



Member of the FM Global Group

FM Approvals
 1151 Boston Providence Turnpike
 P.O. Box 9102 Norwood, MA 02062 USA
 T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

9203Aabc Solenoid / Alarm Driver

a: Contact (1=low current; 2=high current)

b: Channels (A= Single; B = Double)

c: Input (- = Standard, 1 = PNP, 2 = NPN)

NI/2/ABCD/T4; -20 °C ≤ Ta ≤ +60 °C

I/2/AEx nA II T4, -20 °C ≤ Ta ≤ +60 °C

9203Babc Solenoid / Alarm Driver

a: Contact (1=low current; 2=high current)

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c: Input (- = Standard, 1 = PNP, 2 = NPN)

AIS/I,II,III/1/ABCDEFGF - 9203QF01; Entity

I/0/[AEx ia] IIC - 9203QF01; Entity

NI/2/ABCD/T4; -20 °C ≤ Ta ≤ +60 °C

I/2/AEx nA II T4, -20 °C ≤ Ta ≤ +60 °C

Module 9203B1A & 9203B1B Terminal 41-41 / 51-52			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	4.2mH	54µH/Ω
Io/Isc	93mA	IIB or C, E, F	640nF	16.8mH	218 µH/Ω
Po	0.65W	IIA or D, G	2.1µF	32.6mH	436 µH/Ω

Module 9203B1A & 9203B1B Terminal 41-43 / 51-53			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	3.5mH	50µH/Ω
Io/Isc	100mA	IIB or C, E, F	640nF	14.2mH	201 µH/Ω
Po	0.7W	IIA or D, G	2.1µF	27.6mH	402 µH/Ω

Module 9203B1A & 9203B1B Terminal 41-44 / 51-54			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	2.9mH	46µH/Ω
Io/Isc	110mA	IIB or C, E, F	640nF	11.8mH	184µH/Ω

To verify the availability of the Approved product, please refer to www.approvalguide.com



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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

9203Aabc Solenoid / Alarm Driver

a: Contact (1=low current; 2=high current)

b: Channels (A= Single; B = Double)

c: Input (- = Standard, 1 = PNP, 2 = NPN)

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I/2/Ex nA II T4, -20 °C ≤ Ta ≤ +60 °C

9203Babc Solenoid / Alarm Driver

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I/0/[Ex ia] IIC - 9203QF01; Entity

NI/2/ABCD/T4; -20 °C ≤ Ta ≤ +60 °C

I/2/Ex nA II T4, -20 °C ≤ Ta ≤ +60 °C

Module 9203B1A & 9203B1B Terminal 41-41 / 51-52			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	4.2mH	54µH/Ω
Io/Isc	93mA	IIB or C, E, F	640nF	16.8mH	218 µH/Ω
Po	0.65W	IIA or D, G	2.1µF	32.6mH	436 µH/Ω

Module 9203B1A & 9203B1B Terminal 41-43 / 51-53			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	3.5mH	50µH/Ω
Io/Isc	100mA	IIB or C, E, F	640nF	14.2mH	201 µH/Ω
Po	0.7W	IIA or D, G	2.1µF	27.6mH	402 µH/Ω

Module 9203B1A & 9203B1B Terminal 41-44 / 51-54			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	2.9mH	46µH/Ω
Io/Isc	110mA	IIB or C, E, F	640nF	11.8mH	184µH/Ω
Po	0.77W	IIA or D, G	2.1µF	22.8mH	369µH/Ω

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Module 9203B2A & 9203B2B Terminal 41-42			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B	80nF	2.69mH	44µH/Ω
Io/Isc	115mA	IIB or C, E, F	640nF	10.8mH	176µH/Ω
Po	0.81W	IIA or D, G	2.1µF	20.8mH	353µH/Ω

Module 9203B2A & 9203B2B Terminal 41-43			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B			
Io/Isc	125mA	IIB or C, E, F	640nF	9.1mH	163µH/Ω
Po	0.88W	IIA or D, G	2.1µF	17.6mH	327µH/Ω

Module 9203B2A & 9203B2B Terminal 41-44			Co/Ca	Lo/La	Lo/Ro or La/Ra
Uo/Voc	28V	IIC or A, B			
Io/Isc	135mA	IIB or C, E, F	640nF	7.8mH	150µH/Ω
Po	0.95W	IIA or D, G	2.1µF	15.1mH	301µH/Ω

Special Conditions of Use:

- 1) In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the Canadian Electrical Code (C22.1).
- 2) In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the Canadian Electrical Code (C22.1). Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. Where installed in dry, clean, indoor locations, the enclosure shall, at a minimum, meet the requirements of IP4X.
- 3) In Class I, Zone 2 installations, the installer shall ensure protection of supply terminals against transient voltages exceeding 140% of the rated supply voltage.
- 4) Install in environments rated Pollution Degree 2 or better; overvoltage category I or II.
It is the responsibility of the manufacturer to provide warning markings in French where required by local jurisdictions

Equipment Ratings:

Associated apparatus with intrinsically safe (entity) connections to Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; intrinsically safe (entity) connections to Class I, [Ex ia] IIC per control drawing 9203QF01; nonincendive / suitable for Class I, Division 2, Groups A, B, C and D, T4 at T ambient of -20°C to 60°C; non-sparking and sparking apparatus (as specified in Section 1.4) for Class I, Zone2, Group IIB, T ambient of -20°C to 60°C, Hazardous (Classified) Locations

FM Approved for:

PR electronics A/S
Roende, Denmark

To verify the availability of the Approved product, please refer to www.approvalguide.com

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

CSA C22.2 No.25-1996	2009
CSA C22.2 No.142-M1987	2009
CSA C22.2 No.213-M1987	2008
CSA E60079-0	2001
CSA E60079-11	2002
CSA E60079-15	2002

Original Project ID: 3035277C

Approval Granted: June 19, 2009

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
091217	April 20, 2010		
111217	December 27, 2011		
RR200030	March 2, 2015		

FM Approvals LLC



J.E. Marquedant
Manager, Electrical Systems

2 March 2015
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

Po	0.77W	IIA or D, G	2.1µF	22.8mH	369µH/Ω
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Uo/Voc	28V	IIC or A, B	80nF	2.69mH	44µH/Ω
Io/Isc	115mA	IIB or C, E, F	640nF	10.8mH	176µH/Ω
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Io/Isc	125mA	IIB or C, E, F	640nF	9.1mH	163µH/Ω
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Uo/Voc	28V	IIC or A, B			
Io/Isc	135mA	IIB or C, E, F	640nF	7.8mH	150µH/Ω
Po	0.95W	IIA or D, G	2.1µF	15.1mH	301µH/Ω

Special Conditions of Use:

- 1) In Class I, Division 2 installations, the subject equipment shall be mounted within a too-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70).
- 2) In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70). Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. Where installed in dry, clean, indoor locations, the enclosure shall, at a minimum, meet the requirements of IP4X.
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Class 3600	2011
Class 3610	2007
Class 3611	2004
Class 3810	2005
ANSI/ISA-12.00.01	1999
ANSI/ISA-12.02.01	2002
ANSI/ISA-82.02.01	2004

Original Project ID: 3035277

Approval Granted: June 19, 2009

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
111217	December 27, 2011		
RR200030	March 2, 2015		

FM Approvals LLC



J.E. Marquedant
Manager, Electrical Systems

2 March 2015

Date Date

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