SLOVENSKI STANDARD

SIST EN 61851-24:2014/AC:2015

01-september-2015

Sistem kabelskega napajanja električnih vozil - 24. del: Digitalna komunikacija med enosmerno (d.c.) EV-napajalno postajo in električnim vozilom za krmiljenje enosmernega (d.c.) napajanja - Popravek AC

Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging

Konduktive Ladesysteme für Elektrofahrzeuge - Teil 24: Digitale Kommunikation zwischen einer Gleichstromladestation für Elektrofahrzeuge und dem Elektrofahrzeug zur Steuerung des Gleichstromladevorgangs

Système de charge conductive pour véhicules électriques - Partie 24: Communication digitale entre la borne de charge à courant continu et le véhicule électrique pour le contrôle de la charge à courant continu

Ta slovenski standard je istoveten z: **EN 61851-24:2014/AC:2015**

ICS:

43.120	Električna cestna vozila	Electric road vehicles

SIST EN 61851-24:2014/AC:2015 **en**

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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IEC 61851-24
Edition 1.0 2014-03

ELECTRIC VEHICLE CONDUCTIVE CHARGING SYSTEM –

Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging

IEC 61851-24
Édition 1.0 2014-03

SYSTÈME DE CHARGE CONDUCTIVE POUR VÉHICULES ÉLECTRIQUES –

Partie 24: Communication digitale entre la borne de charge à courant continu et le véhicule électrique pour le contrôle de la charge à courant continu

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

2 Normative references

*Add the footnote "*1 To be published.*".*

3.2
parameter

This correction applies to the French text only.

5 Digital communication architecture

This correction applies to the French text only.

Table A.1 – Communication actions and parameters during d.c. charging control process between system A station and vehicle

This correction applies to the French text only.

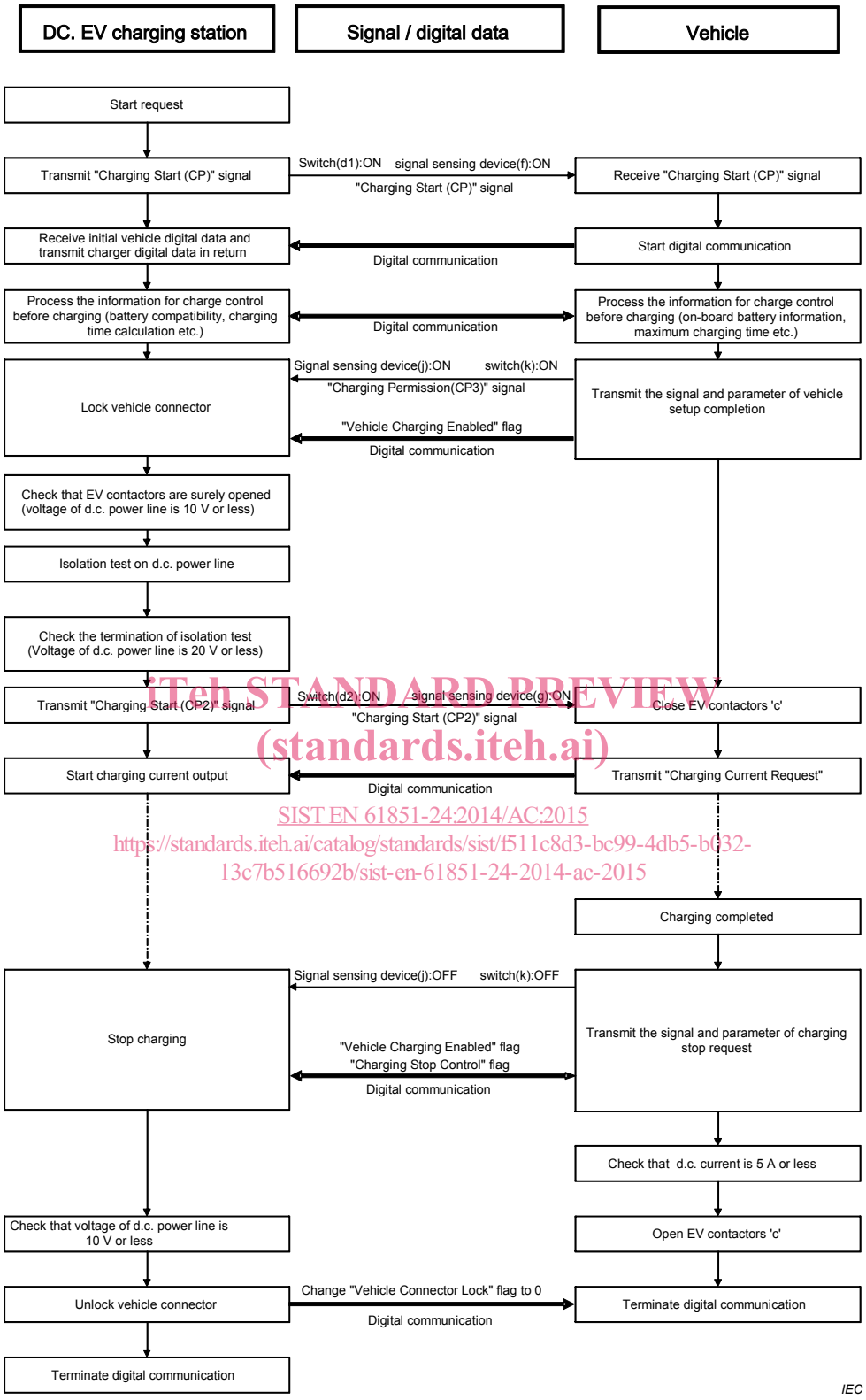
Figure A.1 – Sequence diagram of d.c. charging control communication for system A

*Replace "*less than 10 V*" by "*10 V or less*".*

*Replace "*less than 20 V*" by "*20 V or less*".*

*Replace "*less than 5 A*" by "*5 A or less*".*

As follows:



For symbols, see Table AA.1 of IEC 61851-23:2014.

Figure A.1 – Sequence diagram of d.c. charging control communication for system A

Table A.2 – Exchanged parameter during d.c. charging control process between system A station and vehicle *(1 of 4)*

*Replace the resolution (range) in the 2nd row "*0,11 kWh/bit*" by "*0,1 kWh/bit*".*

*Replace the resolution (range) in the 3rd row, "*1 % bit,100 % (fixed)*" by "*1 %/bit (100 %: fixed)*".*

*Add the data update rate "*100 ms*" in the 5th row.*

As follows:

Table A.2 – Exchanged parameter during d.c. charging control process between system A station and vehicle *(1 of 4)*

Item in Table 1	Parameter	Content	CAN ID ID.byte(bit)	Source	Destination	Data update rate	Unit	Status flag	Resolution (range)
b-2	Maximum battery voltage	The maximum voltage value at the vehicle inlet terminals, at which the station stops charging to protect the vehicle battery	H'100.4, H'100.5	EV	System A station	100 ms	V	-	1 V/bit
	Rated capacity of battery	Rated capacity of battery	H'101.5, H'101.6	EV	System A station	100 ms	kWh	-	0,1 kWh/bit
	Constant of charging rate indication	Fixed value for charging rate indication, which is the maximum charging rate (100 %) of vehicle battery	H'100.6	EV	System A station	100 ms	%		1 %/bit (100 %: fixed)
	Maximum charging time (set by 10 s)	Maximum charging time permitted by EV, set by 10 s	H'101.1	EV	System A station	100 ms	s	-	10 s/bit (0 to 2 540 s)
	Maximum charging time (set by minute)	Maximum charging time permitted by EV, set by minute	H'101.2	EV	System A station	100 ms	min		1 min/bit (0 to 255 min)
	Estimated charging time	Estimated remaining time before the end of charging calculated by EV	H'101.3	EV	System A station	100 ms	min	-	1 min/bit (0 to 254 min)
b-1	Control protocol number	Software version of control protocol to which EV corresponds	H'102.0	EV	System A station	100 ms		-	1/bit (0 to 255)
	Target battery voltage	Targeted charging voltage at the vehicle inlet terminals	H'102.1, H'102.2	EV	System A station	100 ms	V	-	1 V/bit (0 to 600 V)
a-1	Charging-current-request	Current value requested by EV during charging	H'102.3	EV	System A station	100 ms	A	-	1 A/bit (0 to 255 A)

A.5.3 Transmission

*Replace the reference to "*Table A.1*" by "*Table A.2*".*

C.1 General

*Replace the reference to "*DIN 70121*" by "*DIN SPEC 70121*".*