

January 16, 2015

The attached documentation are certificates associated with AAA Products International intrinsically safe coil. The intrinsically safe coil is sold as an assembly which consists of a solenoid operator, coil, nut and din connector. The entire assembly is AAA part number V-564 and is Nass number 1433 72-340/5146. The Nass coil operator is number 1259 06-400/5146. The coil cannot be purchased separately.

| AAA Part Number | Voltage | Nass Number |
|-----------------|-------------|------------------|
| V-564 | 24 Volt D-C | 1259 06-400/5146 |

Russ McKenna
Engineer



Certificate of Compliance

Certificate: 1141987

Master Contract: 152603

Project: 2659793

Date Issued: September 6, 2013

Issued to: Nass Magnet GmbH
Eckenerstrasse 4 - 6
Hannover, 30179
Germany
Attention: Rudolf Barth

The products listed below are eligible to bear the CSA Mark shown



D. Simpson Certifier

Issued by: D. Simpson Certifier

PRODUCTS

CLASS 3218 06 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus - For Hazardous Locations

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III:

- Solenoid operators, Model 1259 06 400/5142 /5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $Li = 0$, $Ci = 0$ when installed per installation dwg 1259 06 400; Max Ambient 50 Deg C.

- Solenoid operators, Model 1259 06 450/5142 /5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $Li = 0$, $Ci = 0$ when installed per installation dwg 1259 06 450; Max Ambient 50 Deg C.

- Solenoid operators, Model 1259 16 450/5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $Li = 0$, $Ci = 0$ when installed per installation dwg 1259 16 450; Max Ambient 50 Deg C.

- Solenoid operator, Model 1259 50 450/5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $Li = 0$, $Ci = 0$ when installed per installation dwg 1259 50 450; Ambient - 40 to +85 Deg. C.



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- Solenoid operator, Model EN-3198-22-XISC-D024; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $L_i = 0$, $C_i = 0$ when installed per installation dwg 1259 12 450; Max Ambient 50 Deg C.

- Solenoid operator, Model EN-3198-22-XISC-44-D024; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $L_i = 0$, $C_i = 0$ when installed per installation dwg 108-060-0022; Ambient -40 to +85 Deg C.

- Solenoid operator, Model VA10647; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $L_i = 0$, $C_i = 0$ when installed per installation dwg 108-060-0085; Ambient -40 to +85 Deg C.

- Solenoid operator, Models 3039; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of: $V_{max} = 28V$, $I_{max} = 115mA$, $L_i = 0$, $C_i = 0$ when installed per installation dwg 1259 15 400; Max Ambient 50 Deg C.

Note: The above Solenoid Operators are **not** for use with "Safety Valves" and are intended for use but not limited for use with Process and Industrial Control equipment only.

APPLICABLE REQUIREMENTS

- | | |
|--------------------------|---|
| CAN/CSA-C22.2 No. 0-M91 | General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 14-05 | Industrial Control Equipment |
| C22.2 No. 25-1966 | Enclosures for Use in Class II, Groups E, F and G Hazardous Locations |
| CAN/CSA-C22.2 No. 157-92 | Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations |



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

| | |
|------------------------|------|
| Class 3600 | 1998 |
| Class 3610 | 2010 |
| Class 3810 | 1989 |
| Including Supplement 1 | 1995 |

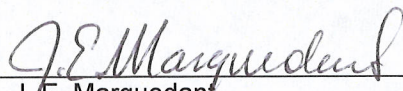
Original Project ID: 3015004

Approval Granted: April 30, 2004

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|-------------------|---------------|------|
| 100514 | May 25, 2010 | | |
| 130131 | February 12, 2013 | | |

FM Approvals LLC



J.E. Marquedant
Group Manager, Electrical

12 February 2013
Date