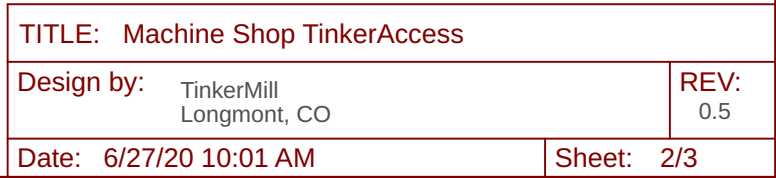
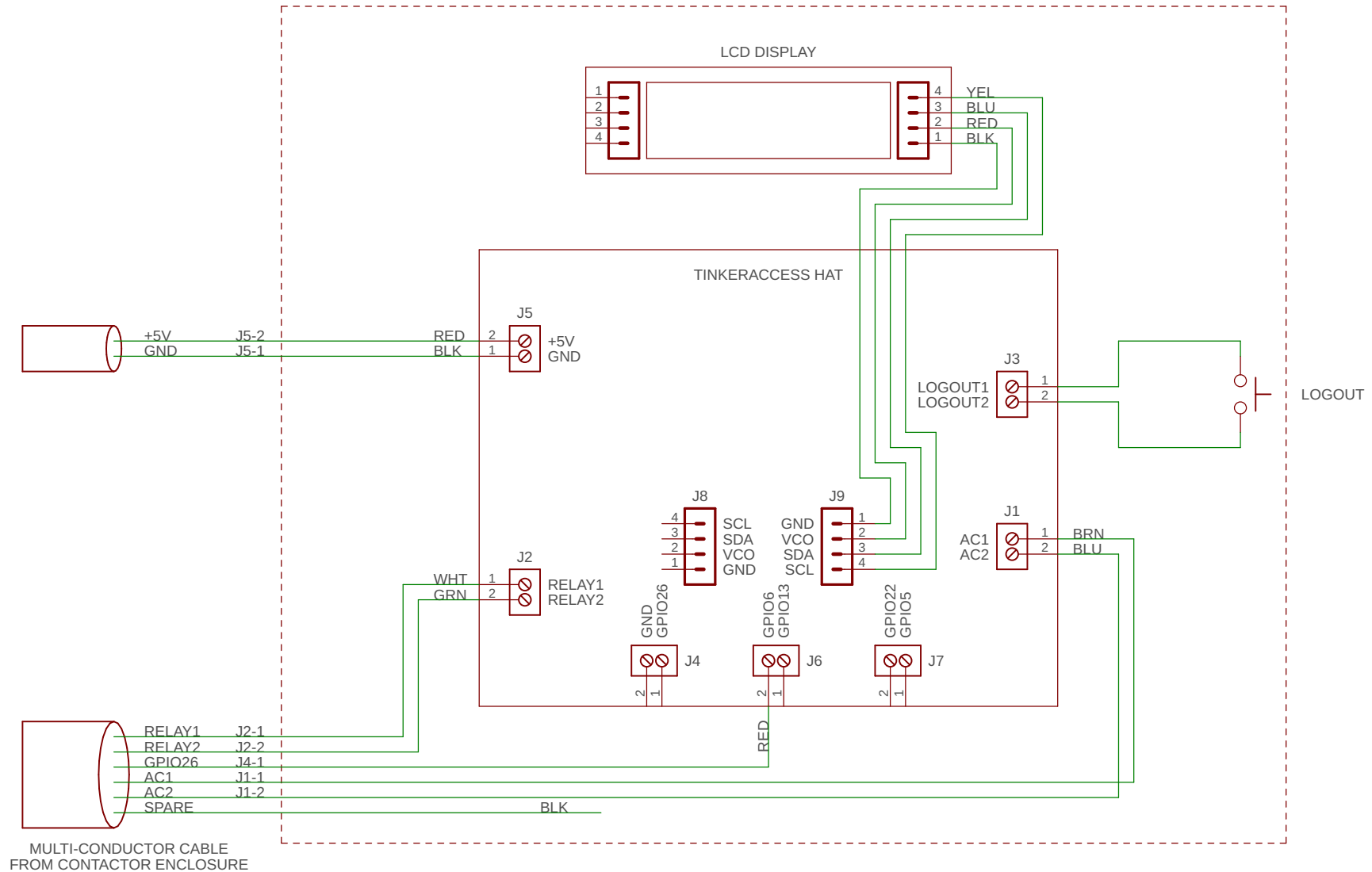


TITLE: Machine Shop TinkerAccess		
Design by: TinkerMill Longmont, CO		REV: 0.5
Date: 6/27/20 10:01 AM		Sheet: 1/3

1) E-STOP SENSE IS CONNECTED TO RPi GPIO6 SO THAT TINKERACCESS CAN AUTOMATICALLY LOGOUT USER ON AN E-STOP EVENT. THIS ENSURES THAT POWER IS NOT IMMEDIATELY RESTORED WHEN E-STOP IS RESET.



TINKERACCESS ENCLOSURE



TITLE: Machine Shop TinkerAccess

Design by: TinkerMill
Longmont, CO

REV:
0.5

Date: 6/27/20 10:01 AM

Sheet: 3/3

HV Enclosure

RefDes	Qty	Description	Package	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost
CB1	1	Circuit Breaker, FAZ Series, 480Y/277VAC, 96VDC, 2 Pole, 5A, D Trip Curve	DIN Rail Mount	Eaton	FAZ-D5-2	Automation Direct	FAZ-D5-2	\$20.00
CB2	1	Circuit Breaker, FAZ Series, 277VAC, 48VDC, 1 Pole, 3A, C Trip Curve	DIN Rail Mount	Eaton	FAZ-C3-1-SP	Automation Direct	FAZ-C3-1-SP	\$10.00
K1	1	Contactor, Duo Series, 3 Pole, 220VAC Coil, 50A Inductive Load, 65A Resistive Load	DIN Rail Mount	Fuji Electric	SC-E2S-220VAC	Automation Direct	SC-E2S-220VAC	\$70.00
K2	1	Solid State Relay, SPST-NO, Random Turn-on, 3-32 VDC Input, 10A / 24-280 VAC Load	DIN Rail Mount	Automation Direct	AD-SSR810-DC-28R	Automation Direct	AD-SSR810-DC-28R	\$21.50
RV1	1	Varistor, Coil Surge Suppressor, 100-250V AC/DC, For SC-E1-xxx to SC-E4xxx Contactor	Terminals	Fuji Electric	SZ-Z32	Automation Direct	SZ-Z32	\$15.00
	1	DIN Rail, Slotted, 35mm, 7.5mm height, 1m length, Plated Steel. Pkg of 2	Chassis Mount	Konnect-It	DN-R35S1-2	Automation Direct	DN-R35S1-2	\$10.00
	1	Terminal Block, single-level, size 26 - 12 AWG, gray, 20A, 600V rated, 35mm DIN rail mount, pkg of 25	DIN Rail Mount	Konnect-It	KN-T12GRY-25	Automation Direct	KN-T12GRY-25	\$6.50
	1	Terminal Block End Cover, gray, for use with KN-T12 to KN-T6 series terminal blocks, pkg of 25	DIN Rail Mount	Konnect-It	KN-ECT6GRY-25	Automation Direct	KN-ECT6GRY-25	\$4.00
	1	Terminal Block Separator, gray, for use with KN-T12 to KN-T6 series block, pkg of 25	DIN Rail Mount	Konnect-It	KN-ST1GRY	Automation Direct	KN-ST1GRY	\$8.00
	1	Terminal Block End Bracket, screw-down type, 10mm wide, for use with 35mm DIN rail, pkg of 10	DIN Rail Mount	Konnect-It	KN-EB7-10	Automation Direct	KN-EB7-10	\$6.50
	1	Terminal Block Jumper, screw-down type, 2-pole, for use with KN-T12 or KN-D12 series block, pkg of 25	DIN Rail Mount	Konnect-It	KN-2J12	Automation Direct	KN-2J12	\$8.00
	1	Enclosure, NEMA 12/13, 12 x 12 x 6in (HxWxD), wall mount, carbon steel, gray powder finish, hinged screw cover		Hubbell-Wiegmann	WA121206GIE	Automation Direct	WA121206GIE	\$96.00
	1	Subpanel, carbon steel, white, polyester powder coat finish. For use with 12x12 WA121206GIE enclosure		Hubbell-Wiegmann	N1P1212	Automation Direct	N1P1212	\$9.50
LP1	1	Indicator Lamp, Green, LED, Panel Mount, 125-250V	Panel Mount	Bulgin	LE2951WL5G	DigiKey	1091-1118-ND	\$7.05
PS1	1	Power Supply, 85-264VAC Input, 5V/3A/15W Output	DIN Rail Mount	Mean Well	HDR-30-5	DigiKey	1866-2246-ND	\$19.12
	1	Ground Bus Bar, 7 Terminal		Square D	he	Home Depot	578-169	\$5.70
CT1	1	Current Transformer, 2000:1 turn ratio, 30A						
R1	1	Resistor, 470, 5%, 1/4W, Axial	Wire Leads	Echun	ECS1030-L72	SparkFun	SEN-11005	\$9.95
R2,R3	2	Resistor, 1K, 5%, 1/4W, Axial	Axial					
ES1	1	Pushbutton, 22mm, Twist-to-release, Emergency Stop, (1) N.C. contact, Red mushroom Operator, 40mm		Automation Direct	GCX1131	Automation Direct	GCX1131	\$13.50
	1	Pushbutton Enclosure, 1 hole, 22mm, 70 x 70 x 74mm (HxWxD), Wall mount, Thermoplastic ABS, Gray, Screw cover		Automation Direct	SA103SL	Automation Direct	SA103SL	\$8.00
	1	Legend Plate, Oversized, Round, Yellow field, Yellow background, Black engraved text, Marking "EMERGENCY STOP"		Automation Direct	ECX1651	Automation Direct	ECX1651	\$2.75
SW1	1	Keyed Switch						

\$351.07

