

DESIGN SPECIFICATIONS

REV.		REVISIONS		RELEASED		DATE		APPROVED	
REV.		DESCRIPTION		DATE		DATE		DATE	
		SEE SHEET 1 FOR REVISIONS							

DH-31-DAA

CONSTRUCTION

HERMETICALLY SEALED

OPERATING TIME* (INCLUDING BOUNCE)
RELEASE TIME* (INCLUDING BOUNCE)

50 MS MAX.
40 MS MAX.

MAIN CONTACTS

3PDT, C.O.
115/208 VAC, 400 HZ.

CONTACT BOUNCE (MAIN)*
CONTACT BOUNCE (AUX.)*
TRANSFER TIME* (INCLUDING BOUNCE)

2 MS MAX.
5 MS MAX.
40 MS MAX.

CURRENT (AMPS);

120

LIFE

50,000 CYCLES

RESISTIVE*

120

ELECTRICAL (MIN.)

100,000 CYCLES

INDUCTIVE

60

MECHANICAL (MIN.)

1500 VRMS

MOTOR

800

DIELECTRICAL STRENGTH AT SEA LEVEL (1 MIN.)*

1250 VRMS

OVERLOAD

1000

MAIN CONTACTS TO ALL POINTS

1050 VRMS

RUPTURE

1000

AUX. CONTACTS TO ALL POINTS

1050 VRMS

COIL TO ALL POINTS

AUXILIARY CONTACTS

4PDT

DIELECTRICAL STRENGTH AT ALTITUDE

700 VRMS

CONFIGURATION

28 VDC, 115 VAC, 400 HZ.

MAIN CONTACTS TO ALL POINTS

500 VRMS

VOLTAGE (NOMINAL)

CURRENT (AMPS);

AUX. CONTACTS TO ALL POINTS

500 VRMS

RESISTIVE

5

COIL TO ALL POINTS

500 VRMS

INDUCTIVE

3

INSULATION RESISTANCE

100 MEGOHM (MIN.)

LAMP

2

INITIAL (500 VDC)

100 MEGOHM (MIN.)

COIL

CONTINUOUS

POST ENVIRONMENTAL TEST (500 VDC)

100 MEGOHM (MIN.)

DUTY CYCLE

18-30 VDC

TEMPERATURE RANGE

-55°C TO +85°C

OPERATING VOLTAGE (NOMINAL)*

30 VDC

ALTITUDE (MAX.)

70,000 FT.

OPERATING VOLTAGE (MAX.)

15 VDC AT 25°C

VIBRATION (SINUSOIDAL)

10 G'S, 5 TO 2000 HZ.

PICKUP VOLTAGE (MAX.)*

2.0 TO 7.0 VDC

SHOCK (11 MILLISECONDS, HALF SINE WAVE)

15 G

DROPOUT VOLTAGE*

100 ± 10%

CONTACT OPENING UNDER VIBRATION & SHOCK (MAX.)

10 MICROSECONDS

COIL RESISTANCE (OHMS)

.350 AT 25°C

WEIGHT*

2 LBS., 8 OZ.

COIL CURRENT (MAX.)*

±42V.

NOTES:

1. THIS UNIT IS DESIGNED TO MEET THE

COIL TRANSIENT VOLTAGE (MAX.)*

APPLICABLE PORTIONS OF MIL-R-6106.

2. ITEMS MARKED BY ASTERISKS ARE 100% TESTED.

CONTACT LOADS VERIFIED BY MILLIVOLT DROP.

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APPLICABLE PORTIONS OF MIL-R-6106.
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CONTACT LOADS VERIFIED BY MILLIVOLT DROP.

NOTES:

WEIGHT*

2 LBS., 8 OZ.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		MIL P/N 76AS88016-103 FS-X PROGRAM		HARTMAN ELECTRICAL MANUFACTURING MANSFIELD, OHIO	
2 PL. DEC.12 PL. DEC.12 ANGLES	* 1°	DR BY T.M.B. 1/27/94	SIZE	CODE IDENT	DWG NO.
* 1°		CHK BY T.M.B. 1-27-94	C	74063	DH-31-DAA
		ENG BY T.M.B. 1-27-94	SCALE	NONE	SHEET 2 OF 2
		MEG BY T.M.B. 1-27-94			
		RELEASE			
		CONTR NO.			
		GOVT APPVL			