E•LDS: UA 300 E CASE CONTROLLER
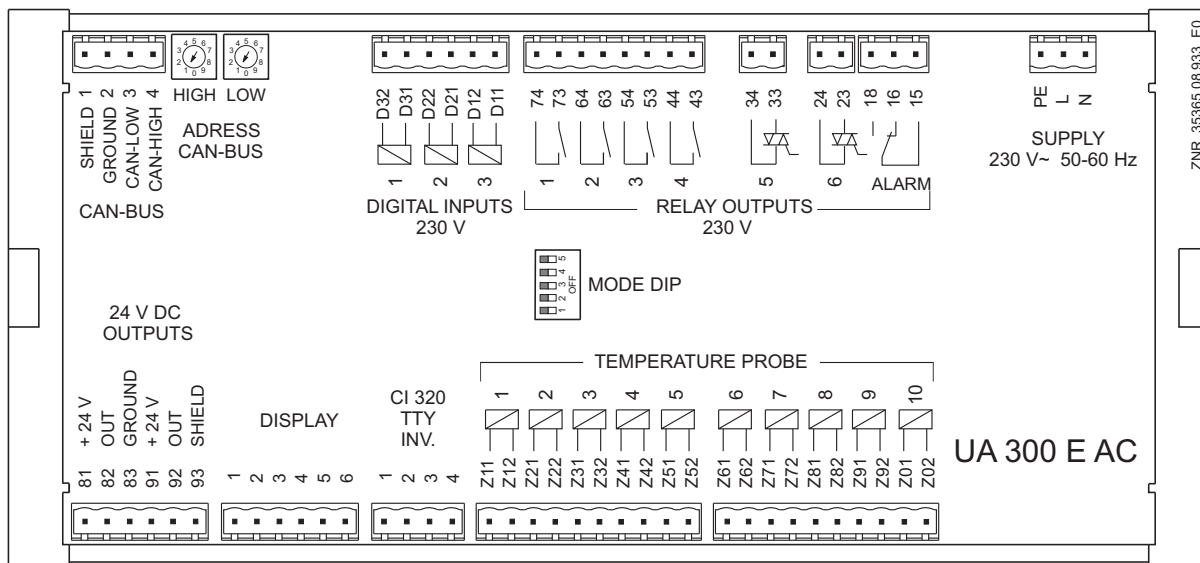

Special functions and features

‣ Universal controller for normal-temperature display cases with or without defrost heater, service counters, low-temperature display cases, walk-in chillers and freezers, refrigerant subcooler

‣ Custom build for Electronic Expansion Valves (EEV) controlling

‣ Controls one or two refrigeration points each with one Electronic Expansion Valve

‣ Optional continuous or on-off control of refrigeration temperature

‣ Cross-controller master-slave function for coordination of defrosting

‣ Connection of up to 10 temperature sensors of different types (K243 / L243, K277, 5K3A1)

‣ MOP function

‣ Optionally energy save function for anticondensation heater

‣ Intelligent superheat control by pressure or temperature difference

‣ Discharge gas defrosting, demand defrosting, electric defrost heater and off-cycle defrosting

‣ Measurement archiving in stand-alone operation

‣ Versatile operating and display capabilities using separate BT 300 x Operator Unit, AL 300 Operator Terminal, CI 3000 Store Computer, service computer, operator computer in store or host computer at service centre

‣ Internal 230 V power supply

Order numbers

‣ LIUA3E0015   UA 300 E AC Case Controller for two Electronic Expansion Valves (EEV), CAN bus, real time clock, stand-alone, internal archive

ECKELMANN

Connection diagram UA 300 E AC

CAN-BUS
SHIELD 1
GROUND 2
CAN-LOW 3
CAN-HIGH 4

HIGH LOW
ADRESS
CAN-BUS

D32 D31 D22 D21 D12 D11
1 2 3
DIGITAL INPUTS
230 V

74 73 64 63 54 53 44 43
1 2 3 4
RELAY OUTPUTS
230 V

34 33 24 23 18 16 15
5 6 ALARM

PE ⊥ N
SUPPLY
230 V~ 50-60 Hz

ZNR. 35365 08 933_E0

MODE DIP

24 V DC
OUTPUTS

+ 24 V OUT / GROUND / + 24 V OUT / SHIELD
81 82 83 91 92 93

DISPLAY
1 2 3 4 5 6

CI 320
TTY
INV.
1 2 3 4

TEMPERATURE PROBE
1 2 3 4 5 6 7 8 9 10
Z11 Z12 Z21 Z22 Z31 Z32 Z41 Z42 Z51 Z52 Z61 Z62 Z71 Z72 Z81 Z82 Z91 Z92 Z01 Z02

UA 300 E AC

Specifications

Electrical connection

▶	Operating Power	230 V AC, 200 - 265 V AC / 50 - 60 Hz / 10 VA

Interfaces

▶	Outputs	Relay:	Four N.O. / one changeover 250 VAC / 6 A floating output for defrost, fan, pane heater, alarm, etc.
		Transistors:	Two 24 V DC / max. 50 mA, for alarm, anticondensation heater
▶	Digital Inputs:		Three 230 V AC floating inputs for setpoint toggle, manual shutoff, coldroom door, defrost
▶	Analog:		Ten temperature sensors (K243 / L243, K277, 5K3A1) for evaporator, evaporator in, evaporator out, supply air, return air and room air temperatures
▶	Field bus:		CAN bus / floating
▶	Serial:		TTY inverted
▶	Operator unit:		Interface for BT-family
▶	Data archiving:		One year (via CI 3000 Store Computer if available) and One year (stand-alone)
▶	Real-time clock:		Battery-backed, lithium cell
▶	Monitoring function:		Watchdog

General data

▶	Module width:		B 267 x H 128 x D 50 mm
▶	Temperature range	Transport:	-20°C .. +80°C
		Operating:	0°C .. +50°C
▶	Relative humidity	Transport:	8% .. 80%
		Operating:	20% .. 80%
▶	Protection:		IP20
▶	Standards:		EC conformation declaration according
			▶ 89/336/EWG (EMC-standards)
			▶ 73/23/EWG (low voltage standard)