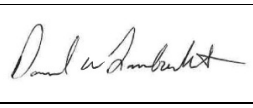
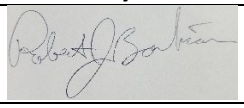
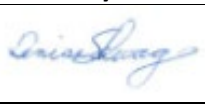
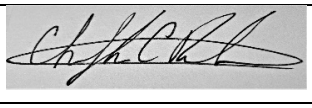
CERTIFICATE OF COMPLIANCE

Report Reference	74293-ONEHCCT60
Issue Date	2022/06/20

This is to certify that representative samples when crimped as specified comply with the Class A connector requirements of IEC 61238-1-3:2018.

[See Page 3 of this report for Test Combinations]

Representative Samples	Compression cable lugs, "DIN" Series Compression cable lugs, tubular “R-series”
Compression Connector Manufacturer	Gustav Klauke GmbH
Compression Tool	*Milwaukee Tool®* Battery-operated Cable Crimper Model M18 ONEHCCT60, with Milwaukee Tool dies

Test Conducted by: Schneider Electric USA	**Test Conducted by:**	**Results Reviewed by:**	**Laboratory Manager: Milwaukee Electric Tool Corp.**
			
David Lambrecht	Robert Barbian	Denise Schwager	Christopher Ritchie
Engineering Manager	Team Lead Eng. Test Lab	Sr. Regulatory Engineer	Manager Engineering Lab
6/17/2022	**6/16/2022**	**6/16/2022**	**6/17/2022**

Summary

Milwaukee Tool carried out type tests according to IEC 61238-1:2018 on compression connectors manufactured by Gustav Klauke GmbH.

Testing was completed in Milwaukee Tool's certified testing laboratory at headquarters in Brookfield, WI and Schneider Electric USA Engineering Laboratory.

Test Dates	Test Laboratory	Tests conducted
2021/04/14 – 2022/01/24; 2021/08/02 – 2022/03/25; 2021/11/08 – 2022/03/31; 2021/12/01 – 2022/06/09; 2022/03/28 – 2022/04/07	Schneider Electric USA Engineering Laboratory 3700 6th Street SW Cedar Rapids, Iowa 52404	Electrical test (IEC 61238-1-3 Clause 6)
2021/09/07; 2021/09/14; 2021/12/30	Milwaukee Tool 13135 W. Lisbon Rd. Brookfield, WI 53005	Mechanical test (IEC 61238-1-3 Clause 7)

Procedure

A summary of the testing methods are as follows:

Sample Preparation

- Samples of each combination were prepared in accordance to IEC 61238-1-3:2018
- Tool, jaw, dies, connector & conductors were prepared according the chart in "Test Combinations"
- Connectors were crimped according to the manufacturers instructions

Testing

- Testing was completed according to IEC 61238-1-3:2018

Test Combinations

Test	Milwaukee Tool Crimp Tool designation	Milwaukee Tool Die designation	Klauke Connector designation (Compression cable lug, DIN 46235)	Conductor nominal cross-sectional area
Electrical Class A and Mechanical Class 1	Model M18 ONEHCCT60	DIN 22 Cu 6	101R8	6 mm^2 Class 1
		DIN 22 Cu 10	102R8	10 mm^2 Class 2
		DIN 22 CU 16	103R12	16 mm^2 Class 1
		DIN 22 CU 16	103R12	16 mm^2 Class 2
		DIN 22 CU 25	104R12	25 mm^2 Class 2
		DIN 22 CU 50	106R16	50 mm^2 Class 2
		DIN 22 CU 150	110R20	150 mm^2 Class 2
		DIN 22 CU 300	113R20	300 mm^2 Class 2

Test	Milwaukee Tool Crimp Tool designation	Milwaukee Tool Die designation	Klauke Connector designation (Compression cable lug, tubular)	Conductor nominal cross-sectional area
Electrical Class A and Mechanical Class 1	Model M18 ONEHCCT60	R 22 CU 300	13R20	300 mm^2 Class 2

Conclusion

After testing of the compression cable lugs as enumerated in Test Combinations, we declare that the crimp performance complies with the Class A and Class 1 connector requirements of IEC 61238-1-3:2018 for all combinations tested.

- End of Test Report -