DOCUMENT CHANGE REQUEST

DCR number 814	Changes required for: General	Originator: Steve Thacker	
Date: 2013/12/05	Date sent: 2013/08/22	Organisation: ESCC Executive Secretariat	
Status: IMPLEMENTED			

Title:	Relays Electromagnetic Non-Latching 28Vdc 1A 2PDT TO5 Can		
Number:	3601/002	Issue:	1

Other documents affected:

Page:

See below with reference to 3601/002 draft 2G (per approved but not yet implemented DCR703)

Paragraph:

See below with reference to 3601/002 draft 2G (per approved but not yet implemented DCR703)

Original wording:

See 3601/002 draft 2G (per approved but not yet implemented DCR703)

Proposed wording:

This DCR details various technical plus minor editorial changes made in addition to those detailed in approved but not yet implemented DCR703. See this DCR attachment 3601/002 draft 2I for full details. References in this DCR to changes, are made against the previous draft 3601/002 draft 2G included as part of DCR703

Note: The attachment to this DCR, 3601/002 draft 2I, includes all the changes contained in this DCR, as detailed below, as well as those per DCR703. In case of conflict this DCR takes precedence over DCR703.

Note: This DCR also implements the use of alternate publishing software for this specification (was: GlobalView; is now: WORD2010).

1) Several minor editorial amendments are made (to be consistent with other ESCC 3601/xxx Detail Specs).

See attachment for details.
Para 1.4.2, Note 1;
Para 2.4.1 & 2.4.2, Insulation Resistance test condition

2) Para 1.4.2, Component Type Variants and Range of Components
Maximum weight is amended for each variant (was 2.55g max for all variants) (as requested by REL STPI).

3) Para 1.7, FUNCTIONAL DIAGRAM
Note 1 is clarified to read: “As viewed from the terminal side with coil de-energised.”

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4) Para 1.8.1, Case
Amend case material to be Nickel (was Copper nickel) (as requested by REL STPI)

5) Para 2.4.1 Room Temperature Electrical Measurements
Pick-up voltage, UC: amend max limits for UR=18V to be 10.5V (was 10.7V)
Pick-up voltage, UC: amend max limits for UR=6V to be 3.5V (was 4.5V)

6) Para 2.4.1 & 2.4.2, Room Temperature Electrical Measurements & High and Low Temperatures Electrical Measurements (Tables 2 & 3)
Contact Voltage Drop, VD:
The test condition is clarified to be ITEST = 100mA maximum to be consistent with the generic spec ESCC 3601.
The VD max limit is clarified to be 0.1 x ITEST (was 10mV) (based on 100mOhm value from Table 1(b) in previous spec for contact resistance and the test current of 100mA maximum).

7) Para 2.4.2, High and Low Temperatures Electrical Measurements
Pick-up Voltage shall be tested at both high (+125C) and low (-65C) temperatures.
Drop-out Voltage minimum and maximum limits shall both apply at both high (+125C) and low (-65C) temperatures.

8) Para 2.6 INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS
Contact Voltage Drop: The VD max limit for the following tests is amended and clarified as follows to be consistent with the new Para 2.4.1 test conditions; see 6) above):

Low Level Life: 0.2 x ITEST (= 20mV) maximum during final measurements (clarification only; no actual change).

Resistive Life: 0.2 x ITEST (= 20mV) maximum during final measurements (clarification only; no actual change).

Intermediate Current: 0.2 x ITEST (= 20mV) maximum during final measurements (clarification only; no actual change).

Overload: 1.4V (was 400mV) maximum during monitoring (reinstate the original limit specified in 3601/002 issue 2); 0.2 x ITEST (= 20mV) (was 200mV) maximum during final measurements, to make the limit consistent with the other tests and the 100mA test conditions.

9) Appendix A for REL STPI
Add Appendix to detail the following deviations:
• Deviations to Chart F4: Coil Life subgroup test sequence (under Endurance Subgroup 1): Coil Life and the subsequent tests shall only be performed for Qualification. They are not required for Periodic Testing except in the case of any

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significant change to the design (as requested by REL STPI)

Justification:

After several reviews including direct discussions with the Manufacturer (REL STPI) & CNES, the changes to be made to this specification and hence the contents of this DCR have been finalised and agreed (as part of a review of all ESCC 3601/xxx & 3602/xxx specifications).

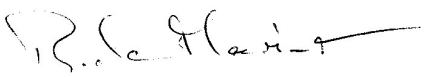
This DCR implements additional minor editorial corrections and several technical changes resulting from review of 3601/002 Draft 2G & DCR703 and other current, open relay DCRs for correction & consistency purposes. This DCR completes the conversion initiated under DCR703.

Attachments:

3601002_draft_2i_in_review.pdf, null

Modifications:

Approval signature:



Date signed:

2013-12-05