



**QPS Evaluation Services Inc**  
 Testing, Certification and Field Evaluation Body  
 Accredited in Canada, the USA, and Internationally

<b>File</b>
<b>LR1422</b>

**CERTIFICATE OF COMPLIANCE**  
**(ISO TYPE 3 CERTIFICATION SYSTEM)**

Issued to	Winkelmann Elektromotoren GmbH & Co. KG
Address	Im Neuen Felde 88-90 29525 Uelzen Germany
Project Number	LR1422-1R1
Product	DC Series Wound, DC Shunt Wound and DC Compound Wound Motors, Flange and/or Foot Mounted
Model Number	See Annex below
Ratings	See Annex below
Applicable Standards	CSA C22.2 No. 100-14 CSA C22.2 No. 60079-0:2015 6 <sup>th</sup> CSA C22.2 No. 60079-1:2011 6 <sup>th</sup> ANSI/UL 60079-0:2015 6 <sup>th</sup> ANSI/UL 60079-1:2009 6 <sup>th</sup> UL1004-1 2 <sup>nd</sup> ed
Factory/Manufacturing Location	Same as Applicant

**Statement of Compliance:** The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.



Issued By: **Dave Adams, P.Eng.**  
 Manager, Hazardous Locations Dept. [Ex. Equipment]

Signature:

Date: December 11, 2018



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**Annex:**

Foot and/or Flange mounted DC shunt, DC series and DC compound wound motor, Model Series d-G

Type d – G N Reg F Z E 10 11 / 2  
 1) 2) 3) 4) 5) 6) 7) 8) 9) 10)

- 1: d = flame proof enclosure
- 2: G series
- 3: N = shunt-wound
- 4: Reg = series connection
- 5: F = flange mounted
- 6: Z = totally enclosed
- 7: E = fan cooled
- 8: 10 = rotor diameter (in mm)
- 9: 11 = stack length (in mm)
- 10: 2 = pole number (2 or 4)

Markings:

Ex db IIC T4 Gb  
 Class 1 Zone 1 AEx db IIC T4 Gb  
 Class 1 Div. 2 Group ABCD T4  
 Tambient -55 °C to 40 °C,

Ratings:

600 Vdc, max. 304 A Max, 22.0 kW Max, 1450 - 3000 rpm  
 Excitation voltage max. 600 Vdc, Insulation Class F, Continuous duty, TEFC, Field installation.

Frame size	Max. power [kW]	Torque [Nm]	Max. current [A]
96	0.5	1.6	63
911	0.8	2.5	63
106	1.0	3.2	140
1011	1.7	5.4	140
1014	2.3	7.3	140
1018	2.9	9.2	304
1310	3.3	10.5	304
1315	5.3	16.9	304
1318	7.0	22.3	304
1712	10.0	31.8	304
1718	12.5	39.8	304
1724	16.5	52.5	304
1730	20.0	63.7	304
2220	26.0	82.8	304
2225	29.0	92.3	304
2230	35.0	111.4	304