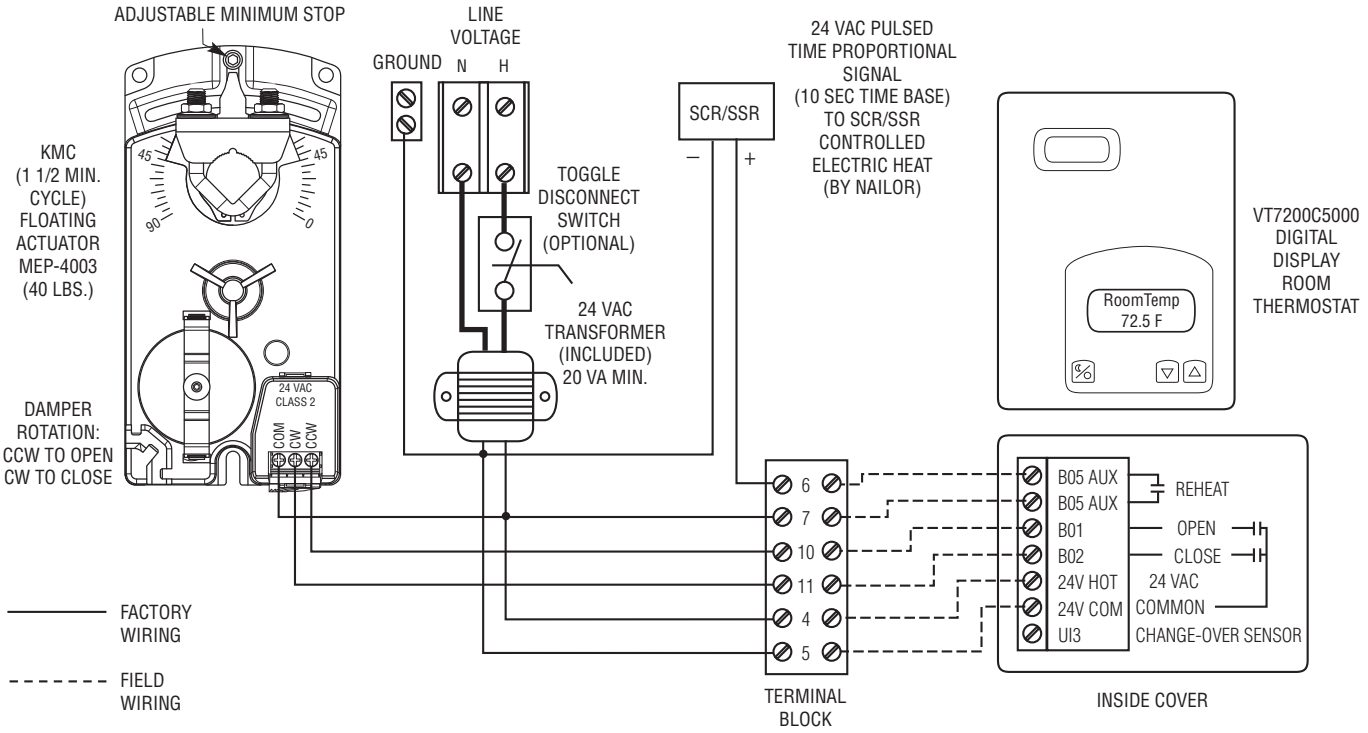
ANALOG ELECTRONIC CONTROL
BYPASS TERMINAL UNIT
PRESSURE DEPENDENT
MODEL: A34RE E10



CONTROL SEQUENCE: E10
VARIABLE AIR VOLUME • COOLING WITH TIME PROPORTIONAL ELECTRIC REHEAT

Advanced micro-computer electronics and PI control algorithms provide precise temperature control. The thermostat provides a true multi-position modulating output to a tri-state floating actuator. A 24 VAC pulsed signal controls the reheat. This eliminates wasted energy caused by typical on-off cycling with conventional thermostats resulting in significant energy savings and superior comfort. Control accuracy is ± 0.4°F (± 0.2°C) around set point. The room occupant is able to reduce the set point to the lowest comfortable setting. A mechanical air volume minimum stop is provided (field set).

Sequence of Operation:

This arrangement is for systems supplying cool air in summer and in winter. On a rise in room temperature above set point, the bypass damper will modulate open, increasing the flow of cool air to the room, closing the bypass at the same time. On a fall in room temperature below set point, the bypass damper will modulate closed, reducing the flow of cool air into the room and opening the bypass at the same time. If room temperature continues to fall, a SCR/SSR controlled electric heat coil is energized.

Notes:

1. The adjustable minimum stop on the actuator must be field set to ensure sufficient airflow over the heating coil (70 cfm [33 l/s] per Kw minimum).
2. The room thermostat requires field configuration. See supplied VT7200 series installation guide.

Options and Accessories:

- ❑ Toggle disconnect switch
- ❑ Special features:

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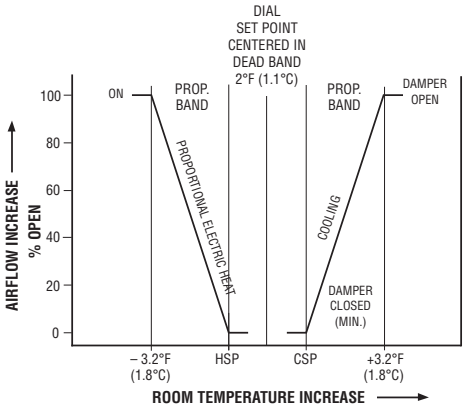

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 22 - 16**	**3400**	**8 - 24 - 15**	**34RECD-E10**

Dimensions are in inches (mm).