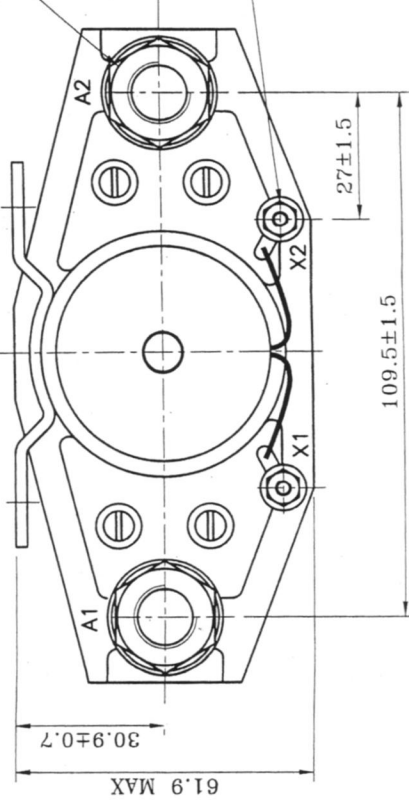


1/2-20UNF-2A STUD
 NUT MS35650-3395
 WASHER MS35338-105
 WASHER AN961-816
 2 PLACES

#6-32UNC-2A STUD
 NUT MS35649-265
 WASHER MS35338-98
 WASHER AN961-6
 2 PLACES

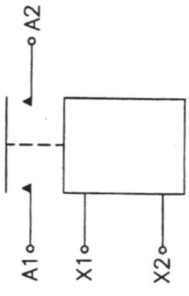


DIMENSIONS IN MILLIMETERS
 TOLERANCES UNLESS OTHERWISE SPECIFIED: ±1.57mm

ELECTROMAGNETIC RELAY 400 AMP

1 PST N.O. TYPE II NON HERMETICALLY SEALED
 LEACH PART NUMBER: 7401-C
 MEET THE REQUIREMENT OF: MS24185-D2
 MIL-PRF-6106

CIRCUIT DIAGRAM



MARKING:

LEACH
 RELAY AMPERAGE AND TYPE
 COIL VOLTAGE AND RESISTANCE
 LEACH PART NUMBER
 MIL SPECIFICATION SHEET NUMBER
 DATE CODE (YEAR-WEEK)
 CIRCUIT DIAGRAM

FICHER: FT139300.DWG		Designé	Date	7.12.98	Code OTAN : F0219
		LABE			2, rue Goethe
		VÉRIF			57430 SARRAILHE
		LABE	26.5.98	2/06/98	
5	DCN 5738	LABE	18.9.98	1:1	
4	DCN 5153	LABE	9.9.98		
3	DCN 5086	LABE	10.7.98		
2	DCN 5087	LABE			
Inf.	Modification	Date	Norm		
				Titre	Page
				LEACH INTERNATIONAL	1/2
				DATA SHEET	Indice
				7401-C	5
				Reference	
				FT 1393 00	

1. Coil data

- 1.1 Nominal operating voltage 28 Vdc
- 1.2 Maximum operating voltage 29 Vdc
- 1.3 Pick-up voltage at + 71°C (1) 18 Vdc
- 1.4 Drop out voltage over temperature range 1,5 to 7 Vdc
- 1.5 Coil resistance at + 25°C 66 Ω (56. Ω to 72. Ω)
- 1.6 Maximum coil current at + 25°C 0,6 Amp
- 1.7 Exported spikes N/A
- 1.8 Imported spikes N/A
- 1.9 Dielectric strength (2)
 - Coil to case Initial After life
 - Coil to coil 1250 N/A 1000 Vrms
 - Coil to contact 1250 N/A 1000 Vrms
- 1.10 Insulation resistance (2)
 - Coil to case Initial After life
 - Coil to coil 100 50 MΩ
 - Coil to contact N/A N/A MΩ

2. Contact data

- 2.1 Contact Arrangement Main contact
 - 1 PST N.O.
 - 28 Vdc 115Vac/400Hz 115-200Vac/400 Hz
- 2.2 Resistive load 400 Amps N/A Amp
- 2.3 Inductive load 400 Amps N/A Amp
- 2.4 Motor load 400 Amps N/A Amp
- 2.5 Lamp load N/A Amp N/A Amp
- 2.6 Mechanical-resistive load 100 Amps N/A Amp
- 2.7 Overload 3200 Amps N/A Amp
- 2.8 Rupture 4000 Amps N/A Amp
- 2.9 Life
 - resistive motor load 50.000 cycles
 - inductive load 10.000 cycles
 - mechanical 100.000 cycles
 - overload 50 cycles
 - rupture 50 cycles
- 2.10 Contact voltage drop
 - initial 150 mV at 400 Amps
 - during life 10% of open contact voltage
 - after life 175 mV at 400 Amps
- 2.11 Dielectric strength (2)
 - contact - case Initial After life
 - contact - coil 1250 1000 Vrms
 - contact - contact (Main) 1250 1000 Vrms
 - contact - contact (Aux) N/A N/A Vrms
- 2.12 Insulation resistance (2)
 - contact - case Initial After life
 - contact - coil 100 50 MΩ
 - contact - contact 100 50 MΩ

3. Operational data

- 3.1 Operate time 40 ms
 - 3.2 Release time 15 ms
 - 3.3 Bounce time (Main contact) 5 ms
 - Bounce time (Aux. contact) N/A ms
 - 3.4 Break-bounce time N/A ms
- All figures at nominal operating voltage

4. Environmental data

- 4.1 Temperature range -55 to + 71°C
- 4.2 Altitude 50.000 Feet
- 4.3 Sinusoidal Vibration 0,08 " D.A. / 5 - 10 Hz
- 0,06 " D.A. / 10 - 55 Hz
- 2 G's / 55 - 500 Hz
- No contact opening in excess of 2 ms
- No contact closing in excess of 1 microsecond
- 4.4 Shock 25 G's 6-9 ms
- No contact opening in excess of 2 ms
- No contact closing in excess of 1 microsecond
- 4.5 Acceleration 10 G's

5. Physical data

- 5.1 Weight 1,1 kg
- 5.2 Terminal strength Main cont. Aux. cont. + coil
 - Qualification 445 N 133 N
 - Installation N/A N/A
- Torque 1695 Ncm 113 Ncm
- Qualification 1271 Ncm 85 Ncm
- Installation

6 Other requirements

- 6.1 Minimum current 40 Amps / 28 Vdc
- 6.2 Minimum current life 50.000 operations

7. Notes

- (1) Unit stored at max. ambient temperature with deenergized coil and unloaded contacts
- (2) During test coil terminals must be connected together

FICHE: FTI 39300.DWG		Revisé	Date	7.12.98	
5	DGN 5738	LABE	Date	LABE	7.12.98
4	DCN 5165	Verifié	Date	LABE	26.5.99
3	DCN 5086	évalué	Date	LABE	16.9.98
2	DCN 5087	Echelle	Date	LABE	9.9.88
Ind.	Modification	Designation	Date	LABE	10.7.88
		Titre			
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DATA SHEET