

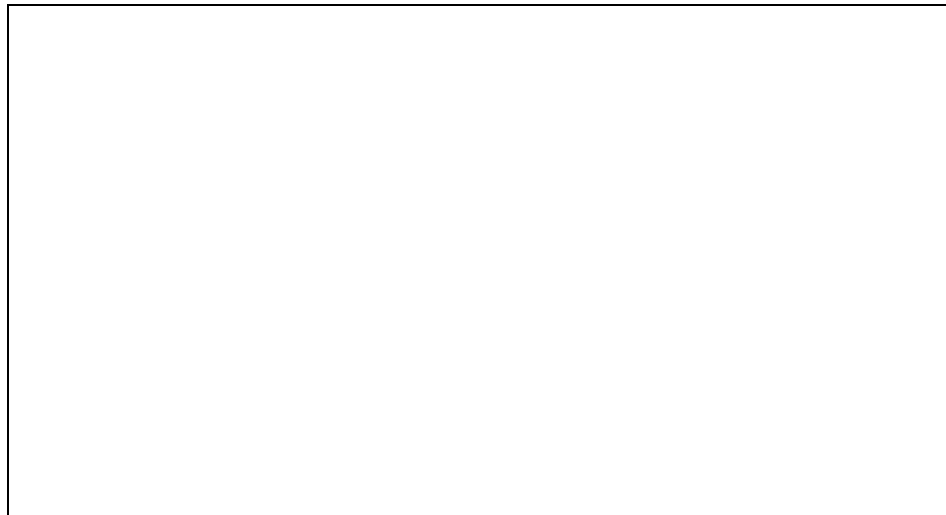


**BYPASS CONTROLLER
WITH INTEGRATED ACTUATOR**

3V™ CONTROL SYSTEM

PART NO. 33ZCBC-01

- **PERFORMANCE DATA**
- **PHYSICAL DIMENSION PRINT**



Date:	Supersedes:	BYPASS CONTROLLER WITH INTEGRATED ACTUATOR	33ZC	Rev: -10SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

The VVT® bypass controller is a component of Carrier’s 3V™ control system and is used to regulate the supply duct static pressure for Variable Volume and Temperature Applications. The Bypass Controller is an essential system component that allows constant volume HVAC (heating, ventilation, and air conditioning) equipment to provide zone level temperature control. The Bypass Controller operates on the 3V system network and is compatible with all Carrier communicating devices.

PERFORMANCE DATA

Physical Characteristics

Dimensions 2.36 in. H x 9.2 in. W x 4.84 in. D
(60 mm x 233.7 mm x 123 mm)

Electrical Characteristics

Input Volts 40 va at 24 vac/vdc ± 10% (50/60 Hz)

Environmental Requirements

Operating Temperature. 32 F to 131 F (0° C to 55 C)
Storage Temperature. 32 F to 158 F (0° C to 70 C)
Operating Humidity 10% to 95% non-condensing
Storage Humidity 10% to 41% at 158 F condensing

Agency Approvals

- NEC Class 2
- UL 916-PAZX and UL 873
- Conforms to requirements per European Consortium standards EN50081-1 (CISPR 22, Class B) and EN50082-1 (IEC 801-2, IEC 801-3, and IEC 801-4) for CE mark labeling.
- UL94-5V (actuator)

Communications Characteristics

Local communications between Carrier communicating network devices at up to 38.4 KB. Computer access available.
Remote access through modem at up to 38.4 KB. Computer access available.

→ **Bypass Controller Capabilities**

- Supply air temperature and pressure sensors determine system-operating mode to ensure proper operation in case of communication failure.
- Air Source leaving air temperature protection minimizes the occurrence of heating and/or cooling lockouts based on unacceptable discharge temperatures.
- Dedicated maintenance table for system wide air balancing.
- Capable of Proportional Integral Derivative (PID) control
- Actuator preassembled to housing and rated at 35 in.-lb. (3.95 N-m) torque, an adjustable 35, 60, or 90-degree stroke, and provides 90-second nominal timing at 60 Hz
- Control complies with ASHRAE 62.1

Wiring Requirements

Communication Bus — 3-Conductor, 18-Gage, Stranded, with Shield
Power — 2-Conductor, 18-Gage, Stranded, with Shield

PHYSICAL DIMENSION PRINT

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

