

GENERAL INFORMATION

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAMS

SCD 1

SCHEMATIC		CONNECTIONS			
		Primary Volts			
		240	480	416	
		Connect lines to		Inter-connect	
		H1, H4		H2-H3	
		H1, H4		H1-H3, H2-H4	
		Secondary Volts			
		24	32	48	240
		12/24	16/32	24/48	120/240
		12	16	24	120
		Connect lines to		Inter-connect	
		X1, X4		X2-X3	
		X1, X2, X4		X2-X3	
		X1, X2		X2-X4, X1-X3	

SCD 2

SCHEMATIC		CONNECTIONS		
		Primary Volts		
		504		
		Connect lines to		Inter-connect
		H1, H4		1-H2, 2-H3, H2-H3
		H1, H4		3-H2, 2-H3, H2-H3
		H1, H4		3-H2, 4-H3, H2-H3
		H1, H4		5-H2, 4-H3, H2-H3
		H1, H4		5-H2, 6-H3, H2-H3
		H1, H4		7-H2, 6-H3, H2-H3
		H1, H4		7-H2, 8-H3, H2-H3
		H1, H4		1-H2, 2-H3, H1-H3, H2-H4
		H1, H4		3-H2, 4-H3, H1-H3, H2-H4
		H1, H4		5-H2, 6-H3, H1-H3, H2-H4
		H1, H4		7-H2, 8-H3, H1-H3, H2-H4
		Secondary Volts		
		240		X2- X3
		120		X2-X4, X1-X3
		120/240		X2-X3

SCD 3

SCHEMATIC		CONNECTIONS		
		Primary Volts		
		630		
		Connect lines to		Inter-connect
		H1, H2, H3		1-H1, 1-H2, 1-H3
		H1, H2, H3		2-H1, 2-H2, 2-H3
		H1, H2, H3		3-H1, 3-H2, 3-H3
		H1, H2, H3		4-H1, 4-H2, 4-H3
		H1, H2, H3		5-H1, 5-H2, 5-H3
		H1, H2, H3		6-H1, 6-H2, 6-H3
		H1, H2, H3		7-H1, 7-H2, 7-H3
		H1, H2, H3		8-H1, 8-H2, 8-H3
		Secondary Volts		
		208	480	-
		120	120	-
		Connect lines to		Inter-connect
		X1, X2, X3		-
		X1, X0		-
		X2, X0		-
		X3, X0		-

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SCD 4

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	208 277 347 380 416 600	H1, H2	---
	Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3	
120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3	

SCD 5

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	120 208 240 277 380 416 480 600 114 198 228 263 395 456 570 108 188 216 249 347 374 432 540	H1, H2 H1, H2 H1, H2	1-2 2-3 3-4
	Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3	
120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3	

SCD 6

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 291 437 504 630 2520 4368 213 284 426 492 615 2460 4264 208 277 416 480 600 2400 4160 203 270 406 468 585 2340 4056 198 263 395 456 570 2280 3952	H1, H2 H1, H2 H1, H2 H1, H2 H1, H2	1-2 2-3 3-4 4-5 5-6
	Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3	
120/240	X1, X2, X4	X2-X3	
120	X1, X2	X2-X4, X1-X3	

SCD 7

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 242 252 437 483 504 604 630 208 230 240 416 460 480 575 600 198 219 228 395 437 456 570 570	H1, H2, H3 H1, H2, H3 H1, H2, H3	1 2 3
	Secondary Volts	Connect lines to	
208 230 240 380 416 460 480 600 120 133 139 220 240 265 277 347	X1, X2, X3 X1, X0 X2, X0 X3, X0		

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SCD 15

SCHEMATIC	CONNECTIONS		
	Connect to	Step Down	Step Up
	Lines from Supply	H1, H2, H3	X1, X2, X3
	Lines to Load	X1, X2, X3	H1, H2, H3

SCD 16

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504 630	H1, H2, H3	1
	492 615	H1, H2, H3	2
	480 600	H1, H2, H3	3
	468 585	H1, H2, H3	4
	456 570	H1, H2, H3	5
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X2, X3	

SCD 17

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H4	1-H2, 2-H3, H2-H3
	492	H1, H4	3-H2, 2-H3, H2-H3
	480	H1, H4	3-H2, 4-H3, H2-H3
	468	H1, H4	5-H2, 4-H3, H2-H3
	456	H1, H4	5-H2, 6-H3, H2-H3
	444	H1, H4	7-H2, 6-H3, H2-H3
	432	H1, H4	7-H2, 8-H3, H2-H3
	252	H1, H4	1-H2, 2-H3, H1-H3, H2-H4
	240	H1, H4	3-H2, 4-H3, H1-H3, H2-H4
	228	H1, H4	5-H2, 6-H3, H1-H3, H2-H4
	216	H1, H4	7-H2, 8-H3, H1-H3, H2-H4
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3
	120/240	X1, X2, X4	X2-X3

SCD 18

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 252 277 291 437 504 630	H1, H4	-
	208 240 240 277 416 480 600	H1, H3	-
	198 228 208 263 395 456 570	H1, H2	-
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3
	120/240	X1, X2, X4	X2-X3

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SCD 28

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		440 416 400 380 220 208 200 190	H1, H10 H1, H9 H1, H8 H1, H7 H1, H10 H1, H9 H1, H8 H1, H7	H5-H6 H4-H6 H3-H6 H2-H6 H1-H6, H5-H10 H1-H6, H4-H9 H1-H6, H3-H8 H1-H6, H2-H7
		Secondary Volts	Connect lines to	Inter-connect
		240 120/240 120	X1, X4 X1, X2, X4 X1, X4	X2-X3 X2-X3 X2-X4, X1-X3

SCD 29

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		630 504 615 492 600 480 585 468 570 456	H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3 H1, H2, H3	1-2 2-3 3-4 4-5 5-6
		Secondary Volts	Connect lines to	Inter-connect
		240	X1, X2, X3	

SCD 30

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		440 416 400 380 220 208 200 190	H1, H4 H1, H4 H1, H4 H1, H4 H1, H4 H1, H4 H1, H4 H1, H4	1-H2, 2-H3, H2-H3 3-H2, 4-H3, H2-H3 5-H2, 6-H3, H2-H3 7-H2, 8-H3, H2-H3 1-H2, 2-H3, H1-H3, H2-H4 3-H2, 4-H3, H1-H3, H2-H4 5-H2, 6-H3, H1-H3, H2-H4 7-H2, 8-H3, H1-H3, H2-H4
		Secondary Volts	Connect lines to	Inter-connect
		240 120 120/240	X1, X4 X1, X2 X1, X2, X4	X2-X3 X2-X4, X1-X3 X2-X3

SCD 31

SCHEMATIC		CONNECTIONS		
		Primary Volts	Connect lines to	Inter-connect
		218 291 437 504 630 213 284 426 492 615 208 277 416 480 600 203 270 406 468 585 198 263 395 456 570	H1, H6 H1, H5 H2, H5 H2, H4 H3, H4	- - - - -
		Secondary Volts	Connect lines to	Inter-connect
		240 120/240 120	X1, X4 X1, X2, X4 X1, X2	X2-X3 X2-X3 X2-X4, X1-X3

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SCD 32

SCHEMATIC		CONNECTIONS								
		Primary Volts								
		208	277	416	480	600	Connect lines to	H1, H4	Inter-connect	-
		198	263	395	456	570	Connect lines to	H1, H3	Inter-connect	-
		188	249	374	432	540	Connect lines to	H2, H3	Inter-connect	-
		Secondary Volts			Connect lines to	Inter-connect				
		240				X1, X4	X2-X3			
		120/240				X1, X2, X4	X2-X3			
		120				X1, X2	X2-X4, X1-X3			

SCD 33

SCHEMATIC		CONNECTIONS							
		Primary Volts							
		380			Connect lines to	H1, H3	Inter-connect	-	
		347			Connect lines to	H1, H2	Inter-connect	-	
		Secondary Volts			Connect lines to	Inter-connect			
		240			X1, X4	X2-X3			
		120/240			X1, X2, X4	X2-X3			
		120			X1, X2	X2-X4, X1-X3			

SCD 34

SCHEMATIC		CONNECTIONS							
		Primary Volts							
		480			Connect lines to	H1, H4	Inter-connect	1-H2, 2-H3, H2-H3	
		456			Connect lines to	H1, H4	Inter-connect	2-H3, 3-H2, H2-H3	
		432			Connect lines to	H1, H4	Inter-connect	3-H2, 4-H3, H2-H3	
		240			Connect lines to	H1, H4	Inter-connect	1-H2, 2-H3, H1-H3, H2-H4	
		198*			Connect lines to	H1, H4	Inter-connect	3-H2, 4-H3, H1-H3, H2-H4	
		Secondary Volts			Connect lines to	Inter-connect			
		240			X1, X4	X2-X3			
		120/240			X1, X2, X4	X2-X3			
		120			X1, X2	X2-X4, X1-X3			

SCD 35

SCHEMATIC		CONNECTIONS							
		Primary Volts							
		218*	504	630	Connect lines to	H1, H2, H3	Inter-connect	1-H1, 1-H2, 1-H3	
		213*	492	615	Connect lines to	H1, H2, H3	Inter-connect	2-H1, 2-H2, 2-H3	
		208*	480	600	Connect lines to	H1, H2, H3	Inter-connect	3-H1, 3-H2, 3-H3	
		203*	468	585	Connect lines to	H1, H2, H3	Inter-connect	4-H1, 4-H2, 4-H3	
		198*	456	570	Connect lines to	H1, H2, H3	Inter-connect	5-H1, 5-H2, 5-H3	
		Secondary Volts			Connect lines to	Inter-connect			
		208	480	600	X1, X2, X3	-			
		120	277	347	X1, X0 X2, X0 X3, X0	-			

* Standard 2-2.5% FCAN and 2-2.5% FCBN primary taps for 208V H2EM units only available up to 75 kVA. Please consult factory for standard taps on 208V primary units over 75 kVA.