

PowerFlex 70 and 700 Packages for Fan and Pump Applications

Catalog Numbers 21V, 21W

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Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
PowerFlex 70 and 700 Packages for Fan and Pump Applications Installation Instructions, publication 21VW-IN001	Provides installation information, drawings, and parameter defaults specific to the packaged fan and pump applications.
PowerFlex 70 and 700 Packages for Fan and Pump Applications Product Information, publication 21VW-PC001	Provides fuse, circuit breaker, and short circuit current rating specifications unique to the packaged fan and pump applications.
PowerFlex 70 AC Drives User Manual publication 20A-UM001	Provides the basic information needed to install, start, and troubleshoot the PowerFlex 70 and 700 drives.
PowerFlex 700 Adjustable Frequency AC Drive User Manual, publication 20B-UM001	
PowerFlex 70 & 700 Adjustable Frequency AC Drive Reference Manual, publication PFLEX-RM001	Provides specification and operation details for the PowerFlex 70 and 700 drives.
PowerFlex 70 Enhanced Control and 700 Vector Control Reference Manual, publication PFLEX-RM004	

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

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Main Input Disconnect Drive Packages (style A)

The tables on the following pages provide links to the drawings for the various voltages and kW/Hp ratings for the style A packaged drives:

- [Table 1, Main Input Disconnect Drive Packages \(style A\), 208V on page 3](#)
- [Table 2, Main Input Disconnect Drive Packages \(style A\), 480V on page 4](#)
- [Table 3, Main Input Disconnect Drive Packages \(style A\), 600V on page 5](#)

Table 1 - Main Input Disconnect Drive Packages (style A), 208V

Input Voltage	kW	Hp	Input Line Reactor	Cat. No.	Drawing			
					Outline	Layout	Schematic	Inter-connect
208V AC	0.75	1	No	21VX4P2A_AY_A_COAN	Figure 17 on page 22	Figure 7 on page 12	Figure 1 on page 6	Figure 4 on page 9
	1.5	2		21VX6P8A_AY_A_COAN				
	2.2	3		21VX9P6A_AY_A_COAN				
	4	5		21VX015A_AY_A_COAN	Figure 18 on page 23	Figure 8 on page 13		
	5.5	7.5		21VX022A_AY_A_COAN	Figure 19 on page 24			
	7.5	10		21VX028A_AY_A_COAN				
	11	15		21VX042A_AY_A_COAN	Figure 20 on page 25	Figure 9 on page 14		
	0.75	1	Yes	21VX4P2A_AY_A_COAN-LR	Figure 25 on page 30	Figure 14 on page 19	Figure 2 on page 7	Figure 6 on page 11
	1.5	2		21VX6P8A_AY_A_COAN-LR				
	2.2	3		21VX9P6A_AY_A_COAN-LR				
	4	5		21VX015A_AY_A_COAN-LR	Figure 26 on page 31	Figure 15 on page 20		
	5.5	7.5		21VX022A_AY_A_COAN-LR	Figure 27 on page 32	Figure 16 on page 21		
	7.5	10		21VX028A_AY_A_COAN-LR				

Table 2 - Main Input Disconnect Drive Packages (style A), 480V

Input Voltage	kW	Hp	Input Line Reactor	Cat. No.	Drawing								
					Outline	Layout	Schematic	Inter-connect					
480V AC	0.75	1.0	No	21VD2P1A_AY_A_COAN	Figure 17 on page 22	Figure 7 on page 12	Figure 1 on page 6	Figure 4 on page 9					
	1.5	2.0		21VD3P4A_AY_A_COAN									
	2.2	3.0		21VD5P0A_AY_A_COAN									
	4.0	5.0		21VD8P0A_AY_A_COAN									
	5.5	7.5		21VD011A_AY_A_COAN	Figure 18 on page 23	Figure 8 on page 13							
	7.5	10		21VD014A_AY_A_COAN									
	11	15		21VD022A_AY_A_COAN	Figure 19 on page 24								
	15	20		21VD027A_AY_A_COAN									
	18.5	25		21VD034A_AY_A_COAN									
	22	30		21VD040A_AY_A_COAN	Figure 20 on page 25	Figure 9 on page 14							
	30	40		21VD052A_AYNA_COAN	Figure 21 on page 26	Figure 10 on page 15							
	37	50		21VD065A_AYNA_COAN									
	45	60		21WD077A_A_NA_A0AN	Figure 22 on page 27	Figure 11 on page 16	Figure 3 on page 8	Figure 5 on page 10					
	55	75		21WD096A_A_NA_A0AN	Figure 23 on page 28	Figure 12 on page 17							
	75	100		21WD125A_A_NA_A0AN									
	90	125		21WD156A_A_NA_A0AN									
	110	150		21WD180A_A_NA_A0AN	Figure 24 on page 29	Figure 13 on page 18							
	132	200		21WD248A_A_NA_A0AN									
	0.75	1.0	Yes	21VD2P1A_AY_A_COAN-LR	Figure 25 on page 30	Figure 14 on page 19	Figure 2 on page 7	Figure 6 on page 11					
	1.5	2.0		21VD3P4A_AY_A_COAN-LR									
	2.2	3.0		21VD5P0A_AY_A_COAN-LR									
	4.0	5.0		21VD8P0A_AY_A_COAN-LR									
	5.5	7.5		21VD011A_AY_A_COAN-LR	Figure 26 on page 31	Figure 15 on page 20							
	7.5	10		21VD014A_AY_A_COAN-LR									
	11	15		21VD022A_AY_A_COAN-LR	Figure 27 on page 32	Figure 16 on page 21							
	15	20		21VD027A_AY_A_COAN-LR									
	18.5	25		21VD034A_AY_A_COAN-LR									

Table 3 - Main Input Disconnect Drive Packages (style A), 600V

Input Voltage	kW	Hp	Input Line Reactor	Cat. No.	Drawing			
					Outline	Layout	Schematic	Inter-connect
600V AC	2.2	3.0	No	21VE3P9A_AY_N_COAN	Figure 17 on page 22	Figure 7 on page 12	Figure 1 on page 6	Figure 4 on page 9
	4.0	5.0		21VE6P1A_AY_N_COAN				
	5.5	7.5		21VE9P0A_AY_N_COAN	Figure 18 on page 23	Figure 8 on page 13		
	7.5	10		21VE011A_AY_N_COAN				
	11	15		21VE017A_AYNN_COAN	Figure 19 on page 24			
	15	20		21VE022A_AYNN_COAN				
	18.5	25		21VE027A_AYNN_COAN				
	22	30		21VE032A_AYNN_COAN	Figure 20 on page 25	Figure 9 on page 14		
	30	40		21VE041A_AYNN_COAN	Figure 21 on page 26	Figure 10 on page 15		
	37	50		21VE052A_AYNN_COAN				
	45	60		21WE062A_A_NA_AOAN	Figure 22 on page 27	Figure 11 on page 16	Figure 3 on page 8	Figure 5 on page 10
	55	75		21WE077A_A_NA_AOAN	Figure 23 on page 28	Figure 12 on page 17		
	75	100		21WE099A_A_NA_AOAN				
	90	125		21WE125A_A_NA_AOAN	Figure 24 on page 29	Figure 13 on page 18		
	110	150		21WE144A_A_NA_AOAN				
	2.2	3.0	Yes	21VE3P9A_AY_N_COAN-LR	Figure 25 on page 30	Figure 14 on page 19	Figure 2 on page 7	Figure 6 on page 11
	4.0	5.0		21VE6P1A_AY_N_COAN-LR				
	5.5	7.5		21VE9P0A_AY_N_COAN-LR	Figure 26 on page 31	Figure 15 on page 20		
	7.5	10		21VE011A_AY_N_COAN-LR				
	11	15		21VE017A_AYNN_COAN-LR	Figure 27 on page 32	Figure 16 on page 21		
	15	20		21VE022A_AYNN_COAN-LR				
	18.5	25		21VE027A_AYNN_COAN-LR				

Schematic Drawings

Figure 1 - 1...15 Hp, 208V AC; and 1...50 Hp, 480V AC and 600V AC Drives (style A)

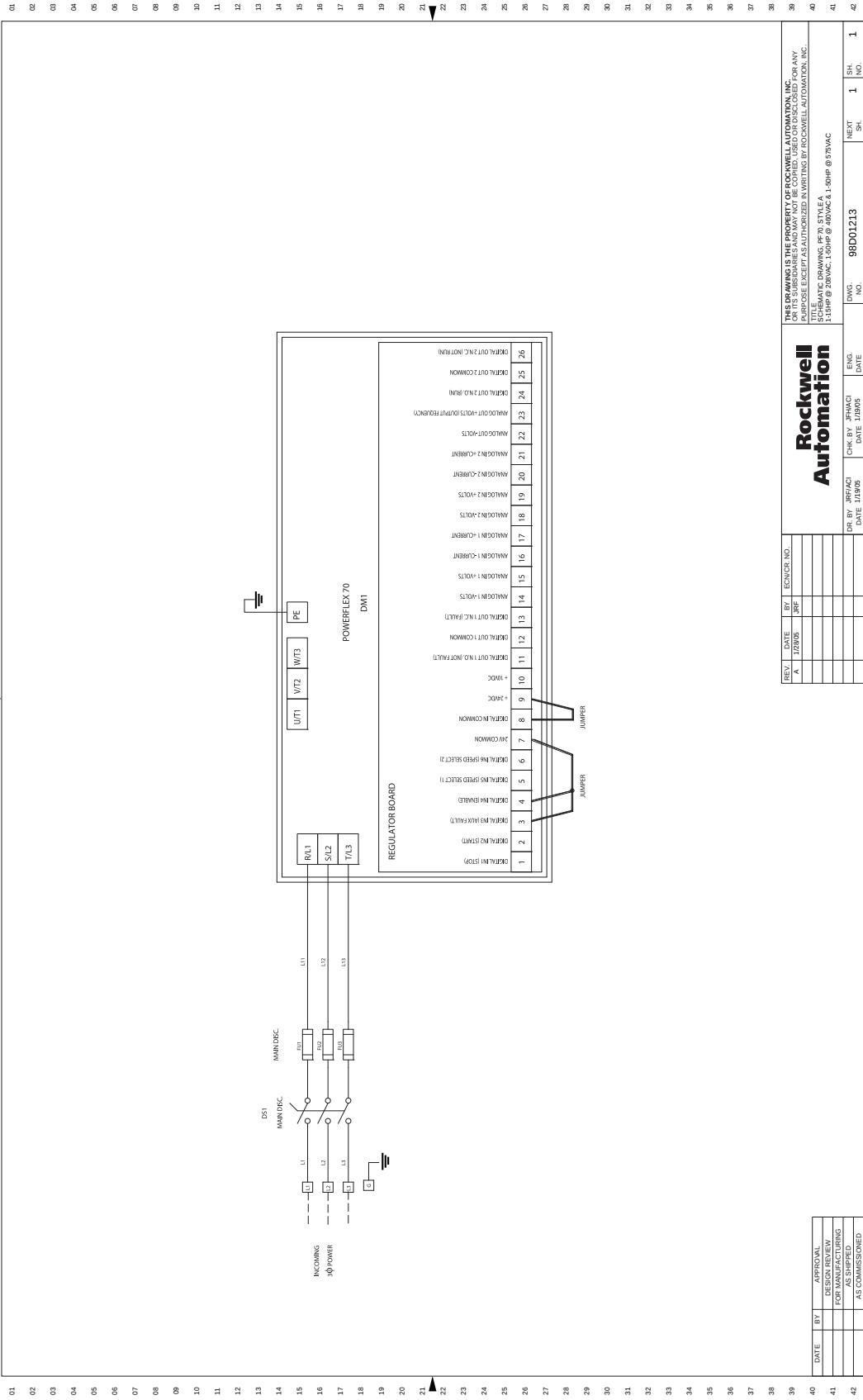


Figure 2 - 1...10 Hp, 208V AC; and 1...25 Hp, 480V AC and 600V AC Drives with Line Reactor (style A)

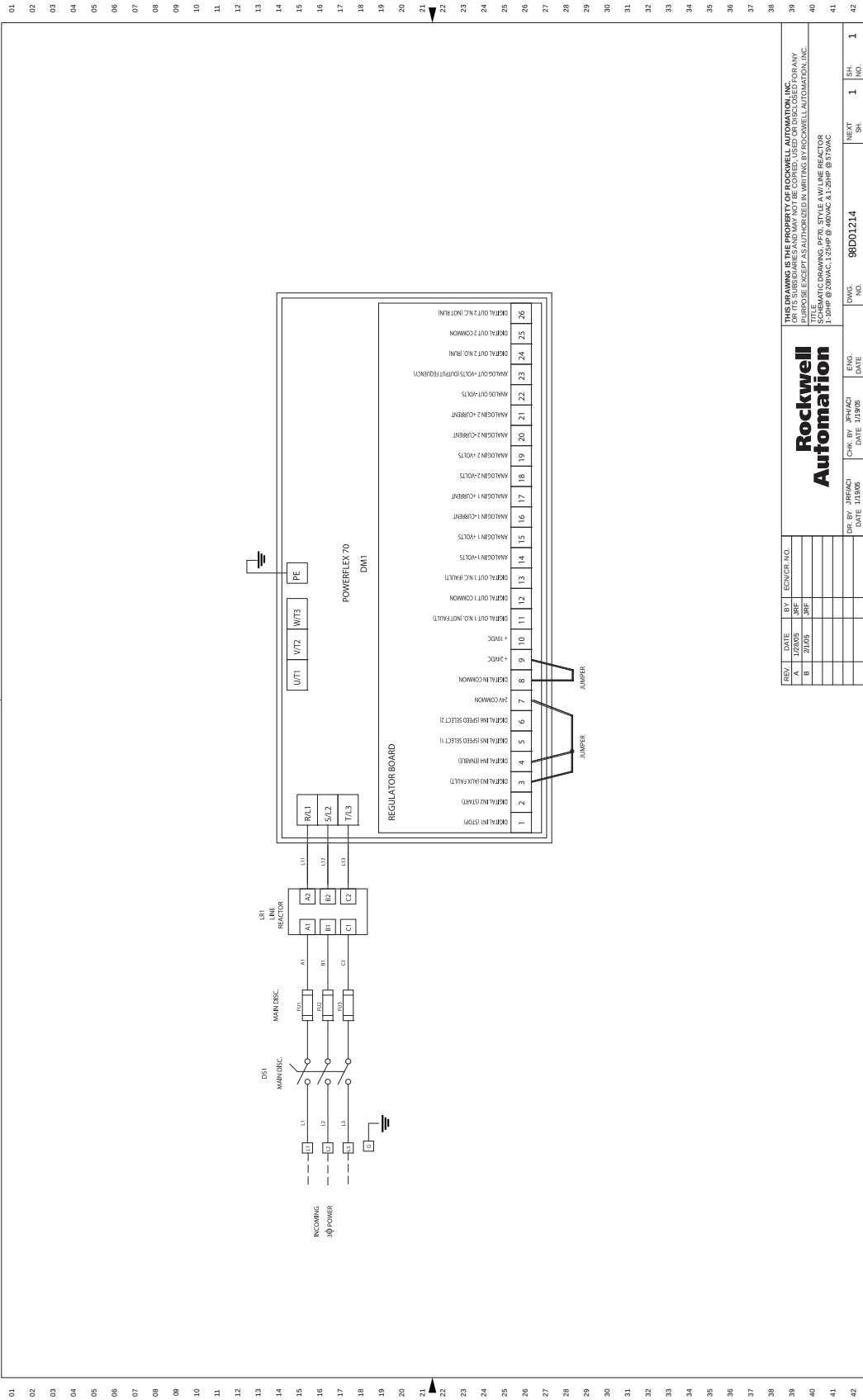
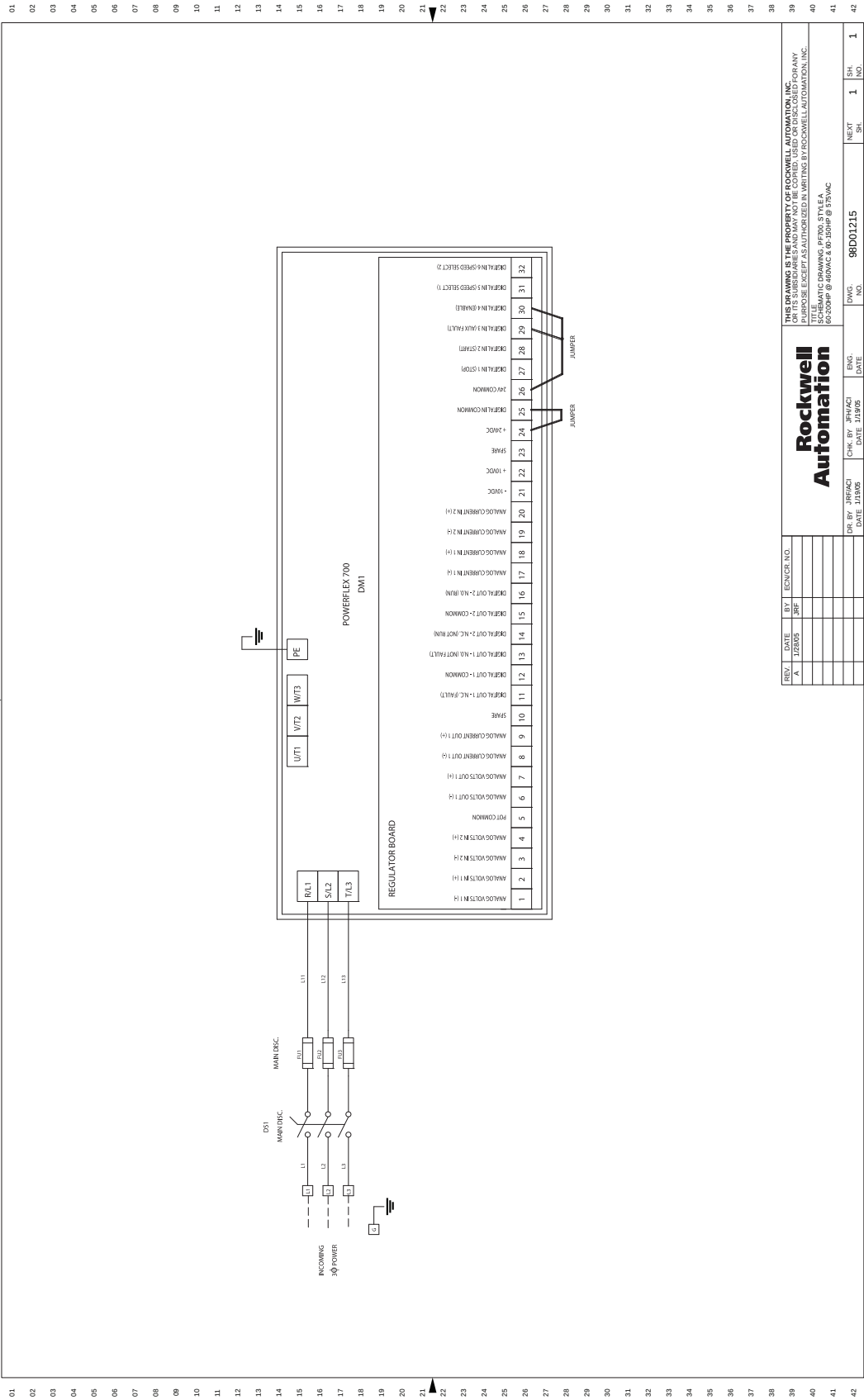


Figure 3 - 60 ... 200 Hp, 480V AC; and 60 ... 150 Hp, 600V AC Drives (style A)



Inter-connect Drawings

Figure 4 - 1...15 Hp, 208V AC; and 1...50 Hp, 480V AC and 600V AC Drives (style A)

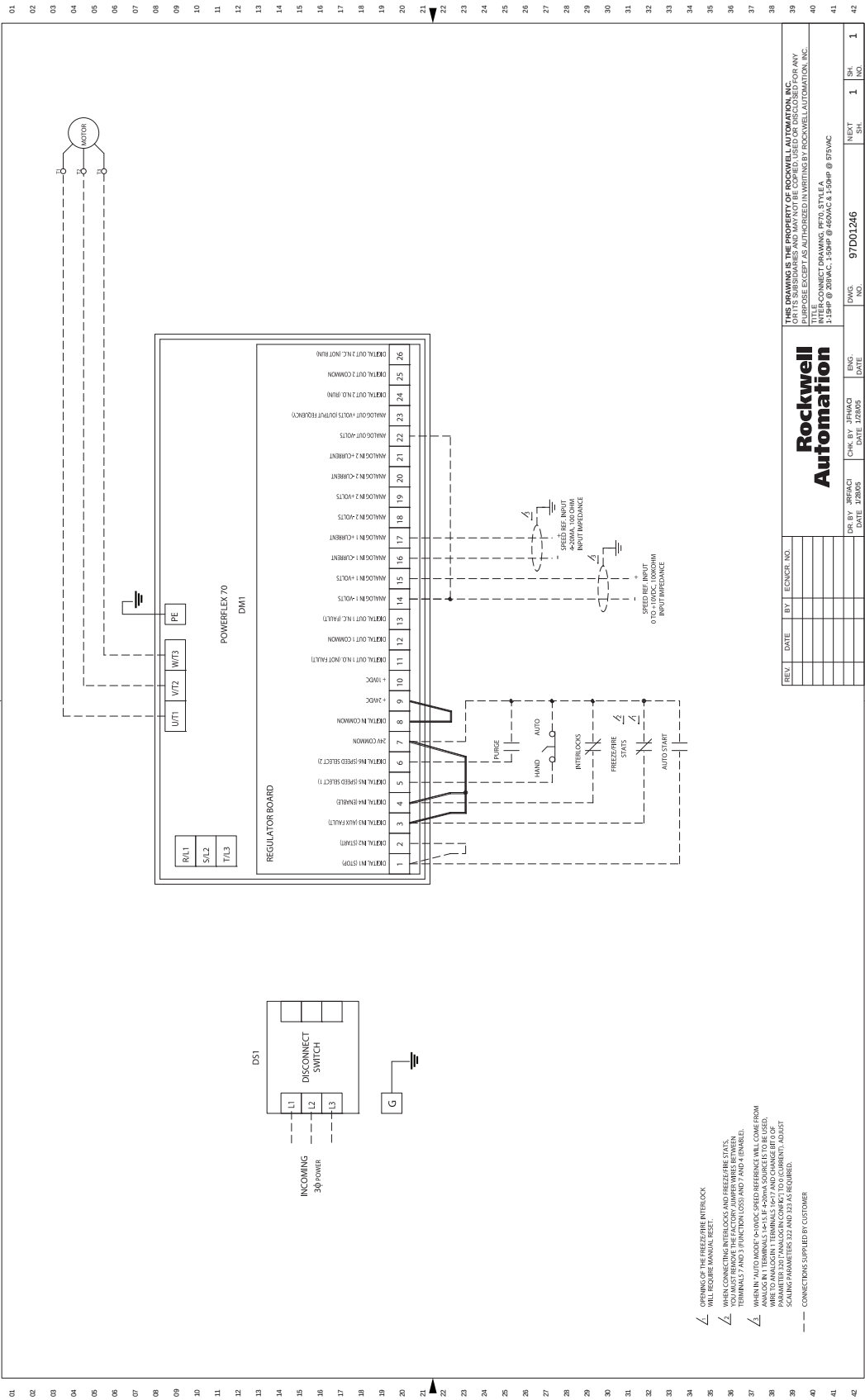


Figure 5 - 60...200 Hp, 480V AC; and 60...150 Hp, 600V AC Drives (style A)

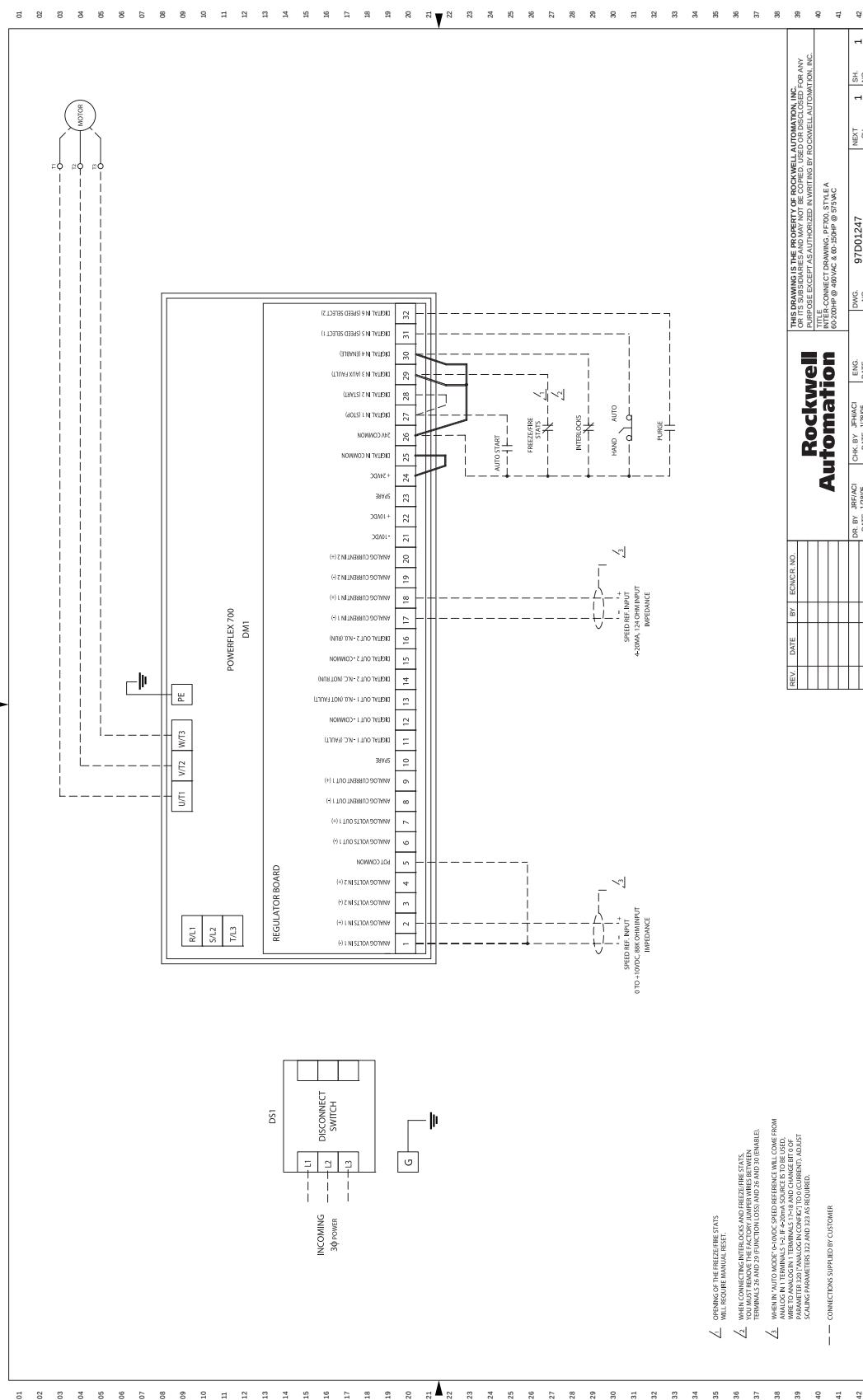
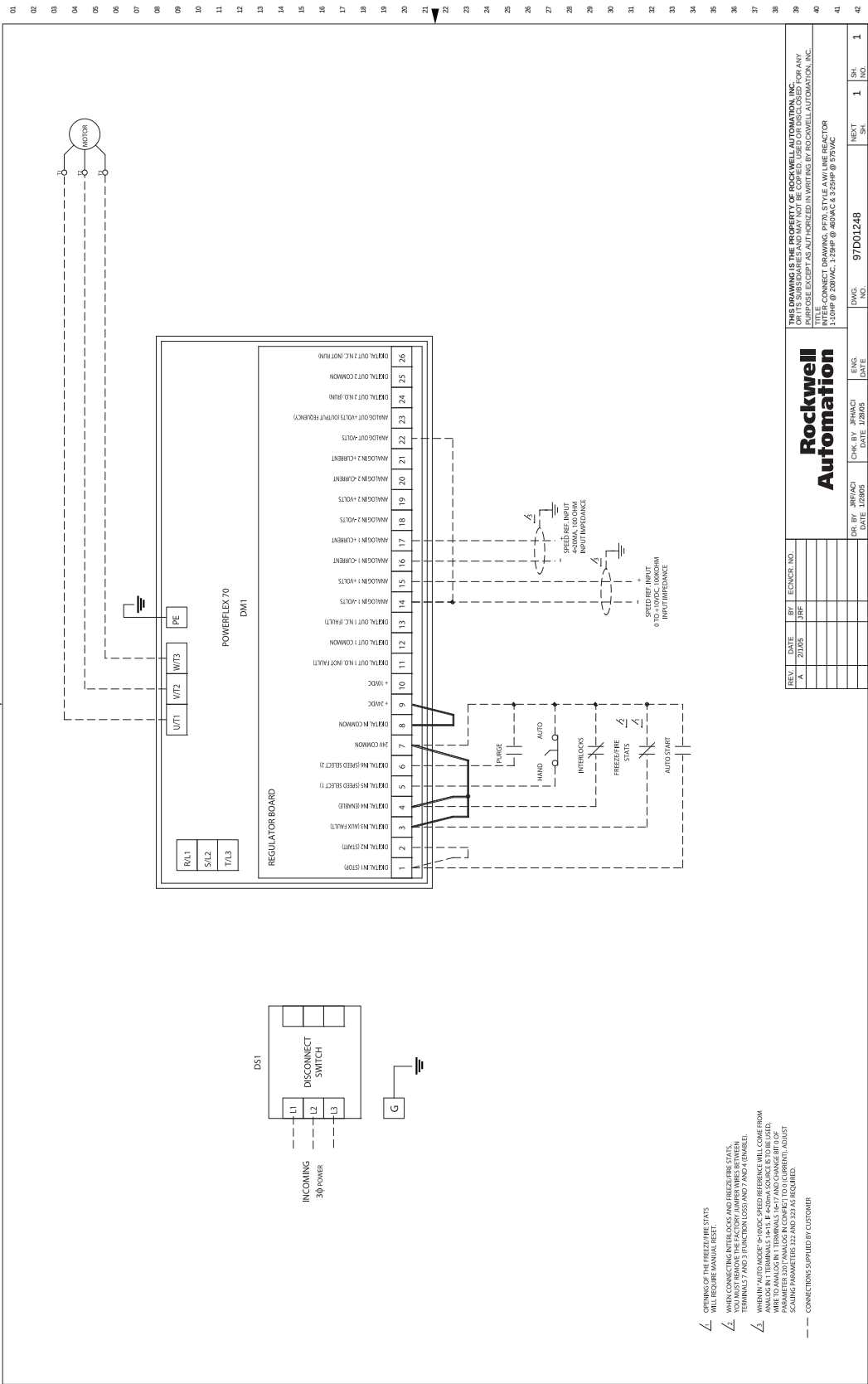


Figure 6 - 1...10 Hp, 208V AC; 1...25 Hp, 480V AC; and 3...25 Hp, 600V AC Drives with Line Reactor (style A)



Layout Drawings

Figure 7 - 1...3 Hp, 208V AC; 1...5 Hp, 480V AC; and 3...5 Hp 600V AC Drives (style A)

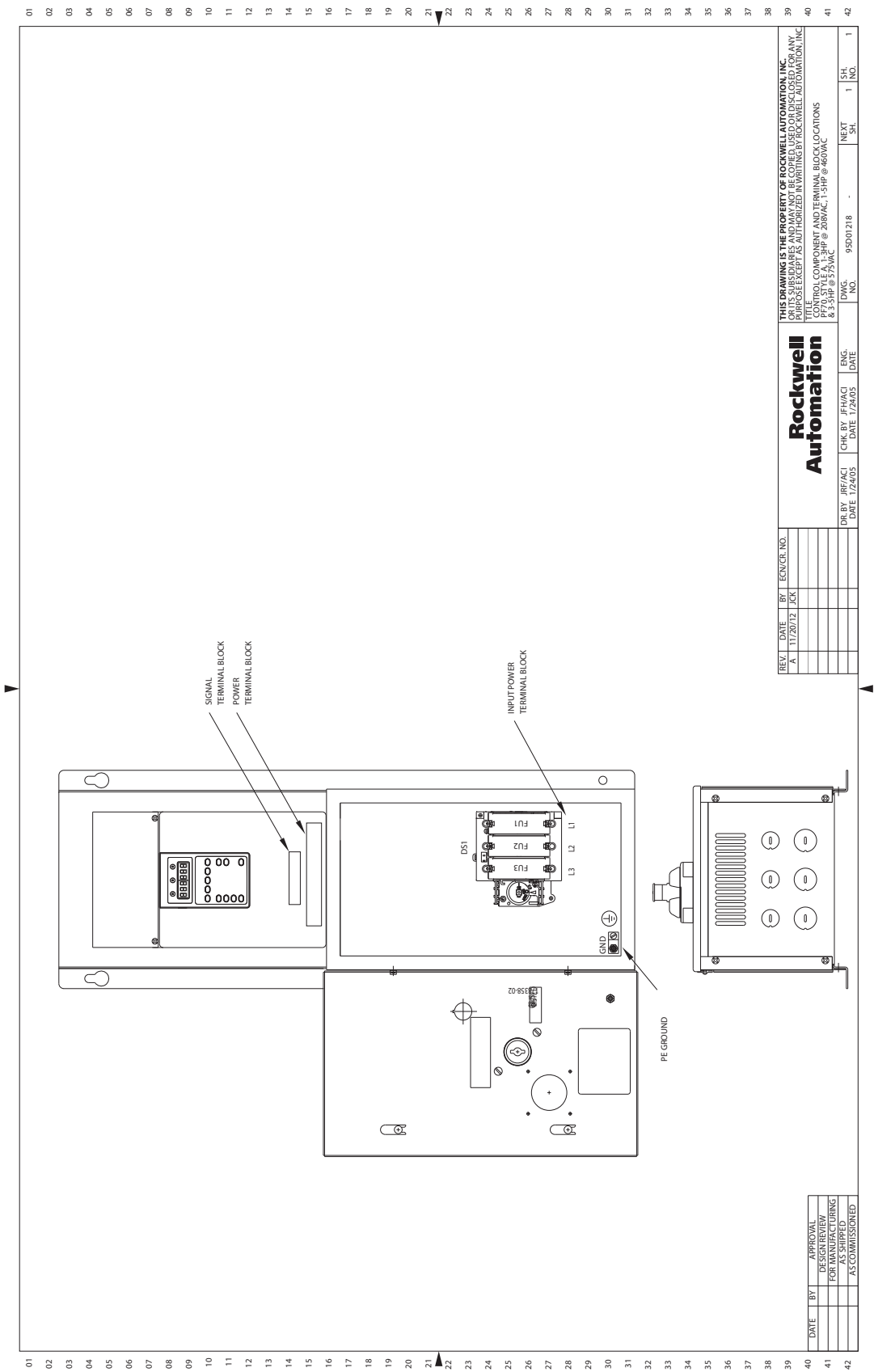
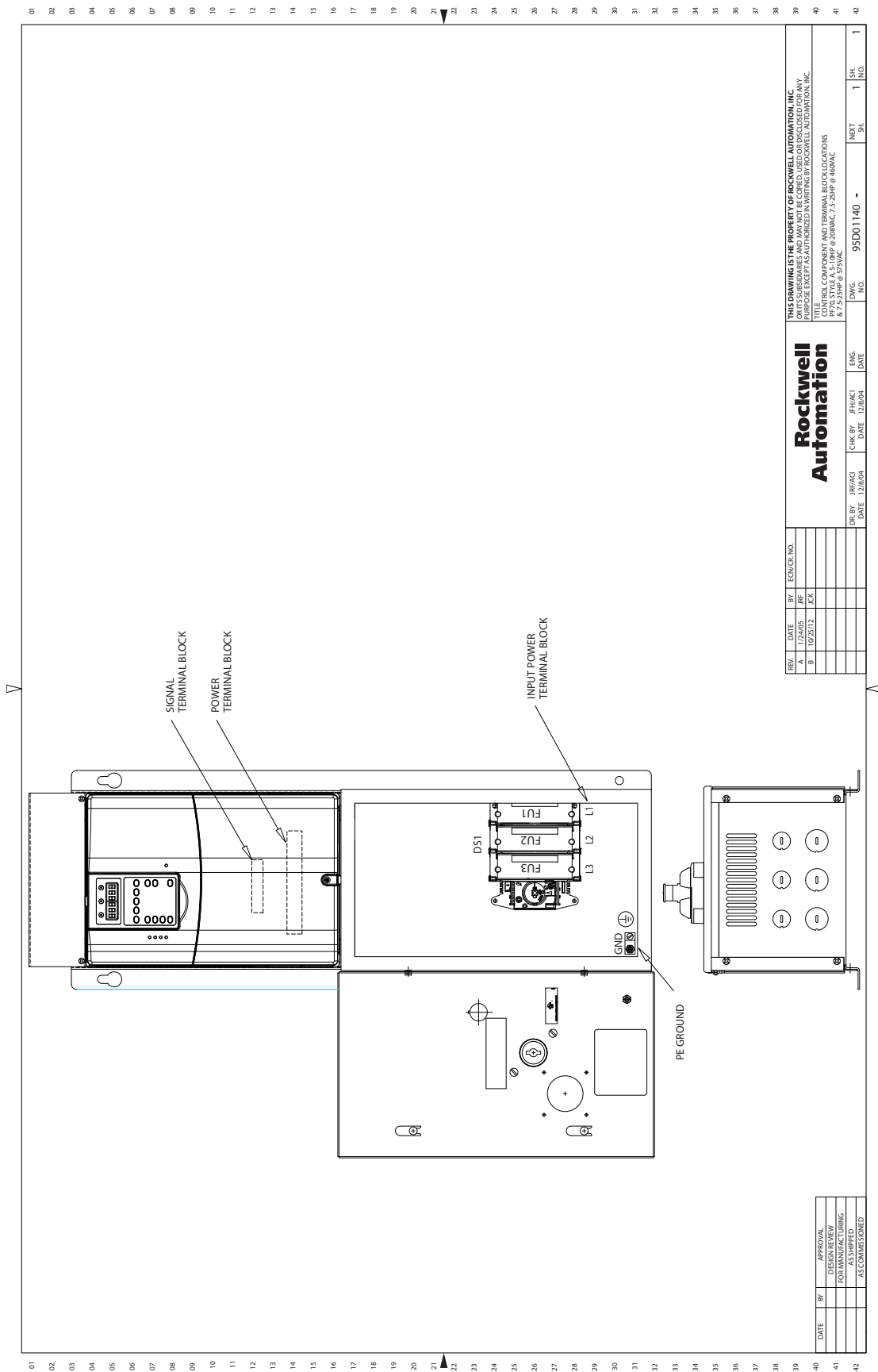


Figure 8 - 5...10 Hp, 208V AC; and 7.5...25 Hp, 480V AC and 600V AC Drives (style A)



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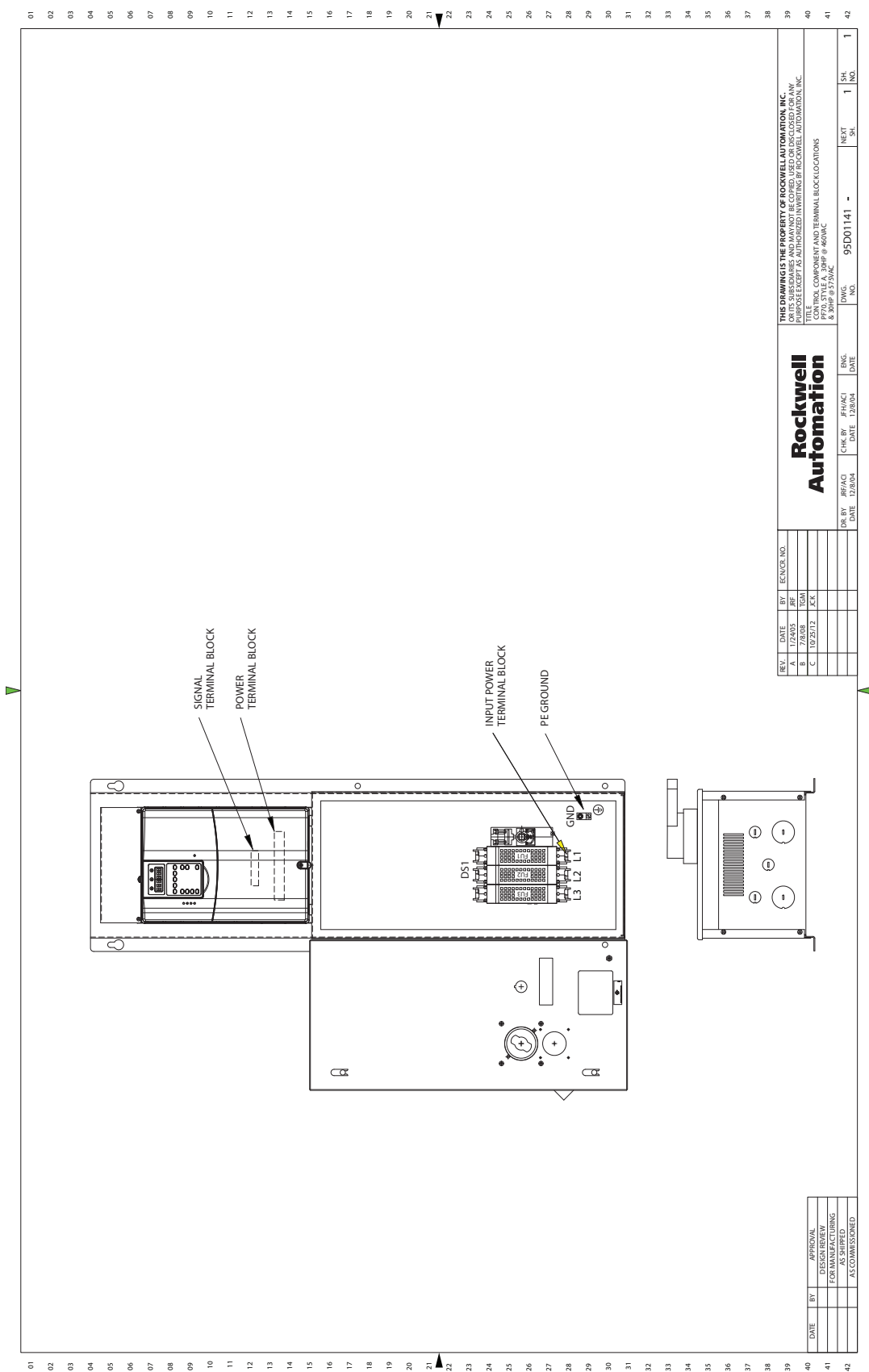
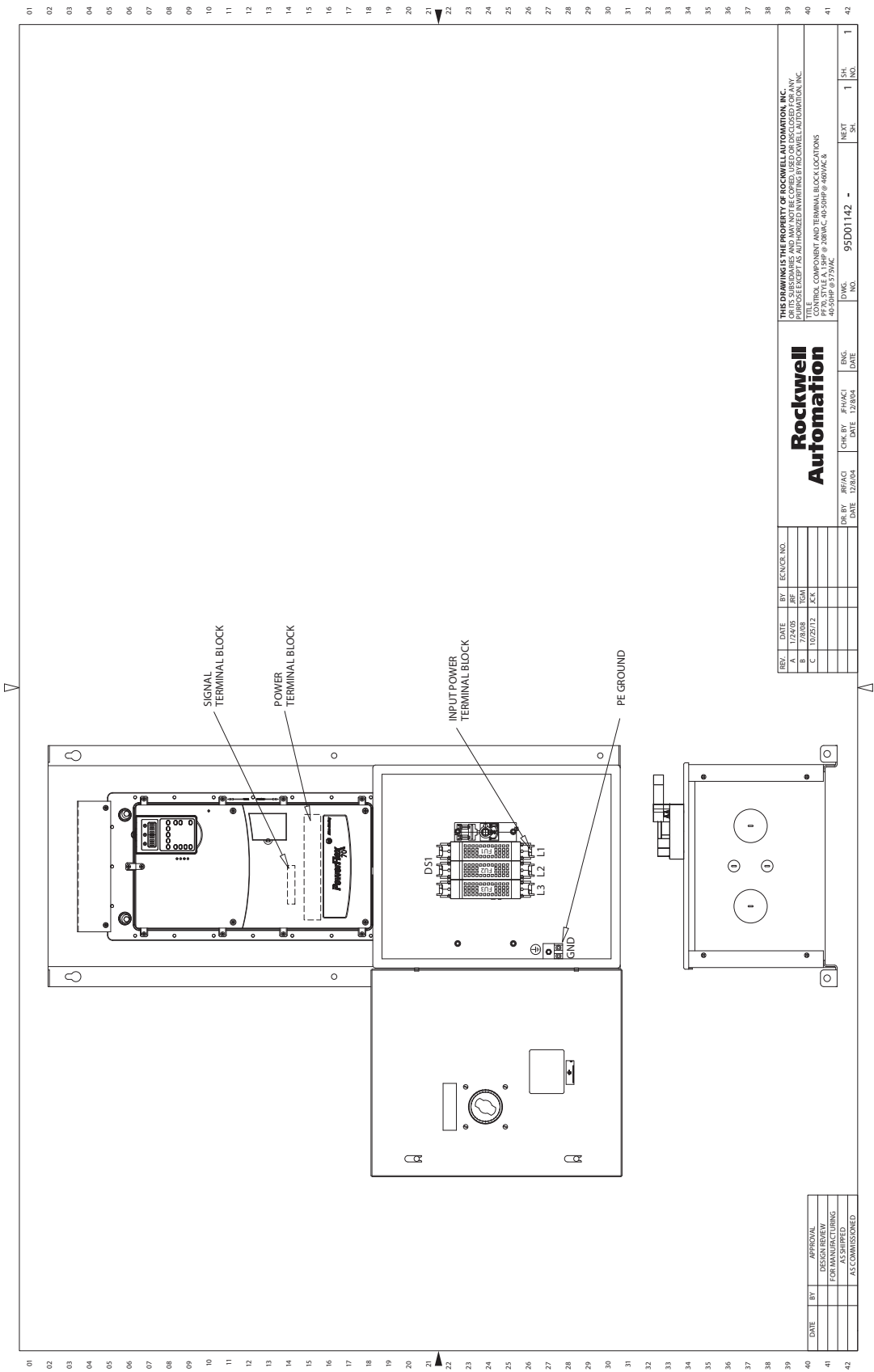


Figure 10 - 15 Hp at 208V AC; 40...50 Hp, 480V AC and 600V AC Drives (style A)



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Figure 12 - 75...100 Hp, 480V AC and 600V AC Drives (style A)

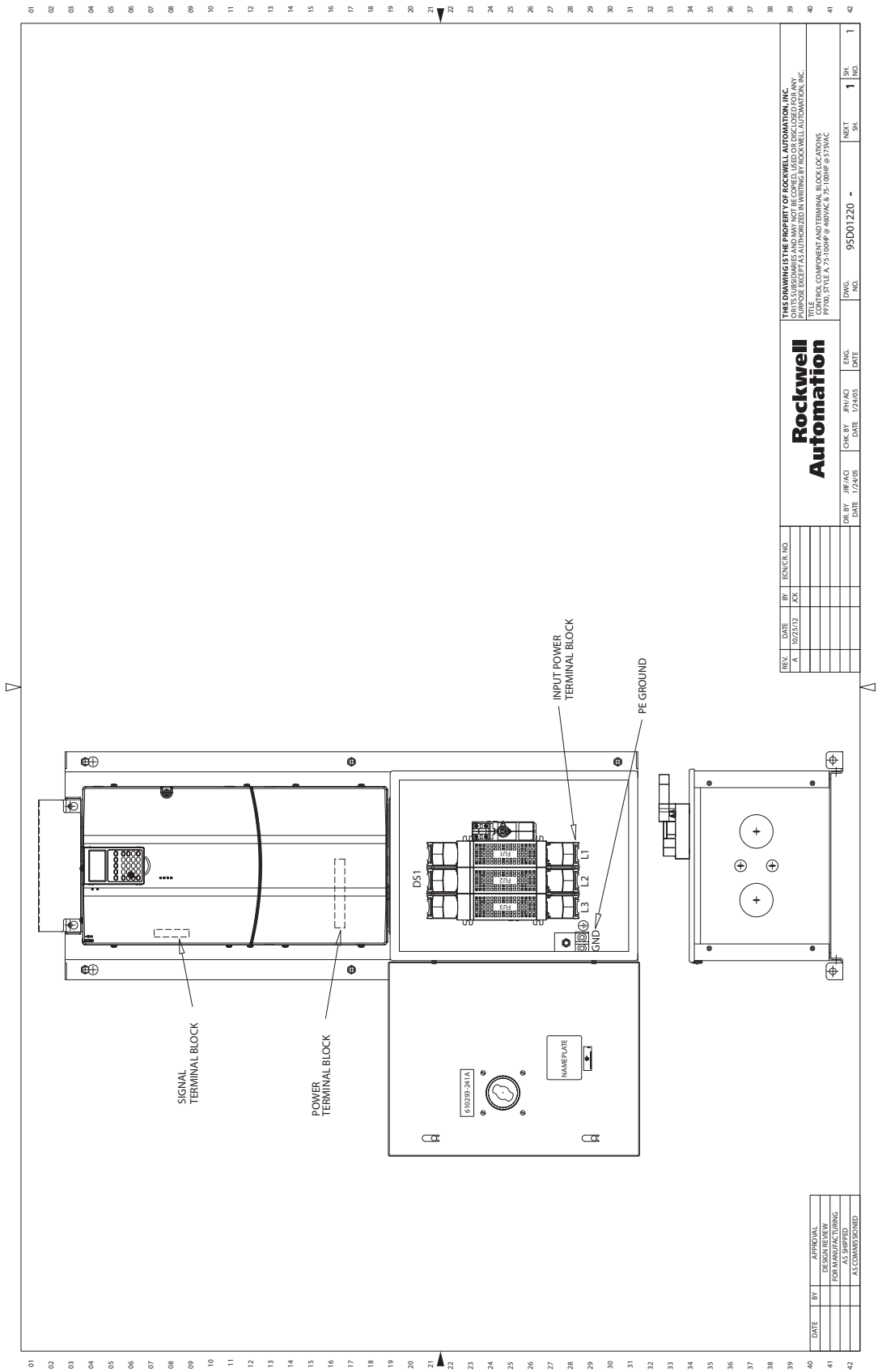


Figure 13 - 125...200 Hp, 480V AC; and 125...150 Hp, 600V AC Drives (style A)

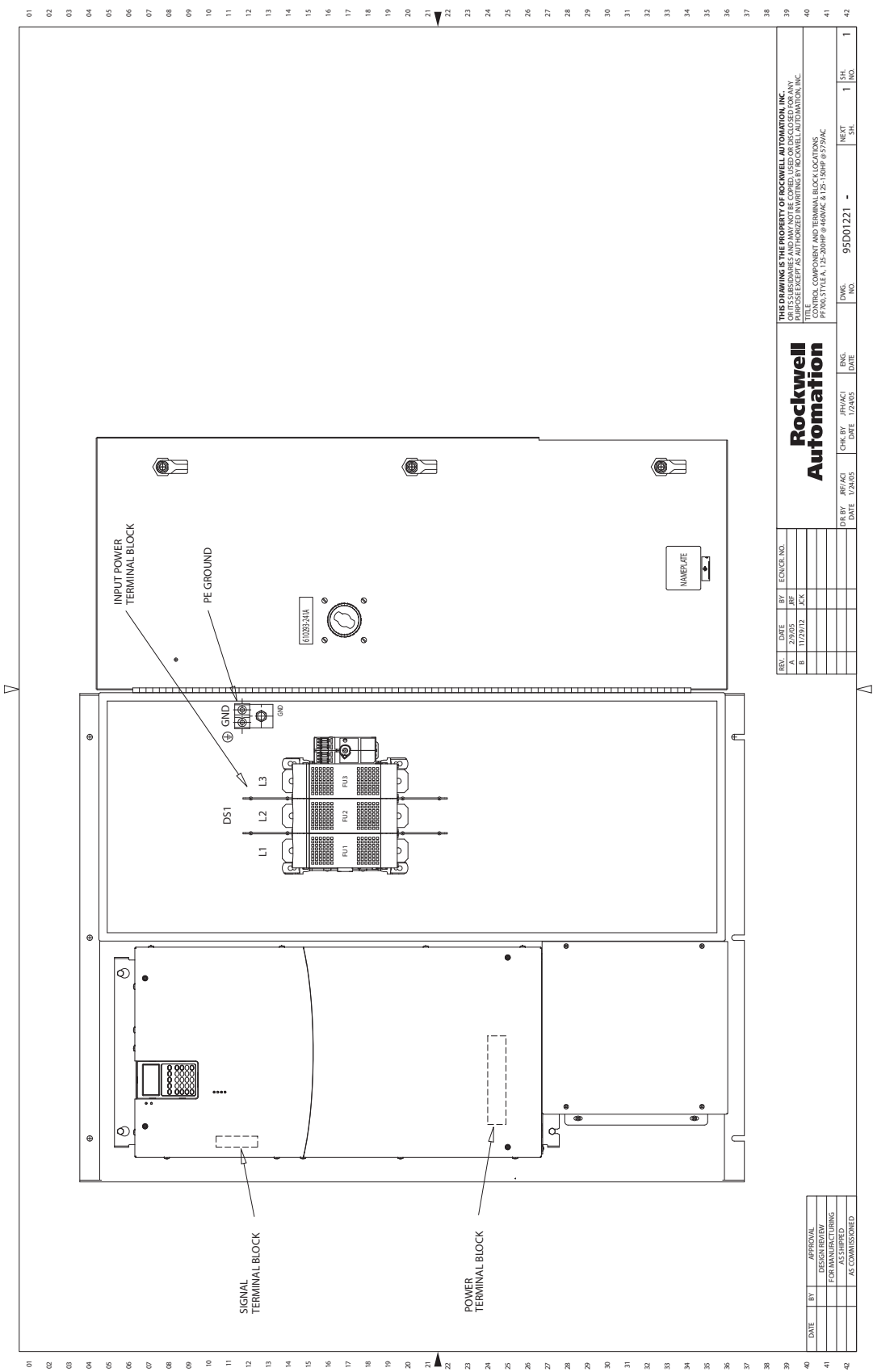
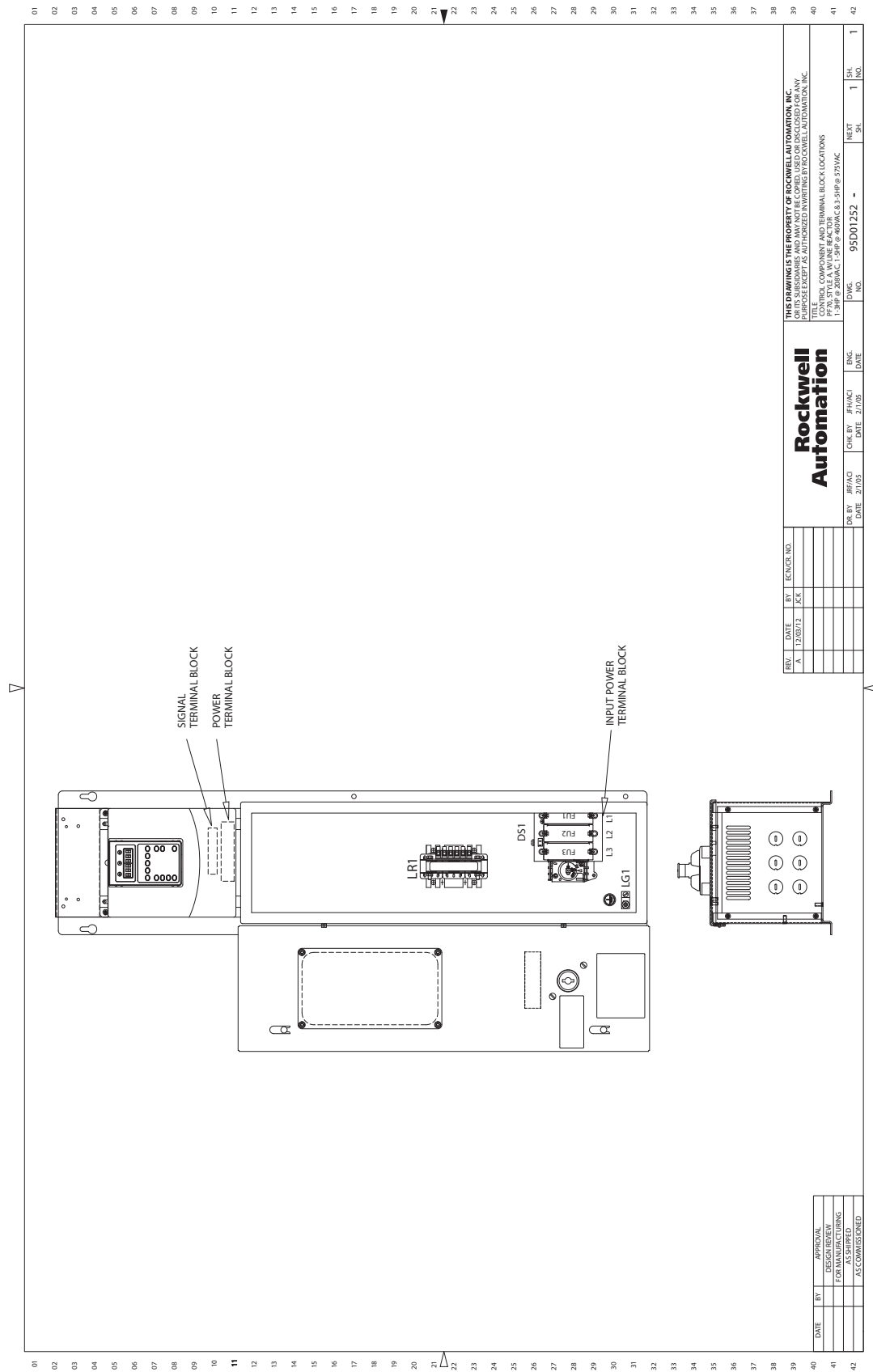
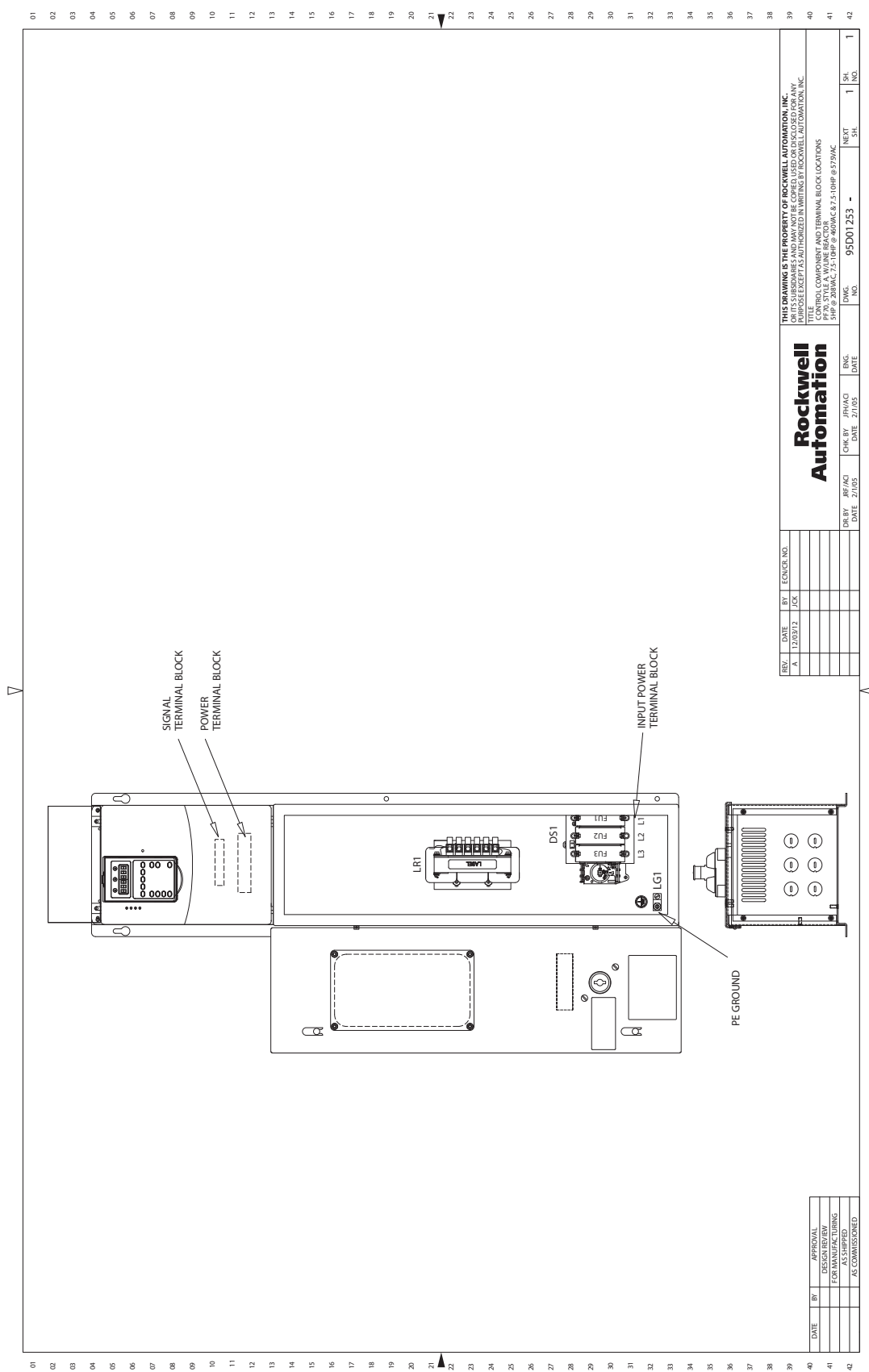
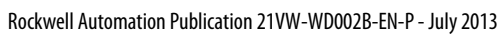


Figure 14 - 1...3 Hp, 208V AC; 1...5 Hp, 480V AC; and 3...5 Hp, 600V AC Drives with Line Reactor (style A)



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Outline Drawings

Figure 17 - 1...3 Hp, 208V AC; 1...5 Hp, 480V AC; and 3...5 Hp, 600V AC Drives (style A)

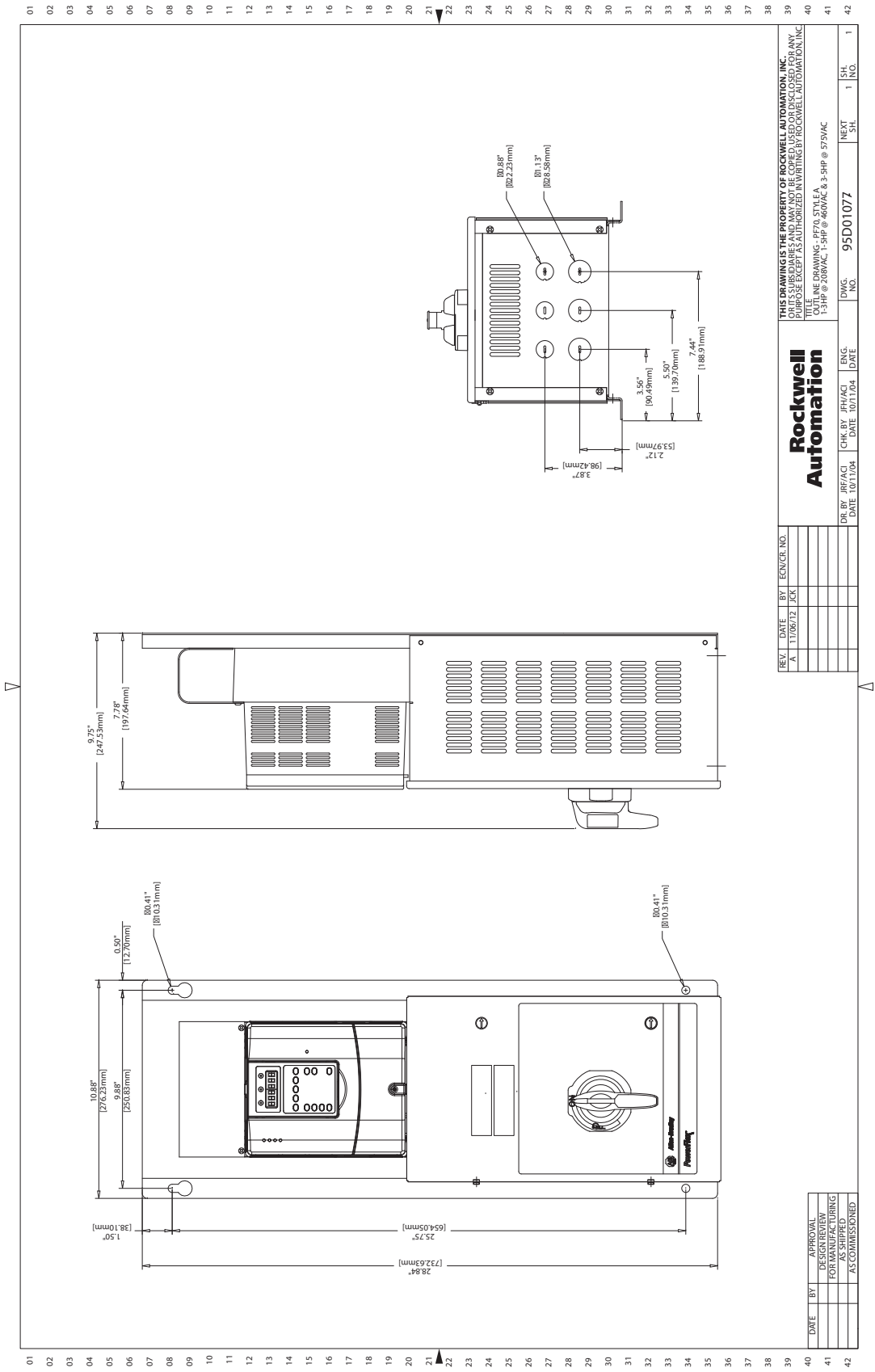


Figure 18 - 5 Hp, 208V AC; and 7.5...10 Hp, 480V AC and 600V AC Drives (style A)

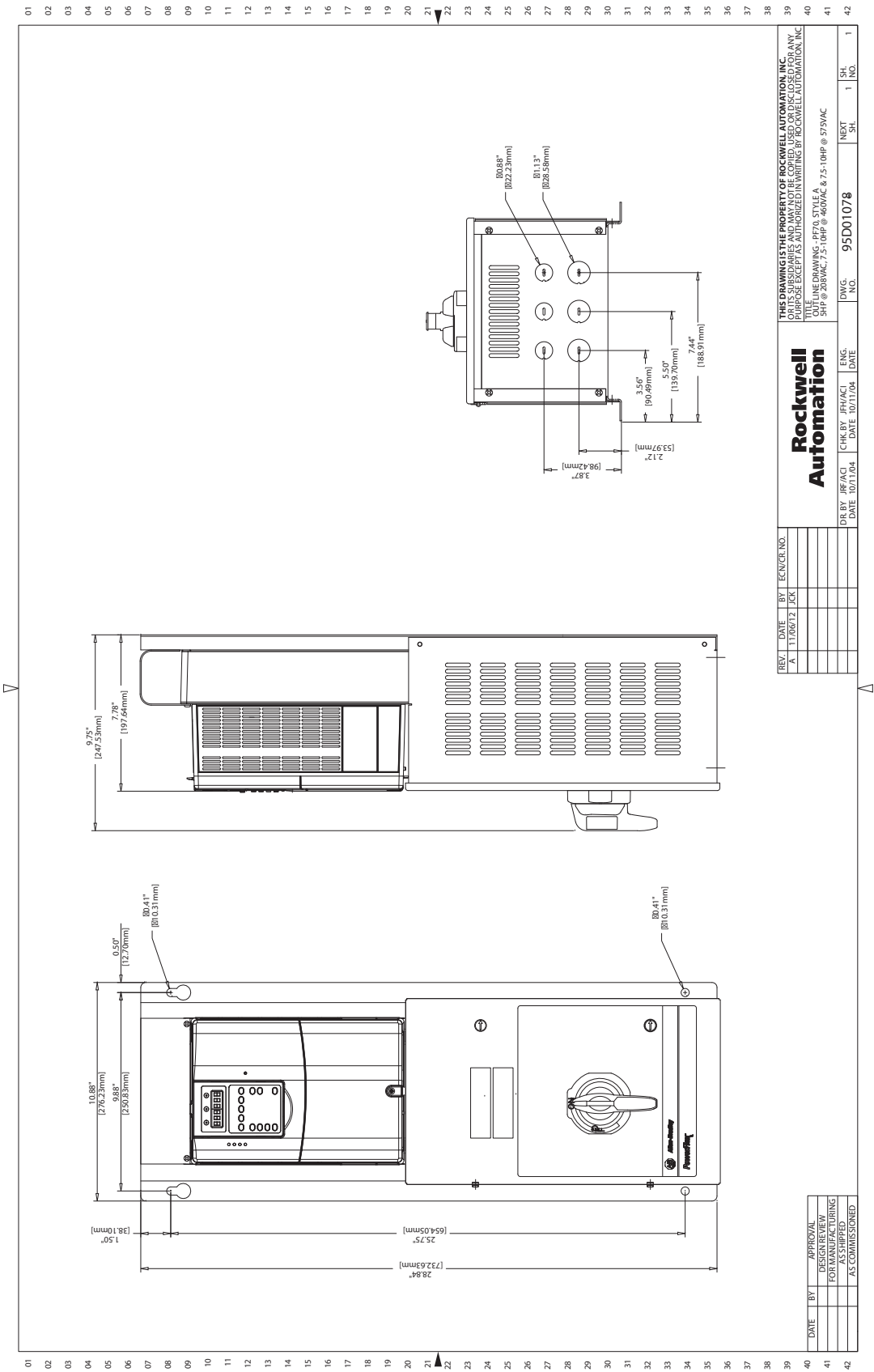


Figure 19 - 7.5...10 Hp, 208V AC; and 15...25 Hp, 480V AC and 600V AC Drives (style A)

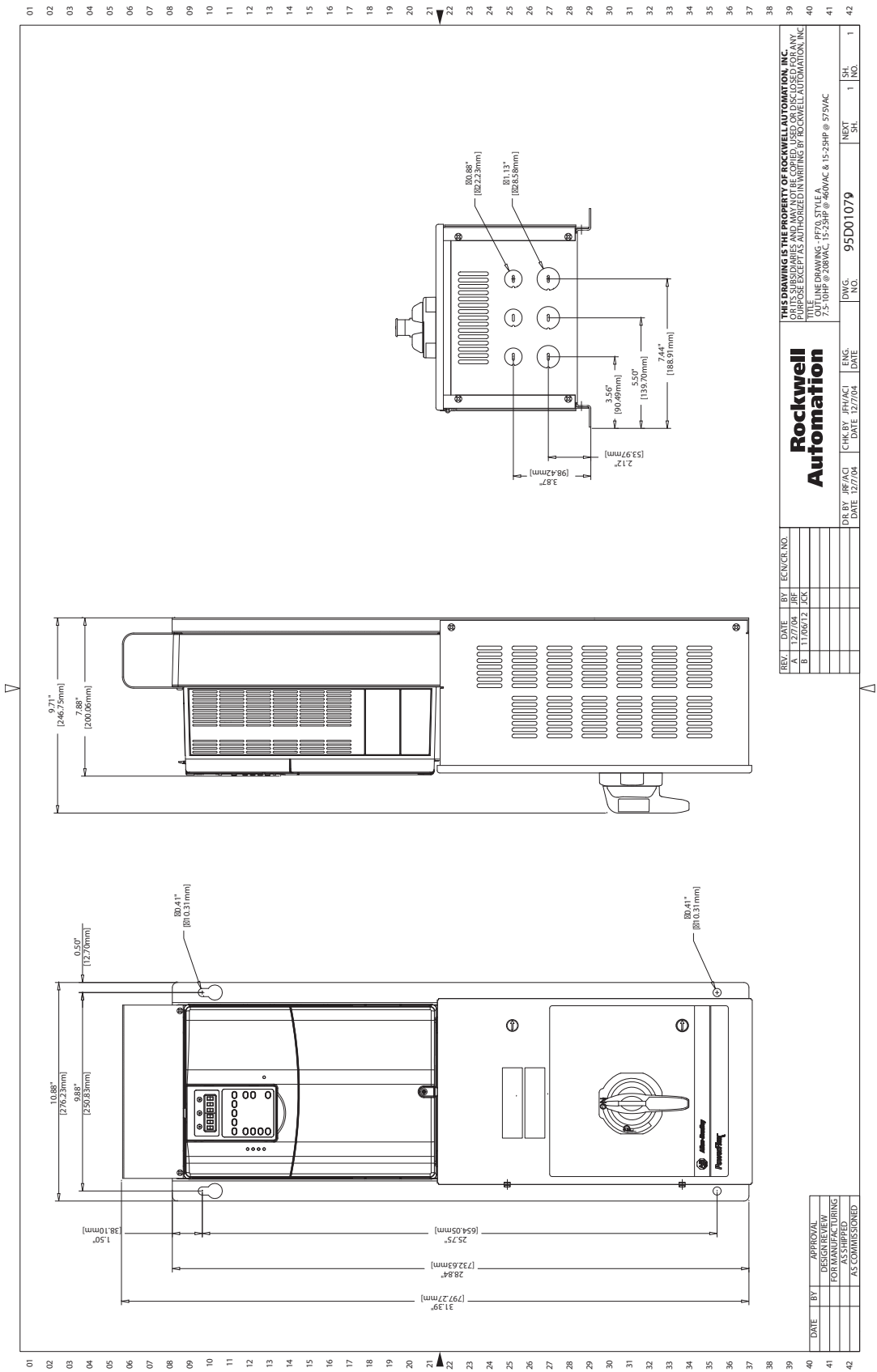
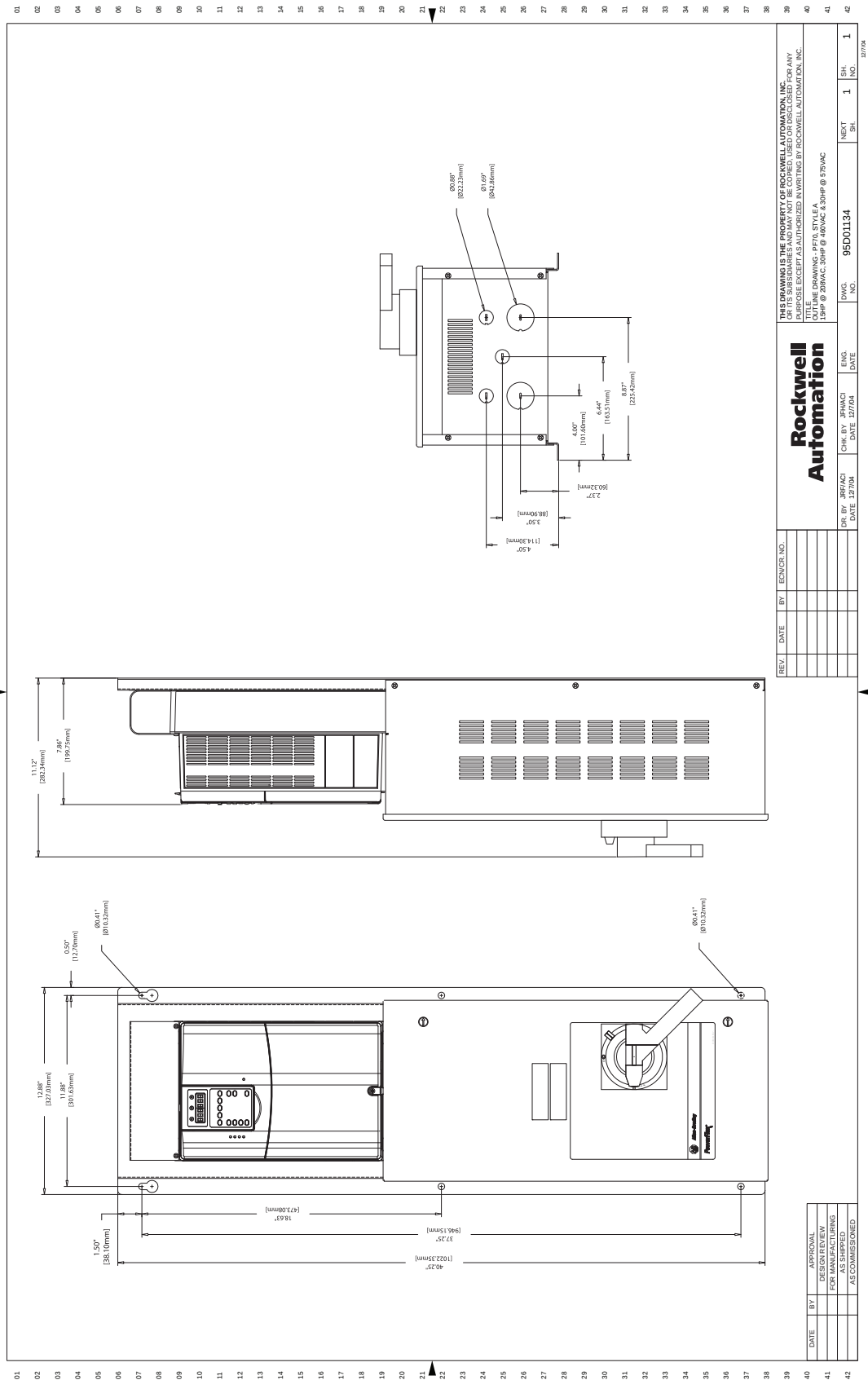


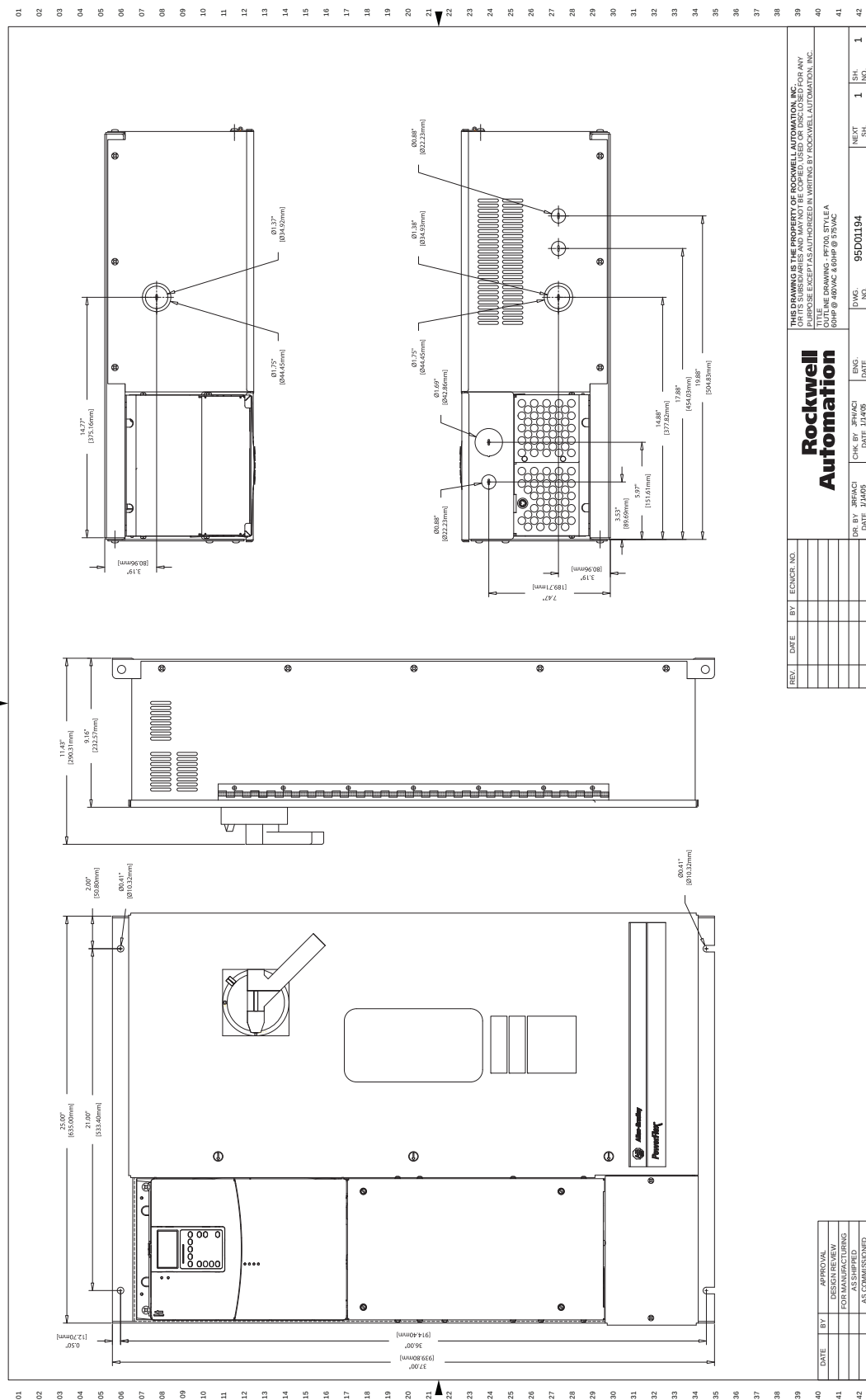
Figure 20 - 15 Hp, 208V AC; and 30 Hp, 480V AC and 600V AC Drives (style A)



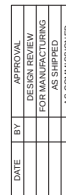
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Figure 22 - 60 Hp, 480V AC and 600V AC Drives (style A)



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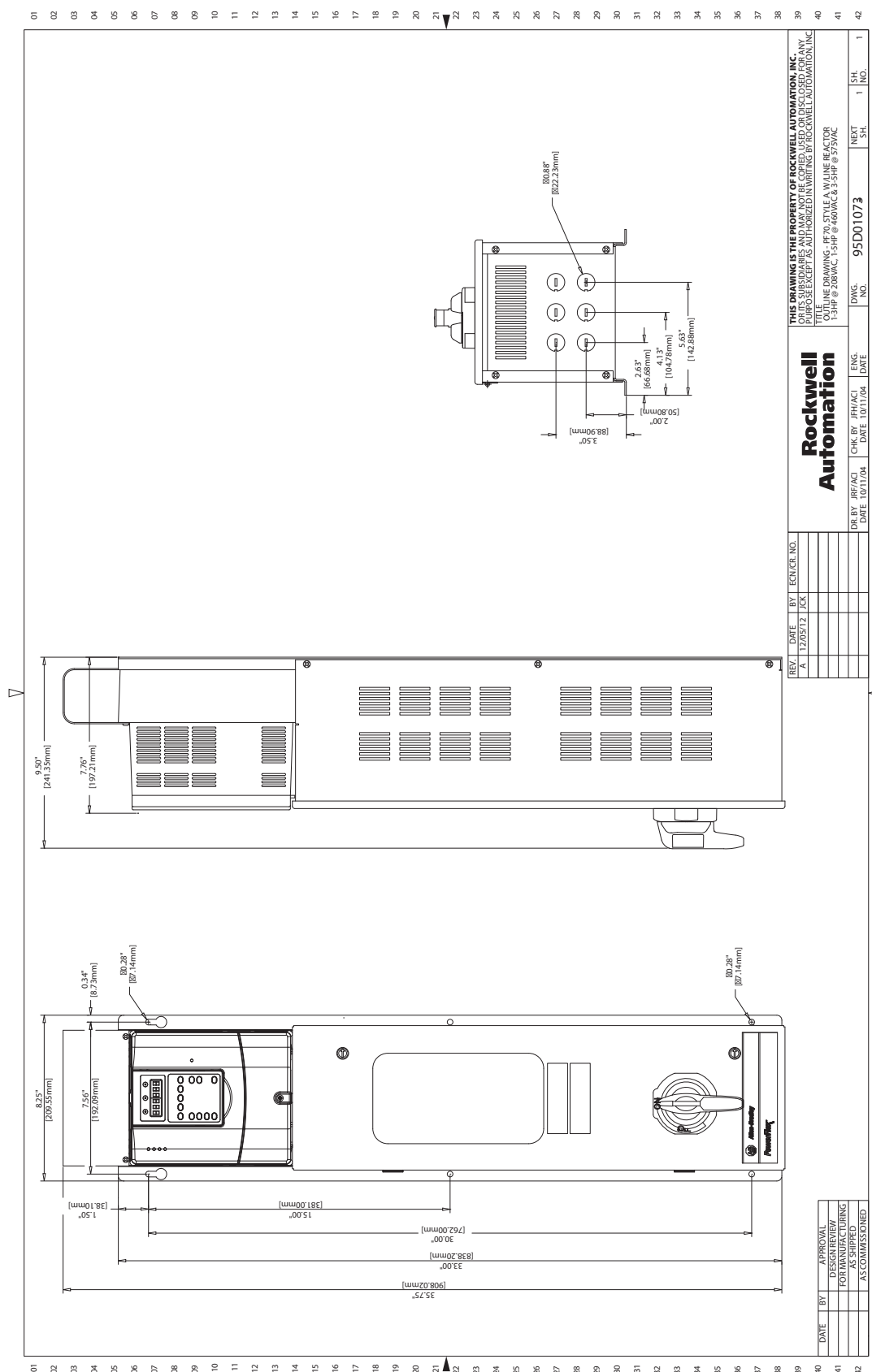
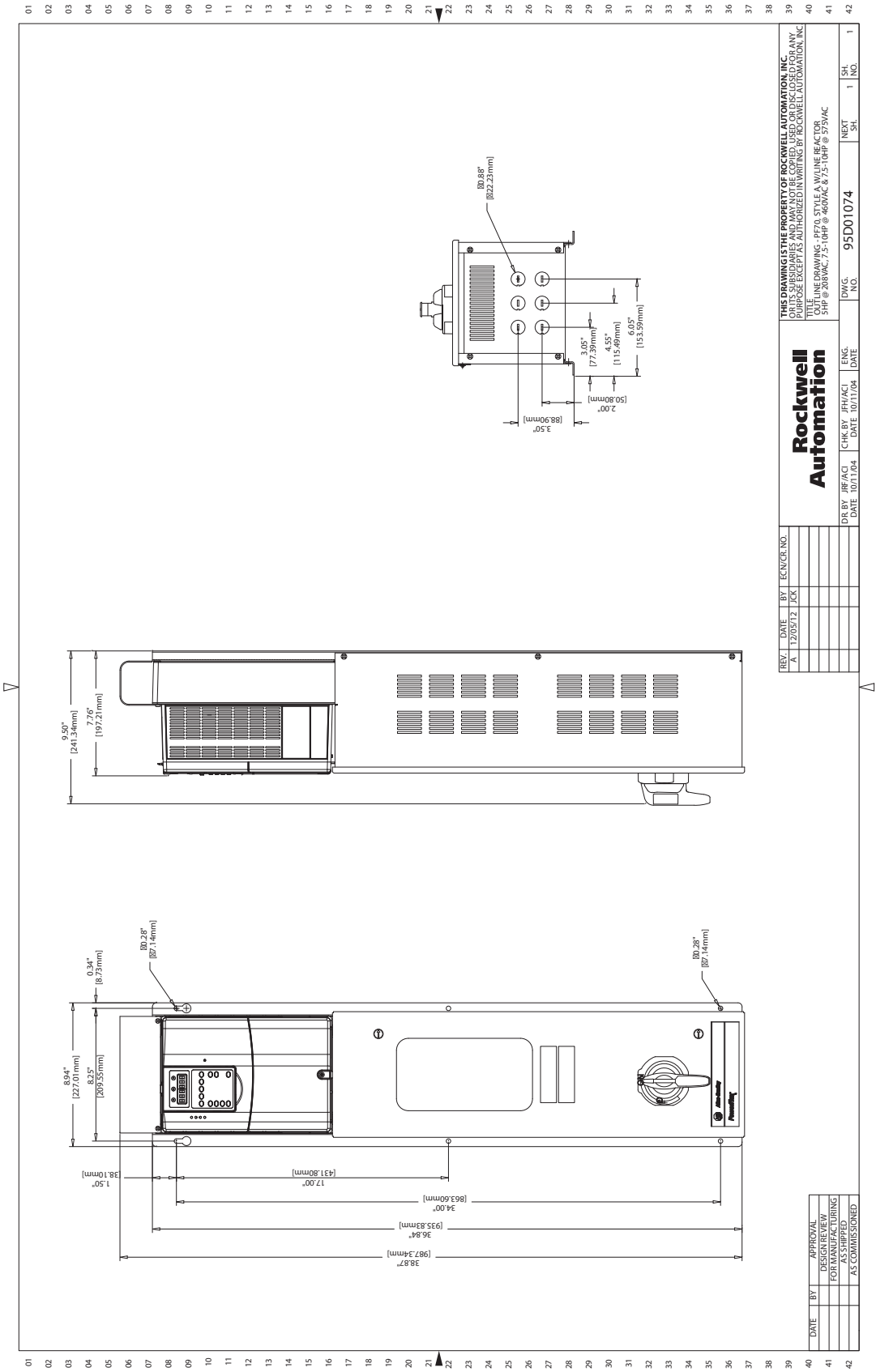
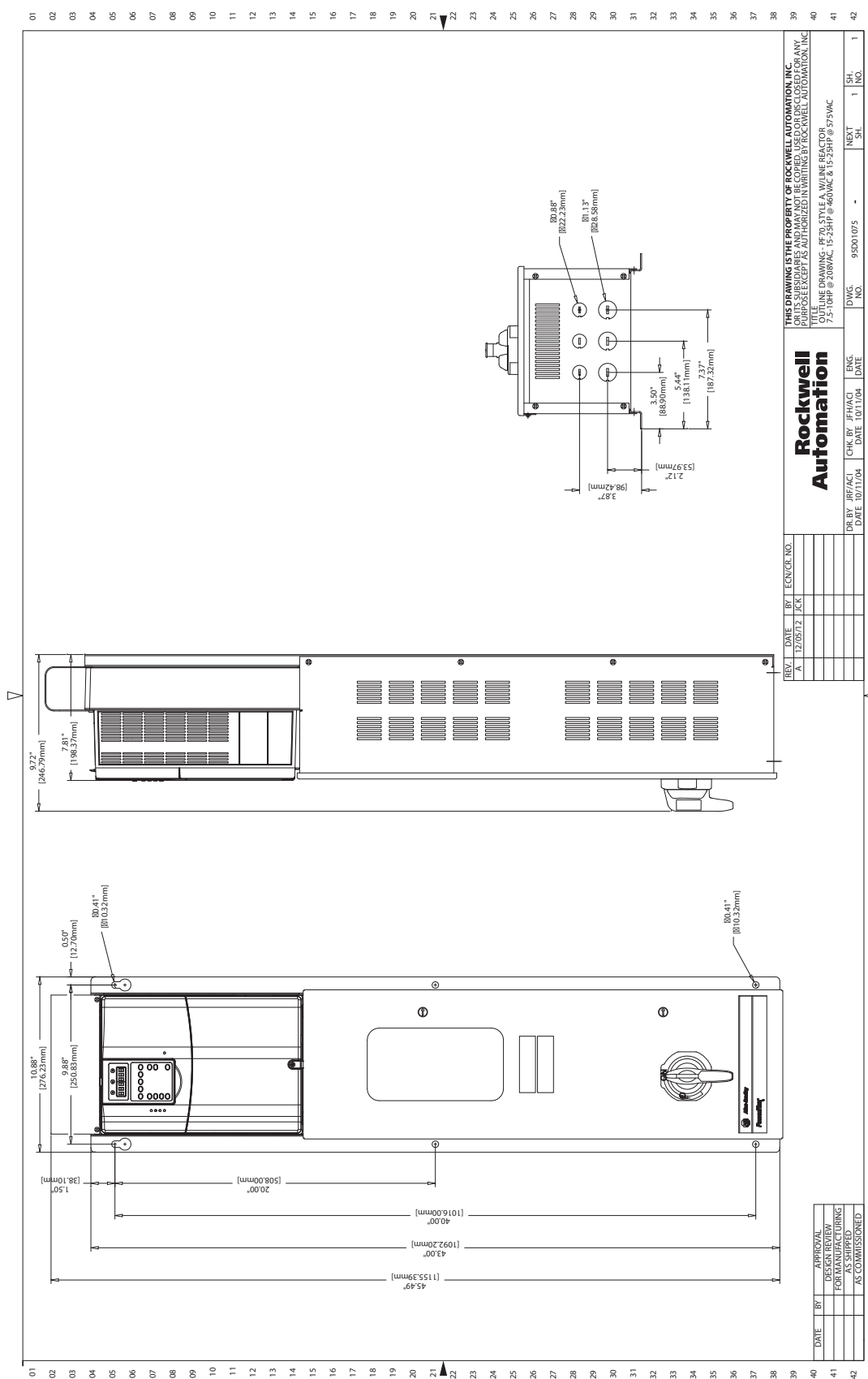


Figure 26 - 5 Hp, 208V AC; and 7.5...10 Hp, 480V AC and 600V AC Drives with Line Reactor (style A)



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Three-contactor Full-feature Bypass with Disconnect Package (style B)

The tables on the following pages provide links to the drawings for the various voltages and kW/Hp ratings for the style B packaged drives:

- [Table 4, Three-contactor Full-feature Bypass with Disconnect Package \(style B\), 208V on page 33](#)
- [Table 5, Three-contactor Full-feature Bypass with Disconnect Package \(style B\), 480V on page 34](#)
- [Table 6, Three-contactor Full-feature Bypass with Disconnect Package \(style B\), 600V on page 35](#)

Table 4 - Three-contactor Full-feature Bypass with Disconnect Package (style B), 208V

Input Voltage	kW	Hp	Input Line Reactor	Cat. No.	Drawing			
					Outline	Layout	Schematic	Inter-connect
208V AC	0.75	1.0	No	21VX4P2A_AY_A_COBN	Figure 52 on page 60	Figure 43 on page 51	Figure 28 on page 36	Figure 40 on page 48
	1.5	2.0		21VX6P8A_AY_A_COBN				
	2.2	3.0		21VX9P6A_AY_A_COBN				
	4.0	5.0		21VX015A_AY_A_COBN	Figure 53 on page 61			
	5.5	7.5		21VX022A_AY_A_COBN	Figure 54 on page 62			
	7.5	10		21VX028A_AY_A_COBN				
	11	15		21VX042A_AY_A_COBN	Figure 55 on page 63	Figure 44 on page 52		
	0.75	1.0	Yes	21VX4P2A_AY_A_COBN-LR	Figure 60 on page 68	Figure 49 on page 57	Figure 36 on page 44	Figure 42 on page 50
	1.5	2.0		21VX6P8A_AY_A_COBN-LR				
	2.2	3.0		21VX9P6A_AY_A_COBN-LR				
	4.0	5.0		21VX015A_AY_A_COBN-LR	Figure 61 on page 69			
	5.5	7.5		21VX022A_AY_A_COBN-LR	Figure 62 on page 70	Figure 50 on page 58		
	7.5	10		21VX028A_AY_A_COBN-LR	Figure 51 on page 59			

Table 5 - Three-contactor Full-feature Bypass with Disconnect Package (style B), 480V

Input Voltage	kW	Hp	Input Line Reactor	Cat. No.	Drawing				
					Outline	Layout	Schematic	Inter-connect	
480V AC	0.75	1.0	No	21VD2P1A_AY_A_COBN	Figure 52 on page 60	Figure 43 on page 51	Figure 28 on page 36	Figure 40 on page 48	
	1.5	2.0		21VD3P4A_AY_A_COBN					
	2.2	3.0		21VD5P0A_AY_A_COBN					
	4.0	5.0		21VD8P0A_AY_A_COBN					
	5.5	7.5		21VD011A_AY_A_COBN	Figure 53 on page 61				
	7.5	10		21VD014A_AY_A_COBN					
	11	15		21VD022A_AY_A_COBN	Figure 54 on page 62				
	15	20		21VD027A_AY_A_COBN					
	18.5	25		21VD034A_AY_A_COBN	Figure 55 on page 63				Figure 44 on page 52
	22	30		21VD040A_AY_A_COBN	Figure 56 on page 64	Figure 45 on page 53			
	30	40		21VD052A_AYNA_COBN	Figure 57 on page 65	Figure 46 on page 54			
	37	50		21VD065A_AYNA_COBN					
	45	60		21WD077A_A_NA_A0BN	Figure 58 on page 66	Figure 47 on page 55			
	55	75		21WD096A_A_NA_A0BN					
	75	100		21WD125A_A_NA_A0BN	Figure 59 on page 67	Figure 48 on page 56			
	90	125		21WD156A_A_NA_A0BN					
	110	150		21WD180A_A_NA_A0BN					
	0.75	1.0	Yes	21VD2P1A_AY_A_COBN-LR	Figure 60 on page 68	Figure 49 on page 57	Figure 36 on page 44	Figure 42 on page 50	
	1.5	2.0		21VD3P4A_AY_A_COBN-LR					
	2.2	3.0		21VD5P0A_AY_A_COBN-LR					
	4.0	5.0		21VD8P0A_AY_A_COBN-LR					
	5.5	7.5		21VD011A_AY_A_COBN-LR	Figure 61 on page 69	Figure 50 on page 58			
	7.5	10		21VD014A_AY_A_COBN-LR					
	11	15		21VD022A_AY_A_COBN-LR	Figure 62 on page 70	Figure 51 on page 59			
	15	20		21VD027A_AY_A_COBN-LR					
	18.5	25		21VD034A_AY_A_COBN-LR					

Table 6 - Three-contactor Full-feature Bypass with Disconnect Package (style B), 600V

Input Voltage	kW	Hp	Input Line Reactor	Cat. No.	Drawing						
					Outline	Layout	Schematic	Inter-connect			
600V AC	2.2	3.0	No	21VE3P9A_AY_N_COBN	Figure 52 on page 60	Figure 43 on page 51	Figure 32 on page 40	Figure 40 on page 48			
	4.0	5.0		21VE6P1A_AY_N_COBN							
	5.5	7.5		21VE9P0A_AY_N_COBN					Figure 53 on page 61		
	7.5	10		21VE011A_AY_N_COBN							
	11	15		21VE017A_AYNN_COBN	Figure 54 on page 62						
	15	20		21VE022A_AYNN_COBN							
	18.5	25		21VE027A_AYNN_COBN							
	22	30		21VE032A_AYNN_COBN	Figure 55 on page 63				Figure 44 on page 52		
	30	40		21VE041A_AYNN_COBN	Figure 56 on page 64				Figure 45 on page 53		
	37	50		21VE052A_AYNN_COBN							
	45	60		21WE062A_A_NA_A0BN						Figure 57 on page 65	Figure 46 on page 54
	55	75		21WE077A_A_NA_A0BN	Figure 58 on page 66				Figure 47 on page 55	Figure 34 on page 42	Figure 41 on page 49
	75	100		21WE099A_A_NA_A0BN							
	90	125		21WE125A_A_NA_A0BN							
	110	150		21WE144A_A_NA_A0BN							
	2.2	3.0	Yes	21VE3P9A_AY_N_COBN-LR	Figure 60 on page 68	Figure 49 on page 57	Figure 37 on page 45	Figure 42 on page 50			
	4.0	5.0		21VE6P1A_AY_N_COBN-LR							
	5.5	7.5		21VE9P0A_AY_N_COBN-LR	Figure 61 on page 69	Figure 50 on page 58					
	7.5	10		21VE011A_AY_N_COBN-LR							
	11	15		21VE017A_AYNN_COBN-LR	Figure 62 on page 70	Figure 51 on page 59					
	15	20		21VE022A_AYNN_COBN-LR							
	18.5	25		21VE027A_AYNN_COBN-LR							

Schematic Drawings

Figure 28 - 1...15 Hp, 208V AC; and 1...50 Hp, 480V AC Drives (style B) (sheet 1 of 2)

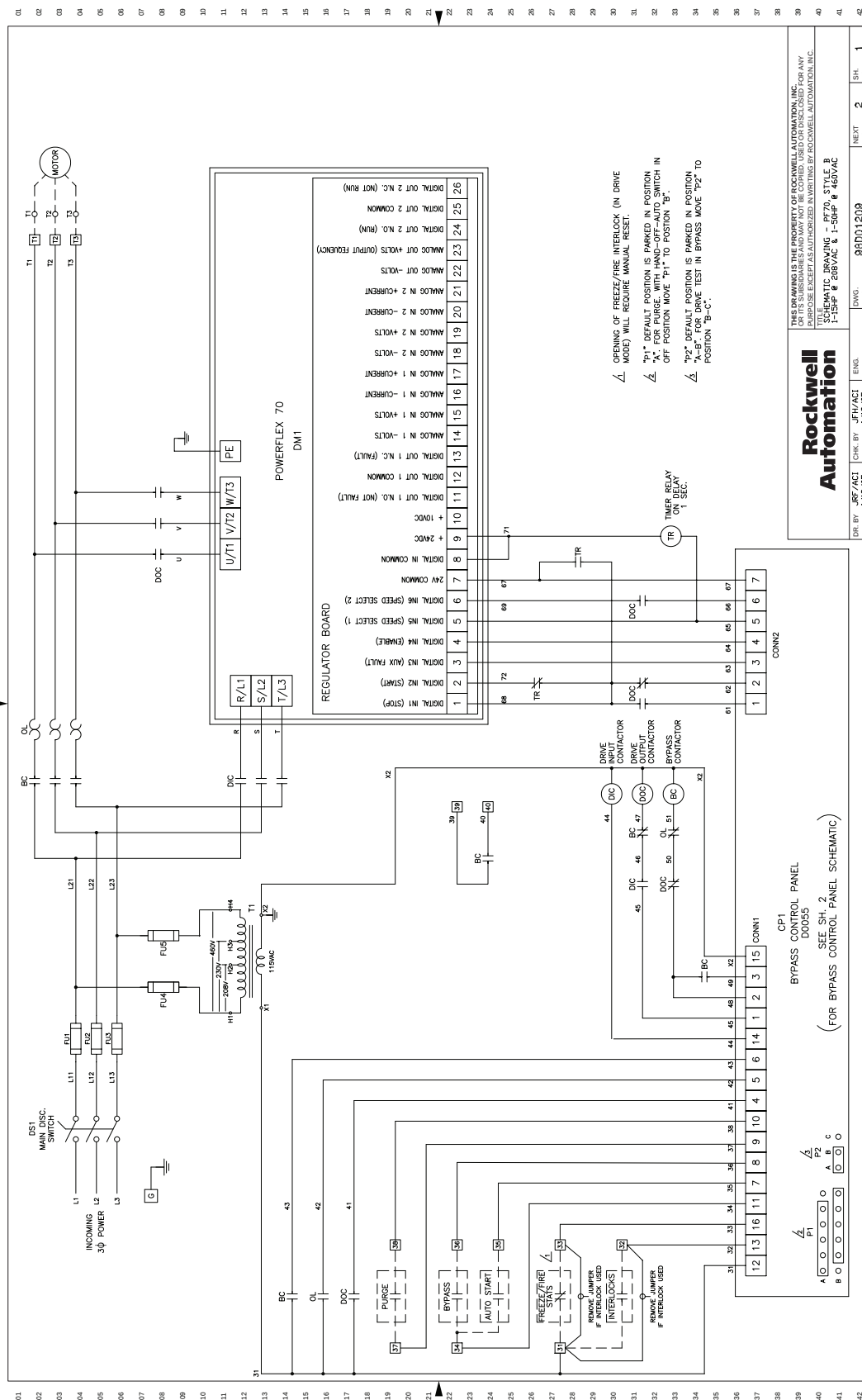




Figure 30 - 60...150 Hp, 480V AC Drives (style B) (sheet 1 of 2)

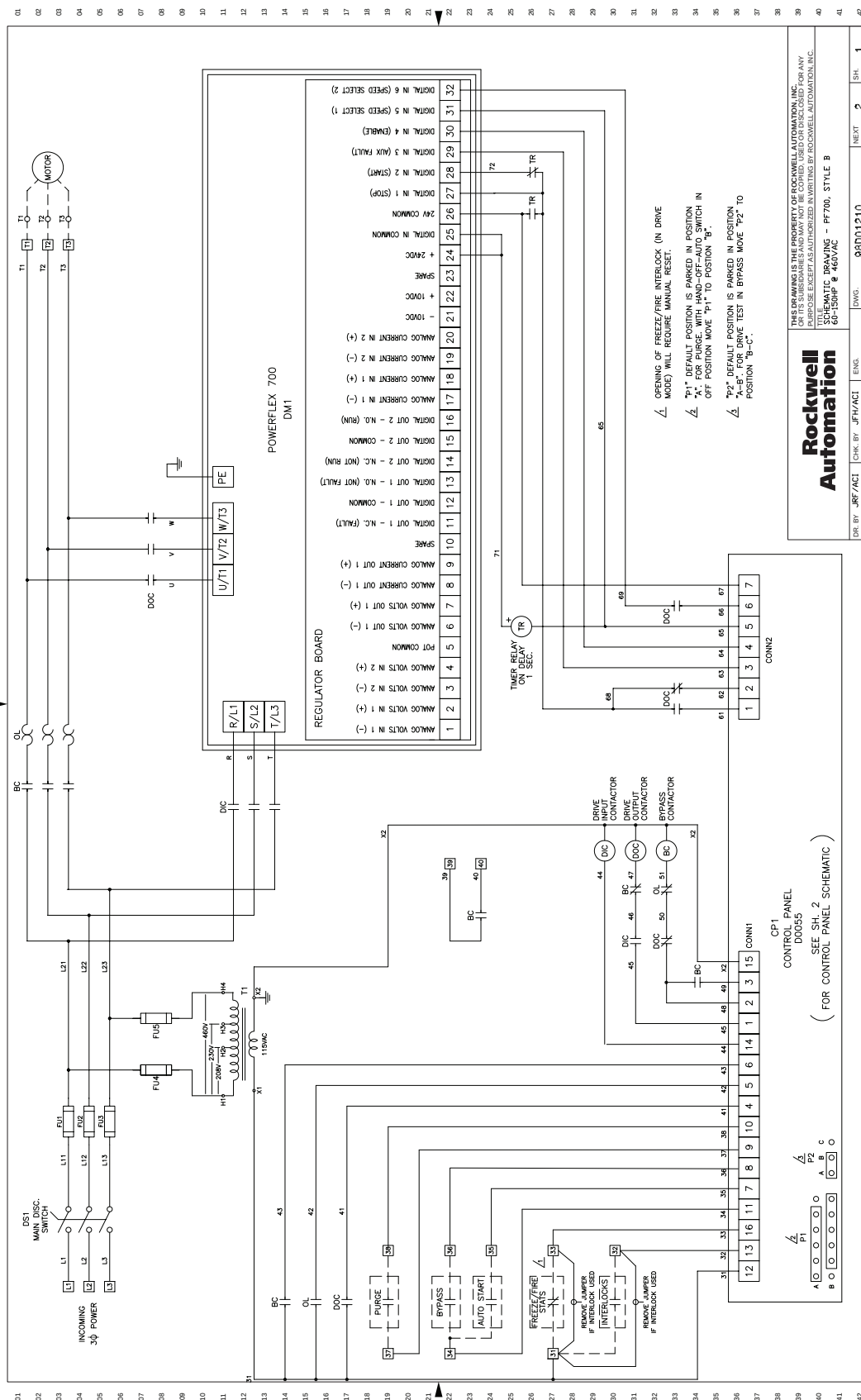




Figure 32 - 1...50 Hp, 600V AC Drives (style B) (sheet 1 of 2)

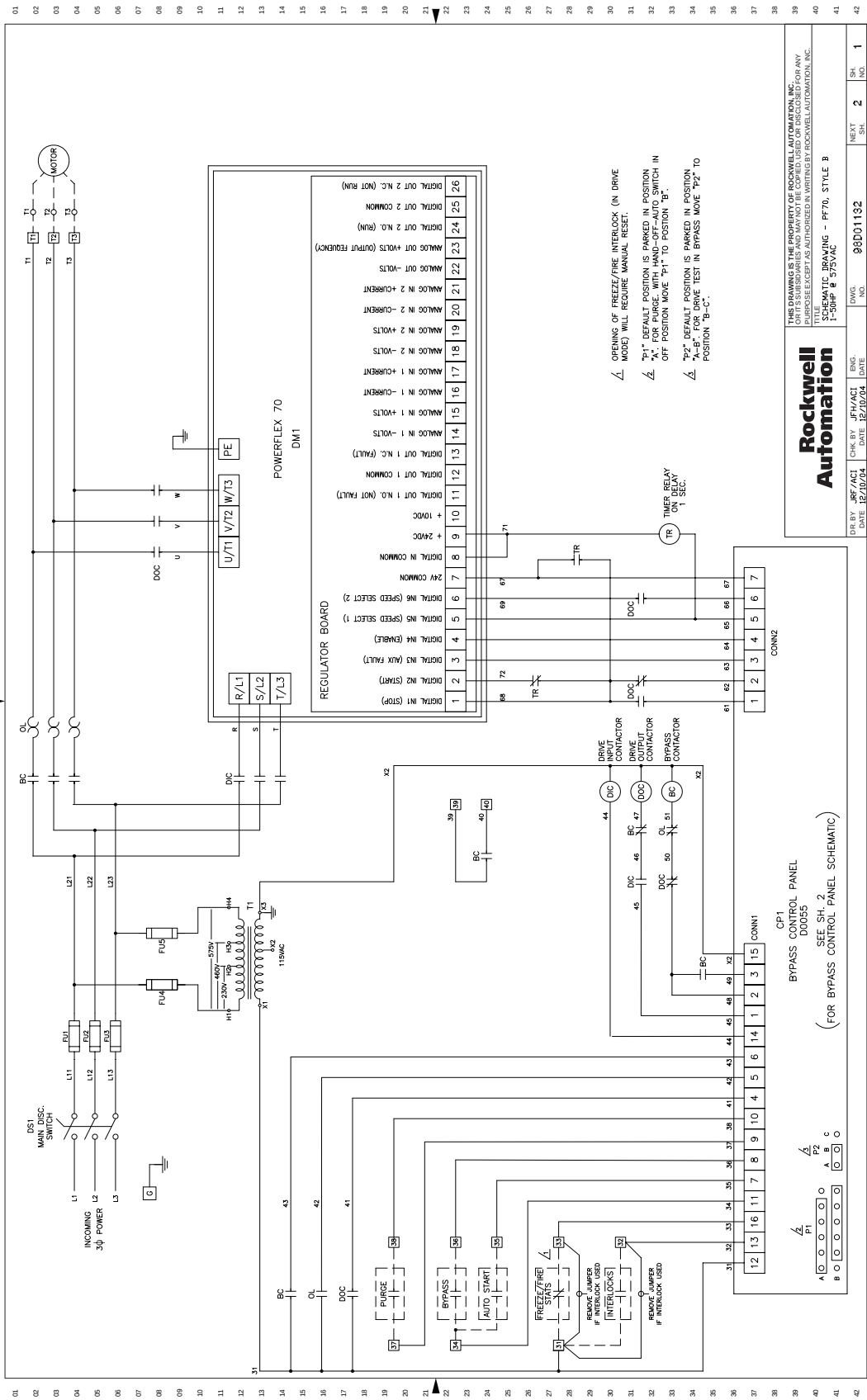


Figure 33 - 1...50 Hp, 600V AC Drives (style B) (sheet 2 of 2)

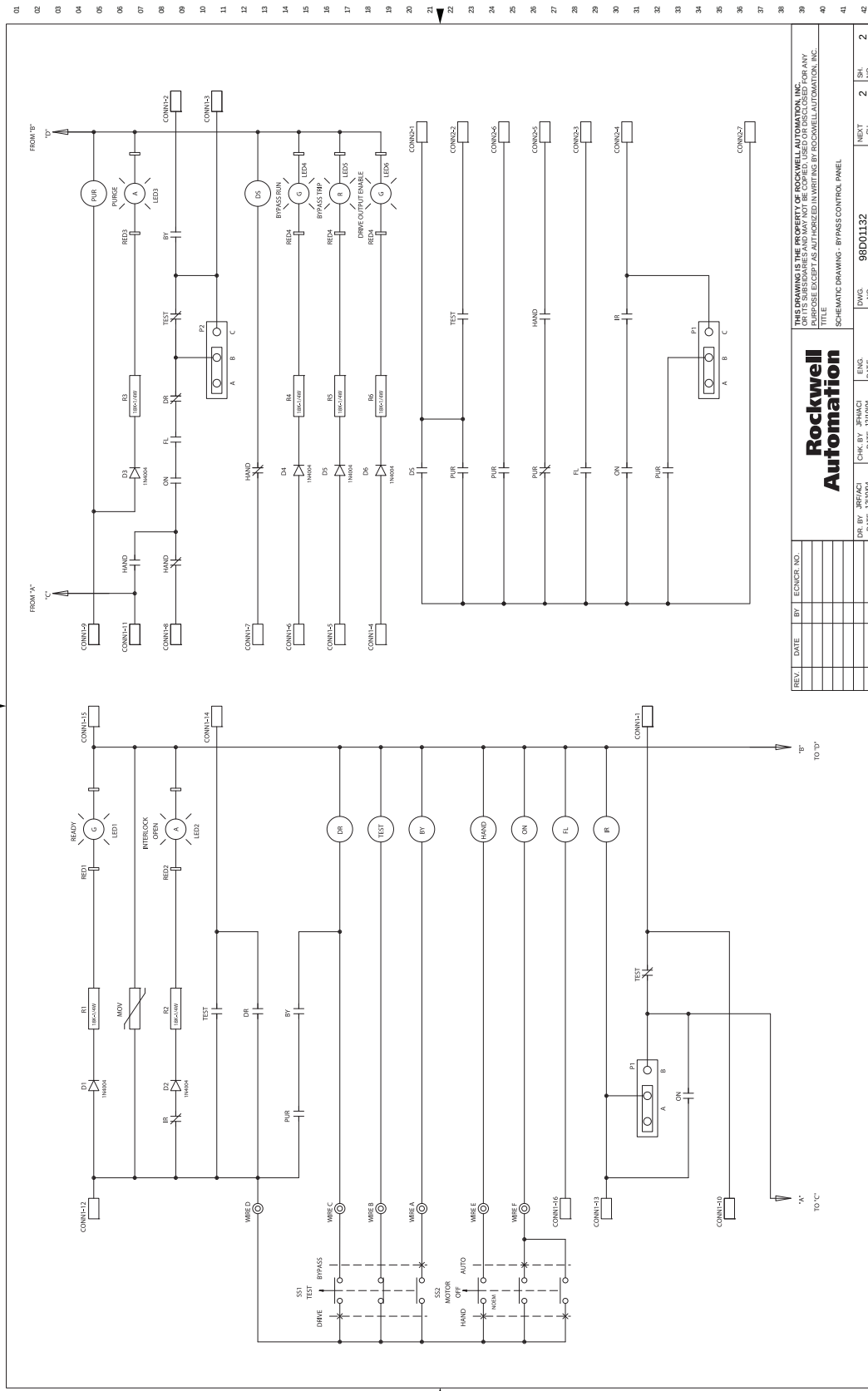


Figure 34 - 60...150 Hp, 600V AC Drives (style B) (sheet 1 of 2)

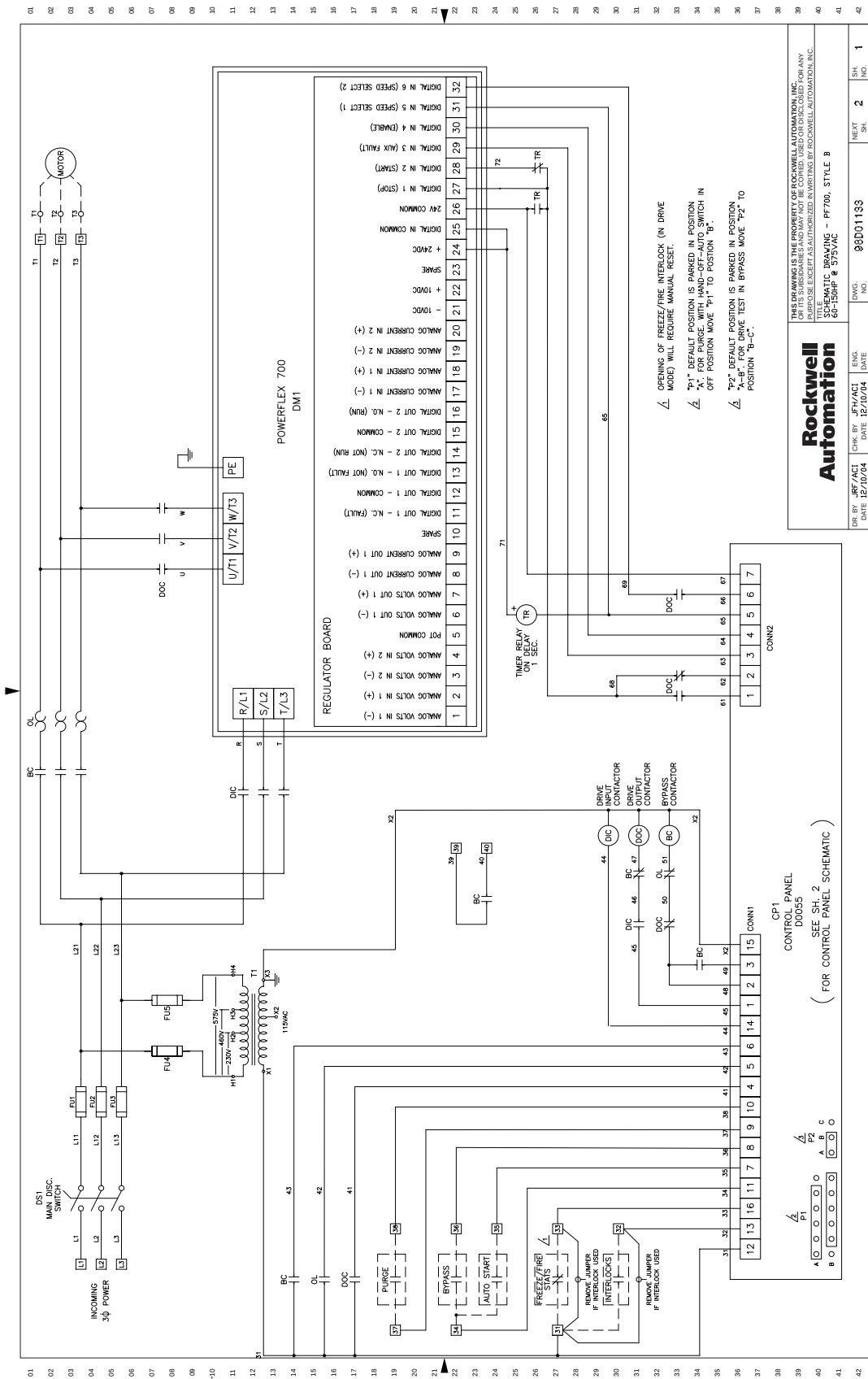




Figure 36 - 1...10 Hp, 208V AC; and 1...25 Hp, 480V AC Drives with Line Reactor (style B)
(sheet 1 of 2)

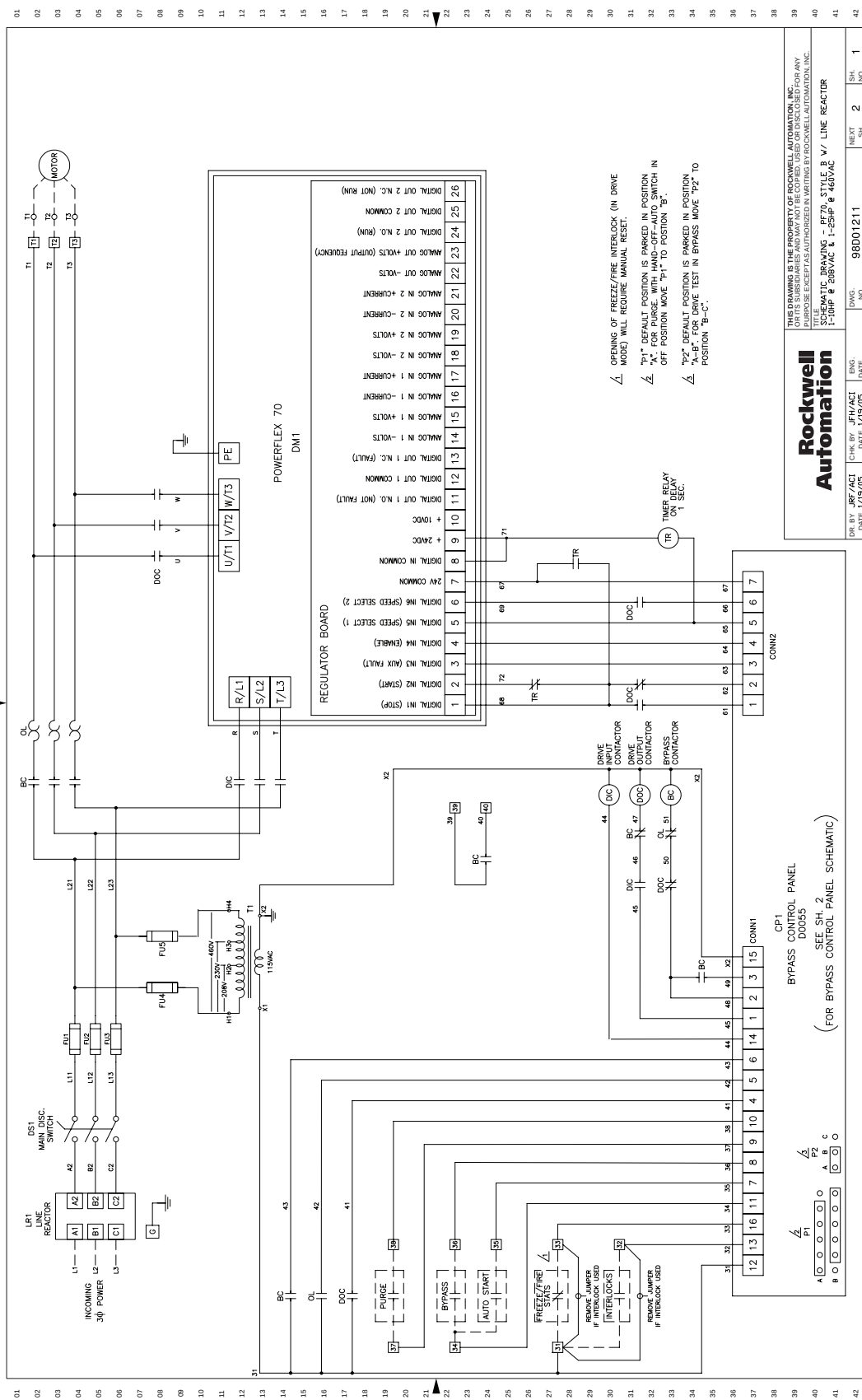


Figure 37 - 1...10 Hp, 208V AC; and 1...25 Hp, 480V AC Drives with Line Reactor (style B)
(sheet 2 of 2)

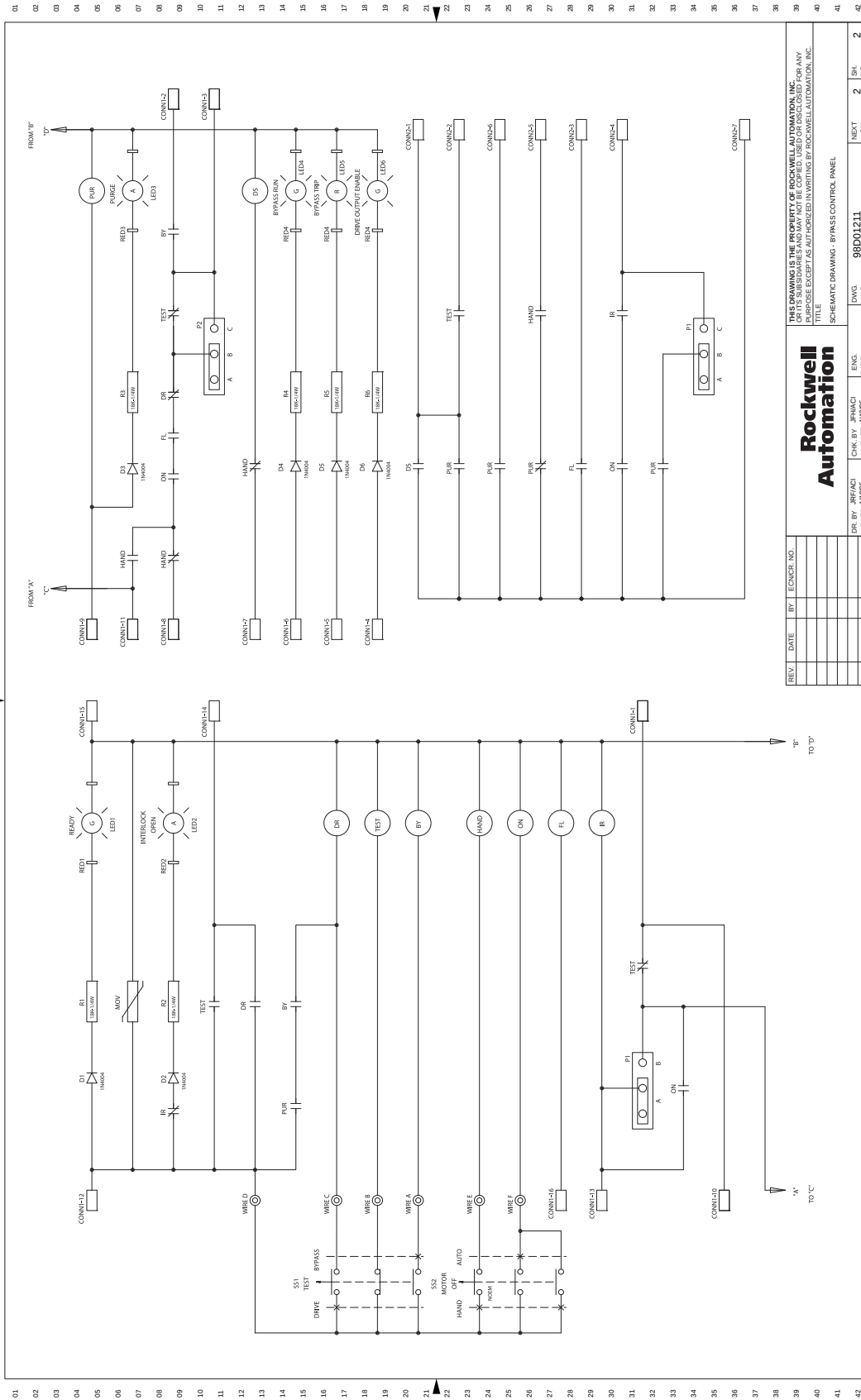


Figure 38 - 3...25 Hp, 600V AC Drives with Line Reactor (style B) (sheet 1 of 2)

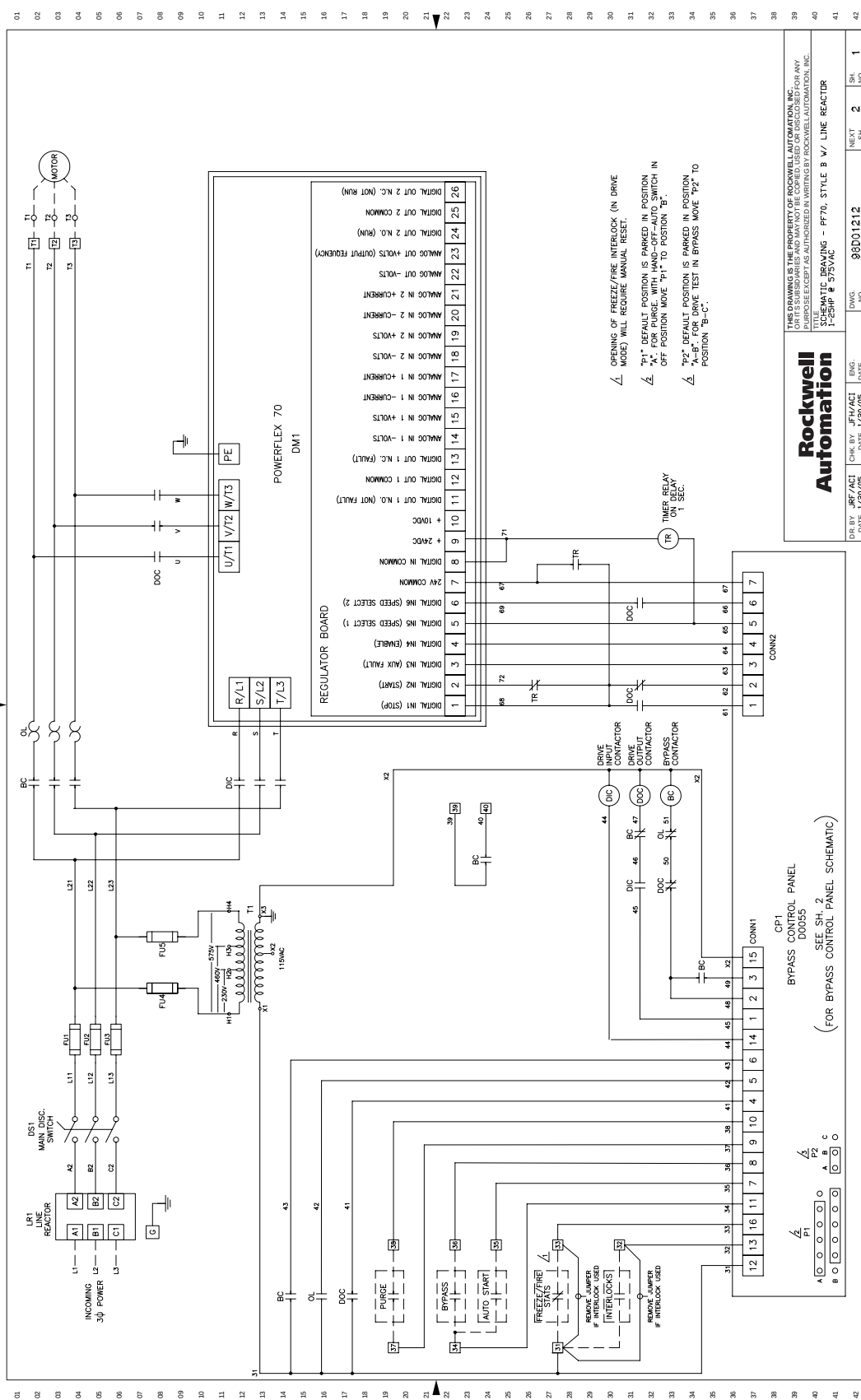


Figure 39 - 3...25 Hp, 600V AC Drives with Line Reactor (style B) (sheet 2 of 2)

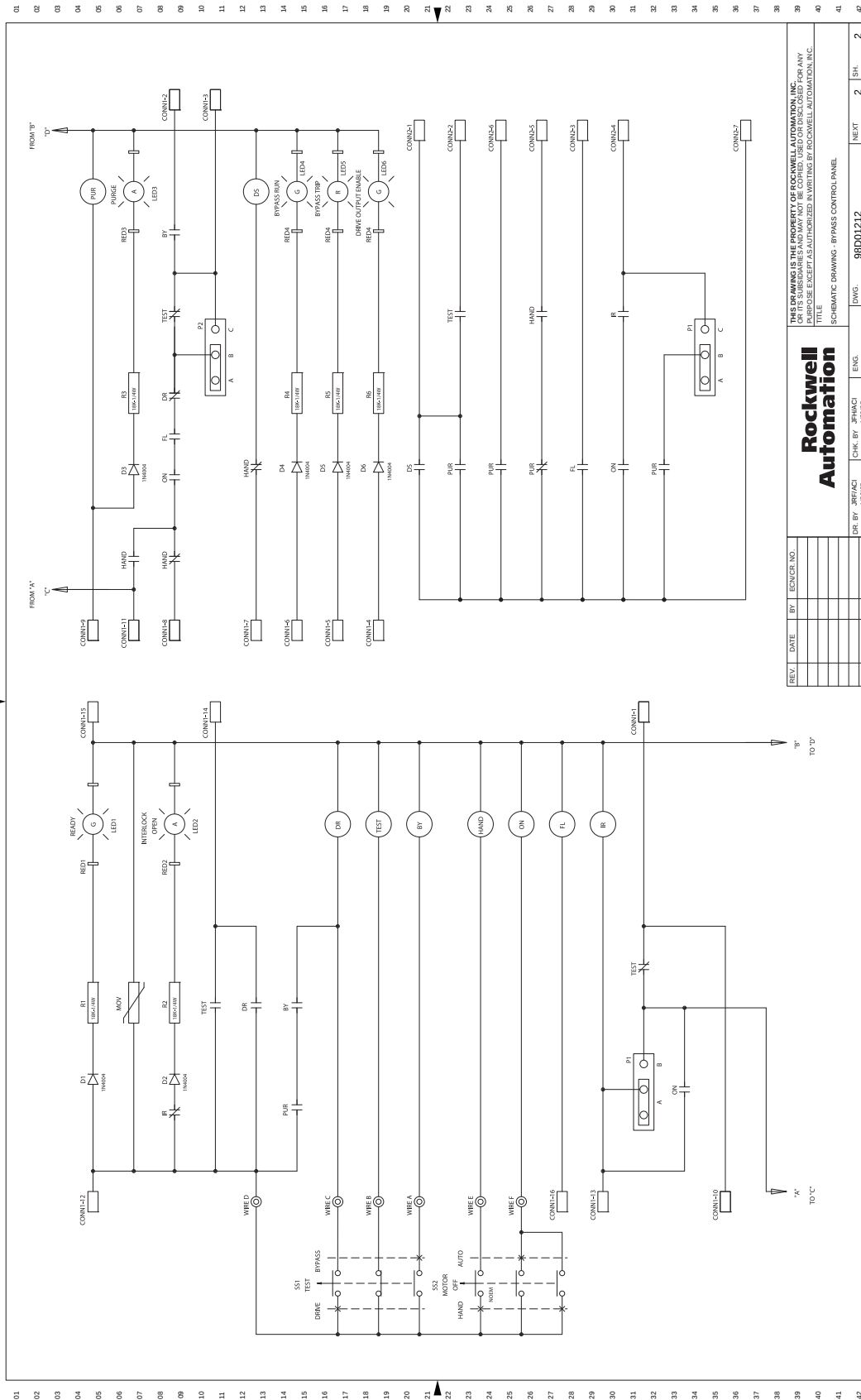


Figure 40 - 1...15 Hp, 208V AC; and 1...50 Hp, 480V AC and 600V AC Drives (style B)



Figure 41 - 60...150 Hp, 480V AC and 600V AC Drives (style B)

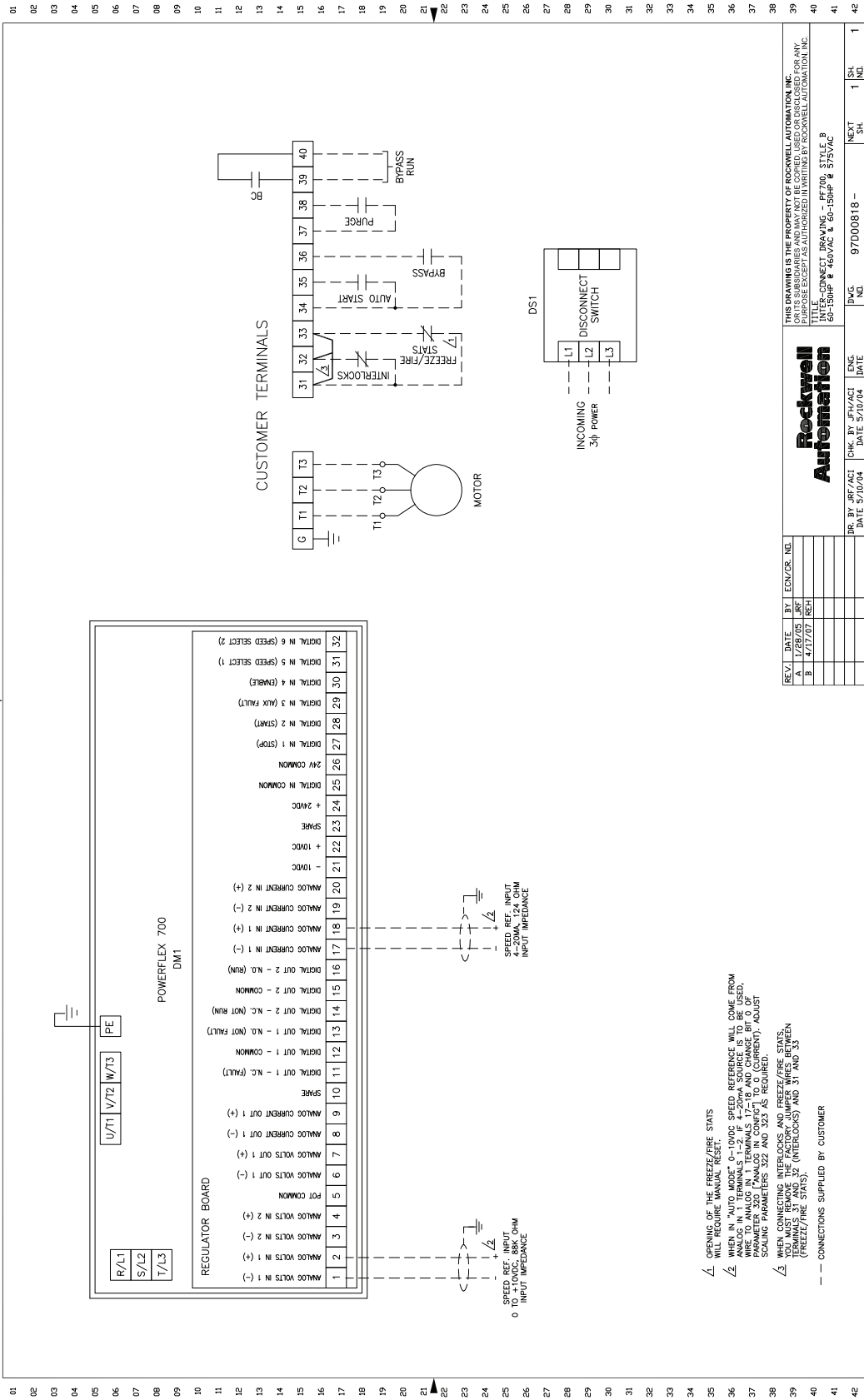


Figure 42 - 1...10 Hp, 208V AC; 1...25 Hp, 480V AC; and 3...25 Hp, 600V AC Drives with Line Reactor (style B)

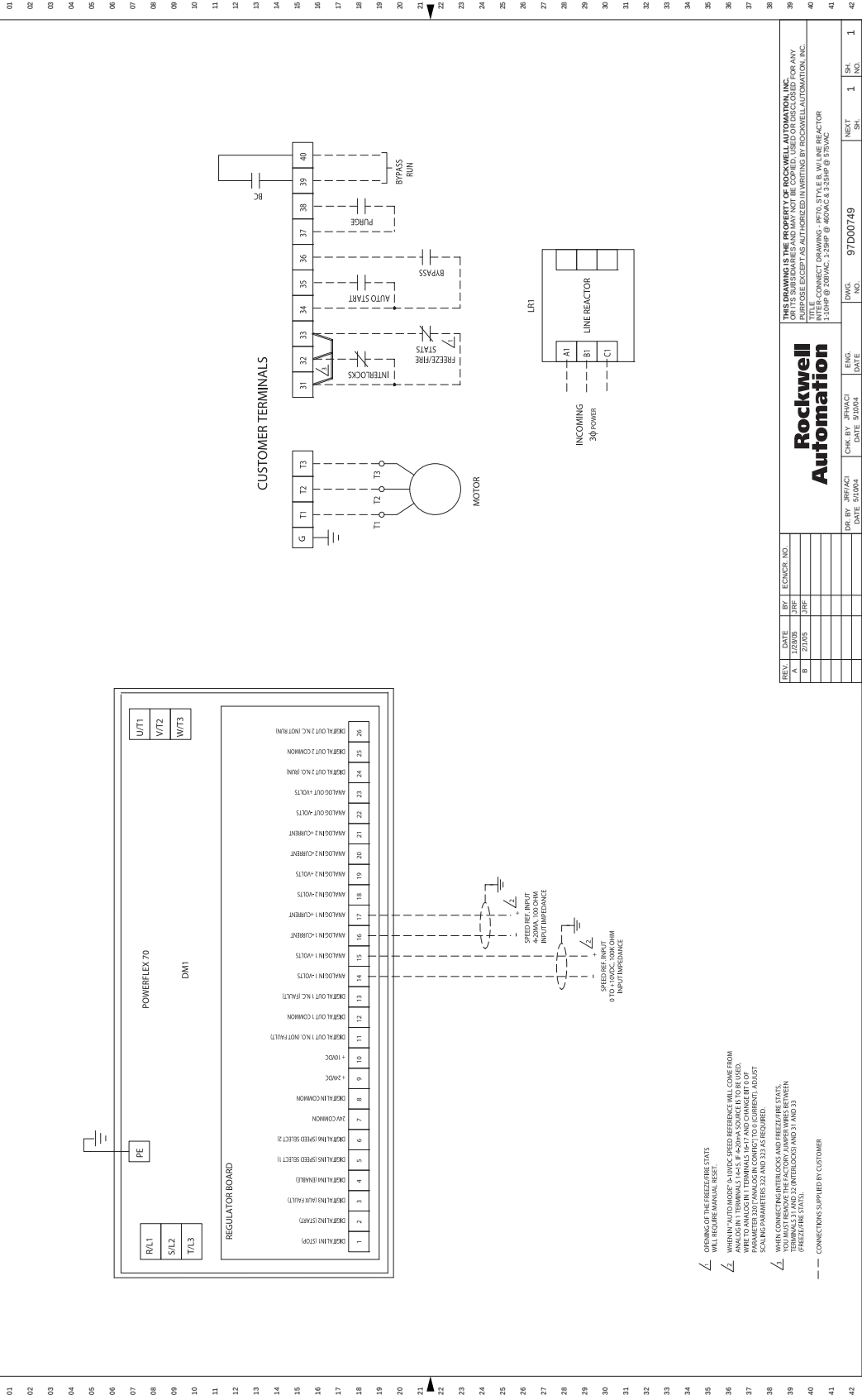
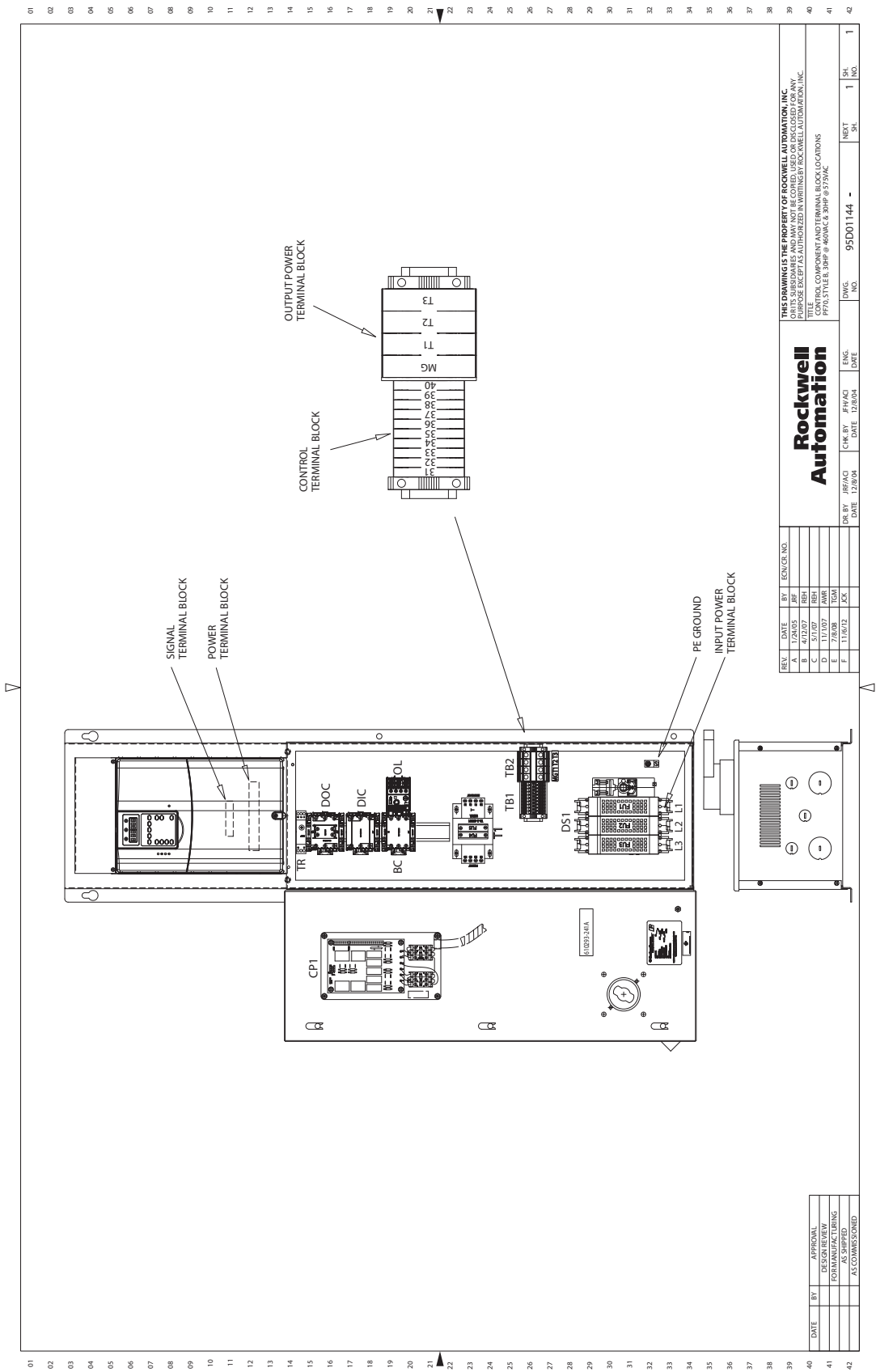


Figure 44 - 30 Hp, 480V AC and 600V AC Drives (style B)





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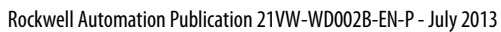


Figure 48 - 125...150 Hp, 480V AC and 600V AC Drives (style B)

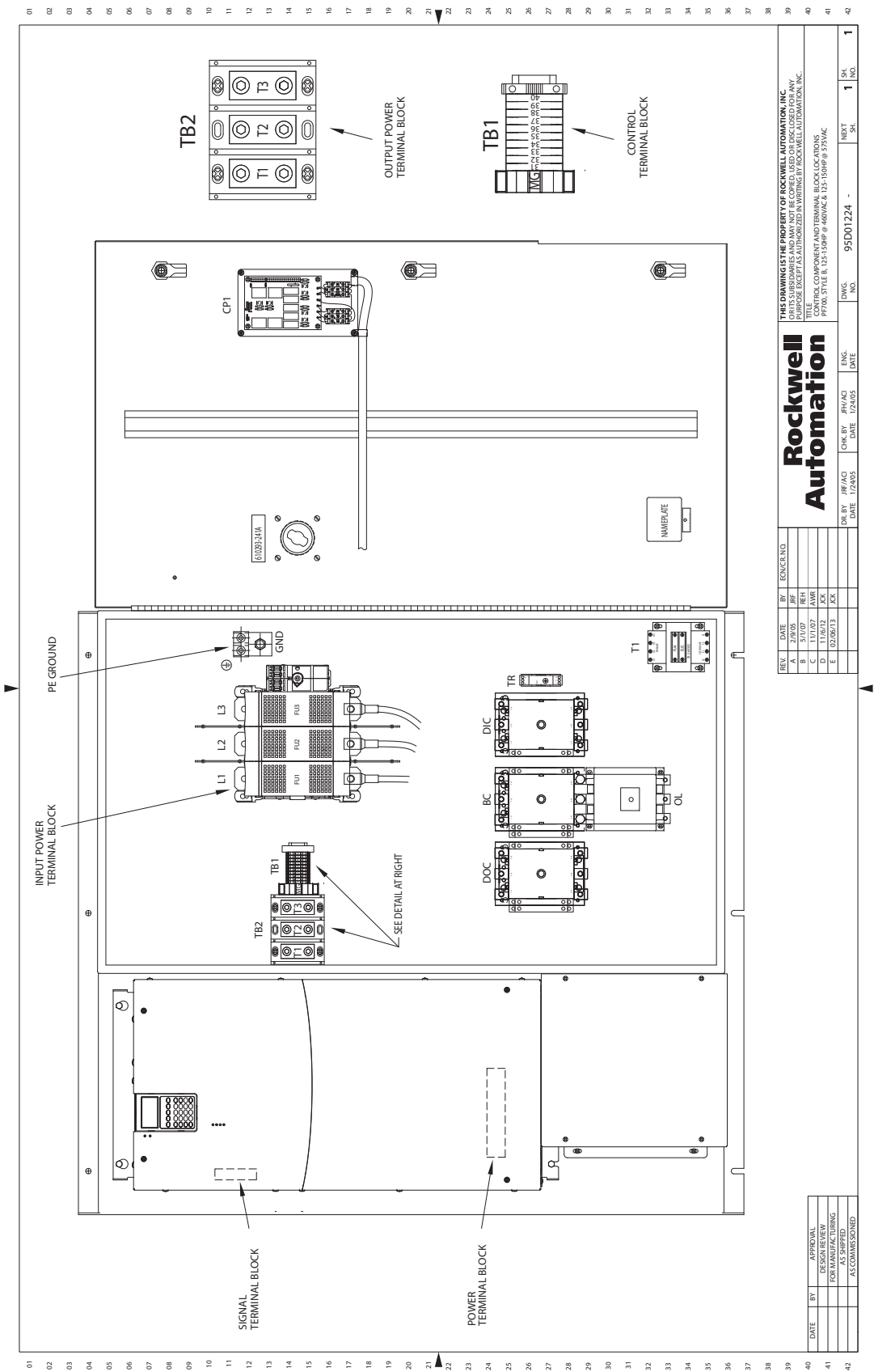


Figure 49 - 1...3 Hp, 208V AC; 1...5 Hp, 480V AC; and 3...5 Hp, 60V AC Drives with Line Reactor (style B)

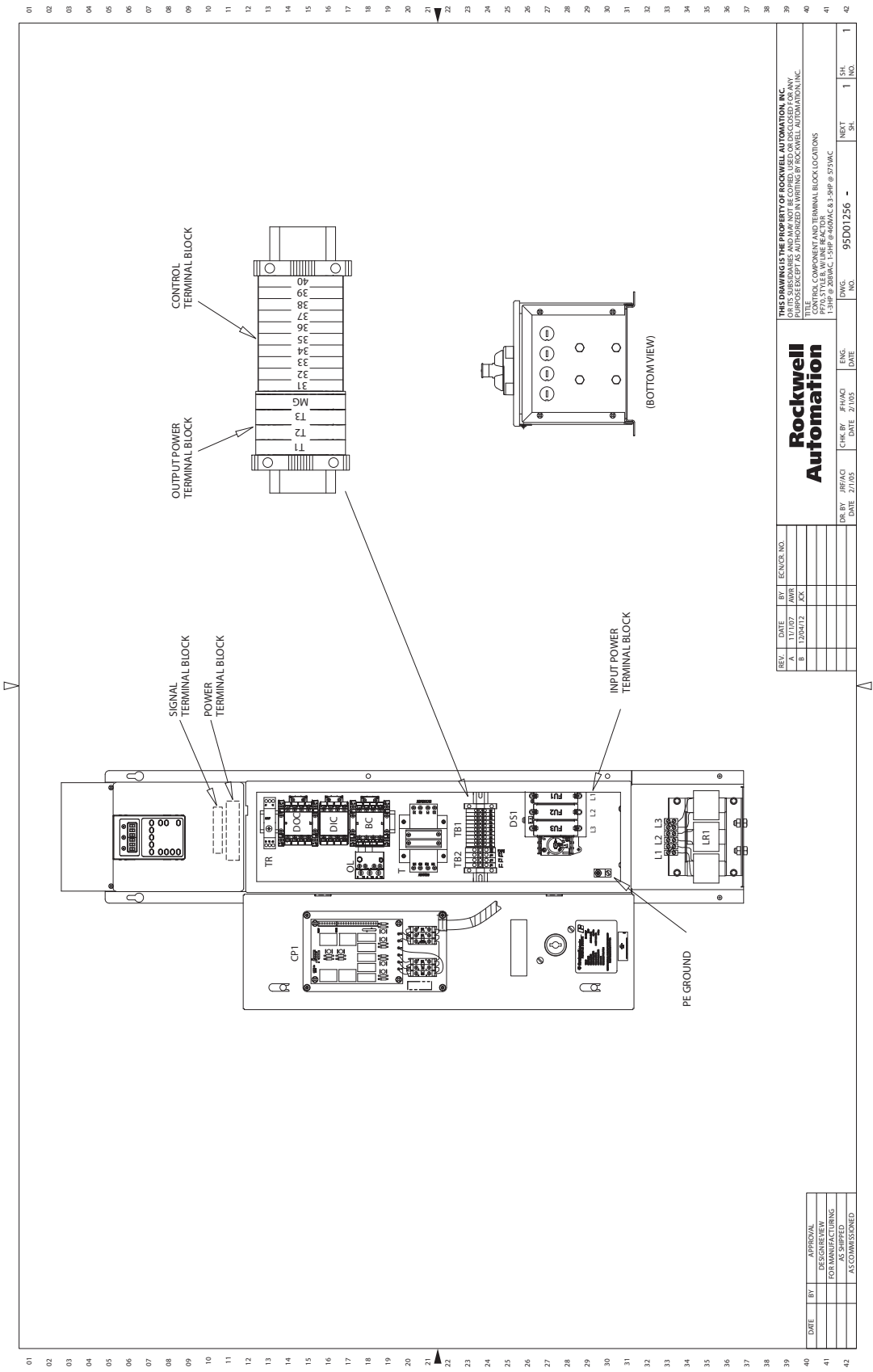
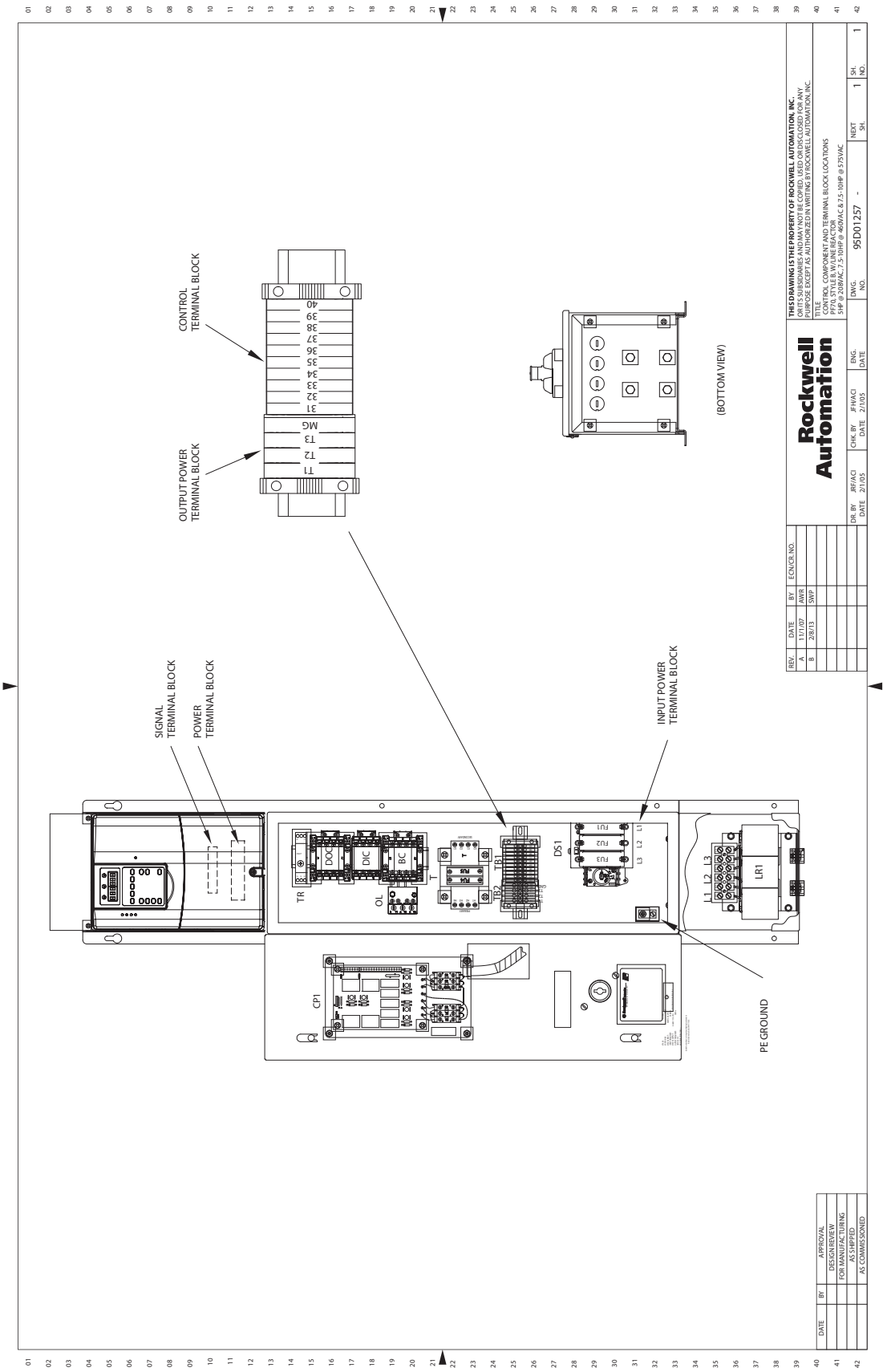


Figure 50 - 5 Hp, 208V AC; 7.5...10 Hp, 480V AC and 600V AC Drives with Line Reactor (style B)



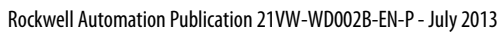


Figure 52 - 1...3 Hp, 208V AC; 1...5 Hp, 480V AC; and 3...5 Hp, 600V AC Drives (style B)





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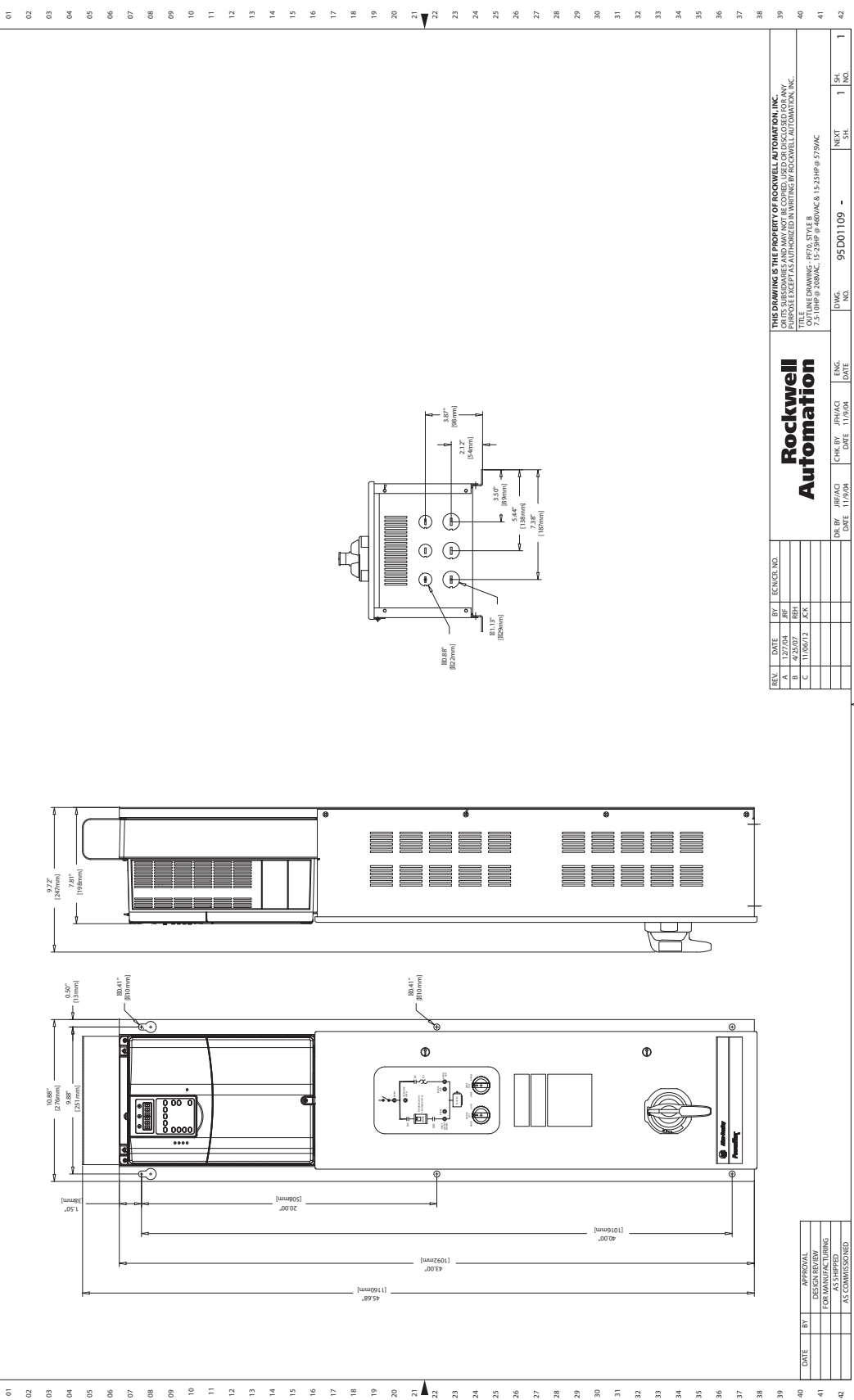
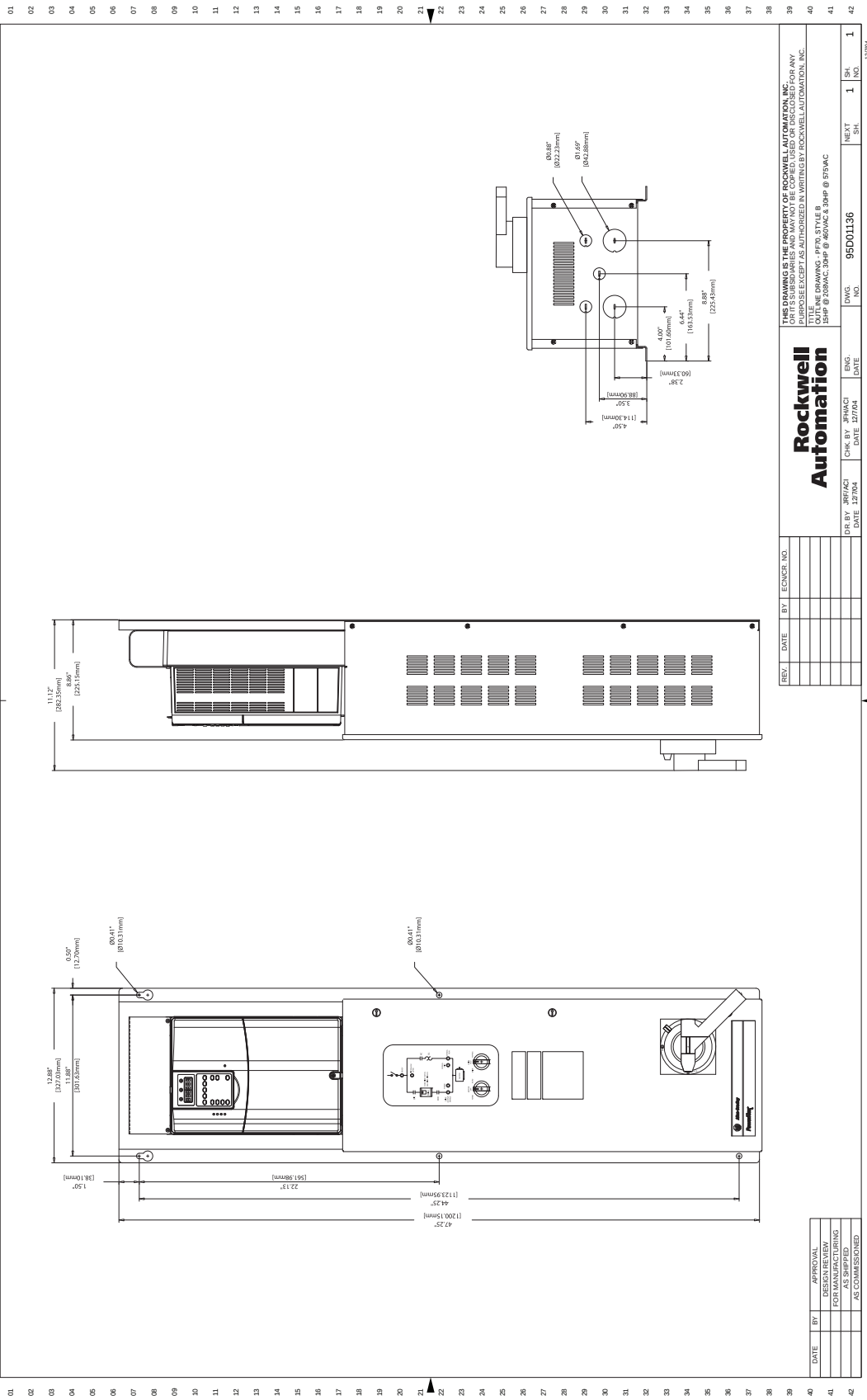


Figure 55 - 15 Hp, 208V AC; and 30 Hp, 480V AC and 600V AC Drives (style B)



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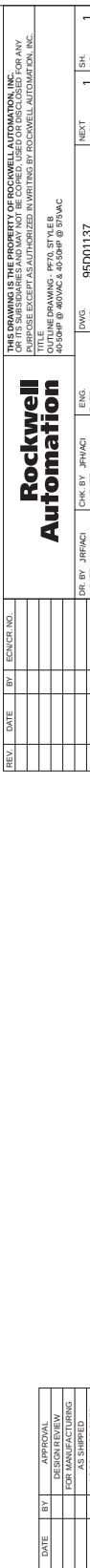
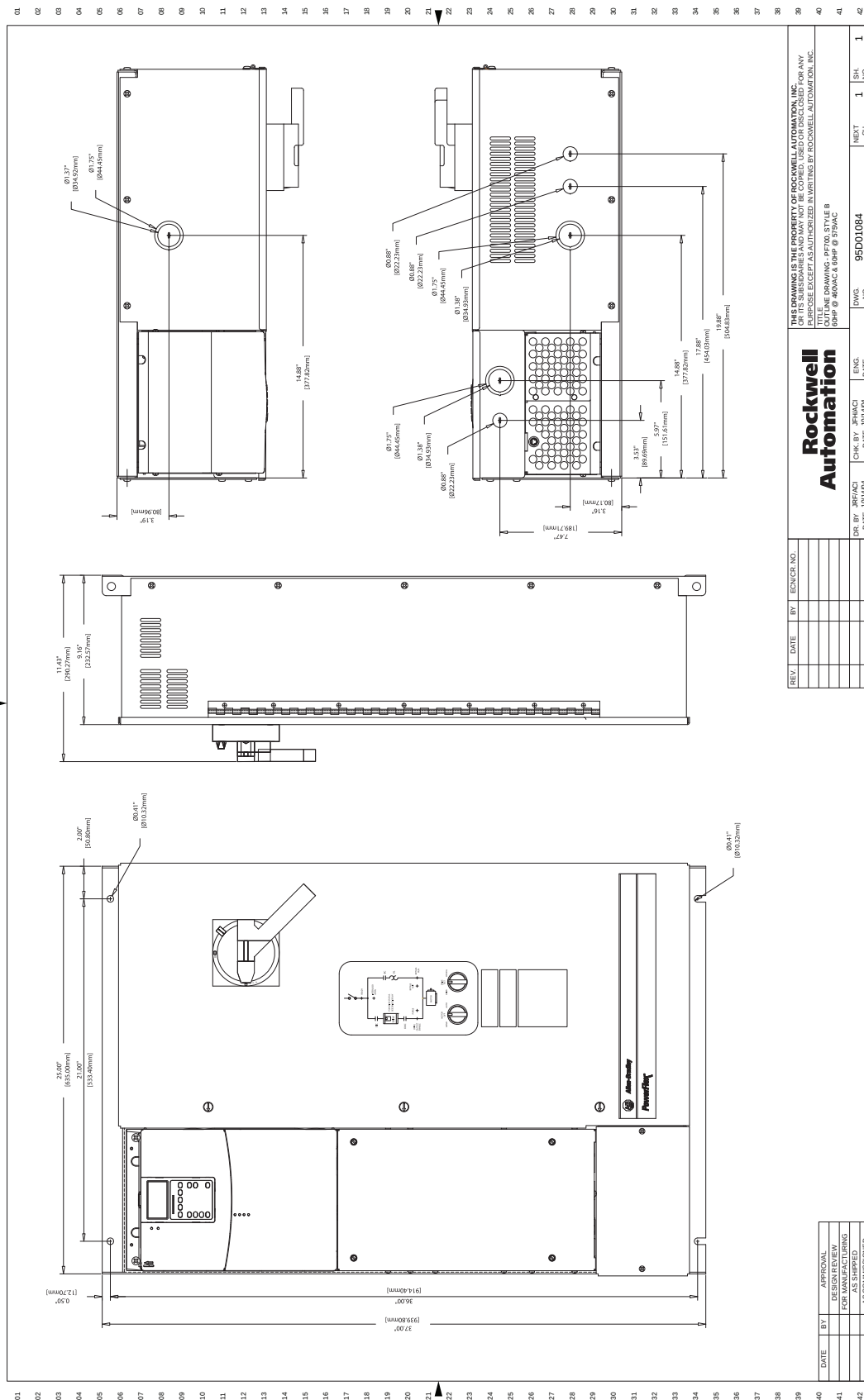


Figure 57 - 60 Hp, 480V AC and 600V AC Drives (style B)



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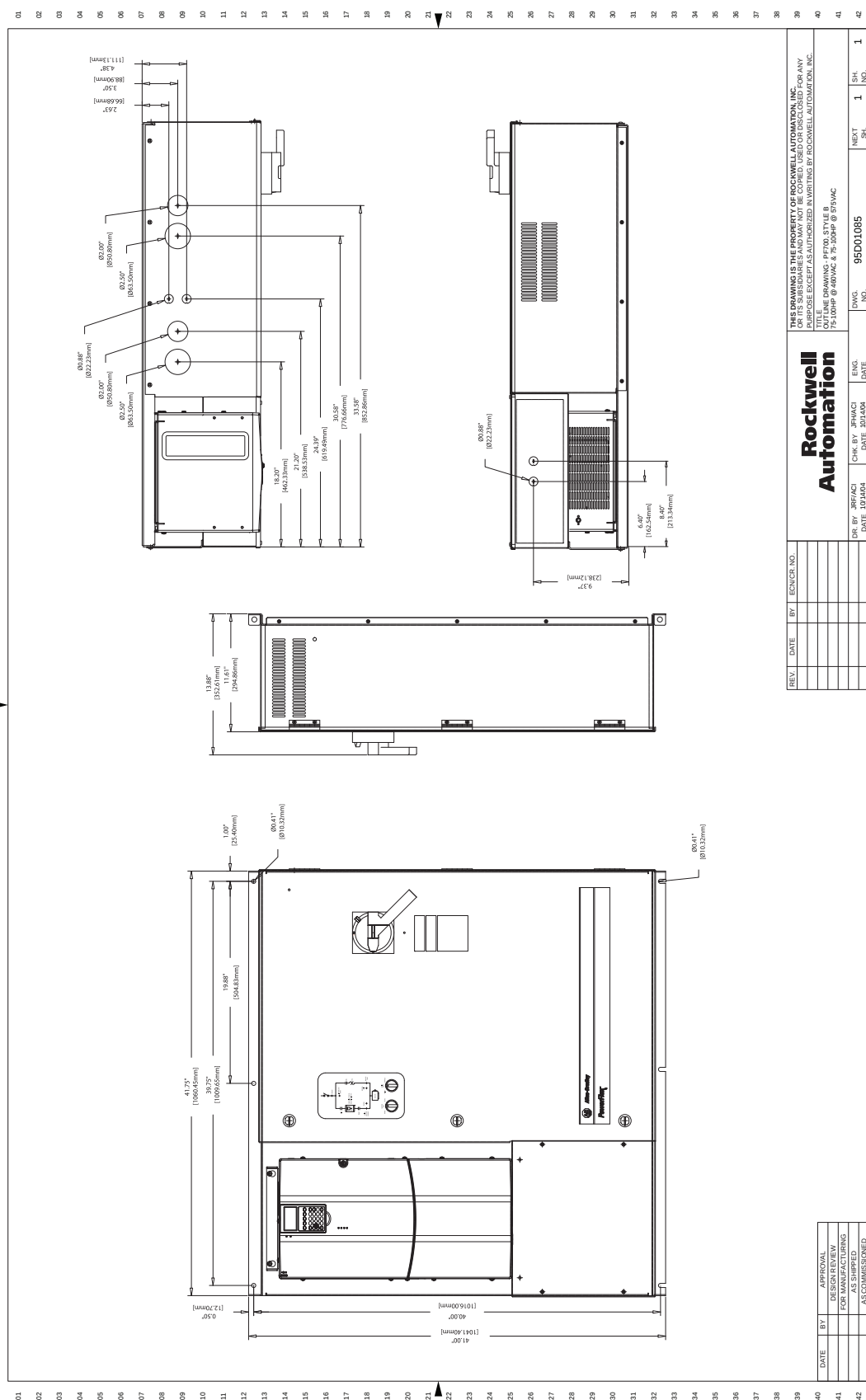


Figure 59 - 125...150 Hp, 480V AC and 600V AC Drives (style B)

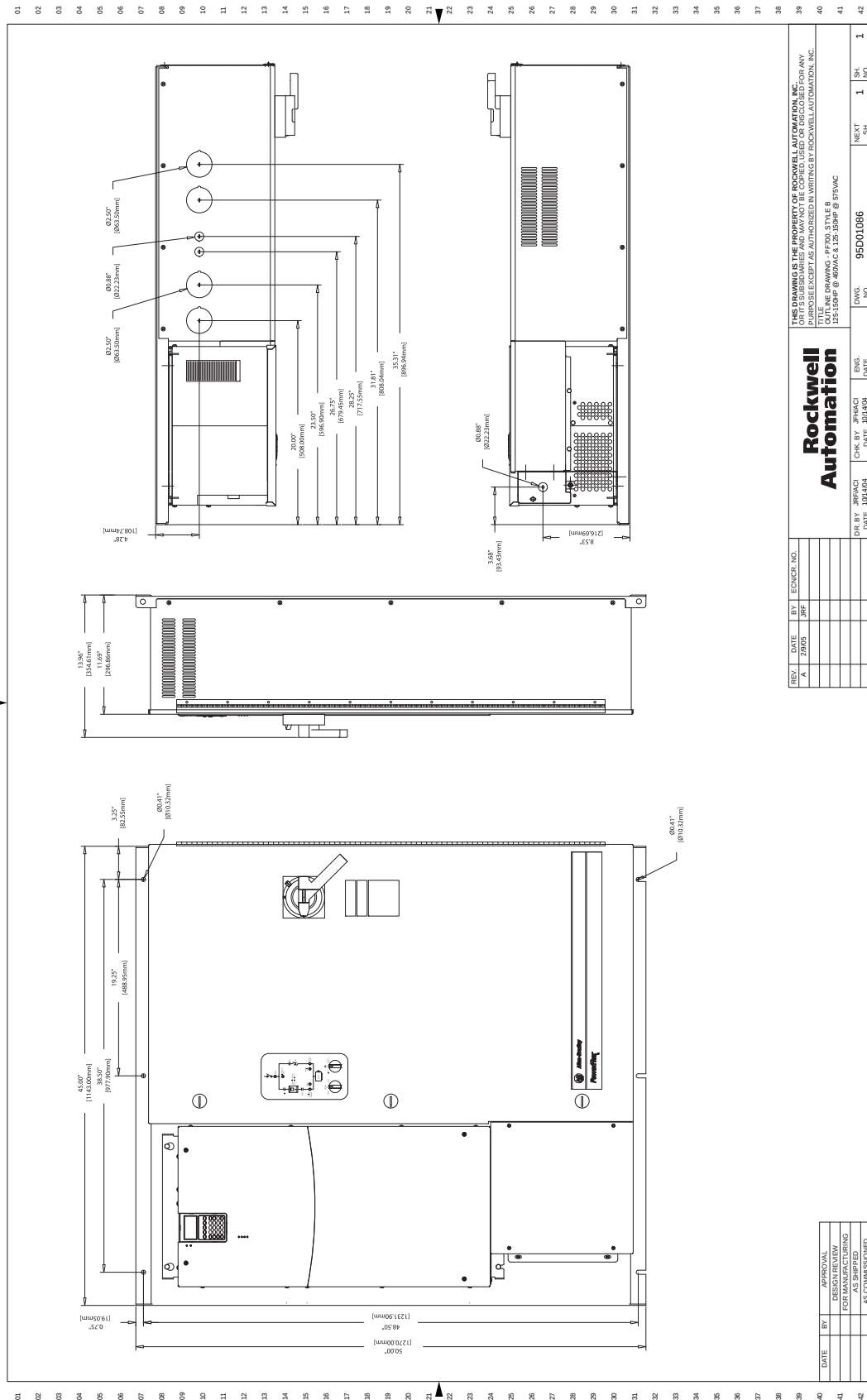


Figure 60 - 1...3 Hp, 208V AC; 1...5 Hp, 480V AC; and 3...5 Hp, 600V AC Drives with Line Reactor (style B)

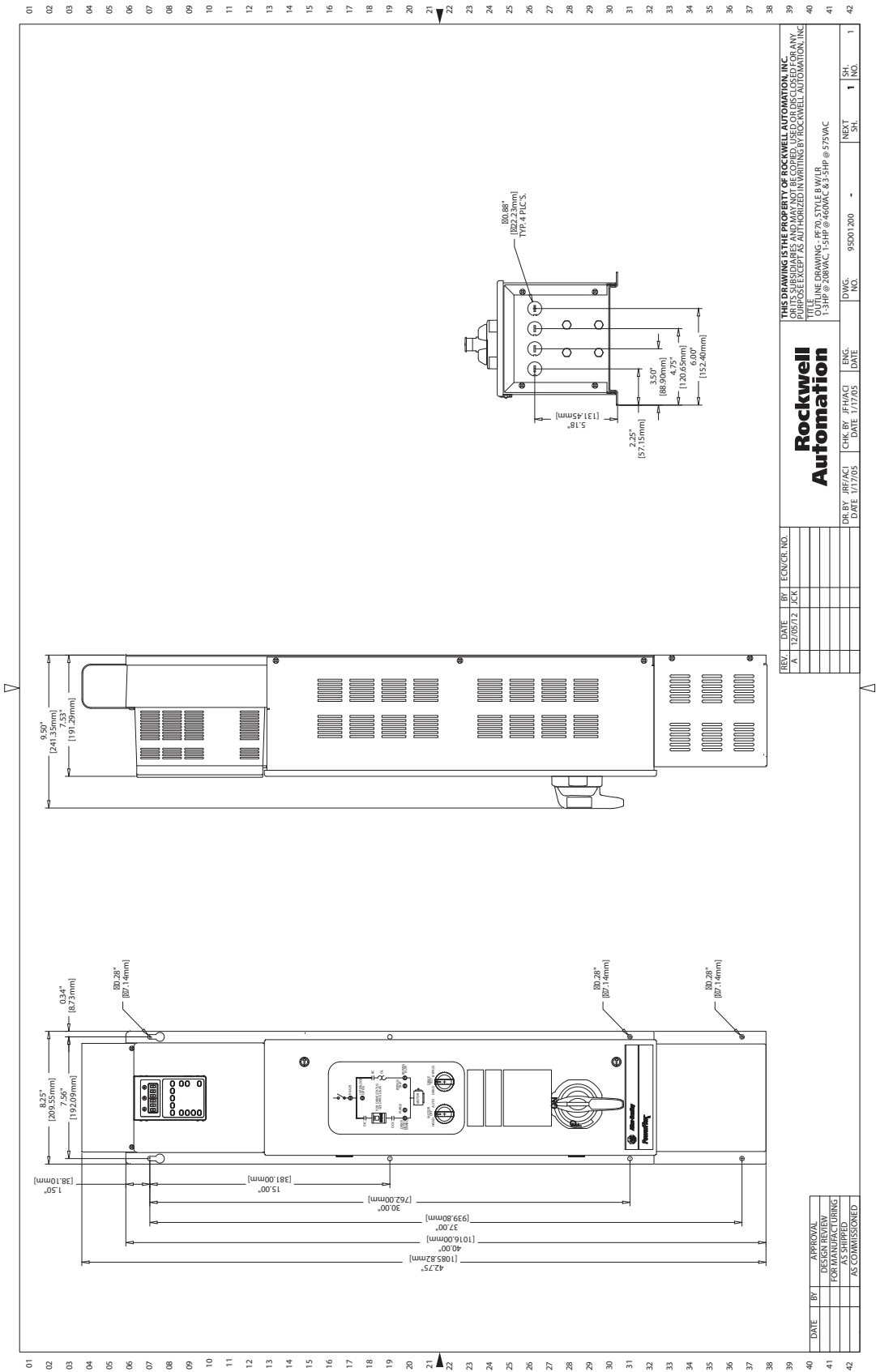
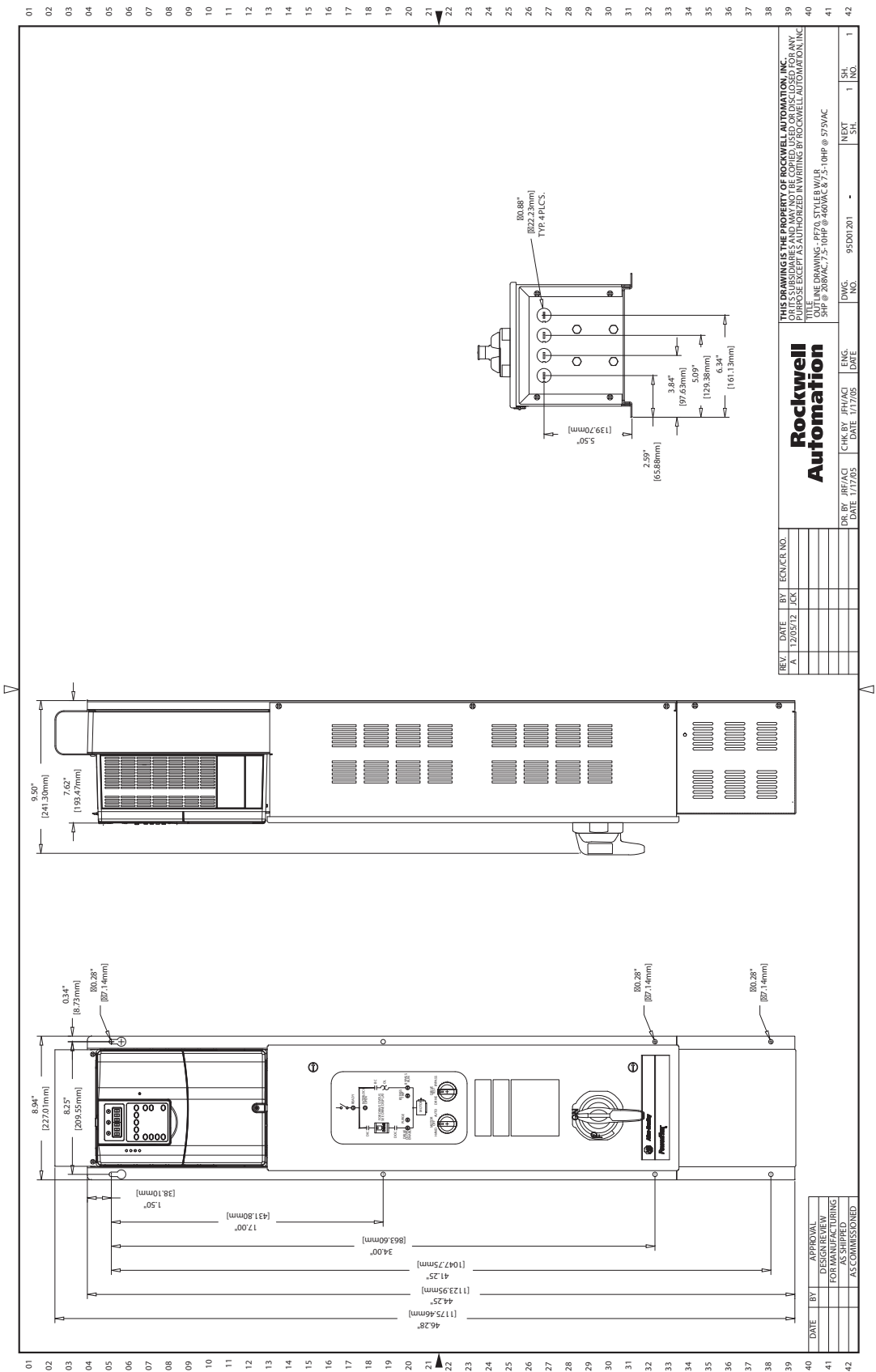
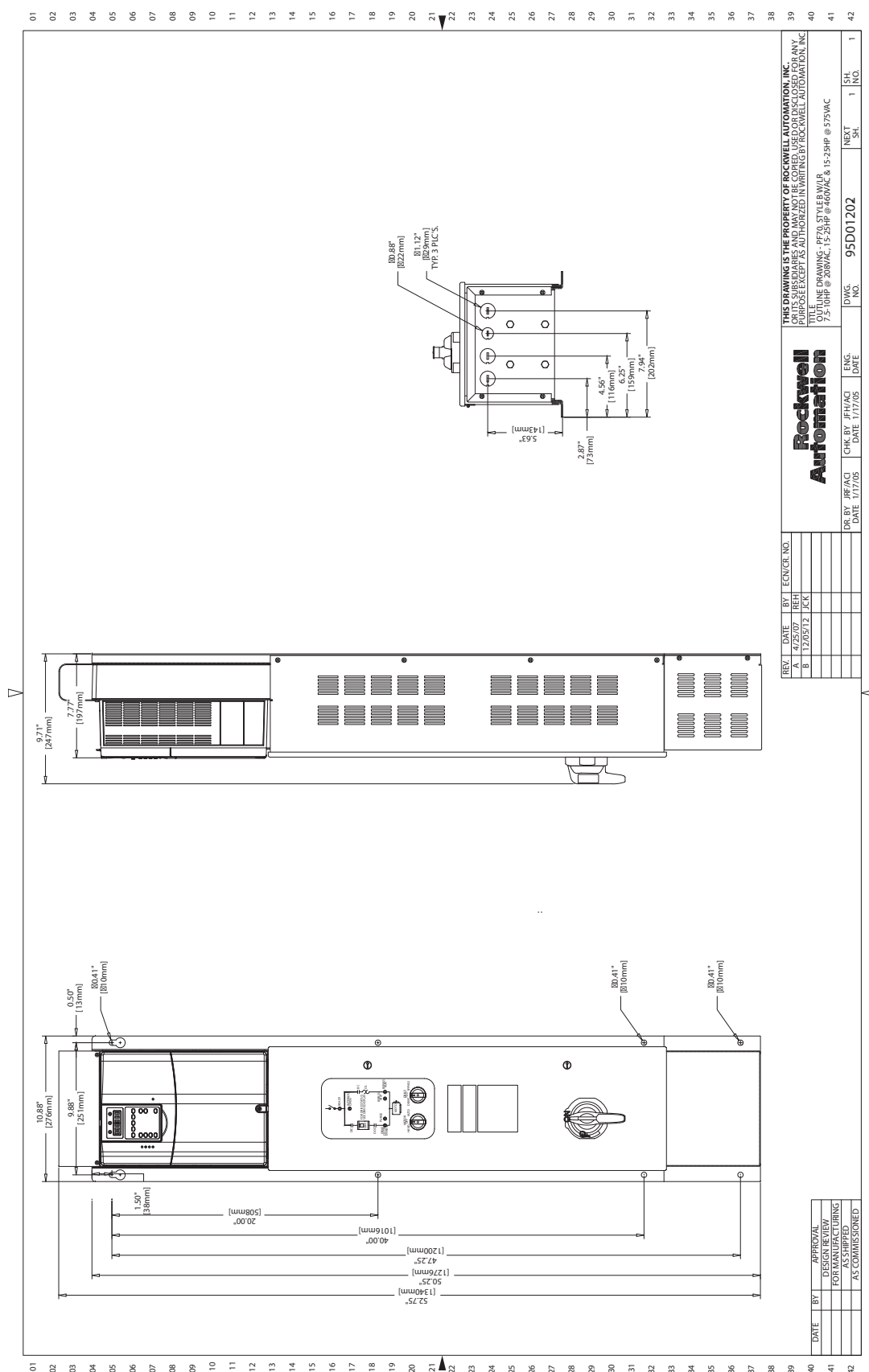


Figure 61 - 5 Hp, 208V AC; and 7.5...10 Hp, 480V AC and 600V AC Drives with Line Reactor (style B)



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