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**PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国汽车行业标准

QC/T 896-2011

**Interface of electrical machine system for
electric vehicles**

电动汽车用驱动电机系统接口

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The Ministry of Industry and Information Technology has approved 1081 professional standards such as "Water Cooled Tubular Heat Exchangers" (standard number, name, main content and implementation date are detailed in Attachment 1) and 19 non-ferrous and metallurgy professional standard samples (see Attachment 2), including: 258 chemical industry professional standards, 7 petrochemical professional standards, 43 metallurgy professional standards (including 11 standard samples), 148 non-ferrous professional standards (including 8 standard samples), 92 building material professional standards, 11 rare earth professional standards, 3 gold professional standards, 85 textile professional standards, 125 light industry professional standards, 49 automobile professional standards, 177 machinery professional standards and 102 communication professional standards, and announces them now.

The above chemical industry professional standards are published by Chemical Industry Press; the petrochemical professional standards are published by Sinopec Press; the metallurgy professional standards are published by Metallurgical Industry Press; the non-ferrous, gold, rare earth and textile professional standards are published by China Standards Press; the building material professional standards are published by China Building Materials Press; the light industry professional standards are published by China Light Industry Press; the machinery professional standards are published by China Machine Press; the automobile professional standards are published by China Planning Press; and the communication professional standards are published by Posts & Telecom Press.

Attachment: Number, Name and Implementation Date of 49 Automobile Professional Standards

Ministry of Industry and Information Technology of the People's Republic of China

December 20, 2011

Attachment:**Number, Name and Implementation Date of 49 Automobile Professional Standards**

SN	Standard number	Standard name	Replaced standard number	Implementation date
1	QC/T 893-2011	Failure Classification and Assessment of Electrical Machine System for Electric Vehicle		2012-07-01
2	QC/T 894-2011	On Board Measurement Methods for Emissions from Heavy-Duty Hybrid Electric Vehicles		2012-07-01
3	QC/T 895-2011	On-board Conductive Charger for Electric Vehicles		2012-07-01
4	QC/T 896-2011	Interface of Electrical Machine System for Electric Vehicles		2012-07-01

5	QC/T 897-2011	Technical Specification of Battery Management System for Electric Vehicles	2012-07-01
6	QC/T 853-2011	Hexagon Flange Removing Scraps Bolts	2012-07-01
7	QC/T 854-2011	Stud with Double End	2012-07-01
8	QC/T 855-2011	Hexalobular Socket Pan Head Screws	2012-07-01
9	QC/T 856-2011	Hexagon Lobular Socket Countersunk Head Screws	2012-07-01
10	QC/T 857-2011	Weld Studs	2012-07-01
11	QC/T 858-2011	Hexagon Thick Nuts-Fine Thread	2012-07-01
12	QC/T 859-2011	A Type Square Nuts Box	2012-07-01
13	QC/T 860-2011	Hexagon Weld Nuts	2012-07-01
14	QC/T 861-2011	Flat Head Threaded Tubular Hexagon Blind Riveted Nuts	2012-07-01
15	QC/T 862-2011	B Type Square Nuts Box	2012-07-01
16	QC/T 863-2011	Square Weld Nuts	2012-07-01
17	QC/T 864-2011	Hexagonal Nuts with Serrated Flange	2012-07-01
18	QC/T 865-2011	Tapping Rivets	2012-07-01
19	QC/T 866-2011	Hexalobular Socket Raised Countersunk Head Screws	2012-07-01
20	QC/T 867-2011	Round Weld Nuts	2012-07-01
21	QC/T 868-2011	Plastic Hexagon Nuts	2012-07-01
22	QC/T 869-2011	Short-cycle Drawn Arc Welding Studs	2012-07-01
23	QC/T 870-2011	Double End Studs $b_m=1.25d$	2012-07-01
24	QC/T 871-2011	Double End Studs $b_m=2d$	2012-07-01
25	QC/T 872-2011	Hexagon Weld Nuts with Flange	2012-07-01
26	QC/T 873-2011	Hexalobular Socket Raised Countersunk (Oval) Head Self Drilling Screws with Tapping Screw Thread	2012-07-01
27	QC/T 874-2011	Hexalobular Socket Countersunk Head Self Drilling Screws with Tapping Screw Thread	2012-07-01
28	QC/T 875-2011	Hexalobular Socket Pan Head Self Drilling Screws with Tapping Screw Thread	2012-07-01
29	QC/T 876-2011	Hexagon Collar Head Tapping Screws for Plastic	2012-07-01
30	QC/T 877-2011	Hexagon Flange Head Tapping Screws for Plastic	2012-07-01
31	QC/T 878-2011	Hexalobular Socket Pan Head Tapping Screws for Plastic	2012-07-01
32	QC/T 879-2011	Plastic Expansion Nut with Open End-Type E	2012-07-01
33	QC/T 880-2011	No Unscrew Bolt	2012-07-01
34	QC/T 881-2011	Weld Studs for Plastic	2012-07-01
35	QC/T 882-2011	Split Clamps	2012-07-01
36	QC/T 883-2011	Sealing Plugs	2012-07-01
37	QC/T 884-2011	Hexagon Socket Pipe Magnetic Plugs	2012-07-01
38	QC/T 885-2011	B Type Spring Nuts-Prevailing Torque Type	2012-07-01

39	QC/T 886-2011	Weld Studs for Arc Welding		2012-07-01
40	QC/T 887-2011	Vent Pipe Assembly		2012-07-01
41	QC/T 888-2011	All-metal Hexagon Collar Weld Nuts-Prevailing Torque Type		2012-07-01
42	QC/T 889-2011	Retainers for Shafts-Type A		2012-07-01
43	QC/T 890-2011	Plastic Expansion Nut with Open End-Type D		2012-07-01
44	QC/T 891-2011	Welding Screws for Plastic		2012-07-01
45	QC/T 892-2011	Open End Blind Rivets with Break Pull Mandrel and Protruding Head for Plastic Parts		2012-07-01
46	QC/T 608-2011	B Type Spring Nuts	QC/T 608-1999	2012-07-01
47	QC/T 712-2011	Weld Nuts for Fixing the Safety Belt Devices of Vehicle	QC/T 712-2004	2012-07-01
48	QC/T 616-2011	Plastic Expansion Nut with Open End-Type C	QC/T 616-1999	2012-07-01
49	QC/T615-2011	Plastic Expansion Nut with Open End-Type B	QC/T 615-1999	2012-07-01

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Foreword

This standard is drafted in compliance with the rules in GB/T 1.1-2009.

This standard is proposed by and under the jurisdiction of the National Technical Committee on Road Vehicles of Standardization Administration of China (SAC/TC 114).

Drafting organizations of this standard: Shanghai Edrive Co., Ltd., China Automotive Technology & Research Center, Shanghai Auto Test Center, China Aviation Optical-Electrical Technology Co., Ltd, CSR Zhuzhou Electric Locomotive Research Institute Co. Ltd, Beijing Institute of Technology, Beijing New Energy Automobile Co., Ltd., Technology Dept. of Dongfeng Motor Corporation, Zhengzhou Yutong Bus Co. , Ltd and Suzhou Chilye Green Technology Co.,Ltd.

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Interface of electrical machine system for electric vehicles

1 Scope

This standard specifies the electrical interface type and signal definitions of electrical machine system for electric vehicles, and makes general regulation for mechanical interface of electrical machine system.

This standard is applicable to electrical machine system for electric vehicle and can't be used in auxiliary motor system of vehicle.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (including all corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 11918 Plugs, socket-outlets and couplers for industrial purposes--Part 1:General requirements

GB 14711-2006 Safety requirements of small and medium size rotating electrical machines

GB/T 18488 General Specification of Electrical Machine System for Electric Vehicles

GB/T 19596 Terminology of Electric Vehicles

QC/T 417.1 Road Vehicles – Connections for On-board ... Test Methods and General Performance Requirements (the Automobile Part)

3 Terms and definitions

For purpose of this standard, the following terms and definitions given in GB/T 19596 and QC/T 417.1 apply.

3.1

Electrical interface

Electrical components used to connect drive motor and controller, controller and whole vehicle include power electrical interface and signal electrical interface.

3.1.1

Power interface

Power electrical components used to connect drive motor and controller, controller and whole

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