

INCH-POUND

MIL-PRF-39016/9H
AMENDMENT 5
14 August 1998
SUPERSEDING
AMENDMENT 4
23 June 1993

PERFORMANCE SPECIFICATION SHEET

RELAYS, ELECTROMAGNETIC, ESTABLISHED RELIABILITY, DPDT,
LOW LEVEL TO 1.0 AMPERE

This amendment forms a part of MIL-PRF-39016/9H, dated 15 November 1989, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

FIGURE 1: Delete ".335/.275 DIA" and substitute ".370 MAX".

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- * FIGURE 3, bottom view: delete " $\pm.003$ " for the five spreader pad lead hole, center-to-center tolerances.
- * FIGURE 3, note 4, delete and substitute "Spreader pads shall comply with the requirements of A-A-55485, A-55485/05-003, or A-55485/05-013".

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- * FIGURE 4, bottom view: delete " $\pm.005$ " for the four spreader pad lead hole, center-to-center tolerances.
- * FIGURE 4, note 4, delete and substitute "Spreader pads shall comply with the requirements of A-A-55485, A-55485/05-014."

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REQUIREMENTS, contact data, load ratings, high level (relay case grounded), resistive, delete and substitute:

"Resistive:

1.0 ampere at 28 V dc.
250 milliamperes at 115 V ac 60 Hz and 400 Hz case not grounded.
100 milliamperes at 115 V ac 60 Hz and 400 Hz case grounded."

REQUIREMENTS, contact data, overload (high level only), delete and substitute:

"Overload (high level only): Two times rated current. Not applicable to ac load ratings."

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* Dielectric withstanding voltage, delete and substitute:

	Sea level V rms (60 Hz)	Post intermediate current life test Sea level V rms (60 Hz)	Altitude V rms (60 Hz)
Between case, frame or enclosure and all contacts in the energized and deenergized positions -----	500	500	
Between case, frame or enclosure and coils -----	500	500	125
Between all contacts and coils -----	500	500	All terminals
Between open contacts in the energized and deenergized positions	500	375	to case
Between contact poles -----	500	500	
Between coils of dual coil relays -----	NA	NA	

* PHYSICAL DATA, terminals, terminal strength: delete "Test condition A, 1 pound pull minimum." and substitute "Test condition A, 1 pound pull."

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* TABLE II, footnote 1/, delete and substitute:

"1/ Figure 1 only - For retention of qualification or extension of qualification to lower failure rate levels, all life test data accumulated on MIL-PRF-39016/11, /15, /16, /20, and /21 may be used in addition to MIL-PRF-39016/9 data. Qualification to figure 1 automatically qualifies round relays to figure 2.

"Figure 2 only - For retention of qualification or extension of qualification to lower failure rate levels, all life test data accumulated on MIL-PRF-39016/11, /15, /16, /20, and /21 may be used in addition to MIL-PRF-39016/9 data. Prior to performance of retention of qualification testing, the relay manufacturer shall preselect the sampling plan."

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* Group A testing for relays supplied with spreader pads (-071 through -077, -099 through -105, and -106 through -112) shall be tested as specified below, delete both paragraphs and substitute:

"Perform seal test immediately, preceding the A2 electrical tests. Relay leads shall be formed and the mounting pad removed before the seal test. After the seal test, the mounting pad shall be rigidly attached to the relay and the remaining group A tests performed."

* Qualification inspection (reduced testing) and sample size, Delete both paragraphs and substitute:

"Figure 1 only - If the relays produced for MIL-PRF-39016/9 are similar in construction and design except for the diodes and coil assembly, as applicable, to the relays produced for MIL-PRF-39016/11, /15, /16, /20, or /21, then reduced testing for qualification of MIL-PRF-39016/9 relays may be performed concurrent with or subsequent to successful qualification of MIL-PRF-39016/11, /15, /16, /20, or /21. For reduced testing, see table III.

"Figure 2 only - If the relays produced for MIL-PRF-39016/9 are similar in construction and design except for the diodes and coil assembly, as applicable, to the relays produced for MIL-PRF-39016/11, /15, /16, /20, or /21, then reduced testing for qualification of MIL-PRF-39016/9 relays may be performed concurrent with or subsequent to successful qualification of MIL-PRF-39016/11, /15, /16, /20, or /21."

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The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodians:

Army - CR
Navy - EC
Air Force - 85

Preparing activity:

DLA - CC

(Project 5945-1020-02)

Review activities:

Army - AR
Navy - AS, MC, OS, SH
Air Force - 19, 99
NSA - NS