Fuji Electric
Innovating Energy Technology

FRENIC-HPAQ

Bypass Submittal Summary – UL Type 1 / NEMA 12 Ventilated & UL Type 12

Project: _____

Engineer/Architect: _____

Contractor: _____

Submitted By: _____ Date: _____

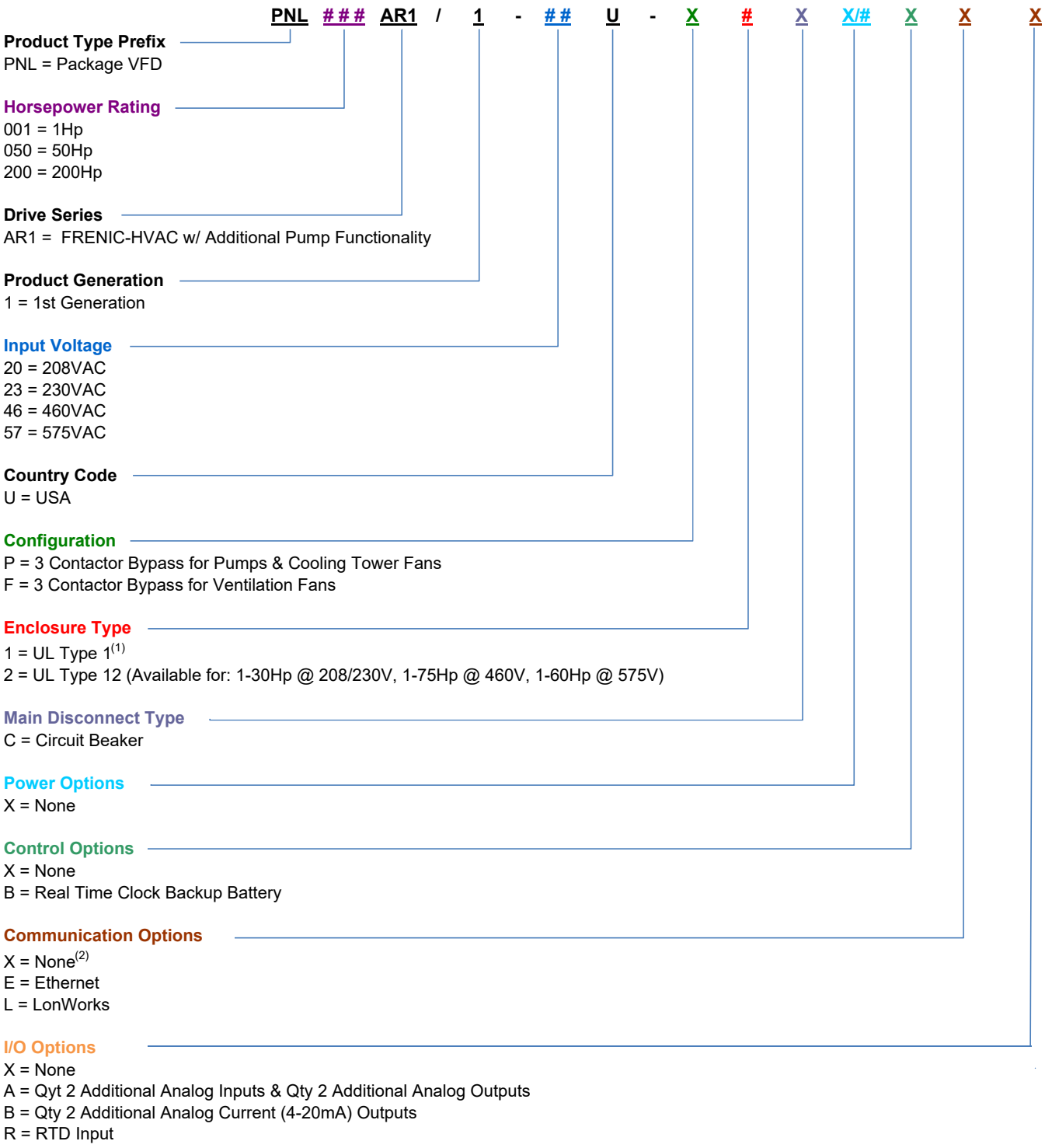
Equip. Tag #	VFD Model #	Unit Ratings (Voltage, HP, Rated Current)

Configurations

- **Bypass for Pumps & Cooling Tower Fans**
  3 Contactor bypass with Class 20 motor overload protection and input circuit breaker that provides simple manual bypass control logic.
- **Bypass for Ventilation Fans**
  3 Contactor bypass with Class 20 motor overload protection and input circuit breaker that provides a comprehensive set of control features including; damper control output, damper end switch input, fire mode input with selectable low or high level priority safety inputs and selectable automatic bypass.

FECA-SU-120A
Information subject to change without notice.

FRENIC-HPAQ Bypass Model Numbering System Diagram



Notes

(1) Enclosure meets NEMA 12 Ventilated (Gasketed & Filtered) requirements for:
40-60Hp @ 208/230VAC, 100-200Hp @ 460VAC, & 75-200Hp @ 575VAC

(2) Modbus RTU, Johnson Metasys N2, and BACnet are provided as standard, selectable via parameter setting

FRENIC-HPAQ Bypass Features

	Bypass for Pumps	Bypass for Fans
Features		
Input Circuit Breaker	S	S
Drive Input Isolation Contactor	S	S
Drive Output Contactor	S	S
Bypass Contactor	S	S
Class 20 Motor Overload Relay	S	S
DC Link Reactor	S	S
EMC Filter	S	S
Control Power Transformer w/ Fusing	S	S
Power On Indication	S	S
Drive Run Indication	via Keypad	via Keypad
Drive Fault Indication	via Keypad	via Keypad
Bypass Run Indication	S	S
Motor Overload Indication	S	S
Isolated - Normal Selector Switch	S	S
VFD - Off - Bypass Selector Switch	S	S
Hand - Off - Auto Selector Switch	S	S
Remote - Local (for Bypass) Selector Switch	N/A	S
Enable Input	S	N/A
2 Level Priority Safety Inputs	N/A	S
Damper End Switch Input	N/A	S
Fire Mode Input	N/A	S
Automatic Bypass Permissive	N/A	S
Run Command Input	S	S
Bypass Local Override Input	S	N/A
Drive Fault Output	S	S
Drive Run Output	S	S
Bypass Run Output	S	S
Damper Control Output	N/A	S
Analog Signal Inputs	0-10VDC 4-20mA	0-10VDC 4-20mA
Analog Signal Outputs	0-10VDC 4-20mA	0-10VDC 4-20mA
Customer Control I/O Terminal Strip	S	S
Communcation Protocols		
Modbus RTU	S	S
Metasys N2	S	S
BACnet	S	S
LonWorks	O	O
EtherNet	O	O
Codes & Standards		
UL 508A	S	S
Applicable NEMA & NFPA Standards	S	S

S = Provided As Standard

O = Available Option

Data subject to change without notice.

FRENIC-HPAQ Bypass General Specifications

Environmental

Enclosure	UL Type 1/NEMA 12 Ventilated, UL Type 12
Ambient Temperature	+14°F to +104°F (-10°C to +40°C)
Storage Temperature	+5°F to +140°F (-15°C to +60° C)
Humidity	5% to 95% with no condensation
Altitude	0 to 3,300 ft. (1,000 m) without derating, derate output current for higher altitudes per FRENIC-HVAC User's Manual

Codes and Standards

UL Listed per UL508A
Conforms to applicable NEMA ICS, NFPA, IEC/EN & Additional UL standards

Electrical

Input Voltage: Nominal - Phase	208VAC, 230VAC, 460VAC, 575VAC - 3 Phase
Input Voltage: Tolerance, Unbalance	+/-10%, ≤3% for 208VAC, 230VAC, & 460VAC -10% to 600V Maximum, ≤3% for 575VAC
Input Frequency	60Hz +/-5%
Displacement Power Factor	≥0.97
Output Voltage: Range - Phase	0 to maximum input voltage - 3 Phase
Output Frequency	0.1 to 120Hz
Motor Control Method	PWM drive output with V/f control, Dynamic Torque Vector control, or V/f control with Slip Compensation
PWM Switch Frequency	0.75 to 16kHz (1-25Hp @ 208/230V and 1-50Hp @ 460V/575V) 0.75 to 10kHz (30-60Hp @ 208/230V and 60-125Hp @ 460V/575V) 0.75 to 6kHz (150-200Hp @ 460V/575V)
Drive Overload Capacity	110% rated current for 1 min.
Motor Overload	Class 20 Protection
Torque Boost	Auto or Manual (0.0 to 20%) settings available
Speed Reference	0 to ±10VDC, 4 to 20mA, 0 to 20mA, or Keypad (programmable inverse operation for analog signals)
Speed Reference Resolution	Analog setting: 1/3000 of maximum frequency Keypad setting: 0.01Hz (99.99Hz or less)
Acceleration/Deceleration Time	0 to 3600 seconds, with four user selectable patterns
Jump Frequencies	Qty 3 programmable frequency set points with adjustable jump bandwidth of 0 to 30Hz
Output Signals	Qty 1: N.O. dry contacts rated 0.3A @ 230V max, functionality: Drive Run Qty 1: Form C dry contacts rated 0.3A @ 230V max, functionality: Drive Fault Qty 1: N.O. dry contacts rated 5A @ 230V max, functionality: Bypass Run Qty 1: N.O. dry contacts rated 5A @ 230V max, functionality: Damper Control *(available only with bypass for fans)* Qty 1: 0 to 10VDC, user selectable programmable analog signal Qty 1: 4 to 20mA, user selectable programmable analog signal

FRENIC-HPAQ BYPASS for Pumps & Cooling Tower Fans

Drawing Number Selection Matrix

208/230VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number	Door Device Layout
1	4.6	ROA700202	ROA700206	ROA700200
2	7.5			
3	10.6			
5	16.7			
7.5	24.2	ROA700203		
10	30.8			
15	46.2	ROA700204		
20	59.4			
25	74.8	ROA700205		
30	88			
40	114	ROA700208	ROA700210	
50	143	ROA700209		
60	169			

460VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number	Door Device Layout
1	2.1	ROA700202	ROA700206	ROA700200
2	3.4			
3	4.8			
5	7.6			
7.5	11			
10	14			
15	21	ROA700203		
20	27			
25	34			
30	40			
40	52	ROA700204		
50	65			
60	77	ROA700205		
75	96			
100	127	ROA700208	ROA700210	
125	156	ROA700209		
150	180			
200	240			

575VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number	Door Device Layout
1	1.7	ROA700202	ROA700206	ROA700200
2	2.7			
3	3.9			
5	6.1			
7.5	9			
10	11			
15	17	ROA700203		
20	22			
25	27			
30	32			
40	41	ROA700204		
50	52			
60	62	ROA700205		
75	77	ROA700208	ROA700210	
100	99			
125	125	ROA700209		
150	144			
200	192			

FRENIC-HPAQ BYPASS for Fans

Drawing Number Selection Matrix

208/230VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number	Door Device Layout
1	4.6	ROA700202	ROA700207	ROA700201
2	7.5			
3	10.6			
5	16.7			
7.5	24.2	ROA700203		
10	30.8			
15	46.2	ROA700204		
20	59.4			
25	74.8	ROA700205		
30	88			
40	114	ROA700208	ROA700211	
50	143	ROA700209		
60	169			

460VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number	Door Device Layout
1	2.1	ROA700202	ROA700207	ROA700201
2	3.4			
3	4.8			
5	7.6			
7.5	11			
10	14			
15	21	ROA700203		
20	27			
25	34			
30	40			
40	52	ROA700204		
50	65			
60	77	ROA700205		
75	96			
100	127	ROA700208	ROA700211	
125	156	ROA700209		
150	180			
200	240			

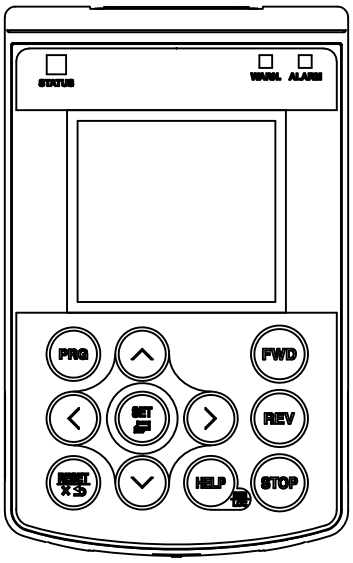
575VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number	Door Device Layout
1	1.7	ROA700202	ROA700207	ROA700201
2	2.7			
3	3.9			
5	6.1			
7.5	9			
10	11			
15	17	ROA700203		
20	22			
25	27			
30	32			
40	41	ROA700204		
50	52			
60	62	ROA700205		
75	77	ROA700208	ROA700211	
100	99			
125	125	ROA700209		
150	144			
200	192			

FRENIC-HPAQ Bypass

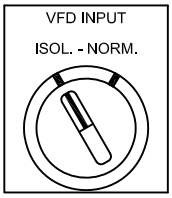
ELECTRICAL DATA						MECHANICAL DATA		
Hp Rating	Rated Output Current [A]	Rated Input Current [A]	Input Circuit BreakerRating [A] (F) = Frame Size (T) = Trip Setting	VFD Input Fuses [A],[V]	Complete Assembly SCCR [kA]	Overall Dimensions - Height x Width x Depth [inches]	Estimated Max. Weight [lbs]	Estimated Watts Loss [W]
208/230VAC, 60Hz, 3PH								
1	4.6	5.1	15	8A, 600V - Class J Time-Delay Fuses	65	48.00 x 6.19 x 15.69	70	119
2	7.5	8.0	15	10A, 600V - Class J Time-Delay Fuses				152
3	10.6	11.1	20	12A, 600V - Class J Time-Delay Fuses				190
5	16.7	17.2	30	20A, 600V - Class J Time-Delay Fuses				307
7.5	24.2	24.7	40	30A, 600V - Class J Time-Delay Fuses		54.00 x 8.31 x 15.69	103	364
10	30.8	31.3	50	40A, 600V - Class J Time-Delay Fuses				447
15	46.2	46.7	70	60A, 600V - Class J Time-Delay Fuses		67.00 x 11.50 x 16.76	158	591
20	59.4	59.9	90	80A, 600V - Class J Time-Delay Fuses				792
25	74.8	75.3	125	100A, 600V - Class J Time-Delay Fuses		64.31 x 24.25 x 22.10	376	835
30	88	88.8	150	250A, 700V - Semiconductor Fuses			441	1108
40	114	118	250(F) /175(T)	350A, 700V - Semiconductor Fuses		90.00 x 36.00 x 27.06 (2)	791	1676
50	143	147	300(F) / 255(T)	250A, 600V - Class J Time-Delay Fuses	100	90.00 x 48.00 x 27.05 (2)	1133	1586
60	169	173	300(F) / 300(T)	300A, 600V - Class J Time-Delay Fuses				1839
460VAC, 60Hz, 3PH								
1	2.1	2.4	15	3A, 600V - Class J Time-Delay Fuses	35	48.00 x 6.19 x 15.69	70	108
2	3.4	3.7	15	6A, 600V - Class J Time-Delay Fuses				125
3	4.8	5.1	15	8A, 600V - Class J Time-Delay Fuses				147
5	7.6	7.9	15	12A, 600V - Class J Time-Delay Fuses				202
7.5	11	11.3	20	15A, 600V - Class J Time-Delay Fuses				257
10	14	14.3	30	20A, 600V - Class J Time-Delay Fuses				340
15	21	21.3	40	30A, 600V - Class J Time-Delay Fuses	65	54.00 x 8.31 x 15.69	103	435
20	27	27.3	50	40A, 600V - Class J Time-Delay Fuses				545
25	34	34.3	60	50A, 600V - Class J Time-Delay Fuses				562
30	40	40.3	70	60A, 600V - Class J Time-Delay Fuses				723
40	52	52.3	80	80A, 600V - Class J Time-Delay Fuses		67.00 x 11.50 x 16.76	158	940
50	65	65.3	100	100A, 600V - Class J Time-Delay Fuses				1061
60	77	77.4	125	250A, 700V - Semiconductor Fuses		64.31 x 24.25 x 22.10	441	1175
75	96	96.4	150	250A, 700V - Semiconductor Fuses				1232
100	127	124	250(F) / 203(T)	350A, 700V - Semiconductor Fuses		90.00 x 36.00 x 27.06 (2)	791	1606
125	156	159	300(F) / 255(T)	250A, 600V - Class J Time-Delay Fuses		90.00 x 48.00 x 27.05 (2)	1202	2028
150	180	183	300(F) / 300(T)	300A, 600V - Class J Time-Delay Fuses				2318
200	240	243	400(F) / 400(T)	350A, 600V - Class J Time-Delay Fuses			1221	3053
575VAC, 60Hz, 3PH								
1	1.7	2.0	15	3A, 600V - Class J Time-Delay Fuses	18 (1)	48.00 x 6.19 x 15.69	70	92
2	2.7	3.0	15	6A, 600V - Class J Time-Delay Fuses				103
3	3.9	4.2	15	6A, 600V - Class J Time-Delay Fuses				114
5	6.1	6.4	15	10A, 600V - Class J Time-Delay Fuses				147
7.5	9	9.3	15	12A, 600V - Class J Time-Delay Fuses				180
10	11	11.3	20	15A, 600V - Class J Time-Delay Fuses				225
15	17	17.3	30	25A, 600V - Class J Time-Delay Fuses		54.00 x 8.31 x 15.69	103	281
20	22	22.3	40	30A, 600V - Class J Time-Delay Fuses	35			349
25	27	27.3	50	35A, 600V - Class J Time-Delay Fuses				408
30	32	32.3	50	40A, 600V - Class J Time-Delay Fuses				464
40	41	41.3	70	60A, 600V - Class J Time-Delay Fuses		67.00 x 11.50 x 16.76	158	642
50	52	52.3	80	70A, 600V - Class J Time-Delay Fuses				751
60	62	62.4	100	175A, 700V - Semiconductor Fuse		64.31 x 24.25 x 22.10	433	1123
75	77	79	150(F) / 127(T)	250A, 700V - Semiconductor Fuses	25	90.00 x 36.00 x 27.06 (2)	791	1425
100	99	101	250(F) / 175(T)	250A, 700V - Semiconductor Fuses				1814
125	125	127	250(F) / 203(T)	200A, 600V - Class J Time-Delay Fuses		90.00 x 48.00 x 27.05 (2)	1278	2426
150	144	146	300(F) / 221(T)	250A, 600V - Class J Time-Delay Fuses	35		1290	2817
200	192	194	400(F) / 310(T)	300A, 600V - Class J Time-Delay Fuses				3700

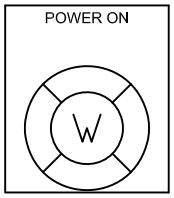
Notes:
(1) = Circuit Breaker is Rated for Connecting to Wye Power Distribution Systems ONLY
(2) = Top Exhaust Ventilation Cover Adds 6.10in to Height

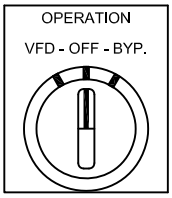


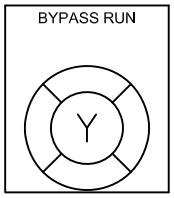
VFD KEYPAD
[SEE OUTLINE DRAWING FOR LOCATION]

DOOR DEVICES FOR PUMP CONTROL

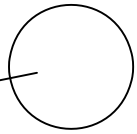


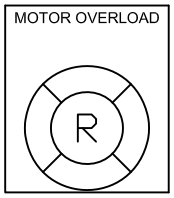


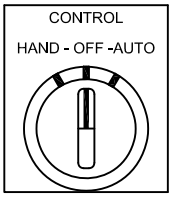




22mm HOLE PLUG







[SEE OUTLINE DRAWING FOR LOCATION]

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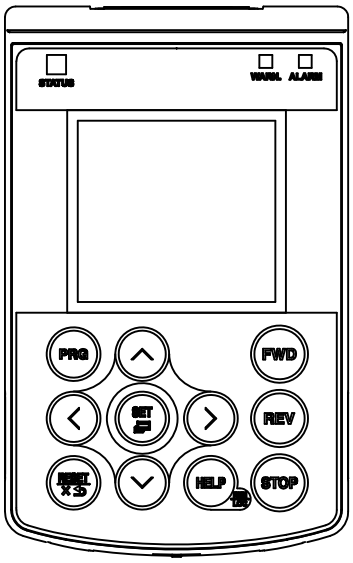
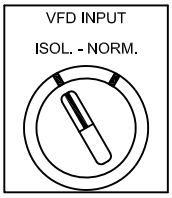
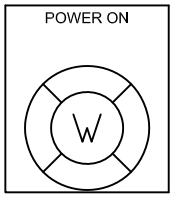
		REV. 1 / REV. DATE: 08/19/18	REV. BY: T. WEBB	SHT. 01 OF 01

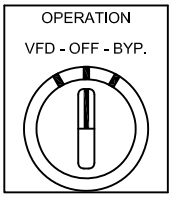


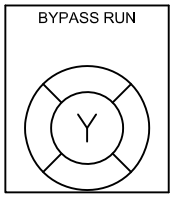
VFD KEYPAD
[SEE OUTLINE DRAWING FOR LOCATION]

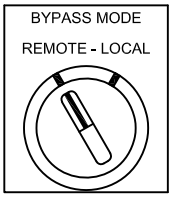
DOOR DEVICES FOR FAN CONTROL

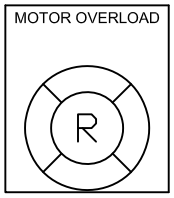


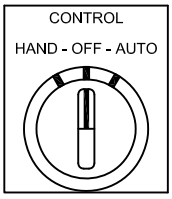












[SEE OUTLINE DRAWING FOR LOCATION]

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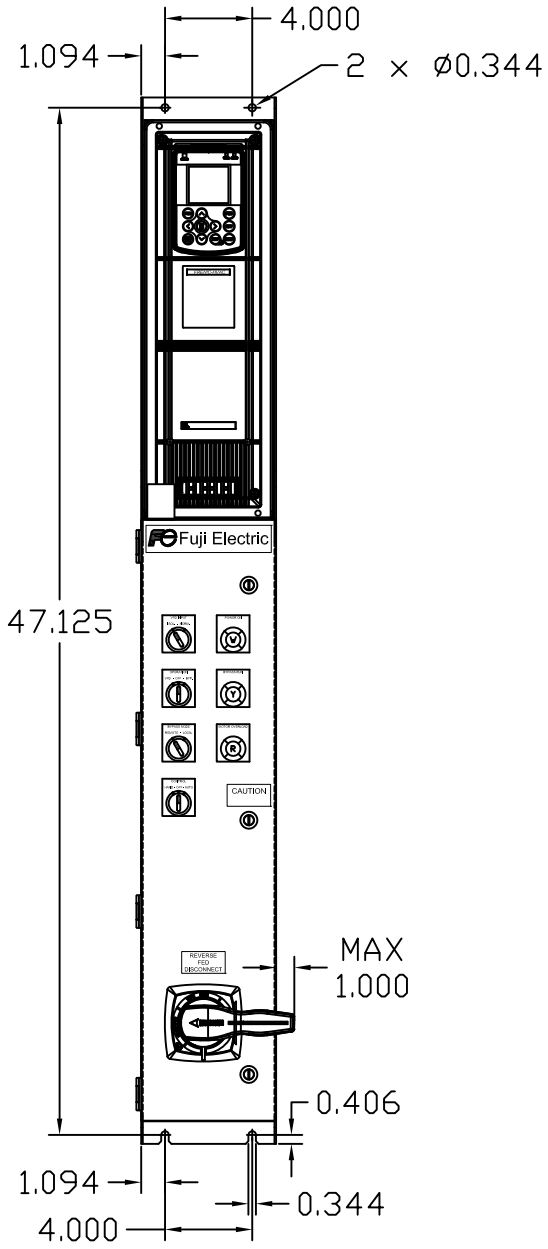
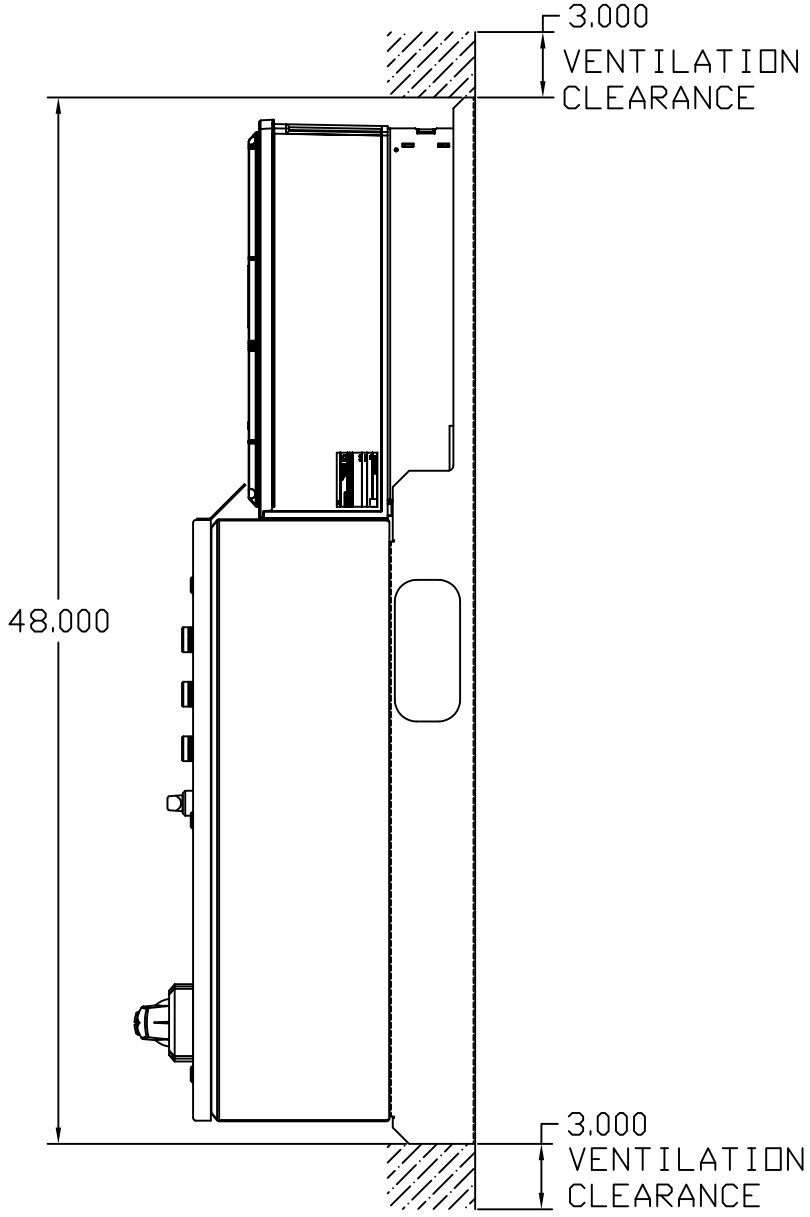
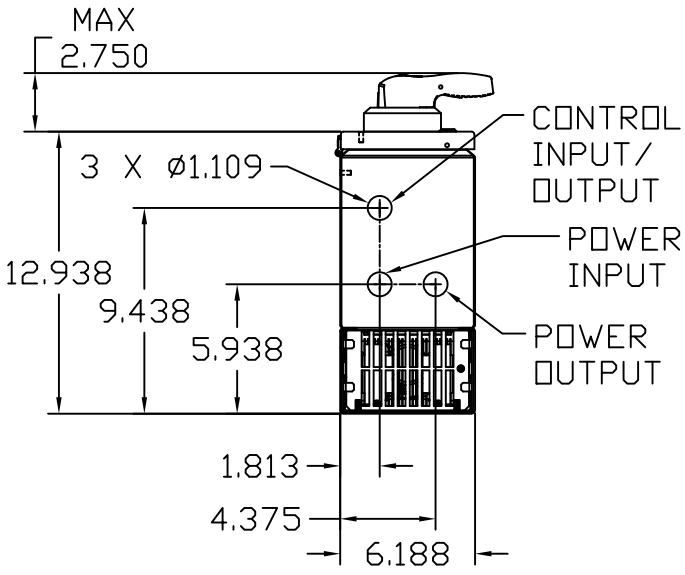
		REV. 1	REV. DATE: 08/19/18	REV. BY: C. DEMORIER
				SHT. 01 OF 01

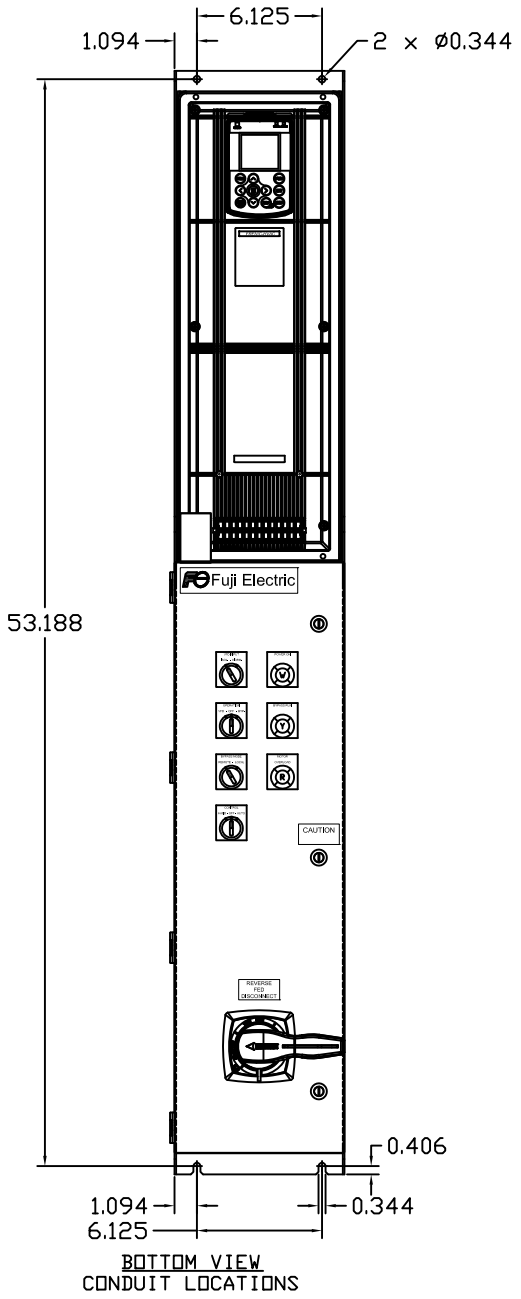




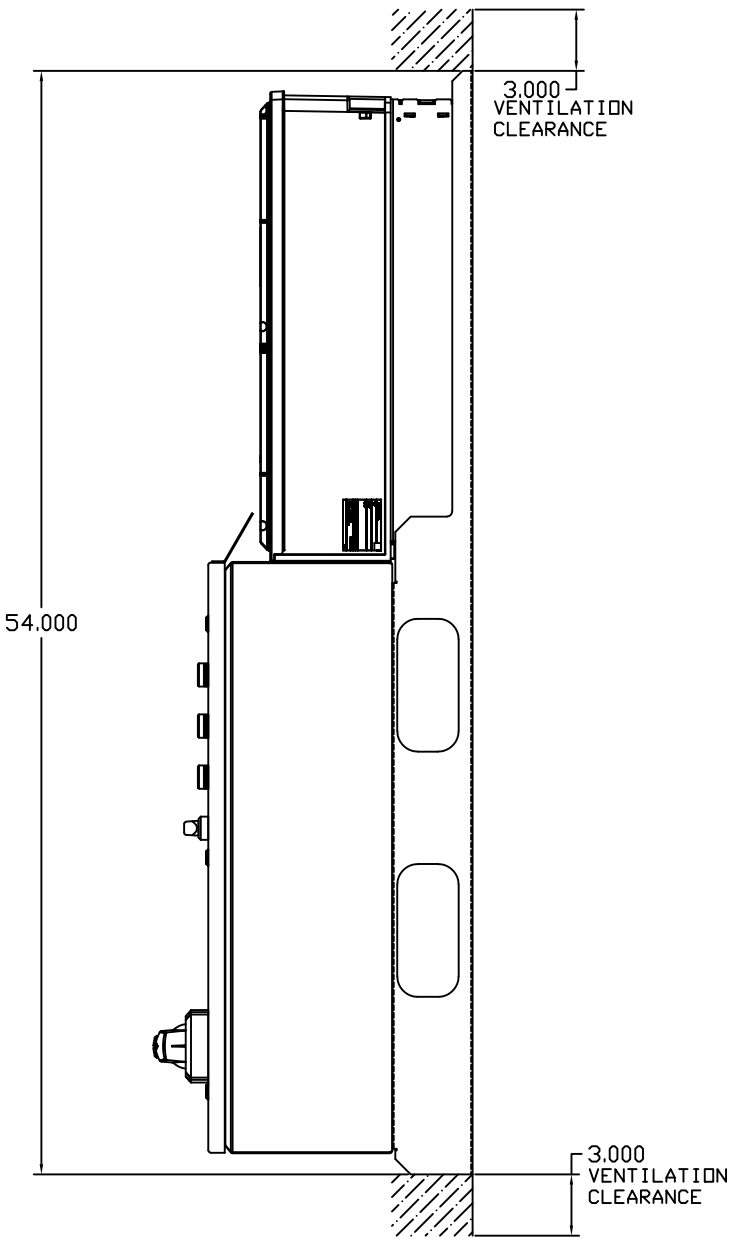


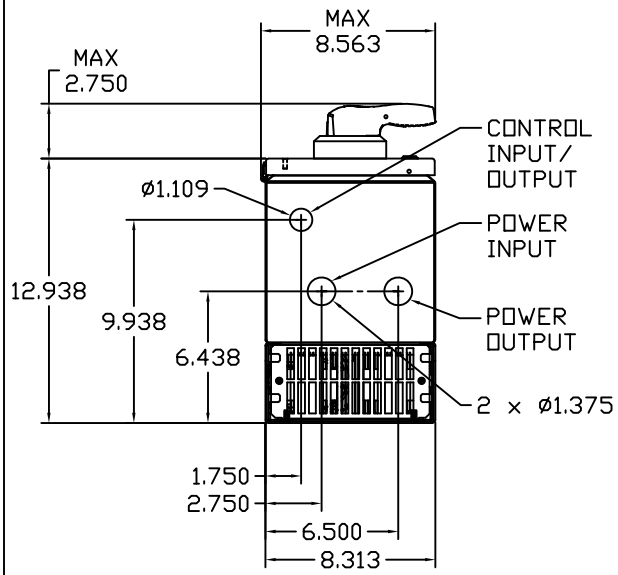
NOTES:
1) ALL DIMENSIONS ARE IN INCHES
2) ALLOW A MINIMUM OF 3.00 INCHES TOP AND BOTTOM OF ASSEMBLY FOR PROPER VENTILATION

DESCRIPTION: FRENIC-HPAQ BYPASS OUTLINE DRAWING 1-5Hp @ 208/230V, 1-10Hp @ 460/575V	DRN. BY: C. DEMORIER		DATE: 03/16/18	DWG. NO.: ROA700202
	REV. 1	REV. DATE: 08/19/18	REV. BY: T. WEBB	SHT. 01 OF 01



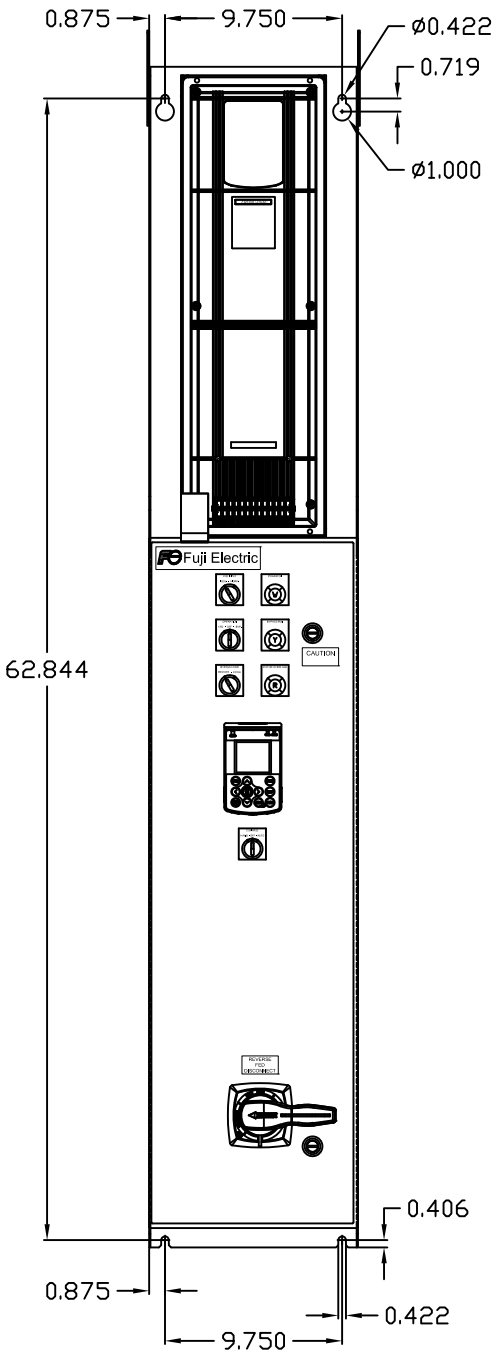
BOTTOM VIEW
CONDUIT LOCATIONS

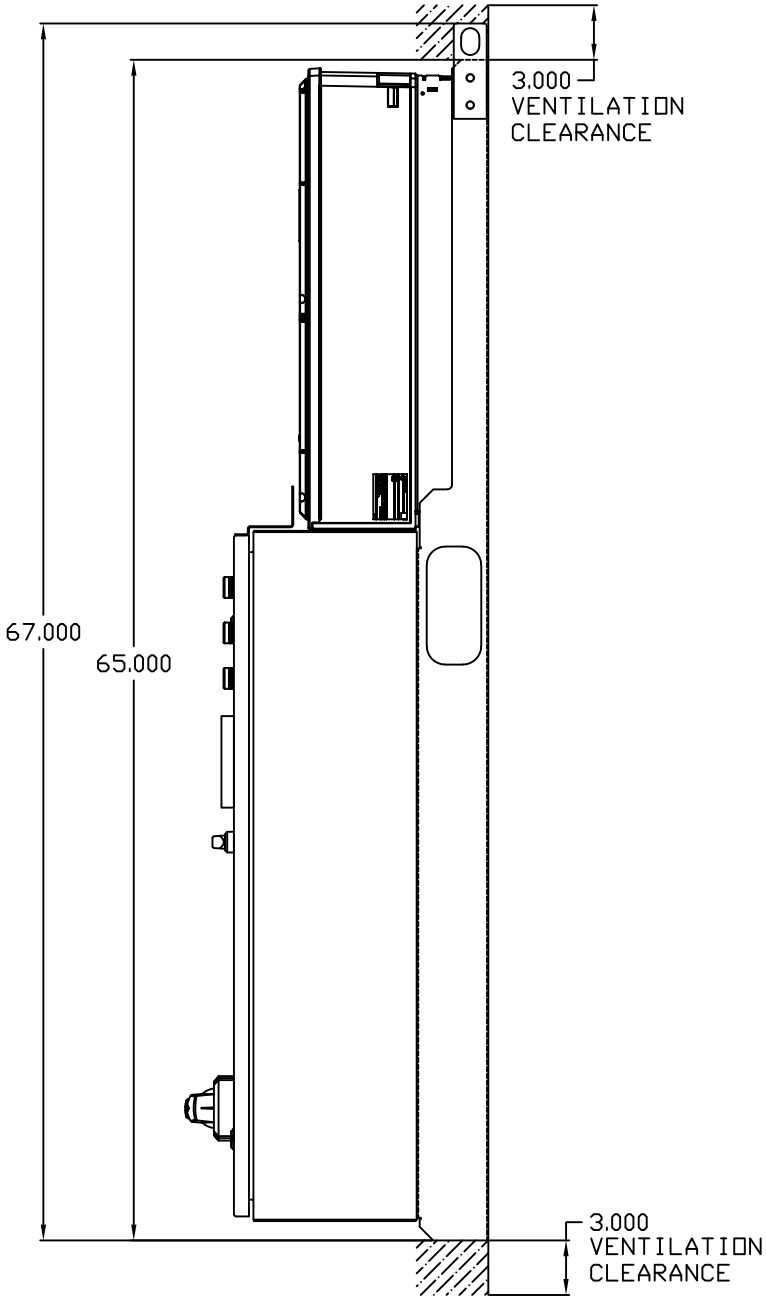




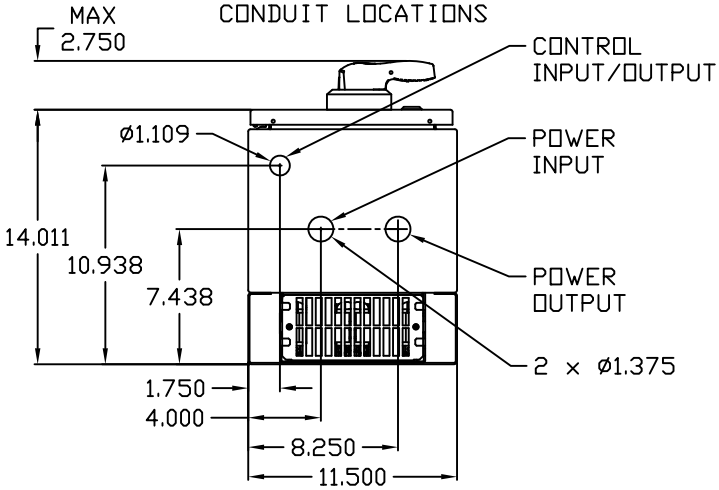
NOTES:
1) ALL DIMENSIONS ARE IN INCHES
2) ALLOW A MINIMUM OF 3.00 INCHES TOP AND BOTTOM OF ASSEMBLY FOR PROPER VENTILATION

	DESCRIPTION: FRENIC-HPAQ BYPASS OUTLINE DRAWING 7.5-10Hp @ 208/230V, 15-30Hp @ 460/575V	DRN. BY: C. DEMORIER	DATE: 03/16/18	DWG. NO.: RDA700203
		REV. 1 / REV. DATE: 08/19/18	REV. BY: T. WEBB	SHT. 01 OF 01

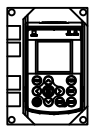




BOTTOM VIEW
CONDUIT LOCATIONS

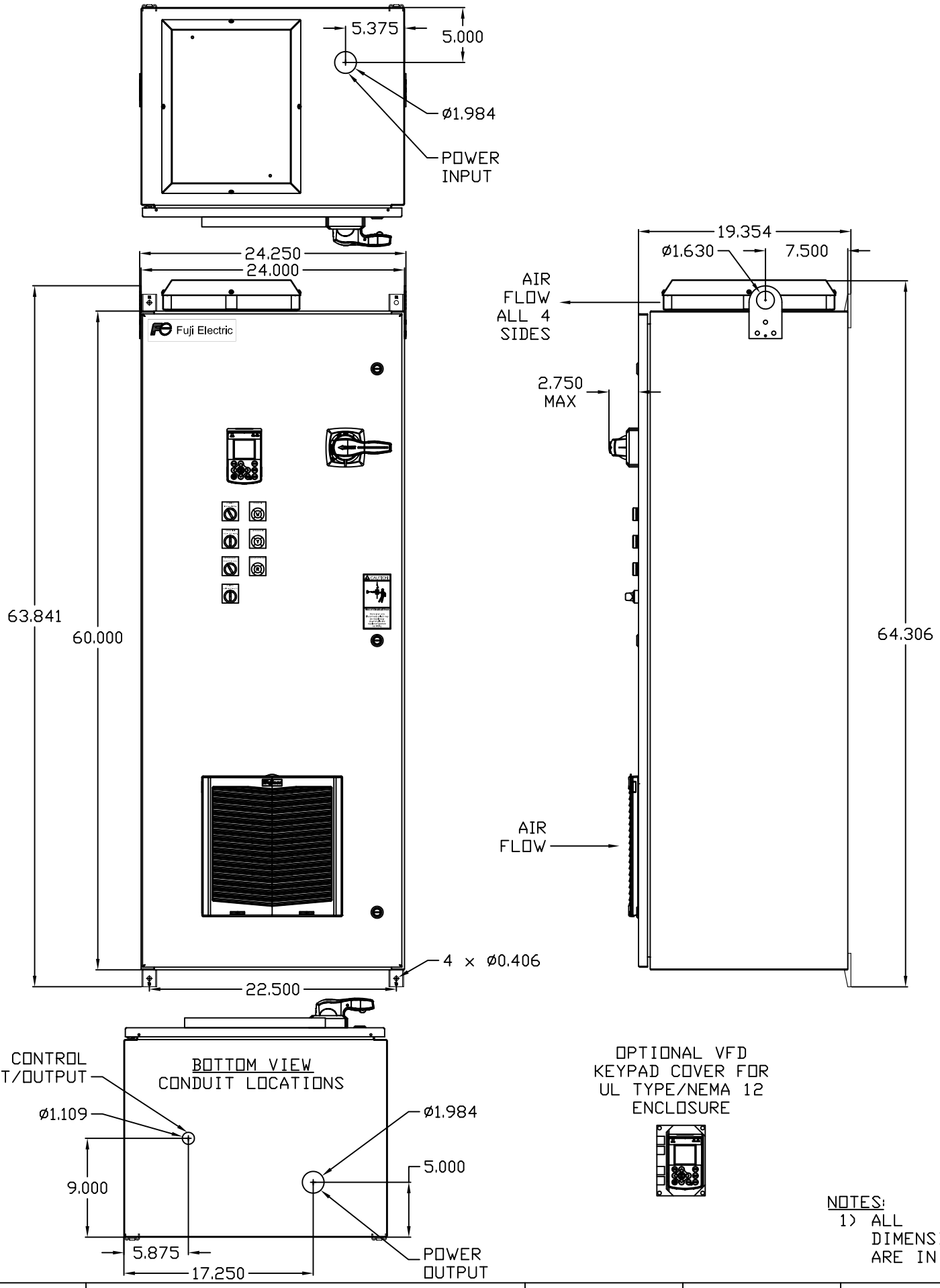


OPTIONAL VFD
KEYPAD COVER FOR
UL TYPE/NEMA 12
ENCLOSURE



NOTES:
1) ALL DIMENSIONS ARE IN INCHES
2) ALLOW A MINIMUM OF 3.00 INCHES TOP AND BOTTOM OF ASSEMBLY FOR PROPER VENTILATION

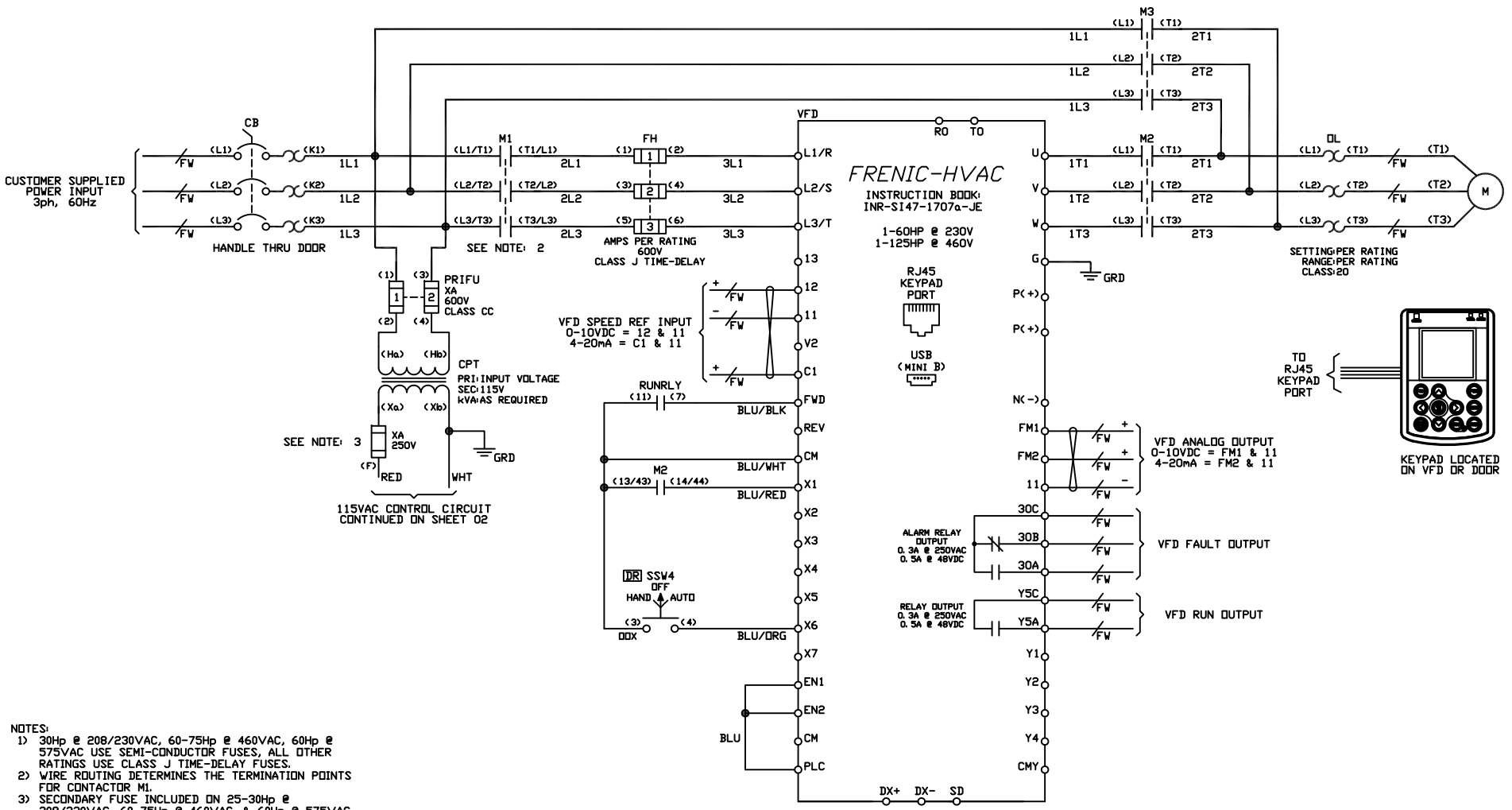
	DESCRIPTION: FRENIC-HPAQ BYPASS OUTLINE DRAWING 15-20Hp @ 208/230V, 40-50Hp @ 460/575V	DRN. BY: C. DEMORIER	DATE: 03/16/18	DWG. NO.: R0A700204
		REV. 1 / REV. DATE: 08/19/18	REV. BY: T. WEBB	SHT. 01 OF 01



NOTES:
1) ALL DIMENSIONS ARE IN INCHES

DESCRIPTION: FRENIC-HPAQ BYPASS OUTLINE DRAWING 25-30Hp @ 208/230V, 60-75Hp @ 460V 60Hp @ 575V	DRN. BY: C. DEMORIER		DATE: 03/16/18	DWG. NO.: R0A700205
	REV. 1	REV. DATE: 08/19/18	REV. BY: T. WEBB	SHT. 01 OF 01

FRENIC-HPAQ BYPASS FOR PUMPS & COOLING TOWER FANS

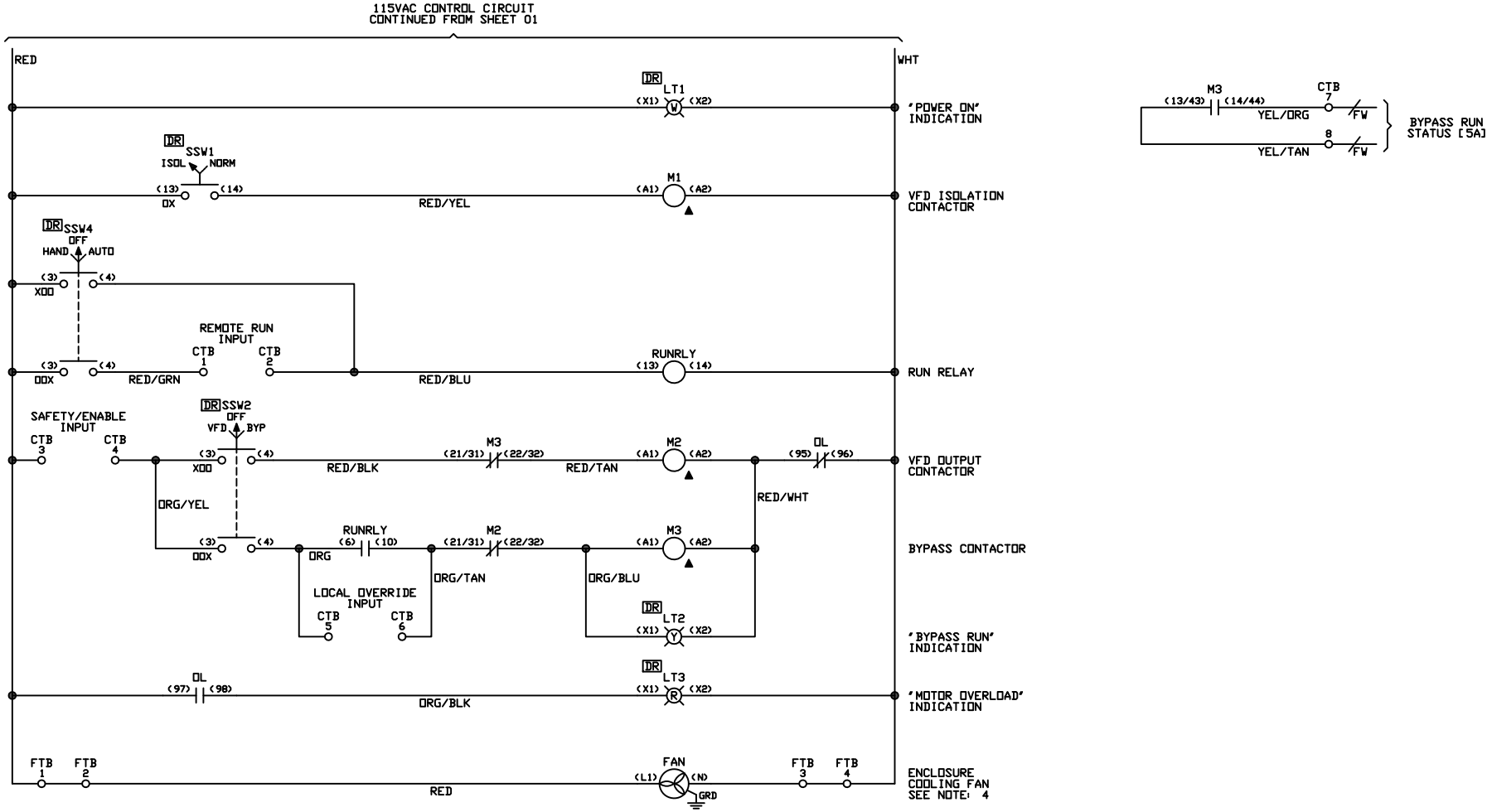


NOTES:
1) 30Hp @ 208/230VAC, 60-75Hp @ 460VAC, 60Hp @ 575VAC USE SEMI-CONDUCTOR FUSES, ALL OTHER RATINGS USE CLASS J TIME-DELAY FUSES.
2) WIRE ROUTING DETERMINES THE TERMINATION POINTS FOR CONTACTOR M1.
3) SECONDARY FUSE INCLUDED ON 25-30Hp @ 208/230VAC, 60-75Hp @ 460VAC, & 60Hp @ 575VAC
4) FAN INCLUDED ON 30Hp @ 208/230VAC, 60-75Hp @ 460VAC, & 60Hp @ 575VAC

LEGEND
FW = CUSTOMER/FIELD WIRING
▲ = COIL SUPPRESSOR
DR = DOOR MOUNTED DEVICE

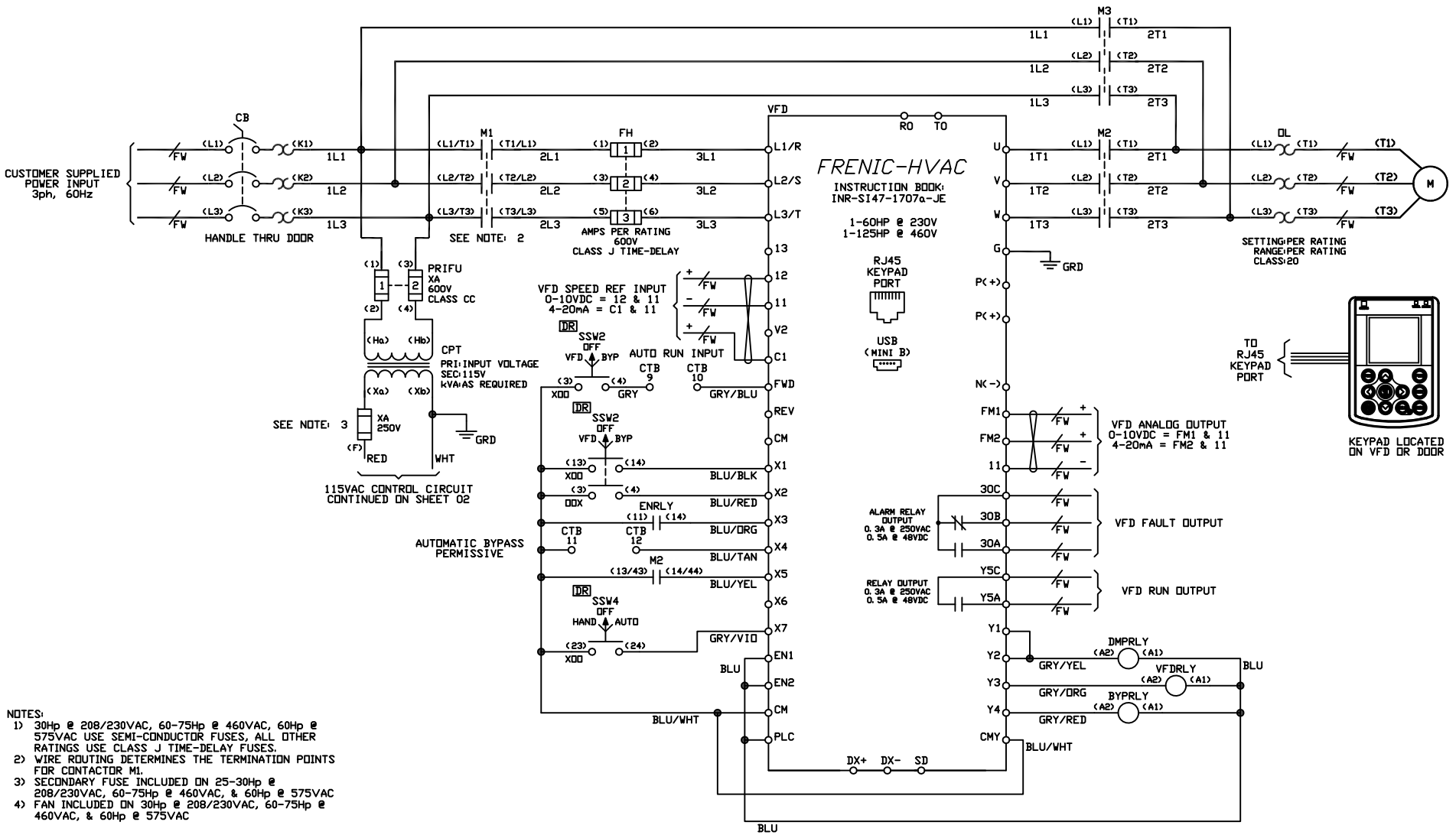
Fuji Electric

DESCRIPTION: 1-30Hp @ 208/230V 1-75Hp @ 460V 1-60HP @ 575V INSTRUCTION BOOK:	DRN. BY: C. DEMORIER	DATE: 03/19/18	DWG. NO.: RDA700206
	REV. 1	REV. DATE: 07/08/18	REV. BY: T. WEBB
			SHT. 01 OF 02



Fuji Electric	DESCRIPTION: 1-30Hp @ 208/230V 1-75Hp @ 460V 1-60HP @ 575V INSTRUCTION BOOK:	DRN. BY: C. DEMORIER	DATE: 03/19/18	DWG. NO.: ROA700206
		REV. 1	REV. DATE: 07/08/18	REV. BY: T. WEBB
				SHT. 02 OF 02

FRENIC-HPAQ BYPASS FOR FANS



NOTES:
1) 30Hp @ 208/230VAC, 60-75Hp @ 460VAC, 60Hp @ 575VAC USE SEMI-CONDUCTOR FUSES, ALL OTHER RATINGS USE CLASS J TIME-DELAY FUSES.
2) WIRE ROUTING DETERMINES THE TERMINATION POINTS FOR CONTACTOR M1.
3) SECONDARY FUSE INCLUDED ON 25-30Hp @ 208/230VAC, 60-75Hp @ 460VAC, & 60Hp @ 575VAC
4) FAN INCLUDED ON 30Hp @ 208/230VAC, 60-75Hp @ 460VAC, & 60Hp @ 575VAC

LEGEND

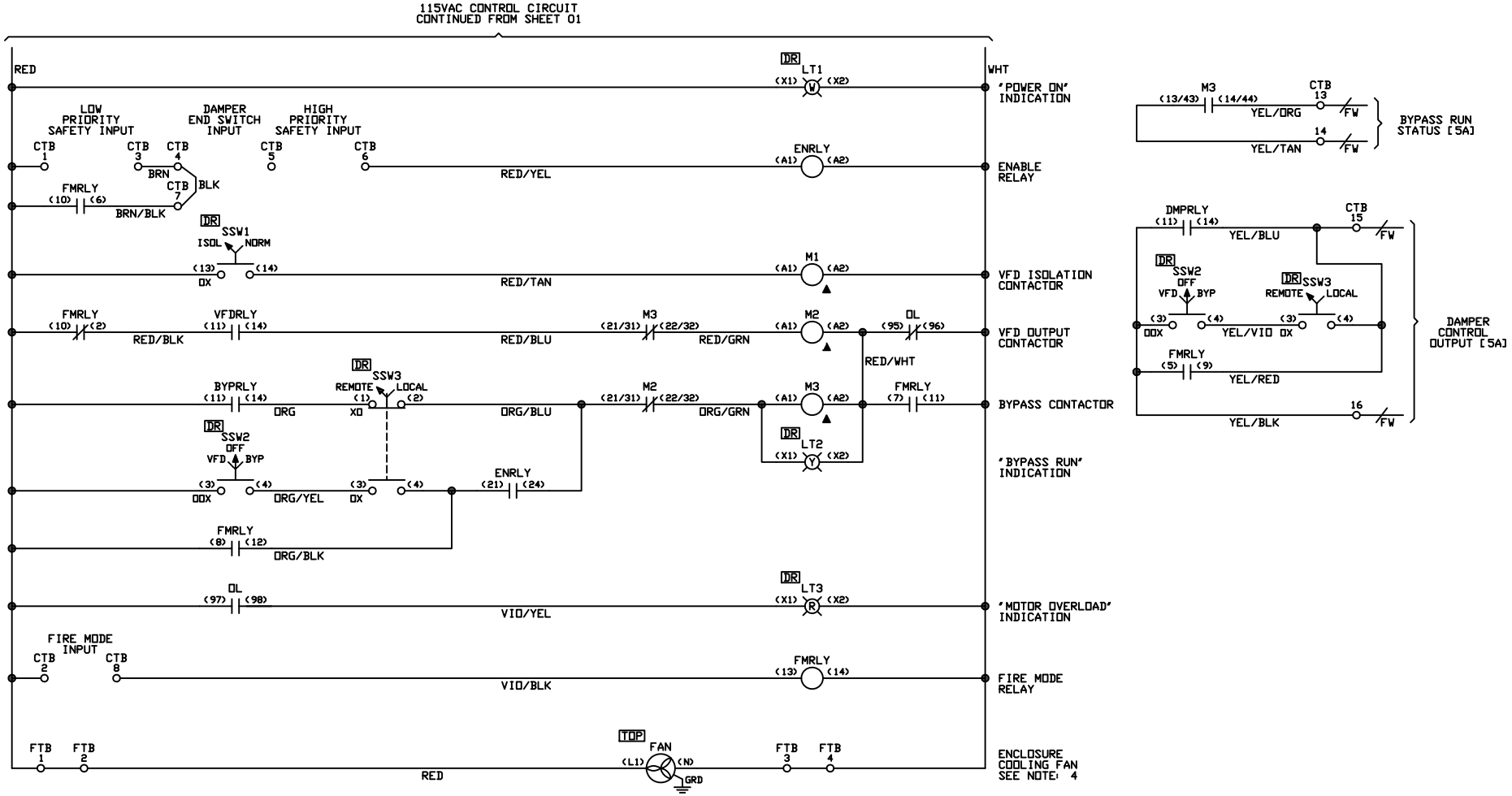
FW = CUSTOMER/FIELD WIRING

▲ = COIL SUPPRESSOR

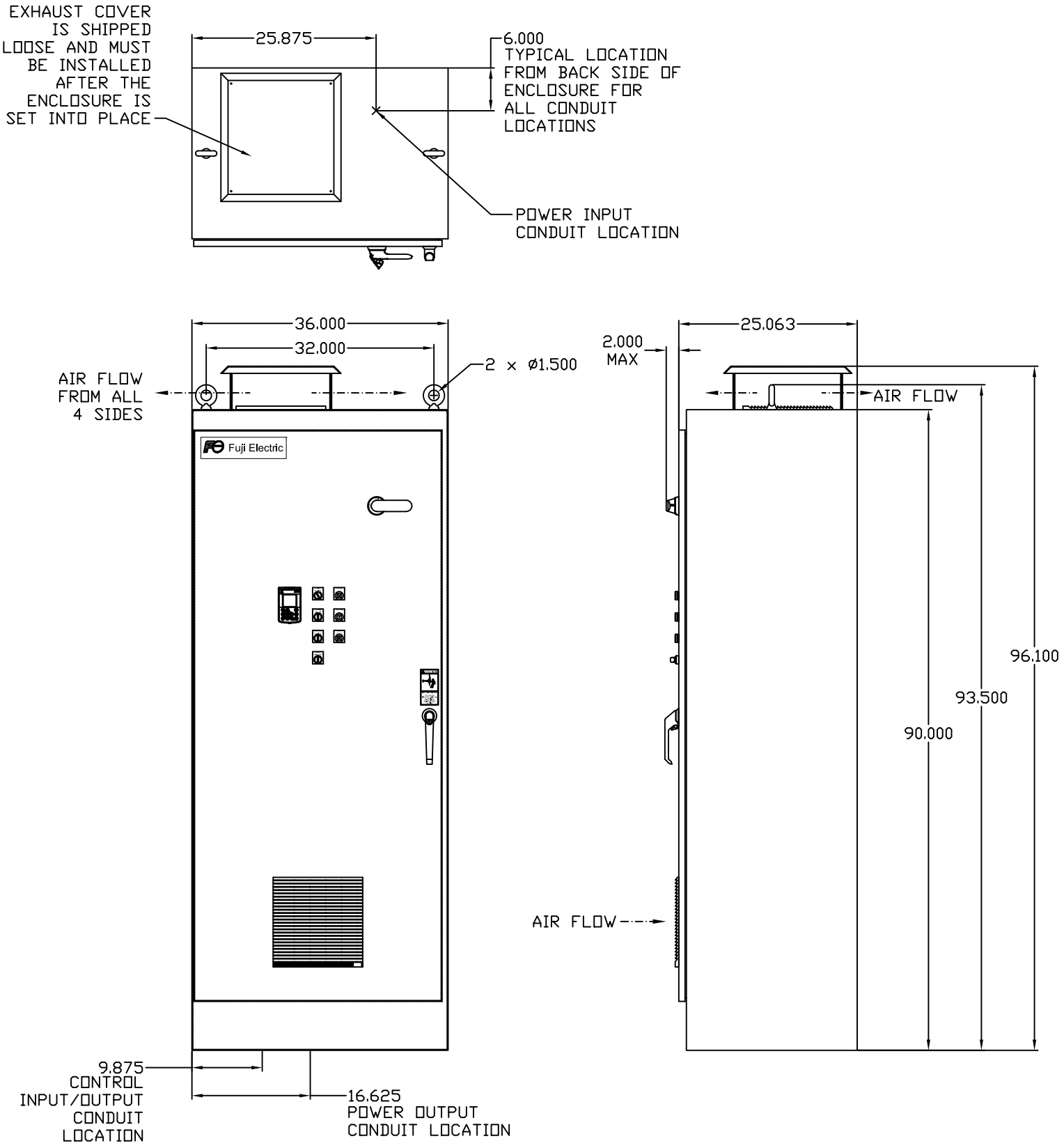
DR = DOOR MOUNTED DEVICE

Fuji Electric

DESCRIPTION: 1-30Hp @ 208/230V 1-75Hp @ 460V 1-60HP @ 575V INSTRUCTION BOOK:	DRN. BY: C. DEMORIER	DATE: 03/19/18	DWG. NO.: RDA700207
	REV. 1	REV. DATE: 07/08/18	REV. BY: T. WEBB
			SHT. 01 OF 02

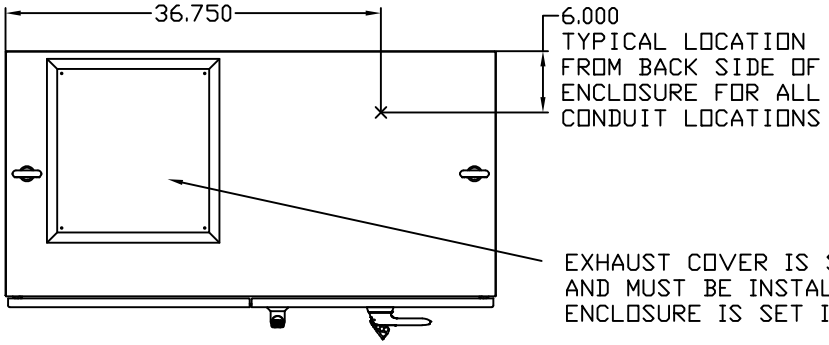


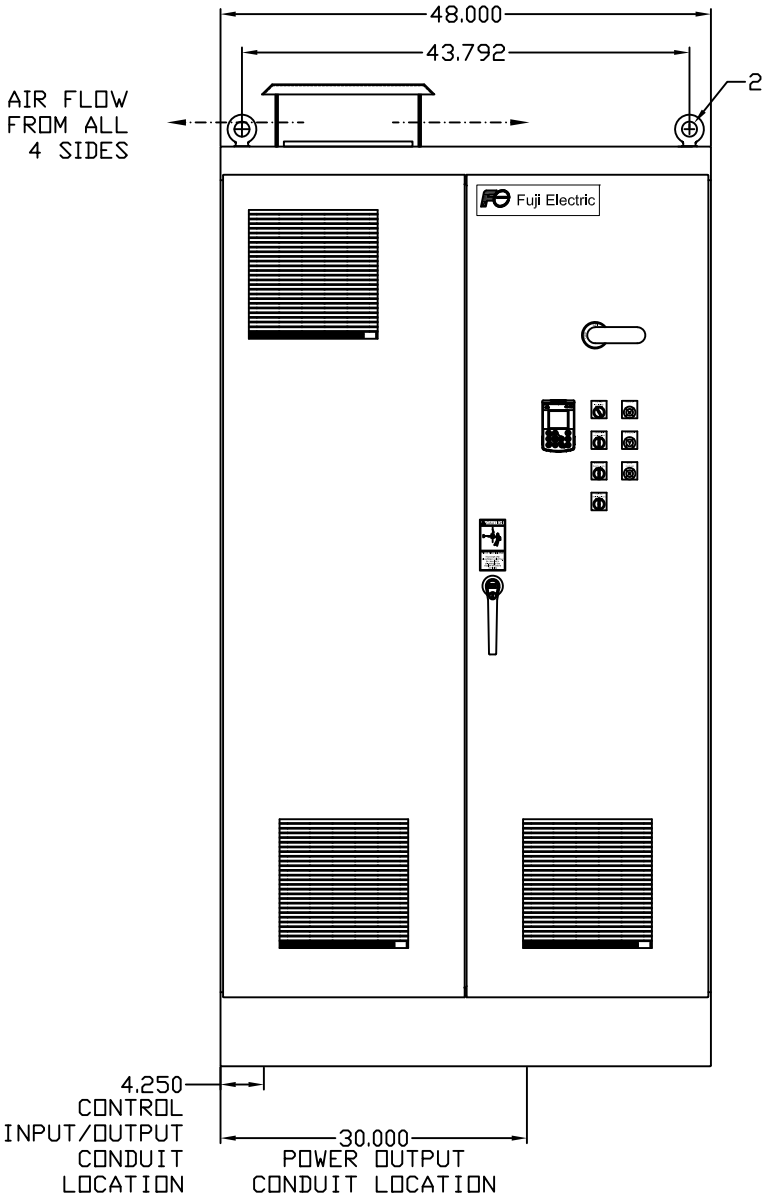
Fuji Electric	DESCRIPTION: 1-30Hp @ 208/230V 1-75Hp @ 460V 1-60HP @ 575V INSTRUCTION BOOK:	DRN. BY: C. DEMORIER	DATE: 03/19/18	DWG. NO.: ROA700207
		REV. 1	REV. DATE: 07/08/18	REV. BY: T. WEBB
				SHT. 02 OF 02

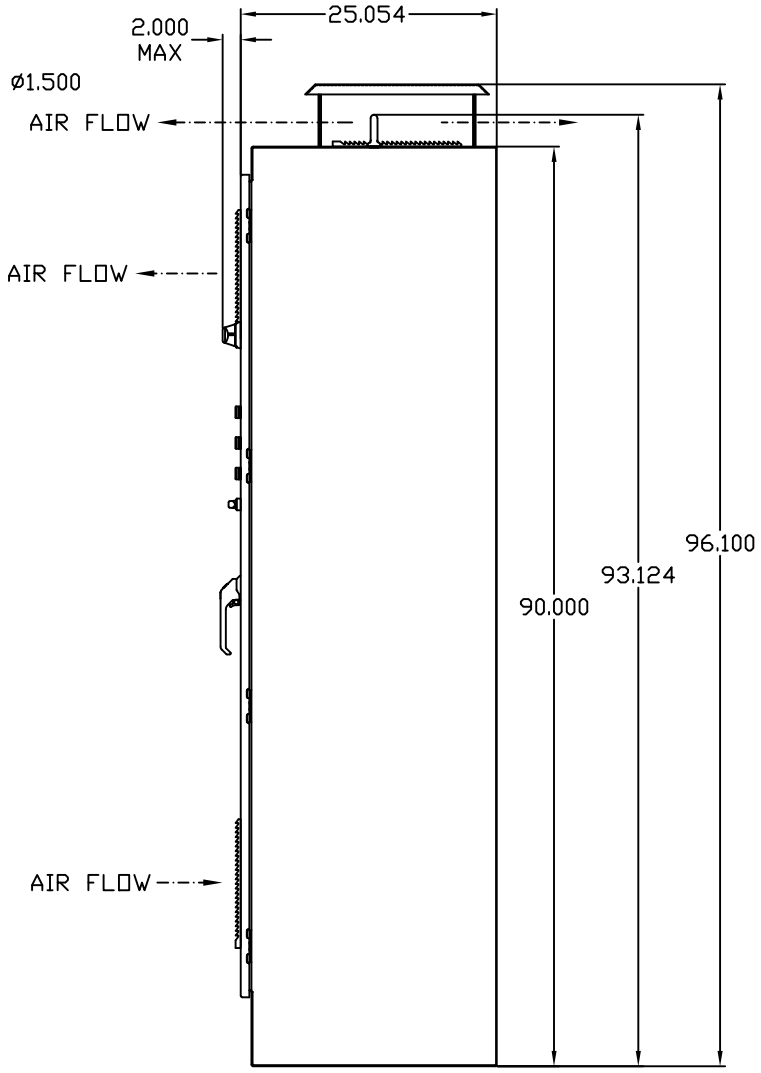


NOTES:
1) ALL DIMENSIONS ARE IN INCHES

DESCRIPTION: FRENIC-HPAQ BYPASS OUTLINE DRAWING 40Hp @ 208/230V, 100Hp @ 460V 75-100Hp @ 575V	DRN. BY: T. WEBB		DATE: 08/19/18	DWG. NO.: RDA700208
	REV. 0	REV. DATE:	REV. BY:	SHT. 01 OF 01



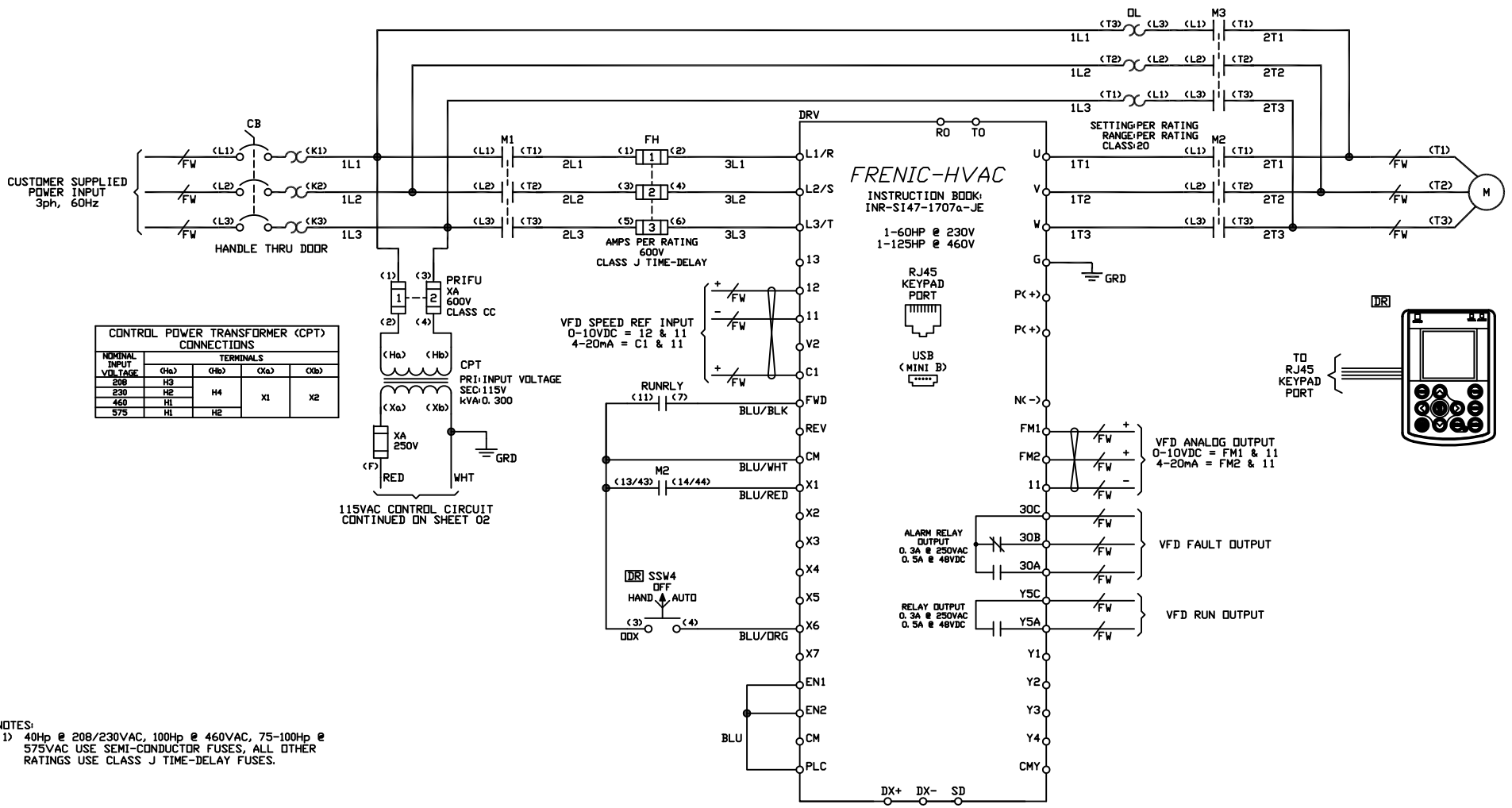




NOTES:
1) ALL DIMENSIONS ARE IN INCHES

DESCRIPTION: FRENIC-HPAQ BYPASS OUTLINE DRAWING 50-60Hp @ 208/230V, 125-200Hp @ 460V 125-200Hp @ 575V	DRN. BY: T. WEBB		DATE: 08/19/18	DWG. NO.: RDA700209
	REV. 0	REV. DATE:	REV. BY:	SHT. 01 OF 01

FRENIC-HPAQ BYPASS FOR PUMPS & COOLING TOWER FANS



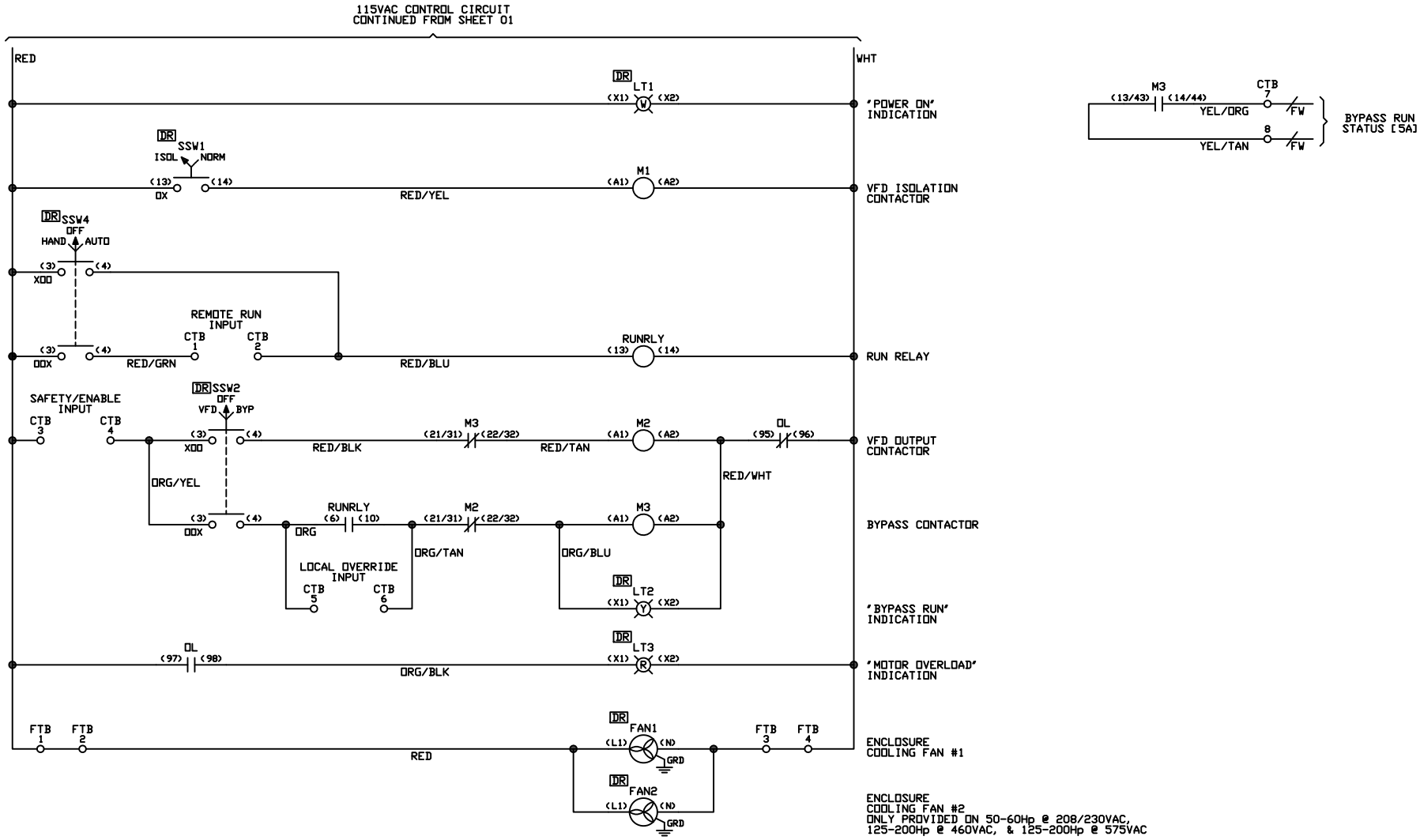
NOTES:
1) 40Hp @ 208/230VAC, 100Hp @ 460VAC, 75-100Hp @ 575VAC USE SEMI-CONDUCTOR FUSES, ALL OTHER RATINGS USE CLASS J TIME-DELAY FUSES.

LEGEND

FW = CUSTOMER/FIELD WIRING

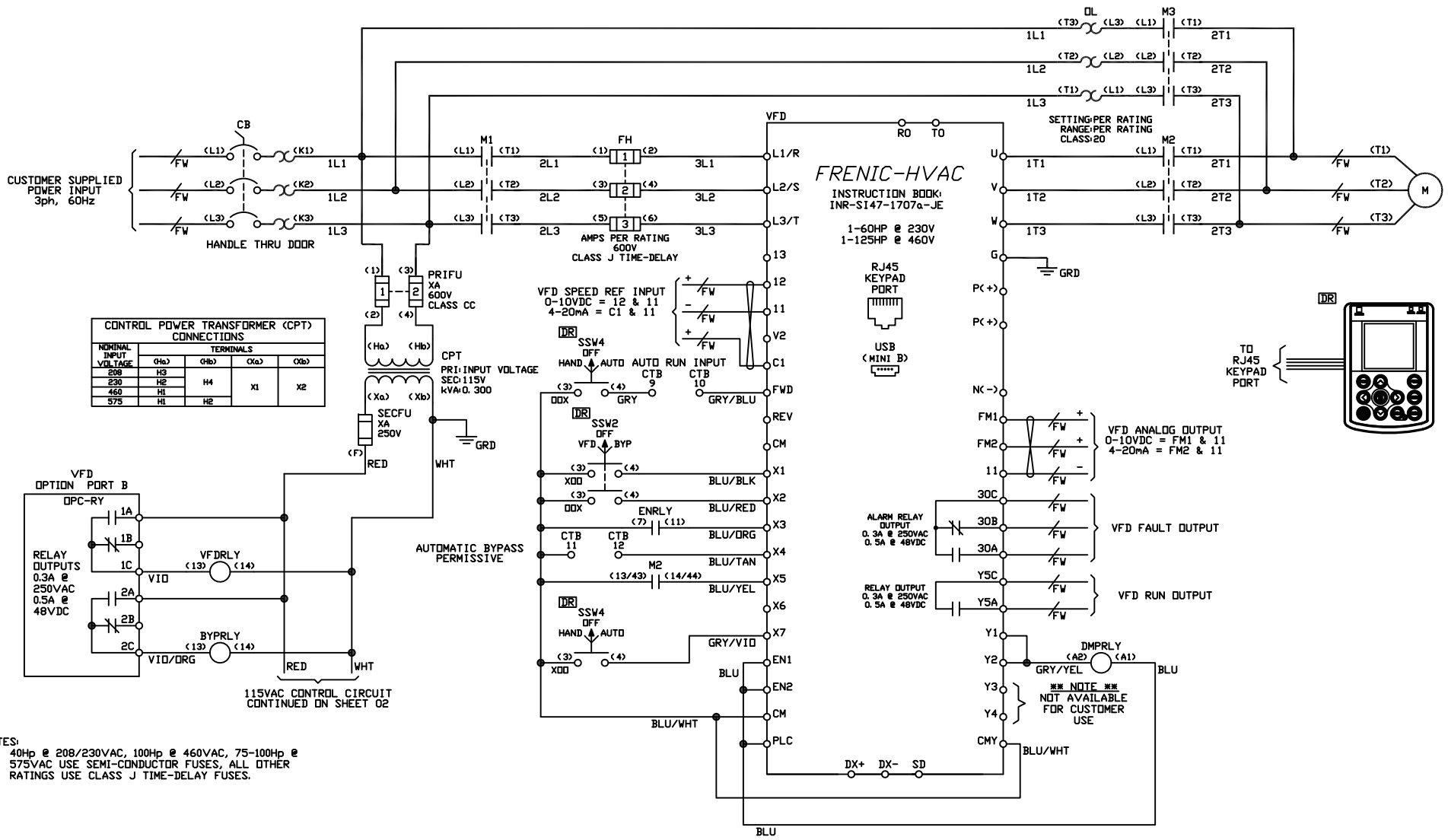
DR = DOOR MOUNTED DEVICE

Fuji Electric	DESCRIPTION: 40-60Hp @ 208/230V 100-200Hp @ 460V 75-200HP @ 575V INSTRUCTION BOOK:	DRN. BY: T. WEBB	DATE: 08/19/18	DWG. NO.: RDA700210
		REV. 0	REV. DATE:	REV. BY: SHT. 01 OF 02



Fuji Electric	DESCRIPTION: 40-60Hp @ 208/230V 100-200Hp @ 460V 75-200HP @ 575V INSTRUCTION BOOK:	DRN. BY: T. WEBB	DATE: 08/19/18	DWG. NO.: RDA700210
		REV. 0	REV. DATE:	REV. BY: SHT. 02 OF 02

FRENIC-HPAQ BYPASS FOR FANS



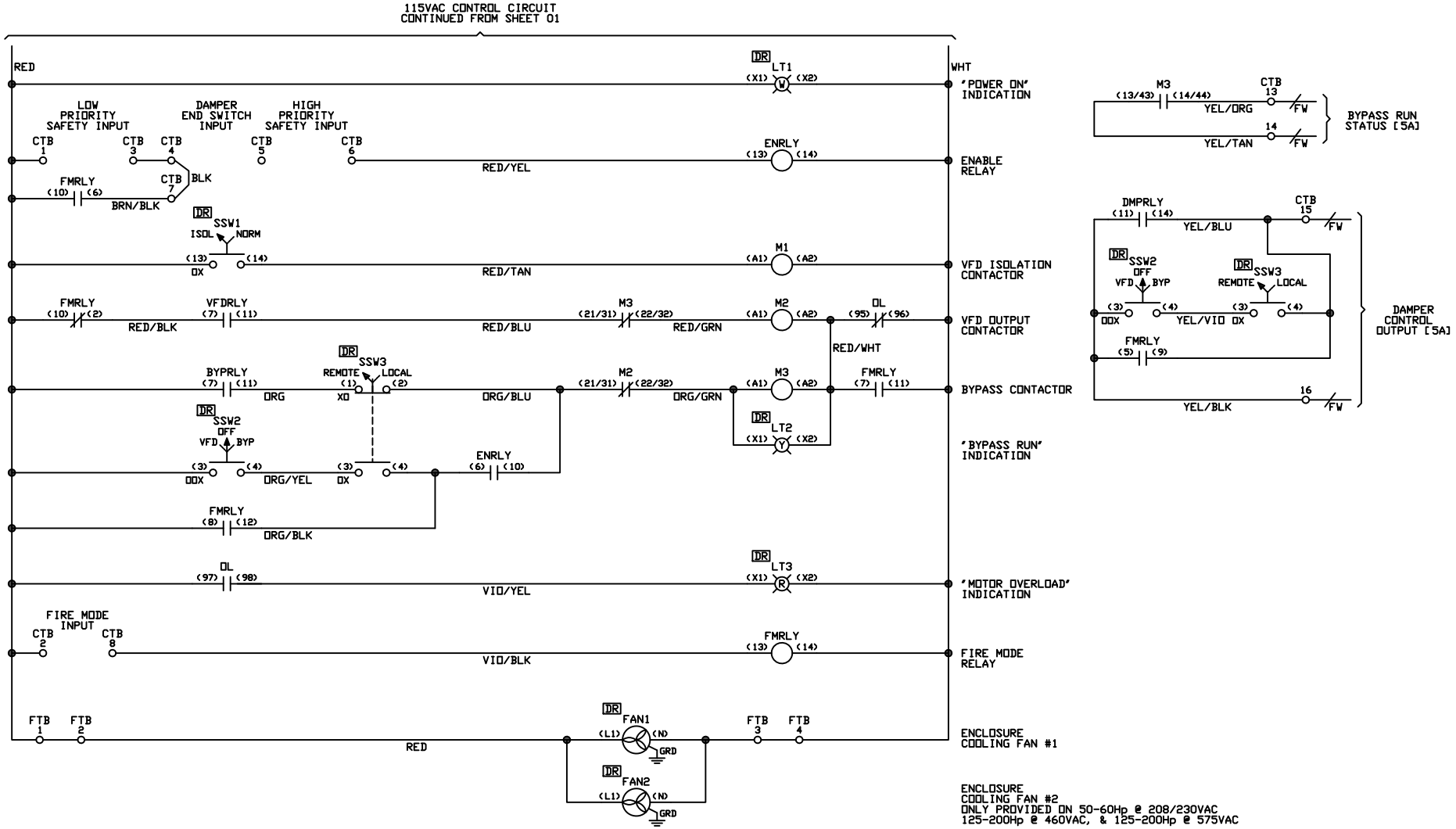
NOTES:
1) 40Hp @ 208/230VAC, 100Hp @ 460VAC, 75-100Hp @ 575VAC USE SEMI-CONDUCTOR FUSES, ALL OTHER RATINGS USE CLASS J TIME-DELAY FUSES.

LEGEND

FW = CUSTOMER/FIELD WIRING

DR = DOOR MOUNTED DEVICE

Fuji Electric	DESCRIPTION: 40-60Hp @ 208/230V 100-200Hp @ 460V 75-200HP @ 575V INSTRUCTION BOOK:	DRN. BY: T. WEBB	DATE: 08/19/18	DWG. NO.: RDA700211
		REV. 0	REV. DATE:	REV. BY: SHT. 01 OF 02



Fuji Electric	DESCRIPTION: 50-60Hp @ 208/230V 100-200QHp @ 460V 75-200HP @ 575V INSTRUCTION BOOK:	DRN. BY: T. WEBB	DATE: 08/19/18	DWG. NO.: ROA700211
		REV. 0	REV. DATE:	REV. BY: SHT. 02 OF 02