

ENGINEERING PRACTICE STUDY

TITLE: MS24166 changing Table III Operating characteristics. FROM Coil data resistance @ 94 ohms +15% - 10%, TO Coil data resistance @ 94 ohms +10% - 15%.

26 August 2020

STUDY PROJECT (SEE ATTACHMENT 1)

FINAL REPORT

Study Conducted *By* DLA Land and Maritime

Project Number: 5945-2020-039

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ATTACH 1

I. OBJECTIVES: This engineering practice study is being conducted to determine the acceptability of changing Table III Operating characteristics. FROM Coil data resistance @ 94 ohms +15% - 10%, TO Coil data resistance @ 94 ohms +10% - 15%.

II. BACKGROUND: Revision J dated 15 April 2018 stated Table III Operating characteristics. Coil data resistance @ 94 ohms +10% - 15%. However, per request of QPL manufacturer, Revision K dated 5 April 2018 changed the document requirements to Table III Operating characteristics. Coil data resistance @ 94 ohms +15% - 10%. Now, a QPL manufacturer is requesting the requirement changed to reflect Revision J Table III Operating characteristics. Coil data resistance @ 94 ohms +10% - 15%. Provided justification is manufacturer's struggle to meet the low end of requirement.

Questions needing answers are:

1. Are other manufacturers able to achieve existing requirements of Table III Operating characteristics. Coil data resistance @ 94 ohms +15% - 10%?
2. How does changing the coil data resistance requirements impact the relay's form or function?

III. RESULTS: The document was reviewed and a DoD position determined. A survey letter was sent to all QPL manufacturers and document custodians/reviewers. The response concurred with the proposal to change Table III Operating characteristics. FROM Coil data resistance @ 94 ohms +15% - 10%, TO Coil data resistance @ 94 ohms +10% - 15%. Manufacturers did not identify ability to achieve Coil data resistance @ 94 ohms +15% - 10%. No feedback received to determine if changing the coil data resistance requirements impacted the relay's form or function.

IV. CONCLUSIONS: It was determined that DLA Land and Maritime adopt the proposal to change Table III Operating characteristics. FROM Coil data resistance @ 94 ohms +15% - 10%, TO Coil data resistance @ 94 ohms +10% - 15%.

V. RECOMMENDATIONS: The document has concurrence to change Table III Operating characteristics. FROM Coil data resistance @ 94 ohms +15% - 10%, TO Coil data resistance @ 94 ohms +10% - 15%. to reflect obtainable capability of sole sourced QPL manufacturer.