KELD

REFRIGERATION · DEAD BAND · KTS23D

REFRIGERATION DEAD-BAND CONTROLLER

KTS33D



DEAD BAND
2 relays · up to 3 RTD probes
CONFIGURATION

IP67
Front protection · IP20 rear
PROTECTION

NFC
Program from the KTS APP
CONNECTIVITY

CORE FEATURES

- Capacitive touch keyboard. Easy to clean, sealed and reliable in use.
- Large-number display, easy to read from a distance and from any angle.
- Plug-in terminal versions make install and controller replacement faster.

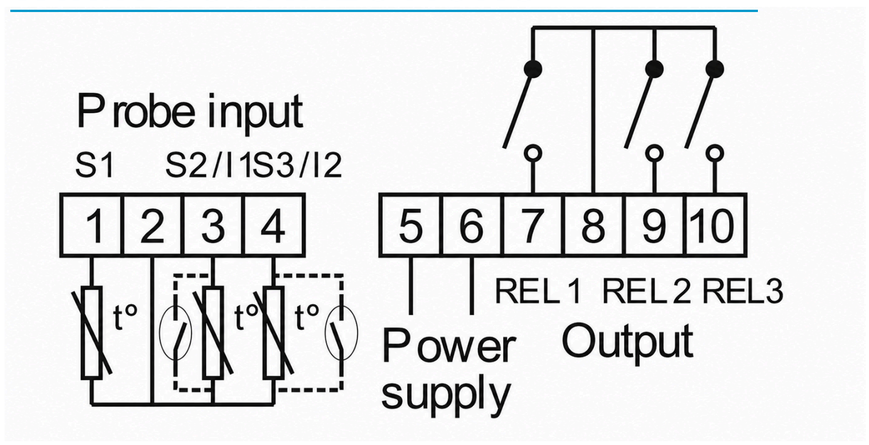
INPUTS & OUTPUTS

- Probe inputs: 3 × RTD (PTC / NTC). Two inputs can be set as digital inputs.
- REL1 (compressor). N.O. 16 A (RL), 10 FLA, 60 LRA, 240 V, 1 HP.
- REL2. N.O. 10 A (RL), 240 V. Configurable (h7). Default: defrost.
- REL3. N.O. 5 A (RL), 240 V. Configurable (h8). Default: fan.

MEASUREMENT RANGE

- RTD PTC: -50 °C to 150 °C (±1% F.S.)
- RTD NTC: -20 °C to 110 °C (±1% F.S.)

WIRING CONNECTIONS



STANDARDS & COMPLIANCE

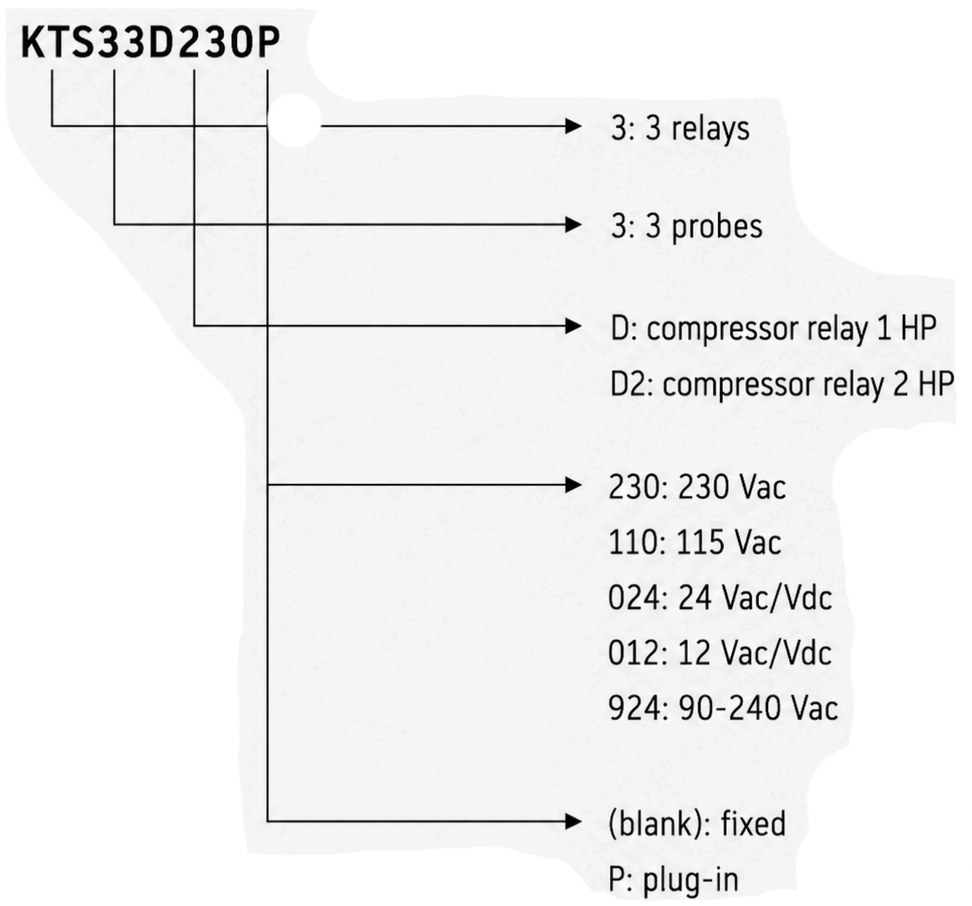
- Safety: IEC/EN/UL/CSA 60730-1, 60730-2-9
- EMC: IEC/EN 61000-6-1 / -2 / -3 / -4
- Flammable refrigerant gases: applicable requirements of IEC/EN 60335-1, 60335-2-89. Relays comply with UL/IEC 60079-15.

TECHNICAL SPECIFICATIONS

KTS33D 3 × RTD (PTC / NTC)

Housing	Self-extinguishing polycarbonate
Temperature	Operating −20 °C to 60 °C Storage −40 °C to 85 °C (≤90% RH, non-cond.)
Accuracy/ Resolution	±1% F.S. · 0.1 ° or 1 ° (decimal point, p4)
Dimensions	Front 80 × 35.5 mm · cut-out 71 × 29 mm Depth 76 mm Height 70.3 mm Panel thickness 0.8–2.5 mm
Terminals	Screw, wire ≤ 2.5 mm². Fixed 20 A / plug-in 15 A
Power absorption	3.5 VA max.
Electrical safety	Software class A · pollution degree 2 2500 V impulse · overvoltage cat. II Type of action 1.C. Operating control (not safety).
Power supply	Universal 85–265 Vac (47–63 Hz) or fixed voltage — see ordering code

HOW TO ORDER



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