EC3-X33 Superheat Controller

EX Valves & Controls

The EC3 is a stand-alone universal superheat controller for stable superheat control with stepper motor driven electronic control valves and is used for air conditioning, refrigeration and industrial applications such as chillers, industrial process cooling rooftops, heat pumps, package units, close controls, cold room, food process and air driers. The EC3-X33 requires the use of the ECD-002 display key pad unit for setting up the controller.

Features

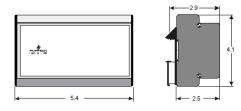
- Superheat control in conjuction with Emerson stepper motor driven electrical control valves EX4-EX8
- Limitation of evaporating pressure (MOP) •
- Low and high superheat alarm •
- Monitoring of sensors and sensor wiring and detection • of sensor and wiring failures
- Intelligent alarm management to protect the compressor, • i.e fail safe operation
- Integral rechargeable battery to close EX control valves in case of power loss.
- Electrical connection via plug-in type screw terminal
- Aluminum housing for DIN rail mounting

Ordering Information

| Description | Туре | Reference # | PCN |
|--|--|-------------|--------|
| Superheat Controller | EC3-X33 | 807783 | 097707 |
| Terminal Kit | K03-X33 | 807645 | 097745 |
| Temperature Sensor | ECN-N60 | 804497 | 097714 |
| Electrical Control Valve | EX4-EX8** | ** | ** |
| Pressure Sensors (R-22/R-124/ R-134a/R-404A/R-407C/R507C) | PT5-07M | 802350 | 097748 |
| Pressure Sensor (R-410A) | PT5-18M | 802851 | 097749 |
| Pressure Sensor (R-744) | PT5-30M | 802352 | 097753 |
| Plug and Cable Assembly for Pressure Sensor | PT4-M60 | 804805 | 097717 |
| Optional Display/Keypad | ECD-002 | 807657 | 097712 |
| Cable Connection between EC3-X33 and ECD-002 | ECC-N30 or any standard Cat 5 patch cord with RJ45 connectors | 807861 | 097713 |
| Replacement Battery | EC3 | 807790 | 097693 |

**For further details refer to the EX4-EX8 product page.

Dimensional Data





Specifications

- Supply Voltage:
- Digital Input:
- Power Consumption:
- Internal battery charging time:
- Ground connection:
- Applied Directive:
- Marking:
- Temperatures:
- Humidity:

24VAC ± 10%, 50/60 Hz 24VAC ± 10%, 50-60 Hz, 24VDC ± 10% 25 VA max. including connected EX valve and display/keyboard

Approx. 2 hours if battery is fully empty Plug-in connector size: Removable screw version wire size 12-20 AWG

1.4 in. spade earth connector

EMC, LVD, RoHS EN 61326, EN 50081, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 610004-4. EN61000-4-5. EN 61000-4-6, EN 61000-4-11) CE

Storage: -5°F to +150°F Operating: 32°F to +140°F

0 - 80% R.H. non condensing