HAT902 SERIES SPDT 30,40 Amp

c UL us
File No.:E75887

File No.:R 50194653

RoHS Compliant

FEATURES

- 4000VAC high dielectric strength between contacts and coil is available
- Max. switch capacity up to 40A

CONTACT RATINGS

Contact Arrangement	1A, 1B, 1C
Contact Resistance	50mΩ (1A 24VDC)
Contact Material	Silver Alloy
Contact Rating(Resistive)	30/40A 277VAC 30A/28VDC
Max. Switching Voltage	277VAC/28VDC
Max. Switching Current	40A
Max. Switching Power	11080VA/840W
Mechanical Life	1×10^7 operations
Electrical Life	5×10^4 operations

ORDERING INFORMATION

HAT F 902 C S 30 DC 12 - XXXX

- Model
- F:Class F Nil:Class B
- 902: PCB Pins & Quick Connects
- A:SPST-NO B:SPST-NC C:SPDT
- Nil:Open C:Covered S:Sealed
- Nil:40A 30:30A
- Coil:AC or DC
- Coil Voltage
- Customer code

Note: The "S" is defined as sealed without leaking test. If leaking test is necessary, please specify and contact with our sales.

CHARACTERISTICS

Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	2000VAC 1min
	Between open contacts	1500VAC 1min
Operate time (at nomi. volt.)		≤15ms
Release time (at nomi. volt.)		≤10ms
Humidity		98% RH, 40°C
Ambient temperature		Class B:-40°C~85°C Class F:-40°C~105°C
Shock Resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Unit weight		Approx. 36g
Construction		Sealed, Covered, Open type

Notes:1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curved below.

COIL DATA at 25°C

DC

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	Max. Allowable Voltage VDC	Coil Resistance Ω±10%
5	3.75	0.50	6.50	27
6	4.50	0.60	7.80	40
9	6.75	0.90	11.70	97
12	9.00	1.20	15.60	155
15	11.25	1.50	19.50	256
18	13.50	1.80	23.40	380
22	16.50	2.20	28.60	640
24	18.00	2.40	31.20	660
48	36.00	4.80	62.40	2560
110	82.50	11.00	143.00	13400

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AC

Nominal Voltage VAC	Pick-up Voltage (Max.) VAC	Drop-out Voltage (Min.) VAC	Max. Allowable Voltage VAC	Coil Resistance Ω±10%
12	9.6	1.2	14.40	27
24	19.2	2.4	28.80	120
110	88.0	11.0	132.0	2360
120	96.0	12.0	144.0	3040
220	176.0	22.0	264.0	13490
240	192.0	24.0	288.0	15735
277	221.6	27.7	332.4	20300

COIL

Coil Power	DC:900mW AC:2VA

SAFETY APPROVAL RATINGS

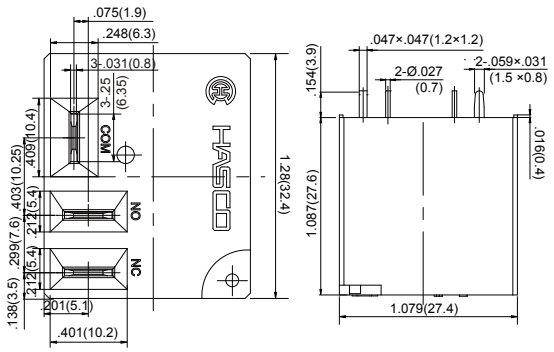
UL&CUL	NO	1HP/120VAC, 2HP/277VAC, 2HP/240VAC 20A/277VAC Ballast, 30A/120VAC Ballast TV-8 40A/277VAC Resistive Load *
	NC	1HP/120VAC, 2HP/277VAC 10A/277VAC Ballast, 2A/120VAC Tungsten 30A/277VAC, 30A/28VDC(30A) 40A/277VAC Resistive Load *
TüV	40A/240VAC(NO), 40A/240VAC(NC), 6×10^3 operations * 20A/240VAC/14VDC, 15A/240VAC/14VDC	

*** Note: If you need this rating, please contact our company.**
For the additional ratings, please contact our company.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

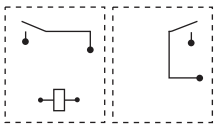
Unit: inch(mm)

Outline Dimensions



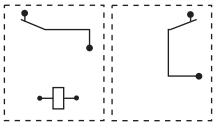
Wiring Diagram (Bottom view)

1A



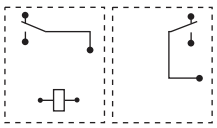
PCB Pins Quick Connects

1B



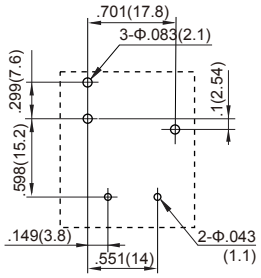
PCB Pins Quick Connects

1C



PCB Pins Quick Connects

PCB Layout (Bottom view)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm,tolerance should be ±0.2mm; outline dimension ＞1mm and ≤5mm,tolerance should be ±0.3mm;outline dimension ＞5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ±0.1mm.

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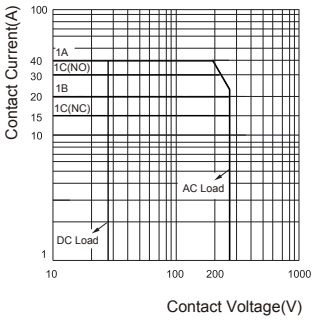
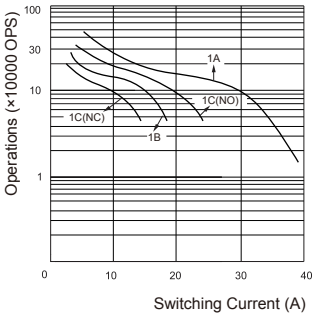
CHARACTERISTIC CURVES

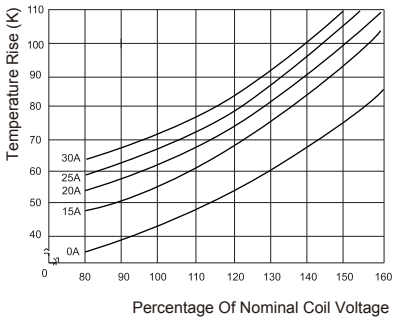
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



OPERATE TIME / RELEASE TIME