



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

F301a. Megablock Series Fieldbus Connection Blocks.

NI/I/2/ABCD/T4 Ta = -50°C to 85°C – 502-484: NIFW

I/2/Ex nA [nL] /IIC/T4 Ta = -50°C to 85°C – 502-484

a = Option pluggable spring clamp connector = -PC or blank.

Nonincendive/Energy Limited Field Wiring Parameters

V_{max} = 32V, C_i = 0, L_i = 0

V_{oc} = 32V, I_o = 56mA, P_o = 1.792W, C_a = 80nF, L_a = 0.26mH

Special Conditions of Use:

- 1. The apparatus shall be installed in an enclosure which maintains an ingress protection rating of IP54 and meets the enclosure requirements of E60079-0 and E60079-15.*
- 2. The apparatus shall be installed in an enclosure meeting the requirements of CSA Standard C22.2 No. 61010-1.*
- 3. The apparatus shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.*
- 4. Provisions shall be made externally to the F301, F304, F308, F312 and F316 Megablocks to prevent the rated input being exceeded by transient disturbances of more than 140% of the rated voltage value of 32V.*

F3a-b-c. Megablock Series Fieldbus Connection Blocks.

NI/I/2/ABCD/T4 Ta = -50°C to 70°C – 502-484: NIFW

I/2/Ex nA [nL] IIC/T4 Ta = -50°C to 70°C – 502-484;

a = Number of Spurs = 04, 08, 12 or 16.

b = Option for a built-in terminator = -T or blank.

c = Option for pluggable spring clamp connectors = -PC or blank.

d = Option for pluggable displacement connectors = -PD or blank.

The -T is an option for built-on (on the circuit board) terminator. This option is available with -PD option.



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Nonincendive/Energy Limited Field Wiring Parameters

$V_{max} = 32V$, $C_i = 0$, $L_i = 0$

$V_{oc} = 32V$, $I_o = 56mA$, $P_o = 1.792W$, $C_a = 80nF$, $L_a = 0.26mH$

Special Conditions of Use:

1. The apparatus shall be installed in an enclosure which maintains an ingress protection rating of IP54 and meets the enclosure requirements of E60079-0 and E60079-15.

2. The apparatus shall be installed in an enclosure meeting the requirements of CSA Standard C22.2 No. 61010-1.

3. The apparatus shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

4. Provisions shall be made externally to the F301, F304, F308, F312 and F316 Megablocks to prevent the rated input being exceeded by transient disturbances of more than 140% of the rated voltage value of 32V.

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T4 $T_a = -50^{\circ}C$ to $70^{\circ}C$ for the F304, F308, F312 and F316 and $T_a = -50^{\circ}C$ to $85^{\circ}C$ for the F301; with NIFW; Non-Sparking for use in Class I, Zone 2, Ex [nL] IIC T4 $T_a = -50^{\circ}C$ to $70^{\circ}C$ for the F304, F308, F312 and F316 and $T_a = -50^{\circ}C$ to $85^{\circ}C$ for the F301 for Hazardous Locations..

FM Approved for:

Relcom Inc
Forest Grove, OR United States



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

CAN C22.2 No. 213-M1987 3600	1987
CAN C22.2 No. 61010.1	2004
CAN/CSA E60079-0	2002
CAN/CSA E60079-15	2002

Original Project ID: 3041271C

Approval Granted: September 15, 2011

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

J. E. Marquedant
Group Manager

15 September 2011

Date