

GENERAL INFORMATION

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAMS

SCD 1

| SCHEMATIC | | | | CONNECTIONS | | | | | |
|-----------|--|--|--|------------------------|-------|-------------------------|----------------------|--------------|--------------|
| | | | | Primary Volts | | Connect lines to | Inter-connect | | |
| | | | | 240 | 480 | 416 | H1, H4 | H2-H3 | |
| | | | | 120 | 240 | 208 | H1, H4 | H1-H3, H2-H4 | |
| | | | | Secondary Volts | | Connect lines to | Inter-connect | | |
| | | | | 24 | 32 | 48 | 240 | X1, X4 | X2-X3 |
| | | | | 12/24 | 16/32 | 24/48 | 120/240 | X1, X2, X4 | X2-X3 |
| | | | | 12 | 16 | 24 | 120 | X1, X2 | X2-X4, X1-X3 |

SCD 2

| SCHEMATIC | | | | CONNECTIONS | | | | | | | | |
|-----------|--|--|--|------------------------|-----|-------------------------|----------------------|----------------------|-----|--------|------------|-----|
| | | | | Primary Volts | | Connect lines to | Inter-connect | | | | | |
| | | | | 504 | 440 | 437 | 218 | 291 | 277 | 440 | H1, H2 | 1-2 |
| | | | | 492 | | 426 | 213 | 284 | | H1, H2 | 2-3 | |
| | | | | 480 | 416 | 416 | 208 | 277 | 240 | 416 | H1, H2 | 3-4 |
| | | | | 468 | | 406 | 203 | 270 | | H1, H2 | 4-5 | |
| | | | | 456 | 400 | 395 | 198 | 263 | 208 | 400 | H1, H2 | 5-6 |
| | | | | 444 | | 385 | 192 | 256 | | H1, H2 | 6-7 | |
| | | | | 432 | 380 | 374 | 187 | 249 | 120 | 380 | H1, H2 | 7-8 |
| | | | | | 220 | | | | | H1, H2 | H1-2, H2-1 | |
| | | | | 240 | 208 | 208 | | | | H1, H2 | H1-4, H2-3 | |
| | | | | 228 | 200 | 198 | | | | H1, H2 | H1-6, H2-5 | |
| | | | | 216 | 190 | 187 | | | | H1, H2 | H1-8, H2-7 | |
| | | | | 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 3

| SCHEMATIC | | CONNECTIONS | | | |
|-----------|--|------------------------|--|----------------------|------------------|
| | | Primary Volts | | Inter-connect | |
| | | | | | |
| | | 630 | | H1, H2, H3 | 1-H1, 1-H2, 1-H3 |
| | | 615 | | H1, H2, H3 | 2-H1, 2-H2, 2-H3 |
| | | 600 | | H1, H2, H3 | 3-H1, 3-H2, 3-H3 |
| | | 585 | | H1, H2, H3 | 4-H1, 4-H2, 4-H3 |
| | | 570 | | H1, H2, H3 | 5-H1, 5-H2, 5-H3 |
| | | 480 | | H1, H2, H3 | 6-H1, 6-H2, 6-H3 |
| | | 456 | | H1, H2, H3 | 7-H1, 7-H2, 7-H3 |
| | | 432 | | H1, H2, H3 | 8-H1, 8-H2, 8-H3 |
| | | Secondary Volts | | Inter-connect | |
| | | 208 | | X1, X2, X3 | |
| | | 120 | | 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 2400 3300 4160 4800 6600 7200 | H1, H2 | --- |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 240 120/240 120 | 24 12/24 12 | X1, X4 X1, X2, X4 X1, X2 |

SCD 5

| SCHEMATIC | CONNECTIONS | | |
|-----------|---|--------------------------------|--------------------------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 120 208 240 277 380 416 480 600 114 198 228 263 361 395 456 570 108 188 216 249 347 374 432 540 | H1, H2 H1, H2 H1, H2 | 1-2 2-3 3-4 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 240 120/240 120 | X1, X4 X1, X2, X4 X1, X2 | X2-X3 X2-X3 X2-X4, X1-X3 |

SCD 6

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

SCD 7

| SCHEMATIC | CONNECTIONS | | |
|-----------|---|--|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 208 218 242 252 437 480 483 504 604 630 198 208 230 240 416 456 460 480 575 600 187 198 219 228 395 432 437 456 546 570 | H1, H2, H3 H1, H2, H3 H1, H2, H3 | 1 2 3 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 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 8

| SCHEMATIC | | CONNECTIONS | | | | | | | | | |
|-----------|-----|-----------------|-----|------------------|---------------|---------------|-----|------------|--------|------------|------|
| | | Primary Volts | | Connect lines to | Inter-connect | | | | | | |
| | | 218 | 242 | 252 | 437 | 483 | 504 | 604 | 630 | 2520 | 4368 |
| 208 | 230 | 240 | 416 | 460 | 480 | 575 | 600 | 2400 | 4160 | H1, H2, H3 | 2-3 |
| 198 | 219 | 228 | 395 | 437 | 456 | 546 | 570 | 2280 | 3952 | H1, H2, H3 | 3-4 |
| | | Secondary Volts | | Connect lines to | | Inter-connect | | | | | |
| 208 | 230 | 240 | 380 | 416 | 460 | 480 | 600 | X1, X2, X3 | | | |
| 120 | 133 | 139 | 220 | 240 | 265 | 277 | 347 | X1, X0 | X2, X0 | X3, X0 | |

SCD 9

| SCHEMATIC | | CONNECTIONS | | | | | | | |
|-----------|-----|-----------------|-----|------------------|---------------|---------------|-----|------------|-----|
| | | Primary Volts | | Connect lines to | Inter-connect | | | | |
| | | 218 | 242 | 252 | 437 | 483 | 504 | 604 | 630 |
| 213 | 236 | 246 | 426 | 472 | 492 | 589 | 615 | H1, H2, H3 | 2 |
| 208 | 230 | 240 | 416 | 460 | 480 | 575 | 600 | H1, H2, H3 | 3 |
| 203 | 224 | 234 | 406 | 449 | 468 | 561 | 585 | H1, H2, H3 | 4 |
| 198 | 219 | 228 | 395 | 437 | 456 | 546 | 570 | H1, H2, H3 | 5 |
| | | Secondary Volts | | Connect lines to | | Inter-connect | | | |
| 208 | 380 | 416 | 480 | 600 | X1, X2, X3 | | | | |
| 120 | 220 | 240 | 277 | 347 | X1, X0 | - | - | | |
| | | | | | X2, X0 | - | - | | |
| | | | | | X3, X0 | - | - | | |

SCD 10

| SCHEMATIC | | CONNECTIONS | | | | | | | | | |
|-----------|-----|-----------------|-----|------------------|---------------|---------------|-----|------|------|------------|------|
| | | Primary Volts | | Connect lines to | Inter-connect | | | | | | |
| | | 218 | 242 | 252 | 437 | 483 | 504 | 604 | 630 | 2520 | 4368 |
| 213 | 236 | 246 | 426 | 472 | 492 | 589 | 615 | 2460 | 4264 | H1, H2, H3 | 2-3 |
| 208 | 230 | 240 | 416 | 460 | 480 | 575 | 600 | 2400 | 4160 | H1, H2, H3 | 3-4 |
| 203 | 224 | 234 | 406 | 449 | 468 | 561 | 585 | 2340 | 4056 | H1, H2, H3 | 4-5 |
| 198 | 219 | 228 | 395 | 437 | 456 | 546 | 570 | 2280 | 3952 | H1, H2, H3 | 5-6 |
| | | Secondary Volts | | Connect lines to | | Inter-connect | | | | | |
| 208 | 380 | 416 | 480 | 600 | X1, X2, X3 | | | | | | |
| 120 | 220 | 240 | 277 | 347 | X1, X0 | - | - | | | | |
| | | | | | X2, X0 | - | - | | | | |
| | | | | | X3, X0 | - | - | | | | |

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SCD 11

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 630 | H1, H2, H3 | 1-H1, 1-H2, 1-H3 |
| | 615 | H1, H2, H3 | 2-H1, 2-H2, 2-H3 |
| | 600 | H1, H2, H3 | 3-H1, 3-H2, 3-H3 |
| | 585 | H1, H2, H3 | 4-H1, 4-H2, 4-H3 |
| | 570 | H1, H2, H3 | 5-H1, 5-H2, 5-H3 |
| | 504 | H1, H2, H3 | 6-H1, 6-H2, 6-H3 |
| | 492 | H1, H2, H3 | 7-H1, 7-H2, 7-H3 |
| | 480 | H1, H2, H3 | 8-H1, 8-H2, 8-H3 |
| | 468 | H1, H2, H3 | 9-H1, 9-H2, 9-H3 |
| | 456 | H1, H2, H3 | 10-H1, 10-H2, 10-H3 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 208 480 | X1, X2, X3 | - |
| | 120 277 | X1, X0 | - |
| | | X2, X0 | - |
| | | X3, X0 | - |

SCD 12

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 480 600 | H1, H2, H3 | 1-2 |
| | 456 570 | H1, H2, H3 | 2-3 |
| | 432 540 | H1, H2, H3 | 3-4 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 240 | X1, X2, X3 | - |

SCD 13

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 480 600 | H1, H2, H3 | 1-2 |
| | 456 570 | H1, H2, H3 | 2-3 |
| | 432 540 | H1, H2, H3 | 3-4 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 240 | X1, X2, X3 | - |
| | 120 | X1, X6 | - |
| | | X3, X6 | - |

SCD 14

| 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 |

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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 |
| | 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 19

| SCHEMATIC | | CONNECTIONS | | |
|-------------|------------------------|-------------------------|----------------------|--|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 218 504 630 | H1, H2, H3 | 1-H1, 1-H2, 1-H3 | |
| | 213 492 615 | H1, H2, H3 | 2-H1, 2-H2, 2-H3 | |
| 208 480 600 | H1, H2, H3 | 3-H1, 3-H2, 3-H3 | | |
| 203 468 585 | H1, H2, H3 | 4-H1, 4-H2, 4-H3 | | |
| 198 456 570 | H1, H2, H3 | 5-H1, 5-H2, 5-H3 | | |
| 193 444 556 | H1, H2, H3 | 6-H1, 6-H2, 6-H3 | | |
| 188 432 542 | H1, H2, H3 | 7-H1, 7-H2, 7-H3 | | |
| | Secondary Volts | Connect lines to | Inter-connect | |
| | 208 480 | X1, X2, X3 | - | |
| | 120 277 | X1,X0 X2,X0 X3,X0 | - | |

SCD 20

| SCHEMATIC | | CONNECTIONS | | |
|-------------|------------------------|-------------------------|----------------------|--|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 218 504 630 | H1, H2, H3 | 1-2 | |
| | 213 492 600 | H1, H2, H3 | 2-3 | |
| 208 480 570 | H1, H2, H3 | 3-4 | | |
| 203 468 | H1, H2, H3 | 4-5 | | |
| 198 456 504 | H1, H2, H3 | 5-6 | | |
| 193 444 480 | H1, H2, H3 | 6-7 | | |
| 188 432 456 | H1, H2, H3 | 7-8 | | |
| | Secondary Volts | Connect lines to | Inter-connect | |
| | 208 | X1, X2, X3 | - | |
| | 120 | X1,X0 X2,X0 X3,X0 | - | |

SCD 21

| SCHEMATIC | | CONNECTIONS | | |
|-----------|------------------------|-------------------------|----------------------|--|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 504 | H1, H2, H3 | 1-H1, 1-H2, 1-H3 | |
| | 492 | H1, H2, H3 | 2-H1, 2-H2, 2-H3 | |
| 480 | H1, H2, H3 | 3-H1, 3-H2, 3-H3 | | |
| 468 | H1, H2, H3 | 4-H1, 4-H2, 4-H3 | | |
| 456 | H1, H2, H3 | 5-H1, 5-H2, 5-H3 | | |
| 444 | H1, H2, H3 | 6-H1, 6-H2, 6-H3 | | |
| 432 | H1, H2, H3 | 7-H1, 7-H2, 7-H3 | | |
| | Secondary Volts | Connect lines to | Inter-connect | |
| | 240 | X1, X2, X3 | - | |
| | 120 | X1, X6 | - | |
| | | X3, X6 | - | |

SCD 22

| SCHEMATIC | | CONNECTIONS | | |
|-----------|------------------------|-------------------------|----------------------|--|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 504 | H1, H2, H3 | 1-2 | |
| | 492 | H1, H2, H3 | 2-3 | |
| 480 | H1, H2, H3 | 3-4 | | |
| 468 | H1, H2, H3 | 4-5 | | |
| 456 | H1, H2, H3 | 5-6 | | |
| 444 | H1, H2, H3 | 6-7 | | |
| 432 | H1, H2, H3 | 7-8 | | |
| | Secondary Volts | Connect lines to | Inter-connect | |
| | 240 | X1, X2, X3 | - | |
| | 120 | X1, X6 | - | |
| | | X3, X6 | - | |

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SCD 23

| SCHEMATIC | | CONNECTIONS | | |
|-----------------|----------------------|------------------------|-------------------------|----------------------|
| | | Primary Volts | Connect lines to | Inter-connect |
| | | 208 240 | X1, X2, X3 | 1-2 |
| | | 198 228 | X1, X2, X3 | 2-3 |
| 188 216 | X1, X2, X3 | 3-4 | | |
| | | Secondary Volts | Connect lines to | |
| 230 260 460 480 | H1, H2, H3 | | | |
| 133 139 265 277 | H1, H0 H2, H0 H3, H0 | | | |

SCD 24

| 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 25

| SCHEMATIC | | CONNECTIONS | | |
|---------------------|----------------------|------------------------|-------------------------|----------------------|
| | | Primary Volts | Connect lines to | Inter-connect |
| | | 208 240 416 480 600 | H1, H2, H3 | 1-2 |
| | | 198 228 395 456 570 | H1, H2, H3 | 2-3 |
| 187 216 374 432 540 | H1, H2, H3 | 3-4 | | |
| | | Secondary Volts | Connect lines to | Inter-connect |
| 208 380 416 480 600 | X1, X2, X3 | | | |
| 120 220 240 277 347 | X1, X0 X2, X0 X3, X0 | | | |

SCD 26

| SCHEMATIC | | CONNECTIONS | | |
|-------------|----------------------|------------------------|-------------------------|----------------------|
| | | Primary Volts | Connect lines to | Inter-connect |
| | | 218 252 | X1, X2, X3 | 1 |
| | | 213 246 | X1, X2, X3 | 2 |
| 208 240 | X1, X2, X3 | 3 | | |
| 203 234 | X1, X2, X3 | 4 | | |
| 198 228 | X1, X2, X3 | 5 | | |
| | | Secondary Volts | Connect lines to | Inter-connect |
| 460 480 600 | H1, H2, H3 | | | |
| 265 277 347 | H1, H0 H2, H0 H3, H0 | | | |

SCD 27

| SCHEMATIC | | CONNECTIONS | | |
|-----------|------------|------------------------|-------------------------|----------------------|
| | | Primary Volts | Connect lines to | Inter-connect |
| | | 630 | H1, H2, H3 | 1-2 |
| | | 600 | H1, H2, H3 | 2-3 |
| 570 | H1, H2, H3 | 3-4 | | |
| | | Secondary Volts | Connect lines to | Inter-connect |
| 240 | X1, X2, X3 | | | |

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SCD 28

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 480 (60Hz) | H1, H10 | H5-H6 |
| | 440 | H1, H10 | H5-H6 |
| | 416 | H1, H9 | H4-H6 |
| | 400 | H1, H8 | H3-H6 |
| | 380 | H1, H7 | H2-H6 |
| | 240 (60 Hz) | H1, H10 | H1-H6, H5-H10 |
| | 220 | H1, H10 | H1-H6, H5-H10 |
| | 208 | H1, H9 | H1-H6, H4-H9 |
| | 200 | H1, H8 | H1-H6, H3-H8 |
| | 190 | H1, H7 | H1-H6, H2-H7 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 240 | X1, X4 | X2-X3 |
| | 120/240 | X1, X2, X4 | X2-X3 |
| | 120 | X1, X4 | X2-X4, X1-X3 |

SCD 29

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 630 504 | H1, H2, H3 | 1-2 |
| | 615 492 | H1, H2, H3 | 2-3 |
| | 600 480 | H1, H2, H3 | 3-4 |
| | 585 468 | H1, H2, H3 | 4-5 |
| | 570 456 | H1, H2, H3 | 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 | H1, H4 | 1-H2, 2-H3, H2-H3 |
| | 416 | H1, H4 | 3-H2, 4-H3, H2-H3 |
| | 400 | H1, H4 | 5-H2, 6-H3, H2-H3 |
| | 380 | H1, H4 | 7-H2, 8-H3, H2-H3 |
| | 220 | H1, H4 | 1-H2, 2-H3, H1-H3, H2-H4 |
| | 208 | H1, H4 | 3-H2, 4-H3, H1-H3, H2-H4 |
| | 200 | H1, H4 | 5-H2, 6-H3, H1-H3, H2-H4 |
| | 190 | 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 | |

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SCD 31

| SCHEMATIC | | CONNECTIONS | | | | |
|-----------------|-----|------------------|-----|------------------|---------------|-----|
| | | Primary Volts | | Connect lines to | Inter-connect | |
| | | 218 | 291 | 437 | 504 | 630 |
| 213 | 284 | 426 | 492 | 615 | H1, H5 | - |
| 208 | 277 | 416 | 480 | 600 | H2, H5 | - |
| 203 | 270 | 406 | 468 | 585 | H2, H4 | - |
| 198 | 263 | 395 | 456 | 570 | H3, 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 32

| SCHEMATIC | | CONNECTIONS | | | | |
|-----------------|-----|------------------|-----|------------------|---------------|-----|
| | | Primary Volts | | Connect lines to | Inter-connect | |
| | | 208 | 277 | 416 | 480 | 600 |
| 198 | 263 | 395 | 456 | 570 | H1, H3 | - |
| 188 | 249 | 374 | 432 | 540 | H2, H3 | - |
| 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 | | Inter-connect |
| | | 380 | H1, H3 | |
| 347 | 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 34

| SCHEMATIC | | CONNECTIONS | | |
|-----------------|--------|------------------|--------------------------|---------------|
| | | Primary Volts | | Inter-connect |
| | | 480 | H1, H4 | |
| 456 | H1, H4 | | 2-H3, 3-H2, H2-H3 | |
| 432 | H1, H4 | | 3-H2, 4-H3, H2-H3 | |
| 240 | H1, H4 | | 1-H2, 2-H3, H1-H3, H2-H4 | |
| 216 | H1, H4 | | 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 |

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SCD 35

| SCHEMATIC | CONNECTIONS | | | |
|---|-----------------------|------------------|---------------|------------------|
| | Primary Volts | Connect lines to | Inter-connect | |
| <p>CENTURION Angular Displacement 0° or -30°</p> | 218* | 504 630 | H1, H2, H3 | 1-H1, 1-H2, 1-H3 |
| | 213* | 492 615 | H1, H2, H3 | 2-H1, 2-H2, 2-H3 |
| | 208* | 480 600 | H1, H2, H3 | 3-H1, 3-H2, 3-H3 |
| | 203* | 468 585 | H1, H2, H3 | 4-H1, 4-H2, 4-H3 |
| | 198* | 456 570 | H1, H2, H3 | 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.

SCD 36

| SCHEMATIC | CONNECTIONS | | | |
|---|-----------------|------------------|---------------|-----|
| | Primary Volts | Connect lines to | Inter-connect | |
| <p>CENTURION 2 Angular Displacement 0°, -30° or -15°, -45°</p> | 218* | 504 630 | H1, H2, H3 | 1-2 |
| | 213* | 492 615 | H1, H2, H3 | 2-3 |
| | 208* | 480 600 | H1, H2, H3 | 3-4 |
| | 203* | 468 585 | H1, H2, H3 | 4-5 |
| | 198* | 456 570 | H1, H2, H3 | 5-6 |
| | Secondary Volts | Connect lines to | Inter-connect | |
| 208 480 600 | X1, X2, X3 | - | | |
| 120 277 347 | Y1, Y2, Y3 | - | | |
| | X1, X0/Y0 | - | | |
| | X2, X0/Y0 | - | | |
| | X3, X0/Y0 | - | | |
| | Y1, X0/Y0 | - | | |
| | Y2, X0/Y0 | - | | |
| | Y3, X0/Y0 | - | | |

* 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.

SCD 37

| SCHEMATIC | CONNECTIONS | | |
|-----------------|------------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 480 | H1, H2, H3 | 1 |
| | 456 | H1, H2, H3 | 2 |
| | 432 | H1, H2, H3 | 3 |
| Secondary Volts | Connect lines to | Inter-connect | |
| 240 | X1, X2, X3 | - | |

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SCD 38

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 504 | H1, H2, H3 | 1 |
| | 492 | H1, H2, H3 | 2 |
| | 480 | H1, H2, H3 | 3 |
| | 468 | H1, H2, H3 | 4 |
| | 456 | H1, H2, H3 | 5 |
| | 444 | H1, H2, H3 | 6 |
| | 432 | H1, H2, H3 | 7 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 240 | X1, X2, X3 | - |

SCD 39

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

SCD 40

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|----------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 208 240 | X1, X2, X3 | 1 |
| | 198 228 | X1, X2, X3 | 2 |
| | 188 216 | X1, X2, X3 | 3 |
| | Secondary Volts | Connect lines to | Inter-connect |
| | 230 260 460 480 | H1, H2, H3 | |
| | 133 139 265 277 | H1, H0 H2, H0 H3, H0 | |

SCD 41

| SCHEMATIC | CONNECTIONS | | |
|-----------|-----------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 277 | H1, H5 | - |
| | 240 | H1, H4 | - |
| | 208 | H1, H3 | - |
| | 120 | 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 |

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SCD 42

| SCHEMATIC | CONNECTIONS | | |
|-----------|------------------------|-------------------------|----------------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 480 | H1, H3 | - |
| | 277 | H1, H2 | - |
| | Secondary Volts | Connect lines to | Inter-connect |
| 277 | X1, X3 | - | |
| 208 | X1, X2 | - | |

SCD 43

| SCHEMATIC | CONNECTIONS | | |
|-----------|------------------------|-------------------------|----------------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 480 | H1, H2 | 1-2 |
| | 277 | H1, H2 | 3-4 |
| | Secondary Volts | Connect lines to | Inter-connect |
| 277 | X1, X2 | X5-X6 | |
| 208 | X1, X2 | X3-X4 | |

SCD 44

| SCHEMATIC | CONNECTIONS | | |
|-----------|------------------------|-------------------------|----------------------|
| | Primary Volts | Connect lines to | Inter-connect |
| | 380 | H1, H2 | 1-2 |
| | 347 | H1, H2 | 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 45

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

GENERAL INFORMATION

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAMS

SCD 46

| SCHEMATIC | CONNECTIONS | | | |
|-----------|---------------|------------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 480 (60Hz) | H1, H2 | 1-2 | |
| | 440 | H1, H2 | 1-2 | |
| | 416 | H1, H2 | 3-4 | |
| | 400 | H1, H2 | 5-6 | |
| | 380 | H1, H2 | 7-8 | |
| | 240 (60Hz) | H1, H2 | H1-2, H2-1 | |
| | 220 | H1, H2 | H1-2, H2-1 | |
| | 208 | H1, H2 | H1-4, H2-3 | |
| | 200 | H1, H2 | H1-6, H2-5 | |
| | 190 | H1, H2 | H1-8, H2-7 | |
| | | 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 47

| SCHEMATIC | CONNECTIONS | | | |
|-----------|---------------|-----------------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 630 | H1, H2, H3 | 1-H1, 1-H2, 1-H3 | |
| | 615 | H1, H2, H3 | 2-H1, 2-H2, 2-H3 | |
| | 600 | H1, H2, H3 | 3-H1, 3-H2, 3-H3 | |
| | 585 | H1, H2, H3 | 4-H1, 4-H2, 4-H3 | |
| | 570 | H1, H2, H3 | 5-H1, 5-H2, 5-H3 | |
| | 480 | H1, H2, H3 | 6-H1, 6-H2, 6-H3 | |
| | 456 | H1, H2, H3 | 7-H1, 7-H2, 7-H3 | |
| | 432 | H1, H2, H3 | 8-H1, 8-H2, 8-H3 | |
| | | Secondary Volts | Connect lines to | Inter-connect |
| | | 480 | X1, X2, X3 | - |
| | 277 | X1,X0 X2,X0 X3,X0 | - | |

SCD 48

| SCHEMATIC | CONNECTIONS | | | |
|-----------|---------------|------------------|------------------|---------------|
| | Primary Volts | Connect lines to | Inter-connect | |
| | 347 | H1, H2 | H2-3 & 4 | |
| | 380 | H1, H2 | H2-1 & 2 | |
| | | Secondary Volts | Connect lines to | Inter-connect |
| | | 240 | X1, X4 | X2-X3 |
| | | 120 | X1, X2 | X1-X3, X2-X3 |
| | | 120/240 | X1, X2, X4 | X2-X3 |

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