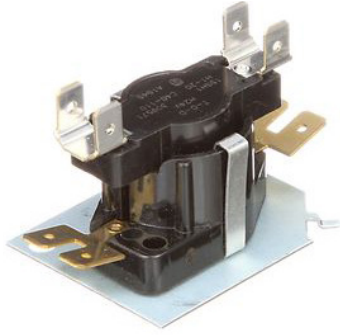


24A34 SERIES ELECTRIC HEAT SEQUENCERS



24A34-3

Direct replacement for most fan and heat sequencing functions.

FEATURES

- Replaces Honeywell, MARS, TOD, Gemline, Klixon (Texas Instruments)
- 24V input control
- Multi-poise mounting
- Any contacts (except M1 & M2) can be used as auxiliary contacts
- Double quick-connect terminals for combination loads
- 24A34-15 Used in heat pump air handler applications

SPECIFICATIONS

Ambient Temperature Rating -50 to +165°F
 UR/CUR File Number E12615

ELECTRICAL RATINGS – SINGLE LOAD CONTACT RATINGS (All Models)

INDUCTIVE (MOTOR) FULL LOAD 120 VAC	INDUCTIVE (MOTOR) FULL LOAD 240 VAC	INDUCTIVE (MOTOR) FULL LOAD 480 VAC	INDUCTIVE (MOTOR) LOCKED ROTOR 120 VAC	INDUCTIVE (MOTOR) LOCKED ROTOR 240 VAC	INDUCTIVE (MOTOR) LOCKED ROTOR 480 VAC	RESISTIVE (NON-INDUCTIVE) 120 VAC	RESISTIVE (NON-INDUCTIVE) 240 VAC	RESISTIVE (NON-INDUCTIVE) 480 VAC	PILOT DUTY
14.0A	7.0A	—	72.0A	42.0A	—	25.0A, 3000W	25.0A, 6000W	12.5A, 6000W	120-240 VAC 125 VA, 480 VAC 480 VA

24A34 SERIES ELECTRIC HEAT SEQUENCERS

TIMINGS	SWITCHES	TIMINGS – ON					TIMINGS – OFF					MODEL NUMBER	ITEM NUMBER
		M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10		
1	1	1-20	—	—	—	—	40-110	—	—	—	—	24A34-1	24A34 001S1
1	1	—	—	30-90	—	—	—	—	1-30	—	—	24A34-2	24A34 002S1
1	2	1-20	◆ 1-20	—	—	—	40-110	◆ 40-110	—	—	—	24A34-3 ①	24A34 003S1
1	2	—	—	30-90	◆ 30-90	—	—	—	1-30	◆ 1-30	—	24A34-4	24A34 004S1
2	3	1-110	◆ 1-110	1-110	—	—	1-110	◆ 1-110	1-110	—	—	24A34-5 ①	24A34 005S1
2	4	1-110	◆ 1-110	1-110	◆ 1-110	—	1-110	◆ 1-110	1-110	◆ 1-110	—	24A34-6 ①	24A34 006S1
4	5	1-160	◆ 1-160	1-160	1-160	1-160	1-160	◆ 1-160	1-160	1-160	1-160	24A34-14 ① ②	24A34 014S1
1	1	1-20	—	—	—	—	1-50	—	—	—	—	24A34-21	24A34 021B1
1	1	15-45	—	—	—	—	1-30	—	—	—	—	24A34-22	24A34 022B1
1	1	25-55	—	—	—	—	15-45	—	—	—	—	24A34-23	24A34 023B1
1	1	30-75	—	—	—	—	1-40	—	—	—	—	24A34-24	24A34 024B1
1	1	40-90	—	—	—	—	1-30	—	—	—	—	24A34-25	24A34 025B1
2	2	1-20	30-90	—	—	—	40-90	1-30	—	—	—	24A34-26	24A34 026B1
2	2	1-160	1-160	—	—	—	1-160	1-160	—	—	—	24A34-27	24A34 027B1
2	2	1-160	1-160	—	—	—	1-160	1-160	—	—	—	24A34-28 ③	24A34 028B1
1	1	15-35	—	—	—	—	25-55	—	—	—	—	24A34-29	24A34 029B1
2	2	1-20	30-45	—	—	—	45-110	1-30	—	—	—	24A34-36	24A34 036B1
1	1	1-110	—	—	—	—	1-110	—	—	—	—	24A34-37	24A34 037B1

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COMBINED LOAD RATING TABLE (All Models):

30A @ 240 VAC – TOTAL,
 23A Non-Inductive + 7 FLA / 42 LRA Inductive
 ON Time: Elapsed time to make contacts after heater is energized (min. to max.)
 OFF Time: Elapsed time to break contacts after heater is de-energized (min. to max.)

TABLE NOTES:

- ① M1-M2 and M3-M4 are always first switches to turn ON and last to turn OFF. All other switches are random ON and random OFF
- ② 24A34-14 Switch contacts designated F₁ - F₂ instead of M₁ - M₂
- ③ 24A34-28 is 2 pole double throw
- ◆ These contacts switch simultaneously
- ✦ Indicates Canadian Model Number: Call 1-800-305-6953 to order.

NOTE: Underwriters Laboratories requires a fan interlock circuit to insure the blower remains operating whenever more than one sequencer is used. The fan interlock should be the M1 / M2 contacts of the second or third sequencer. All M1 / M2 contacts are wired to the blower motor so that any sequencer that is energized will keep the blower ON.

24A34-15 HEAT PUMP CONTROL

TIMINGS	SWITCHES	TIMINGS ON 1-3	TIMINGS OFF 1-3	MODEL NUMBER	ITEM NUMBER
1	1	1-60	75-95	24A34-15	24A34 015S1

ELECTRICAL RATINGS – NORMALLY OPEN CONTACTS 1-3

INDUCTIVE (MOTOR) FULL LOAD 120 VAC	INDUCTIVE (MOTOR) FULL LOAD 240 VAC	INDUCTIVE (MOTOR) LOCKED ROTOR 120 VAC	INDUCTIVE (MOTOR) LOCKED ROTOR 240 VAC	RESISTIVE (NON-INDUCTIVE) 120 VAC	RESISTIVE (NON-INDUCTIVE) 240 VAC	PILOT DUTY
14.0A	7.0A	72.0A	42.0A	25.0A, 3000W	5.0A, 6000W	120 VAC 125 VA, 240 VAC 125 VA

ELECTRICAL RATINGS – NORMALLY CLOSED CONTACTS 1-2

VAC	RESISTIVE (NON-INDUCTIVE) WATTS	RESISTIVE (NON-INDUCTIVE) AMPS	PILOT DUTY
120	1200	10.0	125 VA
240	1200	5.0	125 VA