

Qty	Description	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Enclosure, NEMA 4X, 6.732" L x 4.764" W x 2.165" D, Plastic, Gray Body, Clear Cover	Bud Industries	PN-1324-CMB	DigiKey	377-1892-ND	\$20.70	
1	Faceplate, Acrylic, Custom	TinkerMill					
1	Light Pipe, Round Domed, Clear, Diffused, 3mm Dia, 0.25" Length	Visual Communications Company	LFB025CTP	DigiKey	LFB025CTP-ND	\$0.36	
1	Raspberry Pi 3 B	Raspberry Pi Foundation	Pi 3 B				Used existing Pi, not a Pi 3B+
1	Memory Card, microSD, 16GB, Class 10	SanDisk	SDSQUAR-016G-GN6MA	Amazon	SDSQUAR-016G-GN6MA	\$6.19	
1	TinkerAccess Hat, v1.4	TinkerMill					
1	LCD, 16x2 Basic, Black on Green, 3.3V	SparkFun	LCD-09053	SparkFun	LCD-09053	\$16.95	
1	LCD I2C Backpack	HiLetgo	03-01-1980	Amazon	03-01-1980	\$5.95	
1	Adapter, Qwiic	SparkFun	DEV-14495	SparkFun	DEV-14495	\$1.50	Needs to be soldered to LCD I2C and power pins
1	Cable, Qwiic, 200mm	SparkFun	PRT-14428	SparkFun	PRT-14428	\$1.50	Connects LCD to TinkerAccess Hat
1	Switch, Pushbutton, Red, SPDT, Momentary	C&K	PNP8S3D2C03QE	Mouser	611-PNP8S3D2C03QE	\$8.00	
4	Machine Screw, Nylon, Pan Head, Phillips, #2-56 x 1/2"	B&F Fastener Supply	NY PMS 256 0050 PH	DigiKey	H534-ND	\$0.09	Mounting LCD to Faceplate
4	Round Spacer, Nylon, 3/16" Dia, #2, 3/16"	Bivar Inc	9913-187	DigiKey	492-1043-ND	\$0.04	Between LCD and Faceplate
4	Hex Nut, Nylon, #2-56	Essentra Components	0400256HN	DigiKey	RPC7088-ND	\$0.06	Mounting LCD to Faceplate
4	Machine Screw, Nylon, Pan Head, Phillips, #4-40 x 3/8"	B&F Fastener Supply	NY PMS 440 0038 PH	DigiKey	H544-ND	\$0.09	Mounting Faceplate to Enclosure Standoff
4	Hex Standoff, Aluminum, 1/4" Hex, Male-Female #4-40, 1-1/4" Length	Keystone	8407	DigiKey	36-8407-ND	\$1.02	Between Faceplate and Enclosure
4	Machine Screw, Nylon, Pan Head, Phillips, #4-40 x 1/4"	B&F Fastener Supply	NY PMS 440 0025 PH	DigiKey	H542-ND	\$0.09	Mounting Faceplate to PCB Standoff
4	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #4-40, 1/4" Length	RAF Electronic Hardware	4501-440-AL	DigiKey	1772-1230-ND	\$0.29	Between TinkerAccess Hat and Faceplate
4	Hex Standoff, Aluminum, 3/16" Hex, Male-Female #4-40, 5/8" Length	RAF Electronic Hardware	4507-440-AL	DigiKey	1772-1206-ND	\$0.56	Between TinkerAccess Hat and Raspberry Pi
4	Hex Nut, Nylon, #4-40, 1/4"	B&F Fastener Supply	NY HN 440	DigiKey	H616-ND	\$0.11	Mounting Raspberry Pi to PCB Standoff
						\$70.53	

Contactor Enclosure

Qty	Description	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Enclosure, NEMA 4/4X, 8 x 8 x 4in (HxWxD), Wall Mount, Non-Metallic	Carlson	E989SX				
1	Backpanel, Custom	TinkerMill					
1	Contactor, 2 Pole, 208/240VAC Coil, 40A	Holdwell	SA-2P-40A-240V	Amazon	SA-2P-40A-240V	\$17.50	
1	Solid State Relay, SPST-NO, 3-32 VDC Input, 40A / 24-380 VAC Load	SparkFun	COM-13015	SparkFun	COM-13015	\$9.95	
1	TVS Diode, Coil Surge Suppressor, Bidirectional, 600W, 376V Standing Voltage	Littelfuse	P6KE440CA	DigiKey	P6KE440CALFCT-ND	\$0.71	
1	Power Supply, 15W, 5V/3A Output, 85 - 264VAC Input	Mean Well	RS-15-5	DigiKey	1866-4133-ND	\$9.43	
1	Resistor, 1K, 1%, 1/4W, Axial	Stackpole Electronics Inc	RNF14FTD1K00CT-ND	DigiKey	RNF14FTD1K00CT-ND	\$0.10	
						\$37.69	