

DIMENSIONAL DRAWINGS

| REVISIONS |             |          |          |
|-----------|-------------|----------|----------|
| REV.      | DESCRIPTION | DATE     | APPROVED |
| W         | S-8796-1    | 12/19/08 | SS KL    |

STANDARD DRAWINGS

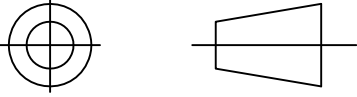
| Z(B)TS(D/CT)<br>TRANSFER SWITCH<br>AMPERAGE | LEGEND &<br>OPERATION<br>ACCESSORIES | POWER<br>CIRCUIT<br>& LAYOUT<br>(3 & 4 POLE) | POWER<br>CIRCUIT<br>& LAYOUT<br>(2 POLE) | MX250<br>DOOR<br>VIEW | POWER CIRCUIT & LAYOUT<br>(INVERTED STYLE) |          |
|---|--------------------------------------|--|--|-----------------------|--|----------|
|   |                                      |  |  |                       | 3, 4 POLE                                  | 2 POLE   |
| 40-200                                      | 73A-0900                             | 71A-1000                                     | 71A-1001                                 | 71A-0500              | -  | -        |
| 225-400                                     | 73A-0900                             | 71A-2000                                     | 71A-2001                                 | 71A-0500              | -  | -        |
| 600-1200                                    | 71A-0900                             | 71A-3000                                     | 71A-3001                                 | 71A-0500              | 71A-3002                                   | 71A-3003 |
| 1600-3000                                   | 71A-0900                             | 71A-4000                                     | -  | 71A-0500              | 71A-4001                                   | -        |
| 4000  | 71A-0900                             | 71A-5000                                     | -  | 71A-0500              | 71A-5001                                   | -        |
| (D) 40-400                                  | 71A-0900D                            | 72A-1000                                     | 72A-1001                                 | 71A-0500              | -  | -        |
| (D) 600                                     | 71A-0900D                            | 72A-2000                                     | 72A-2001                                 | 71A-0500              | 72A-2002                                   | 72A-2003 |
| (D) 800-3000                                | 71A-0900D                            | 72A-2000                                     | -  | 71A-0500              | 72A-2002                                   | -        |
| (D) 4000                                    | 71A-0900D                            | 72A-3000                                     | -  | 71A-0500              | 72A-3001                                   | -        |
| (B) 100-400                                 | 72A-0901                             | 73A-1004                                     | 73A-1005                                 | 71A-0501              | -  | -        |
| (B) 600-1200                                | 72A-0900                             | 73A-2000                                     | 73A-2001                                 | 71A-0500              | -  | -        |
| (B) 1600-3000                               | 72A-0900                             | 73A-3000                                     | -  | 71A-0500              | -  | -        |
| (B)-HOR 1600-3000                           | 90A-1000                             | 90A-1000                                     | 90A-1000                                 | 90A-1000              | -  | -        |
| (B) 4000                                    | 72A-0900                             | 73A-4000                                     | -  | 71A-0500              | -  | -        |
| (BD) 100-400                                | 72A-0901D                            | 74A-1004                                     | 74A-1005                                 | 71A-0501              | -  | -        |
| (BD) 600                                    | 72A-0900D                            | 74A-2000                                     | 74A-2001                                 | 71A-0500              | -  | -        |
| (BD) 800-1200                               | 72A-0900D                            | 74A-2000                                     | -  | 71A-0500              | -  | -        |
| (BD) 1600-3000                              | 72A-0900D                            | 74A-3000                                     | -  | 71A-0500              | -  | -        |
| (BD)-HOR 1600-3000                          | 90A-2000                             | 90A-2000                                     | 90A-2000                                 | 90A-2000              | -  | -        |
| (BD) 4000                                   | 72A-0900D                            | 74A-4000                                     | -  | 71A-0500              | -  | -        |
| (CT) 100-600                                | 75A-2000                             | 72A-2001                                     | -  | -                     | 75A-2001                                   | -        |
| (CT) 800-1200                               | 75A-2000                             | -  | -  | -                     | 75A-2001                                   | -        |
| (CT) 1600-3000                              | 75A-3000                             | -  | -  | -                     | 75A-3001                                   | -        |
| (CT) 4000                                   | 75A-4000                             | -  | -  | -                     | 75A-4001                                   | -        |
| (ZBTSCT) 100-400                            | 76A-2000                             | 74A-2001                                     | -  | -                     | -  | -        |
| (ZBTSCT) 600-1200                           | 76A-2000                             | -  | -  | -                     | -  | -        |
| (ZBTSCT) 1600-3000                          | 76A-3000                             | -  | -  | -                     | -  | -        |
| (ZBTSCT)-HOR 1600-3000                      | 90A-3000                             | 90A-3000                                     | 90A-3000                                 | 90A-3000              | -  | -        |
| (ZBTSCT) 4000                               | 76A-4000                             | -  | -  | -                     | -  | -        |

| MODEL         | AMPERE    | OPEN     | NEMA TYPE  |            |          |
|---------------|-----------|----------|------------|------------|----------|
|               |           |          | 1          | 3R, 4, 12  | 4X       |
| ZTS           | 40-150    | 50C-2032 | 50C-1034   | 50C-1034   | 50C-1034 |
| ZTS           | 225-400   | 50C-2033 | 50C-1034   | 50C-1034   | 50C-1034 |
| ZTS           | 600-800   | 50C-2034 | 50C-1034   | 50C-1034   | 50C-1034 |
| ZTS           | 1000-1200 | 50C-2003 | 50C-1000   | 50C-1005   | 50C-1009 |
| ZTS           | 1600-2000 | 50C-2004 | 50C-1001   | 50C-1006   | 50C-1010 |
| ZTS           | 3000      | 50C-2005 | 50C-1001   | 50C-1006   | -        |
| ZTS           | 4000      | 50C-2030 | 50C-1018   | 50C-1020   | -        |
| ZTSD          | 40-400    | 58C-1011 | 50C-1034   | 50C-1034   | 50C-1034 |
| ZTSD          | 600-800   | 50C-2035 | 50C-1034   | 50C-1034   | 50C-1034 |
| ZTSD          | 1000-1200 | 50C-2009 | 50C-1000   | 50C-1005   | 50C-1009 |
| ZTSD          | 1600-2000 | 50C-2010 | 50C-1001   | 50C-1006   | 50C-1010 |
| ZTSD          | 3000      | 50C-2011 | 50C-1001   | 50C-1006   | -        |
| ZTSD          | 4000      | 50C-2030 | 50C-1018   | 50C-1020   | -        |
| ZTSCT         | 100-800   | 50C-2008 | 50C-1034   | 50C-1034   | 50C-1034 |
| ZTSCT         | 1000-1200 | 50C-2009 | 50C-1000   | 50C-1005   | 50C-1009 |
| ZTSCT         | 1600-2000 | 50C-2010 | 50C-1001   | 50C-1006   | 50C-1010 |
| ZTSCT         | 3000      | 50C-2011 | 50C-1001   | 50C-1006   | -        |
| ZTSCT         | 4000      | 50C-2030 | 50C-1018   | 50C-1020   | -        |
| ZBTS          | 100-400   | 50C-2036 | 50C-1026   | 50C-1027   | 50C-1028 |
| ZBTS          | 600       | 50C-2021 | 50C-1003   | 50C-1008   | 50C-1012 |
| w/ADAPTER BAY |           |          | 50C-1003AB | 50C-1008AB | -        |
| ZBTS          | 800-1200  | 50C-2022 | 50C-1003   | 50C-1008   | 50C-1012 |
| w/ADAPTER BAY |           |          | 50C-1003AB | 50C-1008AB | -        |
| ZBTS          | 1600-2000 | 50C-2023 | 50C-1004   | 50C-1017   | 50C-1017 |
| ZBTS          | 3000      | 50C-2024 | 50C-1004   | 50C-1017   | 50C-1017 |
| ZBTS-HOR      | 1600-2000 | 50C-2040 | 50C-2039   | 50C-2041   | -        |
| ZBTS-HOR      | 3000      | 50C-2042 | 50C-2039   | 50C-2041   | -        |
| ZBTS          | 4000      | 50C-2031 | 50C-1019   | 50C-1021   | 50C-1021 |
| ZBTSD         | 100-400   | 50C-2036 | 50C-1026   | 50C-1027   | 50C-1028 |
| ZBTSD         | 600       | 50C-2026 | 50C-1003   | 50C-1008   | 50C-1012 |
| w/ADAPTER BAY |           |          | 50C-1003AB | 50C-1008AB | -        |
| ZBTSD         | 800-1200  | 50C-2027 | 50C-1003   | 50C-1008   | 50C-1012 |
| w/ADAPTER BAY |           |          | 50C-1003AB | 50C-1008AB | -        |
| ZBTSD         | 1600-2000 | 50C-2028 | 50C-1004   | 50C-1017   | 50C-1017 |
| ZBTSD         | 3000      | 50C-2029 | 50C-1004   | 50C-1017   | 50C-1017 |
| ZBTSD-HOR     | 1600-2000 | 50C-2040 | 50C-2039   | 50C-2041   | -        |
| ZBTSD-HOR     | 3000      | 50C-2042 | 50C-2039   | 50C-2041   | -        |
| ZBTSD         | 4000      | 50C-2031 | 50C-1019   | 50C-1021   | 50C-1021 |
| ZBTSCT        | 100-600   | 50C-2026 | 50C-1003   | 50C-1008   | 50C-1012 |
| w/ADAPTER BAY |           |          | 50C-1003AB | 50C-1008AB | -        |
| ZBTSCT        | 800-1200  | 50C-2027 | 50C-1003   | 50C-1008   | 50C-1012 |
| w/ADAPTER BAY |           |          | 50C-1003AB | 50C-1008AB | -        |
| ZBTSCT        | 1600-2000 | 50C-2028 | 50C-1004   | 50C-1017   | 50C-1017 |
| ZBTSCT        | 3000      | 50C-2029 | 50C-1004   | 50C-1017   | 50C-1017 |
| ZBTSCT-HOR    | 1600-2000 | 50C-2040 | 50C-2039   | 50C-2041   | -        |
| ZBTSCT-HOR    | 3000      | 50C-2042 | 50C-2039   | 50C-2041   | -        |
| ZBTSCT        | 4000      | 50C-2031 | 50C-1019   | 50C-1021   | 50C-1021 |

NOTE: FOR USE WITH R15, R26, LN, L1-L4(F)(PB)  
OPTIONS AND ALL SPECIALS REQUIRING J10 PLUG IN  
CPS BOX.



THIRD ANGLE PROJECTION



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| SIGNATURES                          | DATE    |
|-------------------------------------|---------|
| MODEL GG                            | 6/28/05 |
| DETAIL                              |         |
| CHECKED                             |         |
| ENGRG                               |         |
| MFG                                 |         |
| QUALITY                             |         |
| ISSUED                              |         |
| DRAWING FILE: o-4052-w-1.dwg        |         |
| MODEL / ASSEMBLY FILE: Z(B)TS(D/CT) |         |



| TITLE                       |        |               |
|-----------------------------|--------|---------------|
| ATS STANDARD DWG'S<br>MX250 |        |               |
| FIRST MADE FOR: MX250       | SIZE B | CAGE CODE     |
|                             |        | DWG NO 0-4052 |

AutoCad Generated

|        |                                    |
|--------|------------------------------------|
| # CTQs | CRITICAL TO QUALITY CHARACTERISTIC |
|--------|------------------------------------|

|          |              |
|----------|--------------|
| SCALE: - | SHEET 1 OF 5 |
|----------|--------------|

**Notes**

- (1) Delayed Transition Models only.
- (2) Not available on Delayed Transition Models.
- (6) Optional on 40-400 Amp Units, Standard otherwise.

**OPERATION & MAINTENANCE MANUALS:**

|               |          |                     |
|---------------|----------|---------------------|
| MX250         | 71R-2000 | (Addendum 71R-2050) |
| ZTS/ZTSD      | 71R-3000 | (Addendum 71R-2050) |
| ZBTS/ZBTSD    | 71R-4000 | (Addendum 71R-2050) |
| ZTSCT/ZBTSTCT | 71R-4000 | (Addendum 71R-2050) |

**MX250 OPTIONS NOT REQUIRING SPECIAL PRINTS**

When specifying group option packages EXES (71R-2080), CONS (71R-2081), SENS (71R-2082), SPES (71R-2083) and PSGS (71R-2084) do not specify drawing numbers for options denoted as standards (STDS).

| OPTIONS        | NOTES | DESCRIPTION   | GROUP OPTION PACKAGES |          |          |          |          |          |          | MANUAL   |
|----------------|-------|---|-----------------------|----------|----------|----------|----------|----------|----------|----------|
|                |       |   | DRAWING NUMBERS       | STD      | EXES     | CONS     | SENS     | SPES     | PSGS     |          |
|                |       |   | OPTION PACKAGE DWGS   | #N/A     | 71R-2080 | 71R-2081 | 71R-2082 | 71R-2083 | 71R-2084 |          |
| [6]            |       | Test switch, Momentary  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | #N/A     |
| A3             |       | Auxiliary contact, closed when the switch is in Source 2 position | #N/A                  | (1) STD  | (2) STD  | (2) STD  | (2) STD  | (2) STD  | (3) STD  | (1) STD  |
| A4             |       | Auxiliary contact, closed when the switch is in Source 1 position | #N/A                  | (1) STD  | (2) STD  | (2) STD  | (2) STD  | (2) STD  | (3) STD  | (1) STD  |
| 6AP            |       | Test switch, Maint./Momentary                                     | #N/A                  | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | #N/A     |
| 6AP•Calibrate• |       | Calibrate Source 1 & Source 2                                     | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| CDP            |       | Clock Exerciser, Load / No-Load                                   | #N/A                  | #N/A     | STD      | STD      | STD      | STD      | STD      | #N/A     |
| CDT            |       | Timer Exerciser, Load   | #N/A                  | STD      | #N/A     | #N/A     | #N/A     | #N/A     | #N/A     | #N/A     |
| DS             | 6     | Disconnect switch, Auto / Inhibit                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| DT             | 1     | Timer, Time Delay from Neutral to Source 1 position               | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| DW             | 1     | Timer, Time Delay from Neutral to Source 2 position               | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| E              |       | Engine Start Contact  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | #N/A     |
| EL/P           |       | Event Log and System Data   | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| J1E            |       | Source 2, Under Frequency Sensing                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| J2E            |       | Source 2, Over Frequency Sensing                                  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| J1N            |       | Source 1, Under Frequency Sensing                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| J2N            |       | Source 1, Over Frequency Sensing                                  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| KP             |       | Frequency Indication  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| L1             |       | Source 2 Position, LED Indicator                                  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| L2             |       | Source 1 Position, LED Indicator                                  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| L3             |       | Source 1 Available, LED Indicator                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| L4             |       | Source 2 Available, LED Indicator                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| LNP            | 1     | Center-Off Mid-Position, Indicator                                | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| N1P            |       | Running Time / Source 2 Available Indicator                       | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| N2P            |       | Operation Counter / Life Transfers Indicator                      | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| P1             |       | Timer, Time Delay Source 2 Start                                  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | #N/A     |
| None           |       | Source 1, Under Voltage Sensing                                   | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| R1-1/R1-3      |       | Source 1, Over Voltage Sensing                                    | #N/A                  | OPTIONAL | OPTIONAL | OPTIONAL | STD      | STD      | STD      | OPTIONAL |
| R2E, R6        |       | Source 2, Under Voltage Sensing                                   | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| R7, R8         |       | Source 2, Over Voltage Sensing                                    | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| R16            |       | Phase Rotation Sensing  | #N/A                  | OPTIONAL | STD      | STD      | STD      | STD      | STD      | OPTIONAL |
| R50            | 2     | In Phase Monitor  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| S13            |       | Commit / No-Commit transfer to Source 2                           | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | #N/A     |
| T              |       | Timer, Time Delay Source 1 stable                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| U              |       | Timer, Source 2 Stop Delay  | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| VI             |       | Voltage Imbalance Sensing   | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| W              |       | Timer, Time Delay Source 2 stable                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |
| YEN            |       | Pushbutton, Bypass T and W Timers                                 | #N/A                  | STD      | STD      | STD      | STD      | STD      | STD      | STD      |

|                    |                 |        |                |        |                |        |                |        |                |        |                |                              |                        |        |             |                                  |  |
|--------------------|-----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|------------------------------|------------------------|--------|-------------|----------------------------------|--|
| SS                 | KL              | YJS    | MES            | GG     | FS             | GG     | VJS            | GG     | MAS            | MAS    | MAS            | GG                           | FS                     | DRW    | ENG         | DATE: 05/27/03                   | <b>GE ZENITH CONTROLS INC.,</b><br>CHICAGO, IL 60609 USA<br><br>THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.<br>DUPLICATION, REPRODUCTION OR USE OF THIS DOCUMENT OR ITS CONTENTS IN ANY FORM<br>OTHER THAN AS EXPRESSLY PERMITTED BY ZENITH CONTROLS, INC. IS STRICTLY PROHIBITED. |
| S-8796-1           | REVISED SHEET 1 | S-8804 | REVISED SHT. 4 | S-8824 | REVISED SHT. 1 | S-8833 | REVISED SHT. 1 | S-8859 | REVISED SHT. 4 | S-8890 | REVISED SHT. 3 | S-8925B-1                    | REVISED SHT. 5         | ECN NO | DESCRIPTION | DRW: GG<br>ENG: FS<br>SCALE: N/A |  |
| W                  | V               | T      | P              | N      | M              | K      | REV            | CHK:   | APP:           | CADD:  | MS WORD        | DRAWING TITLE: MX250 OPTIONS | DRAWING NUMBER: O-4052 | 2 OF 7 | REV: V      |                                  |  |
| JOB / MODEL: MX250 |                 |        |                |        |                |        |                |        |                |        |                |                              |                        |        |             |                                  |  |

**Notes**

- (1) Delayed Transition Models only.
- (2) Not available on Delayed Transition Models.
- (3) Use if more than (3)A3 and/or (3)A4 are required.
- (4) Cannot be used with S12 OPTION.
- (5) Cannot be used with S5 OPTION.
- (6) Optional on 40-400 Amp Units, Standard otherwise.

**MX250 OPTIONS**  
**REQUIRING 71R-**  
**SERIES PRINTS**

When specifying group option packages EXES (71R-2080), CONS (71R-2081), SENS (71R-2082), SPES (71R-2083) and PSGS (71R-2084) do not specify drawing numbers for options denoted as standards (STDS).

| OPTIONS                   | NOTE | DESCRIPTION   | DRAWING NUMBERS     | STD             | EXES            | CONS            | SENS            | SPES            | PSGS            | MANUAL          |
|---------------------------|------|---|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                           |      |   | OPTION PACKAGE DRWS | #N/A            | 71R-2080        | 71R-2081        | 71R-2082        | 71R-2083        | 71R-2084        | 71R-2053        |
| 6A                        |      | Test switch, Maint. Auto / Moment. Test, Door Mount                 | 71R-2009            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | #N/A            |
| 6B                        |      | Test switch, Maint. Auto / Moment. Test, key, Door Mount            | 71R-2009            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | #N/A            |
| 6C                        |      | Test switch , Maint. Auto / Moment. Test, Key, Door Mount           | 71R-2009            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | #N/A            |
| A1                        |      | Auxiliary contact, operates on Source 1 line failure                | 71R-2002            | OPTIONAL        | STD             | STD             | STD             | STD             | STD             | #N/A            |
| A1E                       |      | Auxiliary contact, operates on Source 2 line failure                | 71R-2002            | OPTIONAL        | STD             | STD             | STD             | STD             | STD             | #N/A            |
| (4)A3, (4)A4              | 3    | Additional A3 and A4 Auxiliary contacts utilizing relays            | 71R-2024            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| A62                       |      | Sequential Universal Motor Load Disconnect Circuit                  | 71R-2017            | OPTIONAL<br>(2) | OPTIONAL<br>(2) | OPTIONAL<br>(2) | OPTIONAL<br>(2) | OPTIONAL<br>(2) | OPTIONAL<br>(2) | OPTIONAL<br>(2) |
| ABN/ABE                   |      | Auxiliary contacts, closed when Bypass is in Source 1 and Source 2  | 71R-2018            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| BCI                       |      | Battery charger Internal  | 71R-2087            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| CTAP                      |      | Alarm panel, transfer to Source 2 with silence button               | 71R-2013            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| DS                        |      | Disconnect switch, Auto / Inhibit                                   | #N/A                | STD             | STD             | STD             | STD             | STD             | STD             | STD             |
| DSA                       |      | Additional Aux. contact to Disconnect Switch DS for customer use    | 71R-2036            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| F                         |      | Fan contact, operates when the Generator is running                 | 71R-2002            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| HH                        |      | Heater and Humidistat   | 71R-2008            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| HT                        |      | Heater and Thermostat   | 71R-2008            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| K                         |      | Frequency Meter, Door mount   | 71R-2003            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| L1F,L2F, L3F,L4F          |      | Fused Source 1 & Source 2 Position & Availability lights            | 71R-2037            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| L1FPB, L2FPB, L3FPB, L4PB |      | Fused Pushbutton Source 1 & Source 2 Position & Availability lights | 71R-2035            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |
| L5                        |      | Generator failure light   | 71R-2032            | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        | OPTIONAL        |

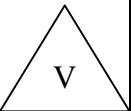
|          |                 |          |     |     |     |    |     |      |             |                              |     |     |                        |    |     |        |         |       |   |       |  |
|----------|-----------------|----------|-----|-----|-----|----|-----|------|-------------|------------------------------|-----|-----|------------------------|----|-----|--------|---------|-------|---|-------|--|
| S-8796-1 | SS              | 12/19/08 | KL  | YJS | MES | GG | FS  | GG   | VJS         | GG                           | MAS | MAS | MAS                    | GG | FS  | DRW    | ENG     | DATE: | <b>GE ZENITH CONTROLS INC.,</b><br>CHICAGO, IL 60609 USA<br><br><small>THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.<br/>                 DUPLICATION, REPRODUCTION OR USE OF THIS DOCUMENT OR ITS CONTENTS IN ANY FORM<br/>                 OTHER THAN AS EXPRESSLY PERMITTED BY ZENITH CONTROLS, INC. IS STRICTLY PROHIBITED.</small> |       |  |
|          | 05/27/03        |          |     |     |     |    |     |      |             |                              |     |     |                        |    |     |        |         |       |   |       |  |
| DRW:     | ENG:            | SCALE:   |     |     |     |    |     |      |             |                              |     |     |                        |    |     |        |         |       |   |       |  |
| GG       | FS              | N/A      |     |     |     |    |     |      |             |                              |     |     |                        |    |     |        |         |       |   |       |  |
| S-9604   | REVISED SHEET 1 | 04/05/07 | YJS | MES | GG  | FS | GG  | VJS  | GG          | MAS                          | MAS | MAS | GG                     | FS | DRW | ENG    | MS WORD | CHK:  | APP:  | CADD: |  |
| S-9424   | REVISED SHT. 4  | 05/18/06 | YJS | MES | GG  | FS | GG  | VJS  | GG          | MAS                          | MAS | MAS | GG                     | FS | DRW | ENG    | MS WORD | CHK:  | APP:  | CADD: |  |
| S-8333   | REVISED SHT. 1  | 04/10/04 | YJS | MES | GG  | FS | GG  | VJS  | GG          | MAS                          | MAS | MAS | GG                     | FS | DRW | ENG    | MS WORD | CHK:  | APP:  | CADD: |  |
| S-8259   | REVISED SHT. 1  | 02/16/06 | YJS | MES | GG  | FS | GG  | VJS  | GG          | MAS                          | MAS | MAS | GG                     | FS | DRW | ENG    | MS WORD | CHK:  | APP:  | CADD: |  |
| S-8290   | REVISED SHT. 4  | 6/28/05  | YJS | MES | GG  | FS | GG  | VJS  | GG          | MAS                          | MAS | MAS | GG                     | FS | DRW | ENG    | MS WORD | CHK:  | APP:  | CADD: |  |
| S-8258-1 | REVISED SHT. 3  | 4/21/04  | YJS | MES | GG  | FS | GG  | VJS  | GG          | MAS                          | MAS | MAS | GG                     | FS | DRW | ENG    | MS WORD | CHK:  | APP:  | CADD: |  |
| W        | V               | T        | P   | N   | M   | K  | REV | DATE | DESCRIPTION | DRAWING TITLE: MX250 OPTIONS |     |     | DRAWING NUMBER: O-4052 |    |     | 3 OF 7 | REV: V  |       |   |       |  |
|          |                 |          |     |     |     |    |     |      |             | JOB / MODEL: MX250           |     |     |                        |    |     |        |         |       |   |       |  |

**Notes**

- (1) Delayed Transition Models only.
- (2) Not available on Delayed Transition Models.
- (3) Use if more than (3)A3 and/or (3)A4 are required.
- (4) Cannot be used with S12 OPTION.
- (5) Cannot be used with S5 OPTION.
- (6) Optional on 40-400 Amp Units, Standard otherwise.

**MX250 OPTIONS REQUIRING 71R-SERIES PRINTS**

| OPTIONS | NOTE | DESCRIPTION  | GROUP OPTION PACKAGES |          |          |          |          |          |          | MANUAL   |
|---------|------|--|-----------------------|----------|----------|----------|----------|----------|----------|----------|
|         |      |  | DRAWING NUMBERS       | STD      | EXES     | CONS     | SENS     | SPES     | PSG      |          |
|         |      |  | OPTION PACKAGE DWGS   | #N/A     | 71R-2080 | 71R-2081 | 71R-2082 | 71R-2083 | 71R-2084 | 71R-2053 |
| L8      |      | Source 1 failure light, customer supplied voltage, 24VDC                     | 71R-2073              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| L9      |      | Pilot light for customer use. Customer supplied voltage, 24VDC or 120 VAC    | 71R-2022              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| L11     |      | Phase lights, will illuminate when corresponding phase voltage lines present | 71R-2030              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| LDS     |      | Light, will illuminate when Disconnect Switch DS is in the Inhibit position  | 71R-2020              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| LN      | 1    | Light, will illuminate when the Switch is in the Open or Neutral position    | 71R-2034              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| M90     |      | Digital Power Monitor, 2000  | 71R-2090              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| M91     |      | Digital Power Monitor, 6000  | 71R-2091              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| N1      |      | Running Time Meter, Door mount   | 71R-2039              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| N2      |      | Operation Counter, Door mount  | 71R-2019              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| OCVR-1S |      | Clear Cover  | 71R-2075              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| OCVR-2L |      | Clear Cover  | 71R-2076              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| P2      |      | Time Delay Source 2 Start, Adjustable, 1/6 to 300 seconds                    | 71R-2014              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | #N/A     |
| Q2      |      | Remote Peak Shave, Area protection, Test circuit                             | 71R-2001              | OPTIONAL | STD      | STD      | STD      | STD      | STD      | #N/A     |
| Q3      |      | Remote Inhibit Transfer to Source 2 circuit                                  | 71R-2028              | OPTIONAL | OPTIONAL | STD      | OPTIONAL | STD      | STD      | OPTIONAL |
| Q7      |      | Remote Inhibit Transfer to Source 1 circuit                                  | 71R-2001              | OPTIONAL | OPTIONAL | STD      | STD      | STD      | STD      | OPTIONAL |
| R15     |      | Load Shed  | 71R-2015              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | STD      | #N/A     |
| M1, M3  |      | SINGLE PHASE AMP METER AND SINGLE PHASE VOLT METER                           | 71R-2004              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |
| M2, M4  |      | THREE PHASE AMP METER AND THREE PHASE VOLT METER                             | 71R-2005              | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL | OPTIONAL |



|                              |          |                |          |                |          |                |          |                |         |                |         |                |        |      |             |         |                 |                |   |
|------------------------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|---------|----------------|---------|----------------|--------|------|-------------|---------|-----------------|----------------|---|
| S-8796-1                     | 12/19/08 | SS             | KL       | YJS            | MES      | GG             | FS       | GG             | VJS     | GG             | MAS     | MAS            | MAS    | GG   | FS          | DRW     | ENG             | DATE: 05/27/03 | <b>GE ZENITH CONTROLS INC.,</b><br>CHICAGO, IL 60609 USA<br><br><small>THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION. DUPLICATION, REPRODUCTION OR USE OF THIS DOCUMENT OR ITS CONTENTS IN ANY FORM OTHER THAN AS EXPRESSLY PERMITTED BY ZENITH CONTROLS, INC. IS STRICTLY PROHIBITED.</small> |
| REVISED SHEET 1              | 04/05/07 | REVISED SHT. 4 | 05/18/06 | REVISED SHT. 1 | 04/10/04 | REVISED SHT. 1 | 02/16/06 | REVISED SHT. 4 | 6/28/05 | REVISED SHT. 3 | 4/21/04 | REVISED SHT. 5 | ECN NO | DATE | DESCRIPTION | MS WORD |                 |                |   |
| CHK:                         | APP:     | CADD:          |          |                |          |                |          |                |         |                |         |                |        |      |             |         |                 |                |   |
| DRAWING TITLE: MX250 OPTIONS |          |                |          |                |          |                |          |                |         |                |         |                |        |      |             |         | DRAWING NUMBER: | REV:           |   |
| JOB / MODEL: MX250           |          |                |          |                |          |                |          |                |         |                |         |                |        |      |             |         | O-4052          | 4 OF 7         | V   |

**Notes**

- (1) Delayed Transition Models only.
- (2) Not available on Delayed Transition Models.
- (3) Use if more than (3)A3 and/or (3)A4 are required.
- (4) Cannot be used with S12 OPTION.
- (5) Cannot be used with S5 OPTION.
- (6) Optional on 40-400 Amp Units, Standard otherwise.
- (7) Closed Transition Models only.

**MX250 OPTIONS REQUIRING 71R-SERIES PRINTS**

When specifying group option packages EXES (71R-2080), CONS (71R-2081), SENS (71R-2082), SPES (71R-2083) and PSGS (71R-2084) do not specify drawing numbers for options denoted as standards (STDS).

| OPTIONS     | NOTES | DESCRIPTION   | GROUP OPTION PACKAGES                  |              |                  |                  |                  |                  |                 |                    |
|-------------|-------|---|--|--------------|------------------|------------------|------------------|------------------|-----------------|--------------------|
|             |       |   | DRAWING NUMBERS<br>OPTION PACKAGE DWGS | STD<br>#N/A  | EXES<br>71R-2080 | CONS<br>71R-2081 | SENS<br>71R-2082 | SPES<br>71R-2083 | PSG<br>71R-2084 | MANUAL<br>71R-2053 |
| R15D        | 1     | Load Shed   | 71R-2016                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | STD             | #N/A               |
| R26         |       | Interruptible Power Rate Provisions                             | 71R-2031                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| R26D        | 1     | Interruptible Power Rate Provisions                             | 71R-2044                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| R26S        |       | Interruptible Power Rate Provisions with selector switch        | 71R-2055                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| R26DS       |       | Interruptible Power Rate Provisions with selector switch        | 71R-2088                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| S5P         | 4     | Auto / Semi-Manual Selector                                     | 71R-2010                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | #N/A             | STD              | NA              | #N/A               |
| S12P        | 5     | Auto / Manual Selector  | 71R-2011                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | STD              | #N/A             | STD             | #N/A               |
| S14         |       | Test/Auto/YN Selector Switch, Door mount                        | 71R-2023                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW1         |       | Off/Auto/Start Engine selector. Door mount.                     | 71R-2006                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW1 with L7 |       | Off/Auto/Start Engine selector. Door mount with Non-Auto light. | 71R-2033                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW1 with P2 |       | Off/Auto/Start Engine selector. Door mount with P2 option       | 71R-2057                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW2         |       | Auto/Off Engine selector. Panel mount                           | 71R-2007                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW2 with P2 |       | Auto/Off Engine selector. Panel mount with P2 option            | 71R-2056                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW3 G/G     |       | Primary Source Selector, Generator to Generator.                | 71R-2063                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| SW3 U/G     |       | Primary Source Selector, Utility to Utility.                    | 71R-2064                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| T3/W3       |       | Elevator Pre-Signal Auxiliary Contacts                          | 71R-2040                               | (2) OPTIONAL | (2) OPTIONAL     | (2) STD          | (2) OPTIONAL     | (2) STD          | (2) STD         | (2) OPTIONAL       |
| TMS         | 7     | Transition Mode Selector  | 71R-2085                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| UMD         |       | Universal Motor Load Disconnect Circuit                         | 71R-2012                               | (2) OPTIONAL | (2) OPTIONAL     | (2) STD          | (2) OPTIONAL     | (2) STD          | (2) STD         | (2) OPTIONAL       |
| VA1         |       | A3,A4,Q2,YNR options  | 71R-2026                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | #N/A               |
| VA2         |       | Hasp and Chain  | 71R-2027                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | OPTIONAL           |
| YNR, YER    |       | Remote transfer to Source 1 and Source 2 circuits               | 71R-2001                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | OPTIONAL           |
| ZNET        |       | network Communications Interface Card                           | 71R-2025                               | OPTIONAL     | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL         | OPTIONAL        | OPTIONAL           |

|          |                 |        |                |        |                |        |                |                              |                |        |                        |          |                |        |                    |             |   |      |       |
|----------|-----------------|--------|----------------|--------|----------------|--------|----------------|------------------------------|----------------|--------|------------------------|----------|----------------|--------|--------------------|-------------|---|------|-------|
| SS       | KL              | YJS    | MES            | GG     | FS             | GG     | VJS            | GG                           | MAS            | MAS    | MAS                    | GG       | FS             | DRW    | ENG                | DATE:       | <b>GE ZENITH CONTROLS INC.,</b><br>CHICAGO, IL 60609 USA<br><br><small>THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION.<br/>                 DUPLICATION, REPRODUCTION OR USE OF THIS DOCUMENT OR ITS CONTENTS IN ANY FORM<br/>                 OTHER THAN AS EXPRESSLY PERMITTED BY ZENITH CONTROLS, INC. IS STRICTLY PROHIBITED.</small> |      |       |
|          |                 |        |                |        |                |        |                |                              |                |        |                        |          |                |        |                    | 05/27/03    |   |      |       |
| DRW:     | ENG:            | SCALE: |                |        |                |        |                |                              |                |        |                        |          |                |        |                    |             |   |      |       |
| GG       | FS              | N/A    |                |        |                |        |                |                              |                |        |                        |          |                |        |                    |             |   |      |       |
| S-8796-1 | REVISED SHEET 1 | S-8604 | REVISED SHT. 4 | S-8424 | REVISED SHT. 1 | S-8333 | REVISED SHT. 1 | S-8259                       | REVISED SHT. 4 | S-8290 | REVISED SHT. 3         | S-8258-1 | REVISED SHT. 5 | ECN NO | DATE               | DESCRIPTION | CHK:  | APP: | CADD: |
|          |                 |        |                |        |                |        |                |                              |                |        |                        |          |                |        |                    |             |   |      |       |
| W        | V               | T      | P              | N      | M              | K      | REV            | DRAWING TITLE: MX250 OPTIONS |                |        | DRAWING NUMBER: O-4052 |          |                | 5 OF 7 | REV: V             |             |   |      |       |
|          |                 |        |                |        |                |        |                |                              |                |        |                        |          |                |        | JOB / MODEL: MX250 |             |   |      |       |