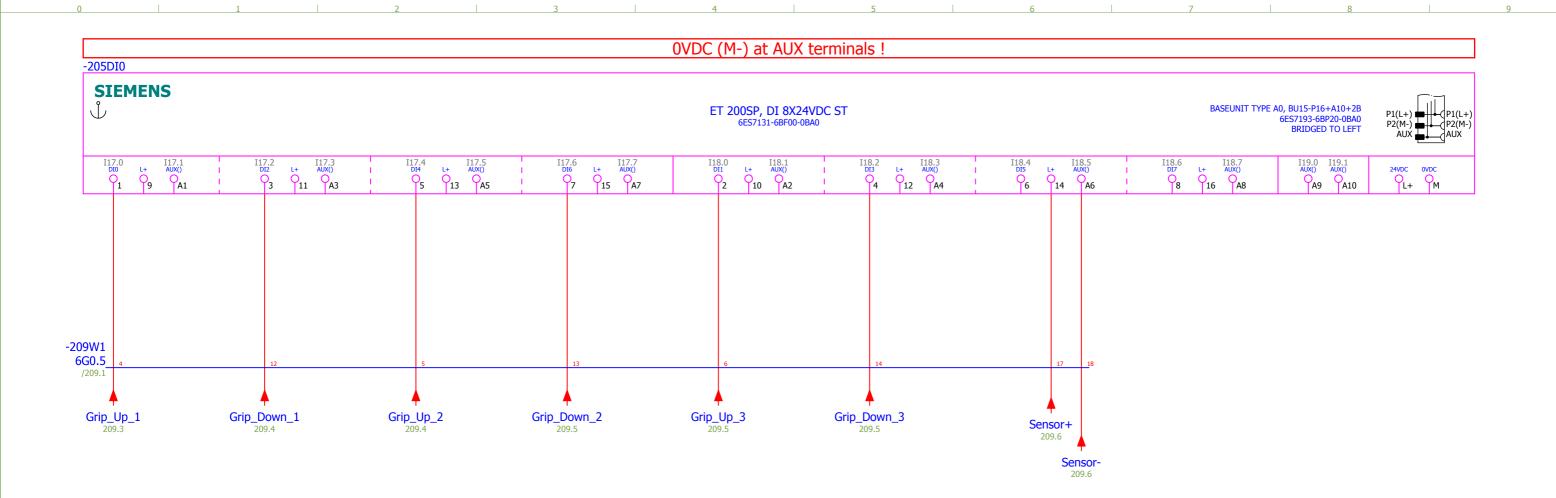
Tire surface inspection - lettering inspection

001_TSI_LI_development_DP

001

STU FEI

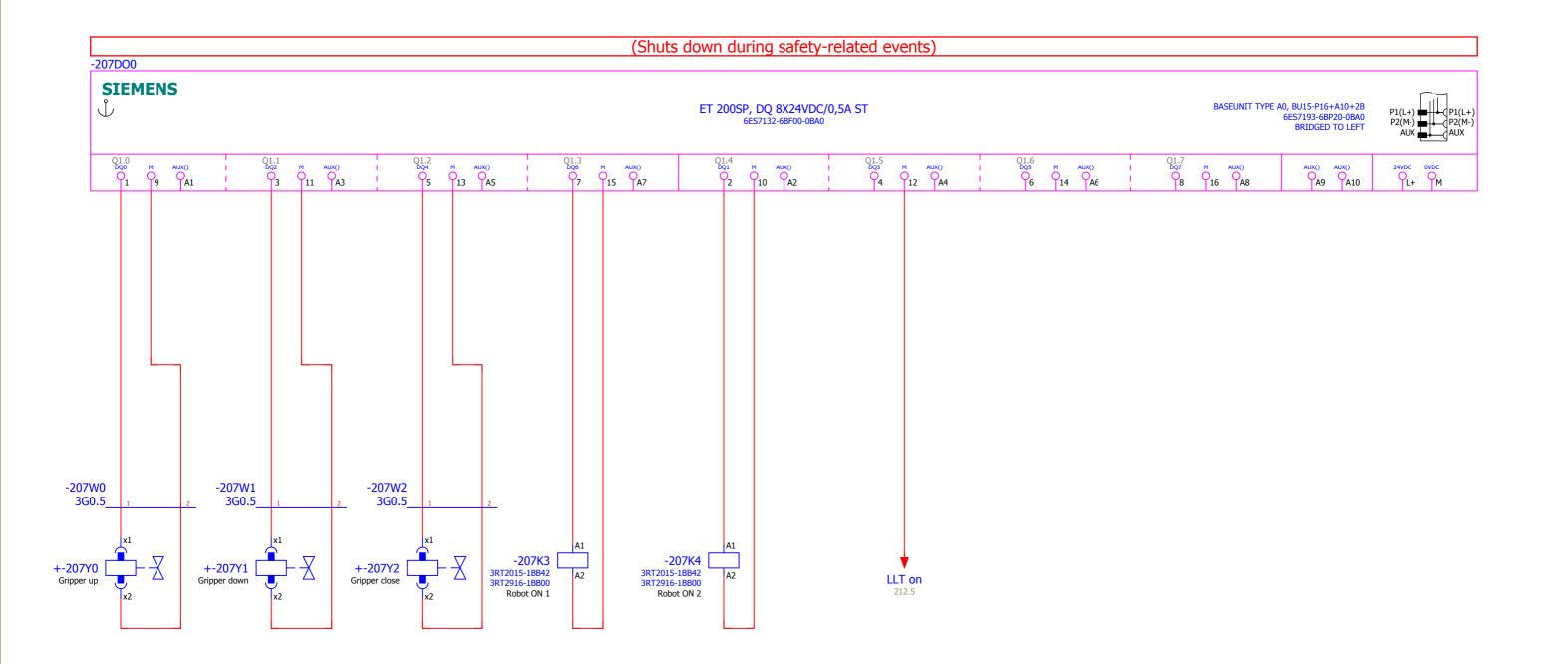


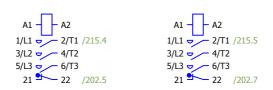


URK FEI

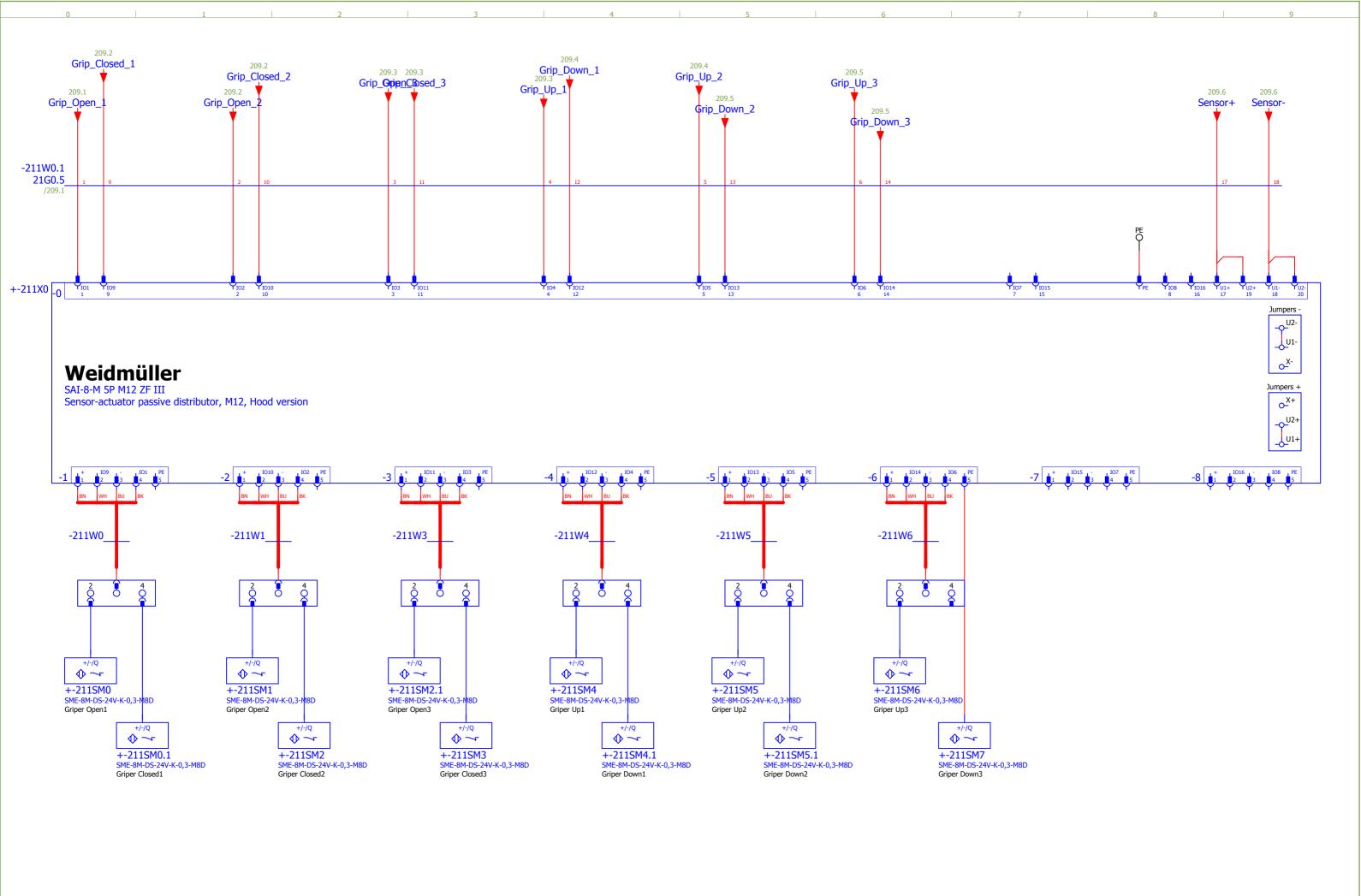
Ilkovicova 3

-201X2 + -20





205.3 Grip_Down_2 204.1 204.3 204.5 Grip_Closed_1 Grip_Closed_2 Grip_Closed_3 205.0 Grip_Down_1 Grip_Down_3 _{205.6} Sensor+ Sensor-Grip_Open_2 Grip_Up_3 Grip_Open_1 Grip_Open_3 Grip_Up_1 Grip_Up_2 -209W1 21G0.5_ /204.0 /205.0 -209X0 SCHUNK A -211W0.1 21G0.5_ /211.0



207.5 **LLT on** +RM1/150.5 ETH_LLT -201X2 ♀+ ♀--212W6 SC2700-20/ET 20 m 10 PE -212X3.2 -212W3₍⁻ PC2700-4.5 ⁻ 4.5 m 6x2x0.14_ -212LLT3 LLT 2950-100

Tire surface inspection - lettering inspection
001_TSI_LI_development_DP
001

URK FEI Ilkovicova 3 841 01 Bratislava / Slovakia



Kawasaki 1TR boa	rd	=TSI_LI	Tire surface inspection - lettering inspection		
		+MS2	Electrobox on TSI stand		
Modification date	23-Oct-20	Appr		Page	215
Changed by	PATRIK HERCUT	Form		Next page	