

INCH-POUND

MIL-PRF-6106/43B  
AMENDMENT 1  
19 July 2001

PERFORMANCE SPECIFICATION SHEET

RELAY, ELECTROMAGNETIC, 65 AMPERES, 1PNO DOUBLE BREAK,  
HERMETICALLY SEALED, TYPE I

This amendment forms a part of MIL-PRF-6106/43B, dated 10  
November 2000, and is approved for use by all Departments and  
Agencies of the Department of Defense.

The attached insertable replacement page is listed below and is a replacement for the stipulated page.  
When the new page has been entered in the document, insert the amendment as the cover sheet to  
the specification.

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TABLE I. Mounting, termination, and operating characteristics.

| Dash no. | Coil | Coil data |         |                         |         |            |                       |                |                   |                                |                            | Time (milliseconds-maximum) <sup>2/</sup> |           |                       |                       |        |    |      |    |
|----------|------|-----------|---------|-------------------------|---------|------------|-----------------------|----------------|-------------------|--------------------------------|----------------------------|---|-----------|-----------------------|-----------------------|--------|----|------|----|
|          |      | Nominal   |         |                         | Maximum |            | Max pickup voltage    |                |                   | Drop out voltage <sup>1/</sup> | Hold voltage <sup>1/</sup> | Coil sup. back EMF max                    | CKT. type | Operate <sup>2/</sup> | Release <sup>3/</sup> | Bounce |    |      |    |
|          |      | Volts     | Freq Hz | Res $\Omega$ $\pm 10\%$ | Volts   | Amp @ 25°C | Nominal <sup>1/</sup> | High temp test | Cont current test |                                |                            |   |           |                       |                       | Main   |    | Aux. |    |
|          |      |           |         |                         |         |            |                       |                |                   | NO                             | NC                         | NO  | NC        |                       |                       |        |    |      |    |
| -001     | X1X2 | 28        | DC      | 200                     | 29      | .160       | 18                    | 20             | 21                | 1.5                            | 7.0                        | --  | A         | 35                    | 25                    | 3      | -- | 5    | -- |
| -002     | X1X2 | 28        | DC      | 200                     | 29      | .160       | 18                    | 20             | 21                | 1.5                            | 7.0                        | 50  | B         | 35                    | 25                    | 3      | -- | 5    | -- |

<sup>1/</sup> Over temperature range.

<sup>2/</sup> With nominal coil voltage.

<sup>3/</sup> From nominal coil voltage.

TABLE II. Rated contact load (amperes per pole) case grounded.

| Type of load                    | Life operating cycles x 10 <sup>3</sup> | 28 V dc |     |     |     | 115 V ac, 1 phase |          |        |       | 115/200 V ac, 3 phase <sup>1/</sup> |          |        |       |
|---------------------------------|---|---------|-----|-----|-----|-------------------|----------|--------|-------|-------------------------------------|----------|--------|-------|
|                                 |   | Main    |     | Aux |     | Main              |          | Aux    |       | Main                                |          | Aux    |       |
|                                 |   | NO      | NC  | NO  | NC  | 400 Hz            | 50/60 Hz | 400 Hz | 60 Hz | 400 Hz                              | 50/60 Hz | 400 Hz | 60 Hz |
| Resistive                       | 50                                      | 50      | --- | --- | --- | 65                | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Inductive                       | 20                                      | 50      | --- | --- | --- | ---               | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Inductive                       | 50                                      | ---     | --- | --- | --- | 65                | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Lamp                            | 50                                      | 17      | --- | --- | --- | ---               | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Lamp                            | 25                                      | 20      | --- | --- | --- | ---               | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Transfer load                   |   | ---     | --- | --- | --- | ---               | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Mechanical life reduced current | 200                                     | 7       | --- | --- | --- | ---               | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |
| Mixed loads                     | 50                                      | 2.5     | --- | --- | --- | 5                 | ---      | ---    | ---   | ---                                 | ---      | ---    | ---   |

<sup>1/</sup> Absence of value indicates relay is not rated for 3 phase.