



# Certificate of Compliance

**Certificate:** 70156877

**Master Contract:** 204450

**Project:** 80039653


**Date Issued:** July 10, 2020

**Issued to:** Sun Yeh Electrical Ind. Co., Ltd.  
No 68 Lane 854, Sec.1, Shatian Rd  
Shejiau Vil, Dadu Dist.,  
Taichung City, . 43244 Taiwan

**Attention:** Ms. Vicky Lin

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:**   
Eddie Lee

## PRODUCTS

CLASS - 3228 02 VALVES-Actuators - For Hazardous Locations

CLASS - 3228 82 VALVES-Actuators - For Hazardous Locations-Certified to U.S. Standard

**Class I, Division 1, Groups C, D T4**

**Class II, Division 1, Groups E, F, G T130°C**

**Type 4X**

**Ex db IIB T4 Gb (For Canada)**

**Class I, Zone 1, AEx db IIB T4 Gb (For US)**

**Ex tb IIIC T130°C Db (For Canada)**

**Zone 21, AEx tb IIIC T130°C Db (For US)**

**IP68 (72h, 7m)**

OME Model Series Explosion-proof Quarter-Turn Actuators, rated 240 Vac max, 10.0 A max,  $-30^{\circ}\text{C} \leq \text{Tamb} \leq 70^{\circ}\text{C}$ , T4, Enclosure Type 4X, IP 68 (72h, 7m).



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Where:

OME-X1-X2-X3-X4

OM stands for Quarter-Turn Actuator.

E stands for Explosion-proof.

X1 stands for type (1, A, AM, 2, 3, 4, 5, 6, 7, 8).

X2 stands for voltage (D12 stands for 12VDC, 12 stands for 12VAC, D24 stands for 24VDC, 24 stands for 24VAC, 100 stands for 100VAC, N=110 to 120 stands for one specific voltage among 110 ~ 120VAC, 200 stands for 200VAC, N=220 to 240 stands for one specific voltage among 220 ~ 240VAC) .

X3 stands for controlling method (M stands for Modulating, F stands for Floating).

X4 Duty rating (%): 30, 75.

**Duty cycle information**

Models Series	Duty Cycle
OME-1, OME-1-M, OME-1-AM	30% (12 sec ON, 28 sec OFF), or 30% (20 sec ON, 46 sec OFF), or 75% (8 sec ON, 3 sec OFF), or 75% (12 sec ON, 4 sec OFF)
OME-2	30% (12 sec ON, 28 sec OFF), or 30% (15 sec ON, 35 sec OFF), or 75% (15 sec ON, 5 sec OFF)
OME-3	30% (15 sec ON, 35 sec OFF), or 30% (22 sec ON, 51 sec OFF), or 75% (22 sec ON, 7 sec OFF)
OME-4	30% (16 sec ON, 37 sec OFF), or 75% (16 sec ON, 5 sec OFF)
OME-5	30% (22 sec ON, 51 sec OFF), or 75% (22 sec ON, 7 sec OFF)
OME-6	30% (28 sec ON, 65 sec OFF), or 75% (28 sec ON, 9 sec OFF)
OME-7	30% (46 sec ON, 107 sec OFF), or 75% (46 sec ON, 15 sec OFF)
OME-8	30% (46 sec ON, 107 sec OFF), or 75% (46 sec ON, 15 sec OFF)

**CONDITIONS OF ACCEPTIBILITY**

1. The manufacturer recommends that any cable entry device used must maintain the IP rating of the enclosure.
2. The end user must ensure that any cable and cable entry devices used with the equipment are suitable for use at temperatures above 90°C.
3. The flamepaths in this equipment are different to the standard dimensions given in IEC 60079-1. If specific flamepath dimensions are required then the manufacturer (OEM) must be contacted.



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**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-10 <i>August 2011</i>	General requirements — Canadian Electrical Code, Part II
CSA C22.2 No. 30-M1986 <i>(Reaffirmed 2012)</i>	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA C22.2 No. 25-17 <i>July 2017</i>	Enclosures for Use in Class II, Division 1, Groups E, F, and G Hazardous Locations
CSA C22.2 No. 94.2-07	Enclosures for Electrical Equipment, Environmental Considerations
CSA C22.2 No. 139-10	Electrically Operated Valves
CAN/CSA-C22.2 No. 60079-0:15 <i>October 2015</i>	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-1:16 <i>May 2016</i>	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA-C22.2 No. 60079-31:15 <i>Second Edition (October 2015)</i>	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure “t”
CAN/CSA C22.2 No. 60529:16	Degrees of Protection Provided By Enclosures (IP Code)
FM 3600 <i>December 2011</i>	Approval Standard for Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements
FM 3615 <i>August 2006</i>	Approval Standard for Explosionproof Electrical Equipment General Requirements
FM 3616 <i>December 2011</i>	Approval Standard for Dust ignition proof Electrical Equipment General Requirements
NEMA ANSI/IEC 60529-2004 <i>(Reaffirmed 2011)</i>	Degrees of Protection Provided By Enclosures (IP Code)
ANSI/UL 50E <i>First Edition (September 4, 2007)</i>	Enclosures for Electrical Equipment, Environmental Considerations
UL 429 <i>Sixth Edition (November 11, 2009)</i>	Electrically Operated Valves
ANSI/UL 60079-0 <i>Six Edition (July 26, 2013)</i>	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1 <i>Seventh Edition (September 18, 2016)</i>	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/UL 60079-31 <i>Second Edition (2015.06.12)</i>	UL Standard for Safety Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
80039653	July 10, 2020	Update report to: Expand voltage ratings. Change opening indicator and its cover. Change original manual base into with-position-indicator type. Update assembly drawings. Alternate the length of 4 <sup>th</sup> driving shaft of OME-1 series and update drawing.
70183685	March 13, 2019	Update to report 70156877 for OME Model Series to add two alternate cement materials: SAUERREISEN DW-30 and LOCTITE 5615.
70156877	May 30, 2018	Original certification of OME Model Series Explosion-proof Quarter-Turn Actuator models OME-1, OME-A, OME-AM, OME-2, OME-3, OME-4, OME-5, OME-6, OME-7, OME-8 series for use in Class I, Division 1, Groups C, D; Class II, Division 1, Groups E, F, G; Ex db IIB; Ex tb IIIC; Class I, Zone 1, AEx db IIB; and Zone 21, AEx tb IIIC hazardous locations.