

# Bulletin 1492 Screw Type and Spring-Clamp IEC & NEMA Terminal Blocks

SCCR for Use with Fuses and Circuit Breakers

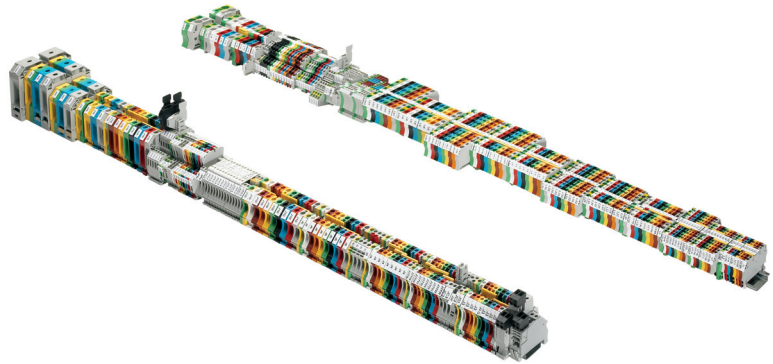
## UL Recognized Per UL 1059

- Evaluated by UL for high-fault short-circuit current ratings
- UL Category Code XCFR2
- UL File Number E40735

## High-fault SCCRs

- Up to 100kA at 600V when used with fuses
- Up to 65kA at 480Y when used with motor protection circuit breakers, molded case circuit breakers, and motor circuit protectors
- Up to 30kA at 600Y when used with motor protection circuit breakers, molded case circuit breakers, and motor circuit protectors

*The process of obtaining SCCR on electrical panels can be simplified when components with SCCR are used together.*



## Overview

The 2005 National Electric Code (NEC) and UL 508A (effective April 25, 2006) now require many electrical panels to have short-circuit current ratings (SCCRs). Rockwell Automation is leading the industry in supplying a broad range of products with SCCR, including but not limited to: terminal blocks, power blocks, circuit breakers, contactors, disconnects, and drives.

Rockwell Automation has tested Bulletin 1492 Screw Type and Spring-Clamp Terminal Blocks for SCCR. These ratings allow terminal blocks to be used in conjunction with fuses, motor protection circuit breakers, and motor circuit protectors in power circuits. When components with SCCR are used together, the process of obtaining SCCR for UL 508A electrical panels can be simplified.

When the new UL 508A standard was adopted, all terminal blocks were granted a default 10kA SCCR for use in power circuits. The SCCR of the electrical panel is based on the component with the lowest SCCR in the circuit, creating a limitation 10kA for power circuits using terminal blocks. Many users complying with the UL 508A standard are looking to achieve overall system ratings between 25kA and 100kA. To support UL requirements, Rockwell Automation offers several Bulletin 1492 Screw Type and Spring-Clamp Terminal Blocks with high-fault SCCR.

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## Ratings with Fuses

| Catalog Number | Wire Range, Cu [AWG] |           | Overcurrent Protection Fuse Required Class/Max Amp Rating [A] |     |     |     |    |    | Maximum Voltage [V] | SCCR, RMS SYM [A] |
|----------------|----------------------|-----------|---|-----|-----|-----|----|----|---------------------|-------------------|
|                | Line                 | Load      | J   | T   | RK1 | RK5 | G  | CC |                     |                   |
| 1492-J3        | 14...12              | 14...12   | 30  | 30  | —   | —   | 30 | 30 | 600                 | 100,000           |
| 1492-J3P       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3SS     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3C      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JG3TW     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3C     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JG3       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J3F       | 14...12              | 14...12   | 30  | 30  | —   | —   | 30 | 30 | 300                 | 100,000           |
| 1492-J3TW      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JC3       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDC3      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD3      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3FB     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3F      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3FB    |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3PSSTP  |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3PTP    |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3P     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3PSS   |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3PSSTP |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3PTP   |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JDG3      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3PSS    |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD3P      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J4        | 14...10              | 14...10   | 60  | 60  | 30  | —   | 60 | 30 | 600                 | 100,000           |
| 1492-JG4       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD4      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J4TW      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J4Q       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JG4TW     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JG4Q      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD4TW    |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD4Q     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD4TP    |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD4C      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JD4       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD4QTP   |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JKD4TWTP  |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-JSD4      | 14...10              | 14...10   | 60  | 60  | 30  | —   | 60 | 30 | 300                 | 100,000           |
| 1492-JKD4      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J4CTB     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J6        | 14...8               | 14...8    | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-JG6       |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J10       | 14...6               | 14...6    | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-JG10      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J16       | 14...4               | 14...4    | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-JG16      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J16ND     |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J35       | 12...1/0             | 12...1/0  | 200   | 200 | 100 | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-JG35      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J50       | 6...1/0              | 6...1/0   | 200   | 200 | 100 | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-JG50      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J70       | 1/0...3/0            | 1/0...3/0 | 400   | 400 | 200 | 100 | 60 | 30 | 600                 | 100,000           |
| 1492-JG70      |                      |           |   |     |     |     |    |    |                     |                   |
| 1492-J120      | 4...4/0              | 4...4/0   | 400   | 400 | 200 | 100 | 60 | 30 | 600                 | 100,000           |
| 1492-JG120     |                      |           |   |     |     |     |    |    |                     |                   |

| Catalog Number | Wire Range, Cu [AWG] |         | Overcurrent Protection Fuse Required Class/Max Amp Rating [A] |     |     |     |    |    | Maximum Voltage [V] | SCCR, RMS SYM [A] |
|----------------|----------------------|---------|---|-----|-----|-----|----|----|---------------------|-------------------|
|                | Line                 | Load    | J   | T   | RK1 | RK5 | G  | CC |                     |                   |
| 1492-L3        | 14...12              | 14...12 | 30  | 30  | —   | —   | 30 | 30 | 600                 | 100,000           |
| 1492-L3Q       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L3T       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LD3       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L3QS      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LMJ3      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LMJG3     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LKD3      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L3P       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG3T      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG3Q      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG3       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LD3C      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LDG3C     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LDG3      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LC3       | 14...12              | 14...12 | 30  | 30  | —   | —   | 30 | 30 | 300                 | 100,000           |
| 1492-LDC3      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LDG3P     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LDG3ND    |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LDG3N     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LD3N      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L31P      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L3Q2P     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG31P     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG3T1P    |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L3T1P     |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LDG3FB    |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L4        | 14...10              | 14...10 | 60  | 60  | 30  | —   | 30 | 30 | 600                 | 100,000           |
| 1492-L4Q       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L4T       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LD4       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LD4C      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG4       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG4T      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG4Q      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LD4DFX2   |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L6        | 14...8               | 14...8  | 60  | 60  | 30  | —   | 60 | 30 | 600                 | 100,000           |
| 1492-L6T       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LG6       |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-LAFB6     | 14...8               | 14...8  | 60  | 60  | 30  | —   | 60 | 30 | 300                 | 100,000           |
| 1492-L10       | 14...6               | 14...6  | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-LG10      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L16       | 14...4               | 14...4  | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-LG16      |                      |         |   |     |     |     |    |    |                     |                   |
| 1492-L35       | 12...2               | 12...2  | 200   | 200 | 100 | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-LG35      |                      |         |   |     |     |     |    |    |                     |                   |

| Catalog Number | Wire Range, Cu [AWG] |          | Overcurrent Protection Fuse Required Class/Max Amp Rating [A] |     |     |     |    |    | Maximum Voltage [V] | SCCR, RMS SYM [A] |
|----------------|----------------------|----------|---|-----|-----|-----|----|----|---------------------|-------------------|
|                | Line                 | Load     | J   | T   | RK1 | RK5 | G  | CC |                     |                   |
|                |                      |          |   |     |     |     |    |    |                     |                   |
| 1492-CAM1      | 14...8               | 14...8   | 60  | 60  | 30  | —   | 50 | 30 | 600                 | 100,000           |
| 1492-HM3       |                      |          |   |     |     |     |    |    |                     |                   |
| 1492-CD2       | 14...4               | 14...4   | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-CE2       | 12...1/0             | 12...1/0 | 100   | 100 | 60  | 30  | 60 | 30 | 600                 | 100,000           |
| 1492-HM1       | 14...12              | 14...12  | 35  | 35  | —   | —   | 30 | 30 | 600                 | 100,000           |

## Ratings with Circuit Breakers

| Catalog Number | Wire Range, Cu [AWG] |         | Overcurrent Protection Device Required | Maximum Current [A] | SCCR, RMS SYM [A]        |                          |    |        |        |
|----------------|----------------------|---------|--|---------------------|--------------------------|--------------------------|----|--------|--------|
|                | Line                 | Load    |  |                     | 480Y / 277V <sup>+</sup> | 600Y / 347V <sup>+</sup> |    |        |        |
| 1492-J3        | 14...12              | 14...12 | 140M-D8E-__                            | 16                  | 65,000                   | 30,000                   |    |        |        |
| 1492-JG3TW     |                      |         | 140M-C2E-B10                           |                     | 65,000                   | 30,000                   |    |        |        |
| 1492-J3P       |                      |         | 140M-C2E-B16                           |                     | 65,000                   | 30,000                   |    |        |        |
| 1492-J3        |                      |         | 140M-C2E-B25                           |                     | 65,000                   | 30,000                   |    |        |        |
| 1492-JD3       |                      |         | 140M-C2E-B40                           |                     | 65,000                   | 25,000                   |    |        |        |
| 1492-JD3C      |                      |         | 140M-C2E-B63                           |                     | 65,000                   | *                        |    |        |        |
| 1492-JD3SS     |                      |         | 140M-C2E-A__                           |                     | 65,000                   | 30,000                   |    |        |        |
| 1492-JDG3C     |                      |         | 140M-C2E-C10                           |                     | 65,000                   | *                        |    |        |        |
| 1492-JG3       |                      |         | 140MC2E-C16                            |                     | 30,000                   | *                        |    |        |        |
| 1492-J4        |                      |         | 14...10                                |                     | 14...10                  | 140M-F8E-__              | 32 | 65,000 | 30,000 |
| 1492-JG4       | 140M-D8E-C10         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-J4TW      | 140M-D8E-C16         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-J4Q       | 140M-D8E-C20         | 65,000  |  | *                   |                          |                          |    |        |        |
| 1492-JG4TW     | 140M-D8E-C25         | 30,000  |  | *                   |                          |                          |    |        |        |
| 1492-JG4Q      | 140M-D8E-B__         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-JKD4TW    | 140M-C2E-B10         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-JKD4Q     | 140M-C2E-B16         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-JKD4TP    | 140M-C2E-B25         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-JD4C      | 140M-C2E-B40         | 65,000  |  | 25,000              |                          |                          |    |        |        |
| 1492-JD4       | 140M-C2E-B63         | 65,000  |  | *                   |                          |                          |    |        |        |
| 1492-JKD4QTP   | 140M-C2E-C10         | 65,000  |  | *                   |                          |                          |    |        |        |
| 1492-JKD4TWTP  | 140M-C2E-C16         | 30,000  |  | *                   |                          |                          |    |        |        |
|                | 140M-C2E-A__         | 65,000  |  | 30,000              |                          |                          |    |        |        |
| 1492-J6        | 14...8               | 14...8  |  | 140M-F8E-__         |                          | 32                       |    | 65,000 | 30,000 |
| 1492-JG6       |                      |         |  | 140M-D8E-C10        |                          |                          |    | 65,000 | 30,000 |
|                |                      |         |  | 140M-D8E-C16        |                          |                          |    | 65,000 | 30,000 |
|                |                      |         |  | 140M-D8E-C20        |                          |                          |    | 65,000 | *      |
|                |                      |         | 140M-D8E-C25                           | 30,000              | *                        |                          |    |        |        |
|                |                      |         | 140M-D8E-B__                           | 65,000              | 30,000                   |                          |    |        |        |
|                |                      |         | 140M-C2E-B10                           | 65,000              | 30,000                   |                          |    |        |        |
|                |                      |         | 140M-C2E-B16                           | 65,000              | 30,000                   |                          |    |        |        |
|                |                      |         | 140M-C2E-B25                           | 65,000              | 30,000                   |                          |    |        |        |
|                |                      |         | 140M-C2E-B40                           | 65,000              | 25,000                   |                          |    |        |        |
|                |                      |         | 140M-C2E-B63                           | 65,000              | *                        |                          |    |        |        |
|                |                      |         | 140M-C2E-C10                           | 65,000              | *                        |                          |    |        |        |
|                |                      |         | 140M-C2E-C16                           | 30,000              | *                        |                          |    |        |        |
|                |                      |         | 140M-C2E-A__                           | 65,000              | 30,000                   |                          |    |        |        |

| Catalog Number | Wire Range, Cu [AWG] |         | Overcurrent Protection Device Required | Maximum Current [A] | SCCR, RMS SYM [A]        |                   |
|----------------|----------------------|---------|--|---------------------|--------------------------|-------------------|
|                | Line                 | Load    |  |                     | 480Y / 277V <sup>+</sup> | 300V <sup>+</sup> |
| 1492-J3TW      | 14...12              | 14...12 | 140M-D8E-__                            | 16                  | 65,000                   | 30,000            |
| 1492-JC3       |                      |         | 140M-C2E-B10                           |                     | 65,000                   | 30,000            |
| 1492-JDC3      |                      |         | 140M-C2E-B16                           |                     | 65,000                   | 30,000            |
| 1492-J3F       |                      |         | 140M-C2E-B25                           |                     | 65,000                   | 30,000            |
| 1492-JD3F      |                      |         | 140M-C2E-B40                           |                     | 65,000                   | 25,000            |
| 1492-JKD3      |                      |         | 140M-C2E-B63                           |                     | 65,000                   | *                 |
| 1492-JD3FB     |                      |         | 140M-C2E-A__                           |                     | 65,000                   | 30,000            |
| 1492-JDG3FB    |                      |         | 140M-C2E-C10                           |                     | 65,000                   | *                 |
| 1492-JD3PSSTP  |                      |         | 140MC2E-C16                            |                     | 30,000                   | *                 |
| 1492-JD3PTP    |                      |         |  |                     |                          |                   |
| 1492-JDG3P     |                      |         |  |                     |                          |                   |
| 1492-JDG3PSS   |                      |         |  |                     |                          |                   |
| 1492-JDG3PSSTP |                      |         |  |                     |                          |                   |
| 1492-JDG3PTP   |                      |         |  |                     |                          |                   |
| 1492-JDG3      |                      |         |  |                     |                          |                   |
| 1492-JD3P      |                      |         |  |                     |                          |                   |
| 1492-JD3PSS    |                      |         |  |                     |                          |                   |
| 1492-JKD4      | 14...10              | 14...10 | 140M-F8E-__                            | 32                  | 65,000                   | 30,000            |
| 1492-JSD4      |                      |         | 140M-D8E-C10                           |                     | 65,000                   | 30,000            |
| 1492-J4CTB     |                      |         | 140M-D8E-C16                           |                     | 65,000                   | 30,000            |
|                |                      |         | 140M-D8E-C20                           |                     | 65,000                   | *                 |
|                |                      |         | 140M-D8E-C25                           |                     | 30,000                   | *                 |
|                |                      |         | 140M-D8E-B__                           |                     | 65,000                   | 30,000            |
|                |                      |         | 140M-C2E-B10                           |                     | 65,000                   | 30,000            |
|                |                      |         | 140M-C2E-B16                           |                     | 65,000                   | 30,000            |
|                |                      |         | 140M-C2E-B25                           |                     | 65,000                   | 30,000            |
|                |                      |         | 140M-C2E-B40                           |                     | 65,000                   | 25,000            |
|                |                      |         | 140M-C2E-B63                           |                     | 65,000                   | *                 |
|                |                      |         | 140M-C2E-C10                           |                     | 65,000                   | *                 |
|                |                      |         | 140M-C2E-C16                           |                     | 30,000                   | *                 |
|                | 140M-C2E-A__         | 65,000  | 30,000                                 |                     |                          |                   |

| Catalog Number | Wire Range, Cu [AWG] |         | Overcurrent Protection Device Required | Maximum Current [A] | SCCR, RMS SYM [A] |                          |
|----------------|----------------------|---------|--|---------------------|-------------------|--------------------------|
|                | Line                 | Load    |  |                     | 480V <sup>+</sup> | 600Y / 347V <sup>+</sup> |
| 1492-J10       | 14...10              | 14...10 | 140M-H8P-__                            | 50                  | 50,000            | 30,000                   |
| 1492-JG10      |                      |         |  |                     |                   |                          |
| 1492-J16       | 14...4               | 14...4  | 140M-H8P-__                            | 100                 | 30,000            | 30,000                   |
| 1492-JG16      |                      |         |  |                     |                   |                          |
| 1492-J16ND     |                      |         |  |                     |                   |                          |
| 1492-J35       | 12...2               | 12...2  | 140M-H8P-__                            | 100                 | 50,000            | 30,000                   |
| 1492-JG35      |                      |         |  |                     |                   |                          |
| 1492-J50       | 2...1/0              | 2...1/0 | 140M-H8P-__                            | 150                 | 65,000            | 30,000                   |
| 1492-JG50      |                      |         |  |                     |                   |                          |

| Catalog Number | Wire Range, Cu [AWG] |         | Overcurrent Protection Device Required | Maximum Current [A] | SCCR, RMS SYM [A] |                   |
|----------------|----------------------|---------|--|---------------------|-------------------|-------------------|
|                | Line                 | Load    |  |                     | 480V <sup>+</sup> | 600V <sup>+</sup> |
| 1492-J70       | 4...1/0              | 4...1/0 | 140U-JOX3                              | 175                 | 65,000            | *                 |
|                | 1/0                  | 1/0     | 140U-JOX3                              |                     | *                 | 30,000            |
| 1492-J120      | 2...3/0              | 2...3/0 | 140U-JOX3                              | 228                 | 65,000            | 30,000            |

\* Bulletin 140M does not have ratings at this voltage.

\* Voltage terminal block was tested at for respective SCC.

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#### Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846