

ENGINEERING PRACTICE STUDY

TITLE: MIL-PRF-83536/32, /33; Flangeless Mount for Solder Pin Configuration, 12V dc Rated contact load and cycles (amperes per pole), Flangeless Mount for Solder Pin Configuration 28V dc Rated contact load and cycles (amperes per pole), and Raised Vertical Flange Mount for Solder Pin Configuration 12 V dc Rated contact load and cycles (amperes per pole).

17 September 2024

STUDY PROJECT (SEE ATTACHMENT 1)

FINAL REPORT

Study Conducted By DLA Land and Maritime

Project Number: 5945-2024-053

Prepared by:

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ATTACH 1

I. OBJECTIVES: Determine the DoD position and provide comments to industry on increasing relay product offering of MIL-PRF-83536/32 and MIL-PRF-83536/33 to include Flangeless Mount for Solder Pin Configuration, 12V dc Rated contact load and cycles (amperes per pole), Flangeless Mount for Solder Pin Configuration 28V dc Rated contact load and cycles (amperes per pole), and Raised Vertical Flange Mount for Solder Pin Configuration 12 V dc Rated contact load and cycles (amperes per pole).

II. BACKGROUND: VAT received request from an Original Equipment Manufacturer (OEM) to include Subject material availability. In addition, VAT contacted the identified QPL-83536 Manufacturer to review their availability to provide Subject material.

III. RESULTS: The documents were reviewed, and a DoD position determined modification of the solder pin configuration to a flangeless mount will not alter the product's form, fit, or function. In addition, modifying the solder pin configuration to a flangeless mount and a 12 V dc Rated contact load and cycles (amperes per pole) will not alter the product's form, fit, or function. Furthermore, there is no known system application use for a Flangeless Mount for Solder Pin Configuration for 28 V dc Rated contact load and cycles (amperes per pole) and 12 V dc Rated contact load and cycles (amperes per pole). However, the initiating OEM modified their request by rescinding a flangeless mount option and maintaining a 12V coil option. Unfortunately, the identified QPL-83536 Manufacture did not submit feedback on providing the 12V coil relay.

IV. CONCLUSIONS: The conclusion of the review if there is no customer driven request for a flangeless mount relay. In addition, there is no QPL-83536 manufacture committed to provide a 12V coil relay.

V. RECOMMENDATIONS: MIL-PRF-83536/32 and MIL-PRF-83536/33 to remain as is without modification to product offering.