



SH controller kit

EKE 100 1VK

Description

The SH controller Kit is a comprehensive equipment package designed for controlling ETS 5M electronic expansion valves across various applications, including air conditioning, commercial refrigeration, and food retail. It is ideal for situations requiring precise superheat control, effectively regulating superheat to the lowest possible level in a short time frame. By optimally managing the evaporator's superheat, even amidst significant load variations, the SCK helps reduce energy consumption and operational costs

Ordering

Product code numbers

| Description | Code number |
|-------------------------------|-------------|
| SH Controller Kit EKE 100 1VK | 080G9100 |

For ordering valves, visit Danfoss online for selecting ETS 5M valves

Note: Coil for ETS 5M is included in the kit. Items included in the kit are shown in service codes list.

Accessories code numbers

| Description | Code number |
|---|-------------|
| KoolKey EKA 200 | 080N0020 |
| EKE 100 service cable | 080G5067 |
| Backup Power module EKE 2U | 080G5555 |
| Manual coil for ETS 5M / ETS 5T | 034G3803 |
| Accessory Power supply AK-PS 063 STEP 3 | 080Z0057 |
| Accessory Power supply AK-PS 130 STEP 3 | 080Z0058 |
| Accessory Power supply AK-PS 250 STEP 3 | 080Z0059 |

For more details visit Danfoss online

Service codes

| Description | Code number |
|--|-------------|
| Superheat controller EKE 100 1V IP20 with integrated display | 080G5052 |
| Pressure transmitter DST P110 | 075G1013 |
| Accessory cable 10M round Packard for pressure transmitter | 064G0950 |
| Temperature sensor AKS 11 | 084N0008 |
| Bipolar coil for ETS 5M | 034G3863 |



Product details

General data

Figure: Superheat Controller EKE 100 1V



Table: Superheat Controller EKE 100 1V

| | |
|--|---|
| Name | Superheat Controller EKE 100 1V |
| Code number | 080G5052 |
| Supply voltage [V] | 24 V AC / DC ⁽¹⁾ , 50 / 60 Hz, SELV ⁽²⁾ |
| Power consumption (for ETS 5M bipolar) | 10 VA / 5 W |
| Number of valve outputs | 1 stepper motor valve |
| Valve type | Bipolar stepper valve |
| Storage temperature | -30 – 80 °C / -22 – 176 °F |
| Operating temperature | -20 – 70 °C / -4 – 158 °F |
| Humidity | <90% RH, non–condensing |
| Enclosure rating IP | IP20 |

⁽¹⁾ The unit is suitable for use on a circuit capable of delivering not more than 50A RMS (symmetrical Amperes)

⁽²⁾For US and Canada, use class 2 power supply



Figure: Pressure transmitter DST P110



Table: Pressure transmitter DST P110

| | |
|---------------------------------|---|
| Name | Pressure transmitter DST P110 |
| Code number | 075G1013 |
| Pressure range [bar] | -1 – 12 bar |
| Supply voltage | 5V DC |
| Output signal | Ratio metric of supply voltage (10 – 90% / 0.5V DC – 4.5V DC) |
| Electrical connection | Round Packard Metri-Pack 3 pin (standard 150.2 SERIES) |
| Pressure connection type | UNF 7 / 16–20 (standard SAE J513 45° flare) |
| Medium temperature range | –40 to 135 °C |
| Ambient temperature range | –40 to 125 °C |
| Enclosure with mating connector | IP67 |



Figure: Accessory Cable 10 m Round Packard

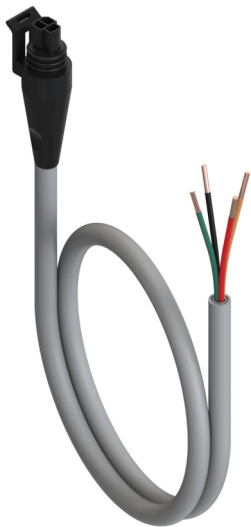


Table: Accessory Cable 10 m Round Packard (pressure transmitter accessory)

| | |
|-----------------------|---|
| Name | Accessory Cable 10 m Round Packard (pressure transmitter accessory) |
| Code number | 064G0950 |
| Electrical connection | Round Packard Metri-Pack |
| Enclosure | IP67 |



Figure: Temperature Sensor AKS 11



Table: Temperature Sensor AKS 11

| | |
|-----------------|--------------------------------------|
| Name | Temperature Sensor AKS 11 |
| Code number | 084N0008 |
| Measuring range | -40 to 100 °C |
| Sensor element | PT 1000 (standard EN 60751 class B) |
| Cable length | 8.5m (PVC 2 x 0.22 mm ²) |
| Enclosure | IP67 |



Figure: Coil for ETS 5M

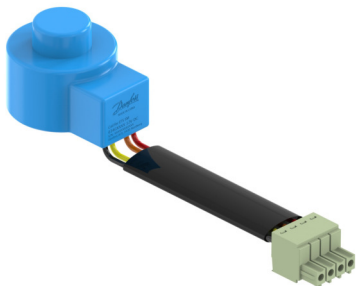


Table: Coil for ETS 5M

| | |
|----------------------|---------------------|
| Name | Coil for ETS 5M |
| Code number | 034G3863 |
| Class of Insulation | B |
| Motor type | Bi-polar |
| Supply voltage | 12 V DC +10% / -15% |
| Coil resistance | 50 ohm ± 6% |
| Rated current | 0.24 A |
| Cable length | 2.7 m |
| Electrical connector | MC-RA3.5H04C-0001 |
| Enclosure rating IP | IP67 |

Contact details

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