





## 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		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	Wire Leads	Echun	ECS1030-L72	SparkFun	SEN-11005	\$9.95
R1	1	Resistor, 470, 5%, 1/4W, Axial	Axial					
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						

## TinkerAccess Enclosure

Qty	Description	Package	Manufacturer	Manufacturer PN	Vendor	Vendor PN	Cost	Notes
1	Raspberry Pi 3 B+		Raspberry Pi Foundation	Pi 3 B+	SparkFun	DEV-14643	\$39.95	
1	TinkerAccess Hat, v1.2		TinkerMill					
1	LCD, 16x2 SerLCD, Black on RGB, 3.3V		SparkFun	LCD-14072	SparkFun	LCD-14072	\$19.95	
1	Switch, Pushbutton, Red, SPDT, Momentary		C&K	PNP8S3D2C03QE	Mouser	611-PNP8S3D2C03QE	\$8.00	
1	Adapter, Qwiic		SparkFun	DEV-14495	SparkFun	DEV-14495	\$1.50	
1	Cable, Qwiic, 100mm		SparkFun	PRT-14427	SparkFun	PRT-14427	\$1.50	
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					
4	Hex Nut, Nylon, #2-56		Essentra Components	0400256HN	DigiKey	RPC7088-ND	\$0.06	LCD mounting to faceplate
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	LCD mounting to faceplate
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	RPi mounting to standoff
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	Faceplate mounting to enclosure standoff
4	Machine Screw, Nylon, Pan Head, Phillips, #4-40 x 5/8"		B&F Fastener Supply	NY PMS 440 0063 PH	DigiKey	H548-ND	\$0.09	RPI mounting 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	Round Spacer, Nylon, 3/16" Dia, #4, 1/4"		Bivar Inc	9908-250	DigiKey	492-1074-ND	\$0.04	Between TinkerAccess Hat and faceplate
4	Hex Standoff, Nylon, 3/16" Hex, Female-Female #4-40, 5/8"		RAF Electronic Hardware	2059-440-N	DigiKey	1772-1853-ND	\$1.89	Between TinkerAccess Hat and RPi
4	Hex Standoff, Aluminum, 1/4" Hex, Male-Female #4-40, 1-1/4" Length		Keystone	8407	DigiKey	36-8407-ND	\$1.01	Between faceplate and enclosure

\$105.20