



# Certificate of Compliance

**Certificate:** 80026195

**Master Contract:** 255095

**Project:** 80026195

**Date Issued:** 2021-12-07

**Issued To:** Dynamic Corporation Limited  
No. 6 Heng Road Liufangyuan  
East-lake High-Tech Development Zone  
Wuhan, Hubei, 430205  
China

**Attention:** Hanqiao Zeng

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*

*Morton Ma*  
**Issued by:** Morton Ma



## PRODUCTS

**CLASS - C322802 - VALVES Actuators - For Hazardous Locations**

**CLASS - C322882 - VALVES Actuators - For Hazardous Locations-Certified to U.S. Standards**

**Class I, Division 1, Groups C and D T5/T6**

**Ex db IIC T5/T6 Gb**

**Class I, Zone 1, AEx db IIC T5/T6 Gb**

## APPLICABLE REQUIREMENTS

DCL-Ex 05/10/20/40/60 series(Z/S/M series) explosion-proof actuator with Temp. Code is T5/T6,  $-25^{\circ}\text{C} \leq \text{Tamb} \leq 55^{\circ}\text{C}/50^{\circ}\text{C}$ , Motorized, Part-turn 90 Deg, General purpose, 6000 cycles, enclosure TYPE 4X for indoor and outdoor.



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The rating as below:

Series	Models	Vol. [V]	Fre. [Hz]	Rat. Torque [N-m]	Duty cycle
05 Series (Z)	DCL-EX05A	24 Vac	50/60	30/50	70%
		24 Vac	50/60		70%
		110 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX05B	24 Vac	50/60		70%
		24 Vac	50/60		70%
		110 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX05C	24 Vac	50/60		70%
		24 Vac	50/60		70%
		110 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX05D	110 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX05E	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX05F	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX05G	24 Vdc	--		70%
	DCL-EX05GEY	24 Vdc	--		70%
10 Series (S)	DCL-EX10A	24 Vac	50/60	100	70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX10B	24 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX10C	24 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX10D	110 Vac	50/60		70%
		220 Vac	50/60		70%



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	DCL-EX10E	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX10F	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX10G	24 Vdc	--		70%
	DCL-EX10GEY	24 Vdc	--		70%
20 series (S)	DCL-EX20A	110 Vac	50/60	200	70%
		220 Vac	50/60		70%
	DCL-EX20B	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX20C	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX20D	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX20E	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX20F	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX20G	24 Vdc	--		70%
	DCL-EX20GEY	24 Vdc	--		70%
40 Series (M)	DCL-EX40A	110 Vac	50/60	400	70%
		220 Vac	50/60		70%
	DCL-EX40B	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX40C	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX40D	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX40E	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX40F	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX40G	24 Vdc	--		70%
	DCL-EX40GEY	24 Vdc	--		70%
60 Series (M)	DCL-EX60A	110 Vac	50/60	600	70%
		220 Vac	50/60		70%
	DCL-EX60B	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX60C	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX60D	110 Vac	50/60		70%
		220 Vac	50/60		70%
	DCL-EX60E	110 Vac	50/60		70%
		110 Vac	50/60		70%



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	DCL-EX60F	220 Vac	50/60		70%
		110 Vac	50/60		70%
		220 Vac	50/60		70%

### **CONDITIONS OF ACCEPTABILITY:**

1. The cable entry point or branching point is higher than 60°C, the end user shall follow user manual and select the properly cable, cable gland or conductors in conduit.
2. The minimum yield strength and minimum tensile strength of special fastener are 450MPa and 700MPa.
3. The maximum load allowed is 50Nm (DCL-Ex 05 series), 100Nm (DCL-Ex 10 series), 200Nm (DCL-Ex 20 series), 400Nm (DCL-Ex 40 series) and 600Nm (DCL-Ex 60 series).
4. The lens fixed plate cannot be loosed or removed any time.
5. When the products are intended to be installed in the hazardous locations classified according to division rules , the TSE3854DS-W potted compound cannot be used to an atmosphere containing Acetic Acid (Glacial) saturated vapors, and the WCC-87 potted compound cannot be used to an atmosphere containing saturated vapors as below: Acetic Acid (Glacial), Acetone, Ammonium Hydroxide (20% by weight), ASTM reference fuel C, Diethyl Ether, Ethyl Acetate, Ethylene Dichloride, Furfural, n-Hexane, Methyl Ethyl Ketone, Methanol, 2-Nitropropane and Toluene.
6. Temperature code depends on ambient temperature as follows:

Type	T-code	Ambient Temperature
DCL-Ex 05/10/20/40/60 series(Z/S/M series) explosion-proof actuator	T5	-25°C - +55°C
	T6	-25°C - +50°C

### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 30-M1986 (Reaffirmed 2016)	Explosion-proof enclosures for use in class I hazardous locations
CAN/CSA C22.2 No. 145-11 (Reaffirmed 2015)	Electric Motors and Generators for Use in Hazardous (Classified) Locations
CSA C22.2 No. 139-13	Electrically Operated Valves
CSA C22.2 No.60079-0-2019	Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No.60079-1-2016	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
UL 674 Fifth Edition	Electric Motors and Generators for Use in Hazardous (Classified) Locations
UL 1203-2013	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
UL 60079-0:2020	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-1:2020	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”
UL 429 (Seventh Edition)	Electrically Operated Valves



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## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed 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 U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

- Manufacturer's name: "DYNAMIC CORPORATION LIMITED", or CSA Master Contract Number "255095", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Hazardous Locations Designation: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serials number, traceable to year and month of manufacture.
- The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- Temperature code rating: T5/T6
- Ambient temperature range: -25°C to +55°C/50°C
- Complete electrical rating: As specified in the PRODUCTS section, above.
- Enclosure Type: TYPE 4X
- Rated load: 30Nm/50Nm/100Nm/200Nm/400Nm/600Nm
- Warning:
  - WARNING - TO PREVENT IGNITION OF FLAMMABLE GASES, VAPORS OR DUST, DO NOT REMOVE COVER WHILE CIRCUITS ARE LIVE
  - AVERTISSEMENT - POUR ÉVITER L'INFLAMMATION DES GAZ INFLAMMABLES, DE VAPEURS OU DE POUSSIÈRE, NE PAS RETIRER LE COUVERCLE PENDANT QUE LE CIRCUIT EST SOUS TENSION
  - WARNING - A SEAL SHALL BE INSTALLED WITHIN 500 MM OF THE ENCLOSURE
  - AVERTISSEMENT - UN SCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 500 MM DU BOÎTIER

Notes:

Products certified under Class C322802, C322882 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80026195	2021-12-07	Original Certification for DCL-Ex 05/10/20/40/60 series (Z/S/M series) explosion-proof actuator