



Certificate of Compliance

Certificate: 2575559

Master Contract: 255095

Project: 70207876

Date Issued: 2021-06-22

Issued to: Dynamic Corporation Limited
No. 6 Heng Road Liufangyuan
East-lake High-Tech Development Zone
Wuhan, 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.



Issued by: Field Li

PRODUCTS

CLASS - C3221 02 - VALVES-General Purpose Actuators

CLASS - C3221 82 - VALVES-Actuators - Certified to US Standards

Electric valve actuators, Motorized, General purpose, 6000 cycles, Type 4X Enclosure, Ambient temperature -25 to 55 Deg C

Series	Models	V	Hz	A	Torque [N-m]	Duty cycle	Operating Time [s]	Signal Input		Signal Output	
								VDC	mA	VDC	mA
02 series	DCL-02A	24 Vac	50/60	1.56	16	60%	15/12	--	--	--	--
		110 Vac	50/60	0.30	16	60%	15/12	--	--	--	--
		220 Vac	50/60	0.19	16	60%	15/12	--	--	--	--
	DCL-02B	24 Vac	50/60	1.56	16	60%	15/12	--	--	--	--
		110 Vac	50/60	0.30	16	60%	15/12	--	--	--	--
		220 Vac	50/60	0.19	16	60%	15/12	--	--	--	--
	DCL-02C	24 Vac	50/60	1.56	16	60%	15/12	--	--	--	--
		110 Vac	50/60	0.30	16	60%	15/12	--	--	--	--
		220 Vac	50/60	0.19	16	60%	15/12	--	--	--	--
	DCL-02E	110 Vac	50/60	0.30	16	60%	15/12	0-10	4-20	24	4-20



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		220 Vac	50/60	0.19	16	60%	15/12	0-10	4-20	24	4-20
05 series	DCL-02G	24 Vdc	--	0.70	16	60%	15	--	--	--	--
	DCL-05A	24 Vac	50/60	1.56	50	70%	25/21	--	--	--	--
		24 Vac	50/60	1.56	30	70%	12/10	--	--	--	--
		110 Vac	50/60	0.27	50	70%	25/21	--	--	--	--
		110 Vac	50/60	0.27	30	70%	12/10	--	--	--	--
		220 Vac	50/60	0.19	50	70%	25/21	--	--	--	--
		220 Vac	50/60	0.19	30	70%	12/10	--	--	--	--
	DCL-05B	24 Vac	50/60	1.56	50	70%	25/21	--	--	--	--
		24 Vac	50/60	1.56	30	70%	12/10	--	--	--	--
		110 Vac	50/60	0.27	50	70%	25/21	--	--	--	--
		110 Vac	50/60	0.27	30	70%	12/10	--	--	--	--
		220 Vac	50/60	0.19	50	70%	25/21	--	--	--	--
		220 Vac	50/60	0.19	30	70%	12/10	--	--	--	--
	DCL-05C	24 Vac	50/60	1.56	50	70%	25/21	--	--	--	--
		24 Vac	50/60	1.56	30	70%	12/10	--	--	--	--
		110 Vac	50/60	0.27	50	70%	25/21	--	--	--	--
		110 Vac	50/60	0.27	30	70%	12/10	--	--	--	--
		220 Vac	50/60	0.19	50	70%	25/21	--	--	--	--
		220 Vac	50/60	0.19	30	70%	12/10	--	--	--	--
	DCL-05D	110 Vac	50/60	0.27	50	70%	25/21	--	--	--	--
		110 Vac	50/60	0.27	30	70%	12/10	--	--	--	--
		220 Vac	50/60	0.19	50	70%	25/21	--	--	--	--
		220 Vac	50/60	0.19	30	70%	12/10	--	--	--	--
	DCL-05E	110 Vac	50/60	0.27	50	70%	25/21	0-10	4-20	24	4-20
		220 Vac	50/60	0.19	50	70%	25/21	0-10	4-20	24	4-20
	DCL-05F	110 Vac	50/60	0.27	50	70%	25/21	--	--	24	4-20
		220 Vac	50/60	0.19	50	70%	25/21	--	--	24	4-20
	DCL-05G	24 Vdc	--	1.28	50	70%	25	--	--	--	--
	DCL-05GEY	24 Vdc	--	1.28	50	70%	25	0-10	4-20	24	4-20
10 series	DCL-10A	24 Vac	50/60	2.45	100	70%	30/25	--	--	--	--
		110 Vac	50/60	0.64	100	70%	30/25	--	--	--	--
		220 Vac	50/60	0.32	100	70%	30/25	--	--	--	--
	DCL-10B	24 Vac	50/60	2.45	100	70%	30/25	--	--	--	--
		110 Vac	50/60	0.64	100	70%	30/25	--	--	--	--
		220 Vac	50/60	0.32	100	70%	30/25	--	--	--	--
	DCL-10C	24 Vac	50/60	2.45	100	70%	30/25	--	--	--	--
		110 Vac	50/60	0.64	100	70%	30/25	--	--	--	--
		220 Vac	50/60	0.32	100	70%	30/25	--	--	--	--
	DCL-10D	110 Vac	50/60	0.64	100	70%	30/25	--	--	--	--
		220 Vac	50/60	0.32	100	70%	30/25	--	--	--	--
	DCL-10E	110 Vac	50/60	0.64	100	70%	30/25	0-10	4-20	24	4-20
		220 Vac	50/60	0.32	100	70%	30/25	0-10	4-20	24	4-20



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20 series	DCL-10F	110 Vac	50/60	0.64	100	70%	30/25	--	--	24	4-20
		220 Vac	50/60	0.32	100	70%	30/25	--	--	24	4-20
	DCL-10G	24 Vdc	--	2.03	100	70%	30	--	--	--	--
	DCL-10GE	24 Vdc	--	1.80	100	70%	30	0-10	4-20	24	4-20
	DCL-10GE(S)	24 Vdc	--	1.0	50	70%	30	0-10	4-20	24	4-20
	DCL-10GEY	24 Vdc	--	2.03	100	70%	30	0-10	4-20	24	4-20
	DCL-20A	24 Vac	50/60	4.26	200	70%	30/25	--	--	--	--
		110 Vac	50/60	0.73	200	70%	30/25	--	--	--	--
		220 Vac	50/60	0.45	200	70%	30/25	--	--	--	--
	DCL-20B	24 Vac	50/60	4.26	200	70%	30/25	--	--	--	--
		110 Vac	50/60	0.73	200	70%	30/25	--	--	--	--
		220 Vac	50/60	0.45	200	70%	30/25	--	--	--	--
	DCL-20C	24 Vac	50/60	4.26	200	70%	30/25	--	--	--	--
		110 Vac	50/60	0.73	200	70%	30/25	--	--	--	--
		220 Vac	50/60	0.45	200	70%	30/25	--	--	--	--
	DCL-20D	110 Vac	50/60	0.73	200	70%	30/25	--	--	--	--
		220 Vac	50/60	0.45	200	70%	30/25	--	--	--	--
	DCL-20E	110 Vac	50/60	0.73	200	70%	30/25	0-10	4-20	24	4-20
		220 Vac	50/60	0.45	200	70%	30/25	0-10	4-20	24	4-20
	DCL-20F	110 Vac	50/60	0.73	200	70%	30/25	--	--	24	4-20
		220 Vac	50/60	0.45	200	70%	30/25	--	--	24	4-20
	DCL-20G	24 Vdc	--	3.57	200	70%	30	--	--	--	--
	DCL-20GEY	24 Vdc	--	3.0	200	70%	30	0-10	4-20	24	4-20
40 series	DCL-40A	24 Vac	50/60	7.2	400	70%	30/25	--	--	--	--
		110 Vac	50/60	1.22	400	70%	30/25	--	--	--	--
		220 Vac	50/60	0.64	400	70%	30/25	--	--	--	--
	DCL-40B	24 Vac	50/60	7.2	400	70%	30/25	--	--	--	--
		110 Vac	50/60	1.22	400	70%	30/25	--	--	--	--
		220 Vac	50/60	0.64	400	70%	30/25	--	--	--	--
	DCL-40C	24 Vac	50/60	7.2	400	70%	30/25	--	--	--	--
		110 Vac	50/60	1.22	400	70%	30/25	--	--	--	--
		220 Vac	50/60	0.64	400	70%	30/25	--	--	--	--
	DCL-40D	110 Vac	50/60	1.22	400	70%	30/25	--	--	--	--
		220 Vac	50/60	0.64	400	70%	30/25	--	--	--	--
	DCL-40E	110 Vac	50/60	1.22	400	70%	30/25	0-10	4-20	24	4-20
		220 Vac	50/60	0.64	400	70%	30/25	0-10	4-20	24	4-20
	DCL-40F	110 Vac	50/60	1.22	400	70%	30/25	--	--	24	4-20
		220 Vac	50/60	0.64	400	70%	30/25	--	--	24	4-20
	DCL-40G	24 Vdc	--	5.13	400	70%	30	--	--	--	--
	DCL-40GE	24 Vdc	--	3.55	400	70%	30	0-10	4-20	24	4-20



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	DCL-40GE(S)	24 Vdc	--	1.70	200	70%	30	0-10	4-20	24	4-20
	DCL-40GEY	24 Vdc	--	5.13	400	70%	30	0-10	4-20	24	4-20
60 series	DCL-60A	110 Vac	50/60	1.27	600	70%	45/37	--	--	--	--
		220 Vac	50/60	0.66	600	70%	45/37	--	--	--	--
	DCL-60B	110 Vac	50/60	1.27	600	70%	45/37	--	--	--	--
		220 Vac	50/60	0.66	600	70%	45/37	--	--	--	--
	DCL-60C	110 Vac	50/60	1.27	600	70%	45/37	--	--	--	--
		220 Vac	50/60	0.66	600	70%	45/37	--	--	--	--
	DCL-60D	110 Vac	50/60	1.27	600	70%	45/37	--	--	--	--
		220 Vac	50/60	0.66	600	70%	45/37	--	--	--	--
	DCL-60E	110 Vac	50/60	1.27	600	70%	45/37	0-10	4-20	24	4-20
		220 Vac	50/60	0.66	600	70%	45/37	0-10	4-20	24	4-20
	DCL-60F	110 Vac	50/60	1.27	600	70%	45/37	--	--	24	4-20
		220 Vac	50/60	0.66	600	70%	45/37	--	--	24	4-20
100 series	DCL-100A	110 Vac	50/60	2.39	1000	70%	30/25	--	--	--	--
		220 Vac	50/60	1.16	1000	70%	30/25	--	--	--	--
	DCL-100B	110 Vac	50/60	2.39	1000	70%	30/25	--	--	--	--
		220 Vac	50/60	1.16	1000	70%	30/25	--	--	--	--
	DCL-100C	110 Vac	50/60	2.39	1000	70%	30/25	--	--	--	--
		220 Vac	50/60	1.16	1000	70%	30/25	--	--	--	--
	DCL-100D	110 Vac	50/60	2.39	1000	70%	30/25	--	--	--	--
		220 Vac	50/60	1.16	1000	70%	30/25	--	--	--	--
	DCL-100E	110 Vac	50/60	2.39	1000	70%	30/25	0-10	4-20	24	4-20
		220 Vac	50/60	1.16	1000	70%	30/25	0-10	4-20	24	4-20
	DCL-100F	110 Vac	50/60	2.39	1000	70%	30/25	--	--	24	4-20
		220 Vac	50/60	1.16	1000	70%	30/25	--	--	24	4-20
160 series	DCL-160A	110 Vac	50/60	2.36	1600	70%	48/40	--	--	--	--
		220 Vac	50/60	1.18	1600	70%	48/40	--	--	--	--
	DCL-160B	110 Vac	50/60	2.36	1600	70%	48/40	--	--	--	--
		220 Vac	50/60	1.18	1600	70%	48/40	--	--	--	--
	DCL-160C	110 Vac	50/60	2.36	1600	70%	48/40	--	--	--	--
		220 Vac	50/60	1.18	1600	70%	48/40	--	--	--	--
	DCL-160D	110 Vac	50/60	2.36	1600	70%	48/40	--	--	--	--
		220 Vac	50/60	1.18	1600	70%	48/40	--	--	--	--
	DCL-160E	110 Vac	50/60	2.36	1600	70%	48/40	0-10	4-20	24	4-20
		220 Vac	50/60	1.18	1600	70%	48/40	0-10	4-20	24	4-20
	DCL-160F	110 Vac	50/60	2.36	1600	70%	48/40	--	--	24	4-20
		220 Vac	50/60	1.18	1600	70%	48/40	--	--	24	4-20
250 series	DCL-250A	110 Vac	50/60	2.46	2500	70%	75/63	--	--	--	--
		220 Vac	50/60	1.19	2500	70%	75/63	--	--	--	--
	DCL-250B	110 Vac	50/60	2.46	2500	70%	75/63	--	--	--	--
		220 Vac	50/60	1.19	2500	70%	75/63	--	--	--	--



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	DCL-250C	110 Vac	50/60	2.46	2500	70%	75/63	--	--	--	--
		220 Vac	50/60	1.19	2500	70%	75/63	--	--	--	--
	DCL-250D	110 Vac	50/60	2.46	2500	70%	75/63	--	--	--	--
		220 Vac	50/60	1.19	2500	70%	75/63	--	--	--	--
	DCL-250E	110 Vac	50/60	2.46	2500	70%	75/63	0-10	4-20	24	4-20
		220 Vac	50/60	1.19	2500	70%	75/63	0-10	4-20	24	4-20
	DCL-250F	110 Vac	50/60	2.46	2500	70%	75/63	--	--	24	4-20
		220 Vac	50/60	1.19	2500	70%	75/63	--	--	24	4-20

Nomenclature:

DCL-XXXX

- DCL: Trademark;
- XXX: The Code number of Torque.
- Y: The Code of Control Circuit Type, may be the word “A”, “B”, “C”, “D”, “E”, “F”, “G”, “GE” and “GEY” mean as below:
 - “A” Type: with limited switches, output full “open”/ “close” signals from the same circuit of the supply input;
 - “B” Type: with limited switches, includes a separate passive circuit other than the supply circuit for output full “open”/ “close” signals;
 - “C” Type: with limited switches, includes a separate passive circuit for output “open”/ “close” ratio signals;
 - “D” Type: with limited switches, includes a separate passive circuit other than the supply circuit for output full “open”/ “close” signals, and includes a separate passive circuit for output “open”/ “close” ratio signals;
 - “E” Type: with a Control Module Box, “open”/ “close” ratio controlled by external signals, output “open”/ “close” ratio signals;
 - “F” Type: with limited switches, with a Control Module Box for output “open”/ “close” ratio signals.
 - “G” Type: DC input, with DC Motor, permanent magnet, with carbon brush, with limited switches, output full “open”/ “close” signal from a separate external circuit other than the supply circuit;
 - “GE” Type: DC input, with DC Motor (brushless), with a Drive Box, “open”/ “close” ratio controlled by external signals, output “open”/ “close” ratio signals.
 - “GEY” Type: DC input, with DC Motor, permanent magnet, with carbon brush, with a Control Module Box, “open”/ “close” ratio controlled by external signals, output “open”/ “close” ratio signals.;

Notes:

- Suffix may be added for features not affecting certification.
- Signal input terminals are intended to be connected to a Class 2 circuit only.
- Certified only as a component of other certified equipment, where the suitability of the combination is to be determined.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 139-13
UL 429 (Seventh Edition)

- Electrically Operated Valves
- Electrically Operated Valves



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

Project	Date	Description
70207876	2021-06-22	<p>Update report 2575559 to include the following alterations:</p> <ol style="list-style-type: none">1. Changed the ambient temperature from 0 to 40 Deg C to -25 to 55 Deg C;2. Changed the rated output torque for DCL-02 series from 18 N·m to 16 N·m;3. Changed the operating time of DCL-05 (50 N·m) series from “20/17 sec” to “25/21 sec”, and DCL-05 (30N·m) series from “10/8 sec” to “12/10 sec”;4. Changes to Model Designations of the Control Module Boxes, Changed SF-LB to SF-LC; Changed SF-ZB to SF-ZC; Added an alternative designation WF-ZC for WF-ZB; Added an alternative designation WF-LC for WF-LB5. Add an alternative manufacturer for AC motors and DC motors(with brush), with no changes to the construction and critical components.6. Add an alternative lead wire type “AWM/1332, 300V, 200 °C” for all motors.7. Added new models DCL-05GEY, DCL-10GEY, DCL-20GEY and DCL-40GEY, rated 24Vdc, which are similar with the models DCL-05G, DCL-10G, DCL-20G and DCL-40G respectively.
70134705	2018-03-08	<p>Update report 2575559 to include the following alterations:</p> <ol style="list-style-type: none">1. Add a new model DCL-02E, which enclosure and construction are similar to existed model DCL-02A, and control circuit is similar to existed model DCL-10E.2. Add DC actuators DCL-02G, DCL-10G, DCL-20G and DCL-40G, which enclosures and constructions are similar to existed models DCL-02A/10A/20A/40A, and motors are DC motors, permanent magnet, with brush.3. Add DC actuators DCL-10GE and 40GE, which enclosures and constructions are similar to existed models DCL-10E/40E, and motors are DC motors, brushless.4. Change the motor start capacitors (item13-i) for models rated 24Vac, DCL-05/10/20/40 series.5. Replace the ON/OFF switch (item 9).



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70083326	2016-06-24	Update report 255095-2575559 to include the following alterations: 1. Revise the format of nameplate; 2. Revise the duty cycle of some models from 80% to 70%; 3. Update report to the latest version C22.2 No. 139-13 and UL 429(seventh edition)
2575559	2013-06-06	Electric valve actuators, include 02, 05, 10, 20, 40, 60, 100, 160 and 250 series, and have A, B, C, D, E and F types of control circuit.