



Certificate of Compliance

Certificate: 70170959

Master Contract: 271899

Project: 70207409

Date Issued: 2020-06-16

Issued To: RINGSPANN GmbH
Schaberweg 30-34
Bad Homburg, Hessen, 61348
Germany

Attention: Ernst Fritzemeier

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: Franklin ten Haaf
Franklin ten Haaf

PRODUCTS

CLASS - C321107 - INDUSTRIAL CONTROL EQUIPMENT Miscellaneous Apparatus

CLASS - C321187 - INDUSTRIAL CONTROL EQUIPMENT Miscellaneous Apparatus - Certified to US Standards

Electromechanical Brake Systems Types, maximum duty cycle: 600 switches / hour (3 seconds ON, 3 seconds OFF), enclosure type 3R:

- DH 012 FEM-440, 110..120 VAC, 0.6 A, 50/60 Hz, 15 W
- DH 012 FEM-450, 230..240 VAC, 0.6 A, 50/60 Hz, 15 W
- DV 020 FEM-460, 230..240 VAC, 0.6 A, 50/60 Hz, 15 W



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Electromechanical Brake Systems, maximum duty cycle: 360 switches / hour (5 seconds ON, 5 seconds OFF), enclosure type 3R:

- EV/EH 018 FEM/EFM-240, 220...240 VAC, 0.5A, 50/60Hz, 15 W
- EV/EH 018 FEM/EFM-480, 380...480 VAC, 0.5A, 50/60Hz, 30 W
- EV/EH 024 FEM/EFM-240, 220...240 VAC, 0.6A, 50/60Hz, 20 W
- EV/EH 024 FEM/EFM-480, 380...480 VAC, 0.5A, 50/60Hz, 20 W
- EV/EH 028 FEM/EFM-240, 220...240 VAC, 0.5A, 50/60Hz, 15 W
- EV/EH 028 FEM/EFM-480, 380...480 VAC, 0.5A, 50/60Hz, 20 W
- EV/EH 038 FEM/EFM-240, 220...240 VAC, 0.5A, 50/60Hz, 20 W
- EV/EH 038 FEM/EFM-480, 380...480 VAC, 0.6A, 50/60Hz, 25 W

Notes:

1. Solely electrical safety has been evaluated;
2. The type designation may have suffixes indicating mechanical details;
3. The FEM brake is of the normally closed (NC) type. The EFM brake is of the normally open (NO) type;

APPLICABLE REQUIREMENTS

CSA C22.2 No. 14	- 18	- Industrial Control Equipment
CSA C22.2 No. 94.2	- 15	- Enclosures for electrical equipment, environmental considerations
UL Std. No. 508	- 18 th Edition	- Industrial Control Equipment.
UL Std. No. 50E	- 2 nd Edition	- Enclosures for electrical equipment, environmental considerations
CSA/CSA-C22.2 No. 60529 -16		- Degrees of protection provided by enclosures (IP Code)



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
70207409	2020-06-16	Update to report 70170959 to add electronic Brake Systems Series EH / EV with enclosure Type 3R.
000070170959	2018-11-12	Original cCSAus Certification of electronic Brake Systems Series DH/DV and Series EH/EV with enclosure Type 3R.