

# Submittal Summary FRENIC-HVAC Combination VFD - UL/NEMA Type 12

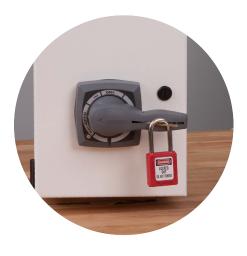
Project:	
Engineer/Architect:	
Contractor:	 -
Submitted By:	Date:

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









**FECA-SU-115** Information subject to change without notice.

## **General Specifications**

### **Environmental**

Enclosure	UL/NEMA Type 12
Ambient Temperature	+14 to +104° F (-10 to +40° C)
Storage Temperature	+5 to +140° F (-15 to +60° C)
Humidity	5% to 95% with no condensation
	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, cUL Listed per UL508A

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

### **Electrical**

Liectifical	
Input Voltage; Nominal - Phase	208VAC, 230VAC, 460VAC, 575VAC - 3 Phase
Input Voltage; Tolerance, Unbalance	+/-10%, ≤3%
Input Frequency	60Hz +/-5%
Displacement Power Factor	≥0.98 (@ rated load)
Output Voltage; Range - Phase	0 to maximum input voltage - 3 Phase
Output Frequency	0.1 to 120Hz
Motor Control Method	PWM drive output with selectable: V/f control or Dynamic Torque Vector control
PWM Switch Frequency	0.75 to 16kHz (1-25Hp @ 208/230V, 2-50Hp @ 460V, 2-50Hp @ 575V)  See FRENIC-HVAC User's Manual for derating of output current per setting of switching frequency
Drive Overload Capacity	110% rated current for 1 min.
Motor Overload	Programmable (electronic)
Torque Boost	Programmable to provide additional starting torque if required
Speed Reference	0 to ±10VDC, 0/4 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/Skip 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, user selectable functionality Qty 1: Form C dry contacts rated 0.3A @ 230V max, user selectable functionality Qty 2: 0 to 10VDC or 0/4 to 20mA analog signals, user selectable type and functionality

### FRENIC-HVAC Combination VFD

### UL/NEMA Type 12 Drawing Number Selection Matrix

### 208/230VAC

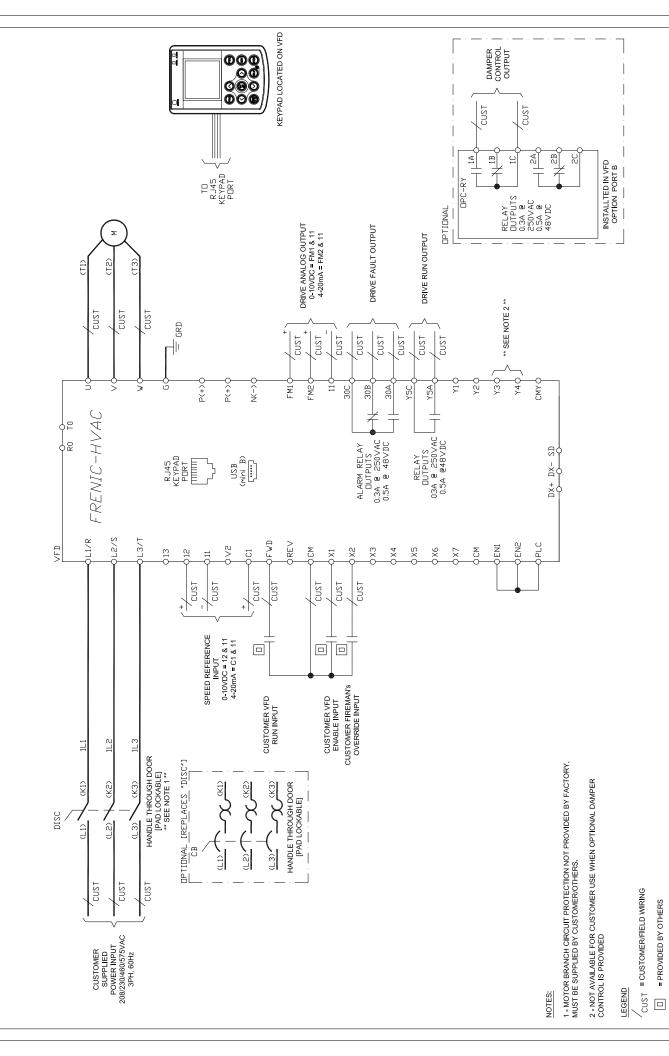
Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number
1	4.6		
2	7.5	ROA701175	
3	10.6	ROA701173	
5	16.7		
7.5	24.2		ROA701174
10	30.8	ROA701176	
15	46.2		
20	59.4	ROA701177	
25	74.8	NOA701177	

### 460VAC

700 VAC			
Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number
1	2.1		
2	3.4		
3	4.8	ROA701175	
5	7.6		
7.5	11		
10	14		ROA701174
15	21		NOA701174
20	27	ROA701176	
25	34	NOATUITO	
30	40		
40	52	ROA701177	
50	65	NOATUITT	

### 575VAC

Hp Rating	Rated Output Current [A]	Outline Drawing Number	Electrical Drawing Number
1	1.7		
2	2.7		
3	3.9	ROA701175	
5	6.1	I NOATUTTS	
7.5	9		
10	11		ROA701174
15	17		NOA701174
20	22	ROA701176	
25	27	NOMIUIIIO	
30	32		
40	41	ROA701177	
50	52	NOMIUIIII	



DESCRIPTION: FRENIC-HVAC COMBINATION VFD

1-25Hp @ 208/230VAC, 1-50Hp @ 460VAC & 1-50Hp @ 575VAC INSTRUCTION BOOK: FECA-IN-117

Fuji Electric

RDA701174

DWG. ND.:

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C. DEMORIER

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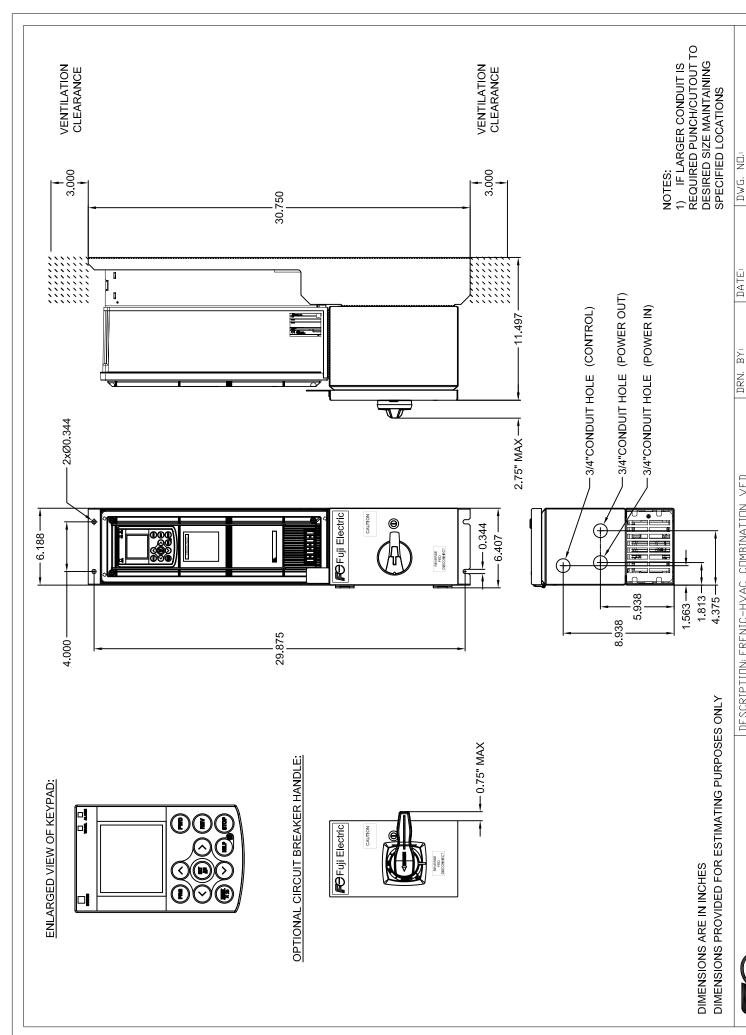
C. DEMORIER

REV REV. DATE: REV. BY:

# FRENIC-HVAC Combination VFD, UL/NEMA Type 12 - Electrical Data

Rating   R		Rated	Rated	Standard		Complete Assembly SCCR w/	Optional Circuit	Complete Assembly
Office STAPH         (A)         (A) <t< th=""><th>Hp Rating</th><th>Output Current</th><th>Input Current</th><th>Disconnect (DISC) Rating</th><th>Maximum Amp Rating &amp; Type Required ** To Be Browided By Citetomer/Others **</th><th>Disconnect &amp; Proper Motor Branch Circuit Protection</th><th>Breaker (CB) Rating</th><th>SCCR w/ Optional Circuit Breaker</th></t<>	Hp Rating	Output Current	Input Current	Disconnect (DISC) Rating	Maximum Amp Rating & Type Required ** To Be Browided By Citetomer/Others **	Disconnect & Proper Motor Branch Circuit Protection	Breaker (CB) Rating	SCCR w/ Optional Circuit Breaker
60th 3th 1         60th 3t		[A]	[A]	[A]	10 be Provided by Customer/Others	[kA]	[A]	[kA]
4.6         1.0. Class J Time-Delay Fuess         66         15           1.0.         1.0. Class J Time-Delay Fuess         65         15           1.0.         1.5. Class J Time-Delay Fuess         65         15           1.0.         1.5. Class J Time-Delay Fuess         65         20           2.4. 2         18.0         25         30A. Class J Time-Delay Fuess         50           3.0.         2.4. Class J Time-Delay Fuess         50         40           5.0.         6.3         7.0.A. Class J Time-Delay Fuess         50           5.0.         6.3         7.0.A. Class J Time-Delay Fuess         50           5.1.         1.4         1.6         1.0.A. Class J Time-Delay Fuess         65           5.2.         2.4         1.6         1.0.A. Class J Time-Delay Fuess         65           5.2         3.4         1.6         1.0.A. Class J Time-Delay Fuess         65           5.5         1.6         1.6         1.0.A. Class J Time-Delay Fuess         65           5.2         1.6         1.0.A. Class J Time-Delay Fuess         65           5.2         1.6         1.0.A. Class J Time-Delay Fuess         65           5.2         1.6         1.0.A. Class J Time-Delay Fuess         65     <	208/230V,	60Hz,	зьн					
7.5         5.3         16         10.0. Class J Time-Delay Flesss         65         15           16.7         7.5         16         10.0. Class J Time-Delay Flesss         65         15           16.7         12.3         16         15.4. Class J Time-Delay Flesss         65         20         20           24.2         18.0         2.5         30.A. Class J Time-Delay Flesss         66         25         30.A. Class J Time-Delay Flesss         50         40           30.8         24.2         65         6.3         70.A. Class J Time-Delay Flesss         50         70           59.4         48.6         6.3         70.A. Class J Time-Delay Flesss         50         70           59.4         48.6         6.3         10.A. Class J Time-Delay Flesss         65         15           59.4         48.6         6.3         10.A. Class J Time-Delay Flesss         65         15           59.4         48.6         6.5         10.A. Class J Time-Delay Flesss         65         15           59.4         48.6         6.5         48.5         68.4         48.5         68.5         10.6           59.4         48.6         6.5         48.5         48.4         48.5         48.5	1	4.6	2.8	16		99	15	99
10.6         7.5         116         16.bClass J Time-Delay Fuses         65         15         15         16         26.bClass J Time-Delay Fuses         65         25<	2	7.5	5.3	16	<ul> <li>Class J Time-Delay</li> </ul>	65	15	65
16.7         12.9         16         25.AClass J Time-Delay Fueses         65         20           30.8         24.2         63         30.AClass J Time-Delay Fueses         50         40           30.8         24.2         63         50.AClass J Time-Delay Fueses         50         40           58.4         8.6         63         100.AClass J Time-Delay Fueses         50         70           58.4         8.6         63         100.AClass J Time-Delay Fueses         50         70           50.4         3.4         10.AClass J Time-Delay Fueses         65         15         70           50.4         3.4         1.4         1.6         6AClass J Time-Delay Fueses         65         15           6.6         6.5         1.6         1.0.AClass J Time-Delay Fueses         65         15         15           7.4         8.0         1.6         6AClass J Time-Delay Fueses         65         15         15           7.4         8.0         1.6         1.0.AClass J Time-Delay Fueses         65         15         15           7.4         8.0         1.6         1.0.AClass J Time-Delay Fueses         50         50         16           7.7         8.1	က	10.6	7.5	16	- Class J Time-Delay	99	15	99
24.2         18.0         25.5         3.0A. Class J Time-Delay Fuses         65         25.5           46.2         36.0         63         7.0A. Class J Time-Delay Fuses         50         50           46.2         36.0         63         7.0A. Class J Time-Delay Fuses         50         50           74.8         48.6         63         100A. Class J Time-Delay Fuses         50         70           50Hz, 3H         4.0         80         100A. Class J Time-Delay Fuses         65         16           2.1         1.4         16         3A. Class J Time-Delay Fuses         65         15           4.8         8.6         16         16A. Class J Time-Delay Fuses         65         15           7.6         6.6         16         2A. Class J Time-Delay Fuses         65         16           7.1         1.2.1         16         16A. Class J Time-Delay Fuses         65         20           2.1         1.6         1.6         1.6         1.6         1.6         1.6           2.2         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6	2	16.7	12.9	16		65	20	65
30.8         24.2         63         GAA-Class J Time-Delay Fuses         50         40           59.4         48.6         63         TOA-Class J Time-Delay Fuses         50         70           59.4         48.6         63         100A-Class J Time-Delay Fuses         50         70           2.1         1.4         16         6.0         100A-Class J Time-Delay Fuses         65         16           2.1         1.4         1.7         1.6         1.0A-Class J Time-Delay Fuses         65         16           2.1         1.4         1.2.7         1.6         1.0A-Class J Time-Delay Fuses         65         16           2.1         1.4         1.2.7         1.6         1.0A-Class J Time-Delay Fuses         65         16           2.1         1.80         1.6         1.0A-Class J Time-Delay Fuses         65         16         1.0A-Class J Time-Delay Fuses         65         16         1.0A-Class J Time-Delay Fuses         65         1.0A-Class J Time-Delay Fuses         65         1.0A-Class J Time-Delay Fuses         66         1.0A-Class J Time-Delay Fuses <t< td=""><td>7.5</td><td>24.2</td><td>18.0</td><td>25</td><td>- Class J Time-Delay</td><td>65</td><td>25</td><td>65</td></t<>	7.5	24.2	18.0	25	- Class J Time-Delay	65	25	65
46.2         36.0         65.3         70A. Class J Time-Delay Fuses         50         50           7.8.4         4.8.6         6.3         100A. Class J Time-Delay Fuses         50         100           604r, 3PH         3A         100A. Class J Time-Delay Fuses         65         15           2.1         1.4         16         6A. Class J Time-Delay Fuses         65         15           4.8         3.8         1.6         10A. Class J Time-Delay Fuses         65         15           1.4         1.2.1         1.6         1.0A. Class J Time-Delay Fuses         65         15           1.4         1.2.1         1.6         1.0A. Class J Time-Delay Fuses         65         15           2.7         2.4.3         1.6         1.0A. Class J Time-Delay Fuses         65         20           2.7         2.4.3         6.3         50A. Class J Time-Delay Fuses         50         50           2.7         2.4.3         6.3         70A. Class J Time-Delay Fuses         50         70           4.0         5.8         6.3         70A. Class J Time-Delay Fuses         50         150           5.2         6.4         1.0         1.0A. Class J Time-Delay Fuses         65         150	10	30.8	24.2	63	- Class J Time-Delay	50	40	100
59.4         48.6         63         100A - Class J Time-Delay Fuses         50         70           72.1         1.4         66         80         100A - Class J Time-Delay Fuses         65         15           2.1         1.4         1.6         3.A - Class J Time-Delay Fuses         65         15           3.4         2.7         1.6         6.A - Class J Time-Delay Fuses         65         15           1.5         6.5         1.6         1.0A - Class J Time-Delay Fuses         65         15           1.7         1.2.1         1.6         2.0A - Class J Time-Delay Fuses         65         15           2.7         2.43         6.5         1.6         2.0A - Class J Time-Delay Fuses         65         15           2.7         2.43         6.3         3.0A - Class J Time-Delay Fuses         65         50         50           2.7         2.43         6.3         6.0A - Class J Time-Delay Fuses         50         50         50           2.7         2.44         3.0         6.3         1.0A - Class J Time-Delay Fuses         50         50           2.7         2.4         8.0         1.0A - Class J Time-Delay Fuses         6.5         6.5         1.6           2.7	15	46.2	36.0	63	- Class J Time-Delay	20	50	100
60Hz, 3PH         60 0         80         100A - Class J Time-Delay Fuses         50         100           60Hz, 3PH         1         16         3A - Class J Time-Delay Fuses         65         15           3.4         2.7         16         6A - Class J Time-Delay Fuses         65         15           7.6         6.5         16         16A - Class J Time-Delay Fuses         65         15           1.1         9.0         16         2AA - Class J Time-Delay Fuses         65         15           1.1         9.0         16         2AA - Class J Time-Delay Fuses         65         15           2.7         2.4.3         6.3         3AA - Class J Time-Delay Fuses         65         40           2.7         2.4.3         6.3         5AA - Class J Time-Delay Fuses         50         40           2.7         2.4.3         6.3         6AA - Class J Time-Delay Fuses         50         50           5.2         4.8.5         6.3         100A - Class J Time-Delay Fuses         50         50           5.2         4.8.5         6.3         10AA - Class J Time-Delay Fuses         65         15(1)           5.2         1.2         1.4         2.4         2.4         2.4         10A <td>20</td> <td>59.4</td> <td>48.6</td> <td>63</td> <td>- Class J Time-Delay</td> <td>50</td> <td>70</td> <td>100</td>	20	59.4	48.6	63	- Class J Time-Delay	50	70	100
60Hz, 39H         14         16         3A - Class J Time-Delay Fuses         65         15	22	74.8	0.09	80	- Class J Time-Delay	20	100	100
2.1         1.4         16         3A - Class J Time-Delay Fuses         65         15           3.4         2.7         16         6A - Class J Time-Delay Fuses         65         15           4.8         6.5         16         10A - Class J Time-Delay Fuses         65         15           1.1         9.0         16         15A - Class J Time-Delay Fuses         65         15           2.1         1.2.1         6.3         50A - Class J Time-Delay Fuses         65         20           2.1         1.2.3         6.3         50A - Class J Time-Delay Fuses         60         40           2.7         2.4.3         6.3         50A - Class J Time-Delay Fuses         50         40           2.7         2.4.3         6.3         50A - Class J Time-Delay Fuses         50         50           5.2         6.3         100A - Class J Time-Delay Fuses         50         70           6.5         6.0.4         80         100A - Class J Time-Delay Fuses         65         15°           6.5         6.0.4         80         100A - Class J Time-Delay Fuses         65         15°           6.0         6.0.4         80         100A - Class J Time-Delay Fuses         65         15°		60Hz, 3PH						
3.4         2.7         16         6A - Class J Time-Delay Fuses         65         15         15           4.8         3.8         16         10A - Class J Time-Delay Fuses         65         15         15           7.6         6.3         16         1.5A - Class J Time-Delay Fuses         65         15         15           1.4         12.1         16         2.5A - Class J Time-Delay Fuses         65         20         40           2.7         24.3         6.3         5.0A - Class J Time-Delay Fuses         50         40         40           2.7         24.8         6.3         5.0A - Class J Time-Delay Fuses         50         50         50           4.0         35.8         6.3         7.0A - Class J Time-Delay Fuses         50         50         70           5.0         6.3         6.0A - Class J Time-Delay Fuses         50         70         100           6.5         6.0         1.00A - Class J Time-Delay Fuses         65         15(7)         100           6.1         6.1         6.A - Class J Time-Delay Fuses         65         15(7)         100           6.1         5.2         1.6         6.A - Class J Time-Delay Fuses         65         15(7)           <	_	2.1	1.4	16		65	15	35
4.8         3.8         16         10A- Class J Time-Delay Fuses         65         15         15           7.6         6.5         16         15. Class J Time-Delay Fuses         65         15         15           2.1         18.0         26. Class J Time-Delay Fuses         65         65         26. Class J Time-Delay Fuses         65         26         26           2.1         18.0         63         60.A- Class J Time-Delay Fuses         50         40         50         40         60<	2	3.4	2.7	16		65	15	35
7.6         6.5         16         15A · Class J Time-Delay Fuses         65         15         15           1.1         9.0         16         20A · Class J Time-Delay Fuses         65         15         15           2.1         18.0         25 · Class J Time-Delay Fuses         65         25         30A · Class J Time-Delay Fuses         65         25           2.7         24.3         63         50A · Class J Time-Delay Fuses         50         40         50           5.2         48.5         63         70A · Class J Time-Delay Fuses         50         50         50           5.2         48.5         63         70A · Class J Time-Delay Fuses         50         70         50           6.04         80         100A · Class J Time-Delay Fuses         65         150         70         100           6.04         1.2         1.6         6A · Class J Time-Delay Fuses         65         150         150           6.1         5.2         1.6         6A · Class J Time-Delay Fuses         65         150         150           6.1         5.2         1.6         1.0A · Class J Time-Delay Fuses         65         150         150           7.2         1.6         6.         1.6 · Cl	က	4.8	3.8	16		65	15	35
11         9.0         16         20A - Class J Time-Delay Fuses         65         15           14         12.1         16         25A - Class J Time-Delay Fuses         65         25         20           27         24.3         63         50A - Class J Time-Delay Fuses         50         40         25           34         30.0         63         60A - Class J Time-Delay Fuses         50         50         40           55         48.5         63         100A - Class J Time-Delay Fuses         50         50         50           55         48.5         63         100A - Class J Time-Delay Fuses         50         50         50           604, 39H         48.5         60         100A - Class J Time-Delay Fuses         65         15(1)         70           604, 27         1.2         1.2         16         6A - Class J Time-Delay Fuses         65         15(1)           1.7         1.2         1.6         1.4         1.4         1.4         1.5A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         1.6         1.5A - Class J Time-Delay Fuses         65         20(1)         15(1)           1.1         9.7         1.6         1.5A - Class J T	2	9.7	6.5	16		99	15	35
14         12.1         16         25A - Class J Time-Delay Fuses         65         20           21         18.0         25         30A - Class J Time-Delay Fuses         65         25           27         24.3         63         60A - Class J Time-Delay Fuses         50         60           30         63         60A - Class J Time-Delay Fuses         50         50           52         48.5         63         70A - Class J Time-Delay Fuses         50         50           6042, 3PH         80         100A - Class J Time-Delay Fuses         50         70         70           664, 21         14         80         100A - Class J Time-Delay Fuses         65         15(7)         70           6.1         1,2         16         6A - Class J Time-Delay Fuses         65         15(7)         16(7)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(7)         16(7)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(7)         16(7)           7.2         16         16         10A - Class J Time-Delay Fuses         65         15(7)         16(7)           8.1         16         20A - Clas	7.5	11	9.0	16		99	15	35
21         18.0         25         30.4 Class J Time-Delay Fuses         65         25           27         24.3         63         60.4 Class J Time-Delay Fuses         50         40           34         30.0         63         60.4 Class J Time-Delay Fuses         50         50           52         48.5         63         7.04 - Class J Time-Delay Fuses         50         70           66         60.4         80         1.00A - Class J Time-Delay Fuses         50         70           66         60.4         80         1.00A - Class J Time-Delay Fuses         65         15(1)           60kt, 3pH         1.2         1.6         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         1.6         1.0A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         1.6         1.0A - Class J Time-Delay Fuses         65         15(1)           7.1         1.4         2.5         2.6A - Class J Time-Delay Fuses         65         15(1)           8.1         1.6         1.0A - Class J Time-Delay Fuses         65         20(1)           8.2         2.5         2.6A - Class J Time-Delay Fuses         65         20(1) <t< td=""><td>10</td><td>14</td><td>12.1</td><td>16</td><td></td><td>65</td><td>20</td><td>35</td></t<>	10	14	12.1	16		65	20	35
27         24.3         63         50A - Class J Time-Delay Fuses         50         40           34         30.0         63         60A - Class J Time-Delay Fuses         50         50           40         35.8         63         100A - Class J Time-Delay Fuses         50         70           65         60.4         80         100A - Class J Time-Delay Fuses         65         100           604z, 3PH         1.2         16         3A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         16A - Class J Time-Delay Fuses         65         15(1)           7         14.4         25         26A - Class J Time-Delay Fuses         65         20(1)           1         9.7         16         16A - Class J Time-Delay Fuses         65         30(1)           2         2.2         16A - Class J Time-Delay Fuses         60         40	15	21	18.0	25	<ul> <li>Class J Time-Delay</li> </ul>	65	25	35
34         30.0         63         60A - Class J Time-Delay Fuses         50         50           40         35.8         63         70A - Class J Time-Delay Fuses         50         70           52         48.5         63         100A - Class J Time-Delay Fuses         50         70           604z, 3PH         80         100A - Class J Time-Delay Fuses         65         15(1)           1.2         16         6A - Class J Time-Delay Fuses         65         15(1)           2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)           9         7.2         16         20A - Class J Time-Delay Fuses         65         15(1)           11         9.7         16         20A - Class J Time-Delay Fuses         65         15(1)           22         19.5         25A - Class J Time-Delay Fuses         65         30(1)           23         28.6         63         40A - Class J Time-Delay Fuses         50         40           27         28.6	20	27	24.3	63		50	40	65
40         35.8         63         70A - Class J Time-Delay Fuses         50         50           52         48.5         63         100A - Class J Time-Delay Fuses         50         70           60Hz, 3P A         80         100A - Class J Time-Delay Fuses         65         15(1)           60Hz, 3P A         1           60Hz, 3P A         1.2         16         3A - Class J Time-Delay Fuses         65         15(1)           2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)           9         7.2         16         10A - Class J Time-Delay Fuses         65         15(1)           11         9.7         16         10A - Class J Time-Delay Fuses         65         20(1)           12         1.4         2.5         2.5A - Class J Time-Delay Fuses         65         20(1)           22         1.9.5         63         4.0A - Class J Time-Delay Fuses         50         40           23         28.6         63         50A - Class J Time-Delay Fuses         50         60           24         48.3         63 <t< td=""><td>25</td><td>34</td><td>30.0</td><td>63</td><td></td><td>50</td><td>20</td><td>65</td></t<>	25	34	30.0	63		50	20	65
52         48.5         63         100A - Class J Time-Delay Fuses         50         70           6btz, 3PH         48.5         60.4         80         100A - Class J Time-Delay Fuses         50         70           6btz, 3PH         1.2         16         3A - Class J Time-Delay Fuses         65         55         15(1)           2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(1)         15(1)           6.1         5.2         16         6A - Class J Time-Delay Fuses         65         55         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)         15(1)           9         7.2         16         16A - Class J Time-Delay Fuses         65         15(1)         15(1)           11         9.7         16         20A - Class J Time-Delay Fuses         65         20(1)         15(1)           22         19.5         25         30A - Class J Time-Delay Fuses         50         40         40           23         28.6         63         40A - Class J Time-Delay Fuses         50         40         40           24         38.8         63         70A - Class J Time-Delay Fuses         50	30	40	35.8	63		50	20	65
65         60.4         80         100A - Class J Time-Delay Fuses         50         100           60Hz, 3PH         3A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           1.7         1.2         16         6A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           6.1         5.2         16         6A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           9         7.2         16         20A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           11         9.7         16         20A - Class J Time-Delay Fuses         65         20(¹)         20(¹)           22         19.5         25         30A - Class J Time-Delay Fuses         50         40         40           24         63         63         60A - Class J Time-Delay Fuses         50         40         60           25         28.6         63         60A - Class J Time-Delay Fuses         50         40         60<	40	52	48.5	63		50	70	99
60Hz, 3PH         3A - Class J Time-Delay Fuses         65         15(1)           1.7         1.2         16         3A - Class J Time-Delay Fuses         65         15(1)           2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         16A - Class J Time-Delay Fuses         65         15(1)           11         9.7         16         20A - Class J Time-Delay Fuses         65         15(1)           12         14.4         25         25A - Class J Time-Delay Fuses         65         20(1)           22         19.5         25         30A - Class J Time-Delay Fuses         50         30(1)           27         24.0         63         40A - Class J Time-Delay Fuses         50         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         60           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	20	65	60.4	80	- Class	50	100	99
1.7         1.2         16         3A - Class J Time-Delay Fuses         65         15(1)         15(1)           2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(1)         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)         15(1)           9         7.2         16         10A - Class J Time-Delay Fuses         65         15(1)         15(1)           11         9.7         16         20A - Class J Time-Delay Fuses         65         15(1)         15(1)           22         19.5         25 - Class J Time-Delay Fuses         65         20(1)         20(1)           22         19.5         25 - Class J Time-Delay Fuses         65         30(1)         10(1)           24         63         40A - Class J Time-Delay Fuses         50         40         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40         50           41         38.8         63         70A - Class J Time-Delay Fuses         50         60         60           52         48.3         63         100A - Class J Time-Delay Fuses         50         60         60		60Нz, 3РН						
2.7         2.1         16         6A - Class J Time-Delay Fuses         65         15(1)           3.9         3.0         16         6A - Class J Time-Delay Fuses         65         15(1)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)           9         7.2         16         15A - Class J Time-Delay Fuses         65         15(1)           11         9.7         16         20A - Class J Time-Delay Fuses         65         15(1)           22         19.5         25         25A - Class J Time-Delay Fuses         65         30(1)           27         24.0         63         40A - Class J Time-Delay Fuses         50         30(1)           32         28.6         63         50A - Class J Time-Delay Fuses         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         40           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	-	1.7	1.2	16		65	15(1)	18
3.9         3.0         16         6A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           11         9.7         16         20A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           17         14.4         25         25A - Class J Time-Delay Fuses         65         20(¹)         20(¹)           22         19.5         25         30A - Class J Time-Delay Fuses         65         30(¹)         40           27         24.0         63         40A - Class J Time-Delay Fuses         50         40         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50         50         50           52         48.3         63         70A - Class J Time-Delay Fuses         50         60         60	2	2.7	2.1	16		65	15(1)	18
6.1         5.2         16         10A - Class J Time-Delay Fuses         65         15(1)         15(1)           9         7.2         16         15A - Class J Time-Delay Fuses         65         15(1)         15(1)           11         9.7         16         20A - Class J Time-Delay Fuses         65         20(1)         15(1)           17         14.4         25         25A - Class J Time-Delay Fuses         65         20(1)         20(1)           22         19.5         25         30A - Class J Time-Delay Fuses         50         40         40           27         24.0         63         40A - Class J Time-Delay Fuses         50         40         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60         60	က	3.9	3.0	16		65	15 <sup>(1)</sup>	18
9         7.2         16         15A - Class J Time-Delay Fuses         65         15(¹)         15(¹)           11         9.7         16         20A - Class J Time-Delay Fuses         65         20(¹)         15(¹)           17         14.4         25         25A - Class J Time-Delay Fuses         65         20(¹)         20(¹)           22         19.5         25         30A - Class J Time-Delay Fuses         50         30(¹)         20(¹)           27         24.0         63         40A - Class J Time-Delay Fuses         50         40         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40         50           41         38.8         63         100A - Class J Time-Delay Fuses         50         60         60           52         48.3         63         100A - Class J Time-Delay Fuses         50         60         60	2	6.1	5.2	16		65	15 <sup>(1)</sup>	18
11         9.7         16         20A - Class J Time-Delay Fuses         65         15(¹)           17         14.4         25         25A - Class J Time-Delay Fuses         65         20(¹)           22         19.5         25         30A - Class J Time-Delay Fuses         50         30(¹)           27         24.0         63         40A - Class J Time-Delay Fuses         50         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	7.5	6	7.2	16		65	15 <sup>(1)</sup>	18
17         14.4         25         25A - Class J Time-Delay Fuses         65         20 <sup>(1)</sup> 22         19.5         25         30A - Class J Time-Delay Fuses         65         30 <sup>(1)</sup> 27         24.0         63         40A - Class J Time-Delay Fuses         50         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	10	11	9.7	16		65	15(1)	18
22         19.5         25         30A - Class J Time-Delay Fuses         65         30 <sup>(1)</sup> 27         24.0         63         40A - Class J Time-Delay Fuses         50         40           32         28.6         63         50A - Class J Time-Delay Fuses         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	15	17	14.4	25	- Class	65	20 <sup>(1)</sup>	18
27         24.0         63         40A - Class J Time-Delay Fuses         50         30 <sup>(1)</sup> 32         28.6         63         50A - Class J Time-Delay Fuses         50         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	20	22	19.5	25	<ul> <li>Class J Time-Delay</li> </ul>	65	30 <sup>(1)</sup>	18
32         28.6         63         50A - Class J Time-Delay Fuses         50         40         40           41         38.8         63         70A - Class J Time-Delay Fuses         50         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60         60	25	27	24.0	63	<ul> <li>Class J Time-Delay</li> </ul>	50	30 <sup>(1)</sup>	18
41         38.8         63         70A - Class J Time-Delay Fuses         50         50           52         48.3         63         100A - Class J Time-Delay Fuses         50         60	30	32	28.6	63		50	40	35
52 48.3 63 100A - Class J Ime-Delay Fuses 50 60	40	41	38.8	63	<u>.                                    </u>	50	20	35
	20	52	48.3	63		50	09	35

<u>Notes:</u>
(1) = Circuit Breaker is Rated for Connecting to Wye Power Distribution Systems ONLY



DESCRIPTION: FRENIC-HVAC COMBINATION VFD

Fuji Electric

1-5Hp @ 208/230VAC, 1-10Hp @ 460VAC 1-10Hp @ 575VAC | UL-TYPE 1 & 12 INSTRUCTION BOOK: FECA-IN-117

RDA701175

SHT, 1 OF 1

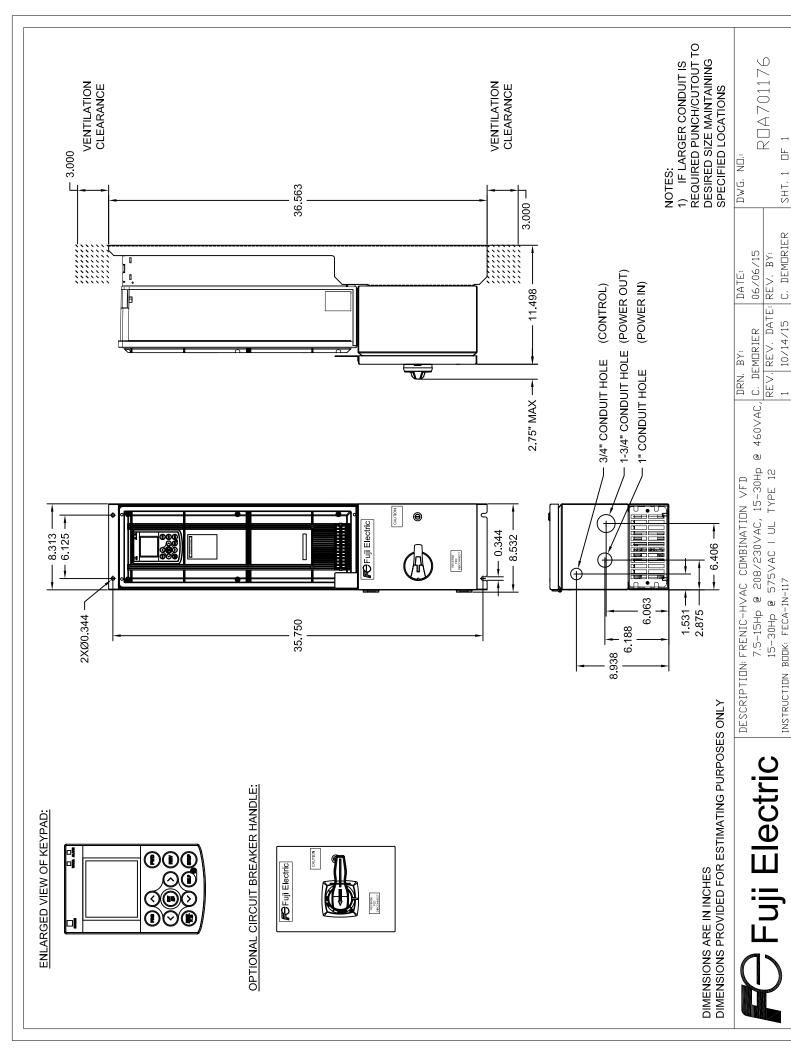
C. DEMORIER

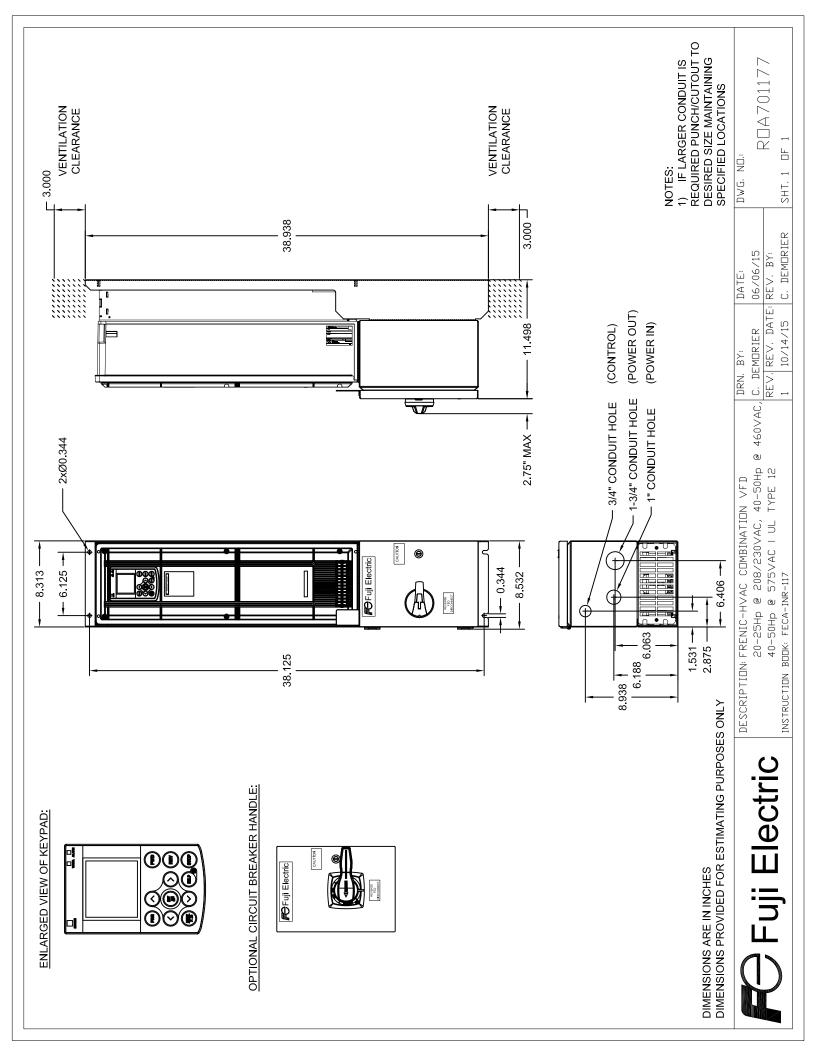
10/08/15

06/06/15

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REV REV. DATE: REV. BY:





# **FRENIC-HVAC** Combination VFD UL/NEMA Type 12 - Mechanical Data

11	Overall Dimensions -	Estimated	Estimated		
Hp Rating	Height x Width x Depth [inches]	Max. Weight [lbs]	Max. Watts Loss [W]		
		[ins]	[AA]		
	AC, 60Hz, 3PH		07		
1			67		
2	30.75 x 6.41 x 14.25	41	99		
3			136		
5			247		
7.5		65	301		
10	36.56 x 8.53 x 14.25	67	380		
15			518		
20	38.94 x 8.53 x 14.25	78	681		
25			735		
460VAC, 6	60Hz, 3PH				
1			54		
2			69		
3	30 75 v 6 41 v 14 25	41	89		
5	30.75 x 6.41 x 14.25	41	139		
7.5			189		
10			265		
15		65	352		
20	36.56 x 8.53 x 14.25		452		
25	30.30 X 6.33 X 14.23	67	467		
30			613		
40	20.04 0.52 44.05	70	814		
50	38.94 x 8.53 x 14.25	78	927		
575VAC, 60Hz, 3PH					
1			46		
2			57		
3	20.75 v.C.44 v.44.05	44	67		
5	30.75 x 6.41 x 14.25	41	99		
7.5			130		
10			173		
15		65	222		
20	00.50 0.50 44.05		285		
25	36.56 x 8.53 x 14.25	67	340		
30			392		
40	00.04 0.50 44.05		546		
50	38.94 x 8.53 x 14.25	78	650		