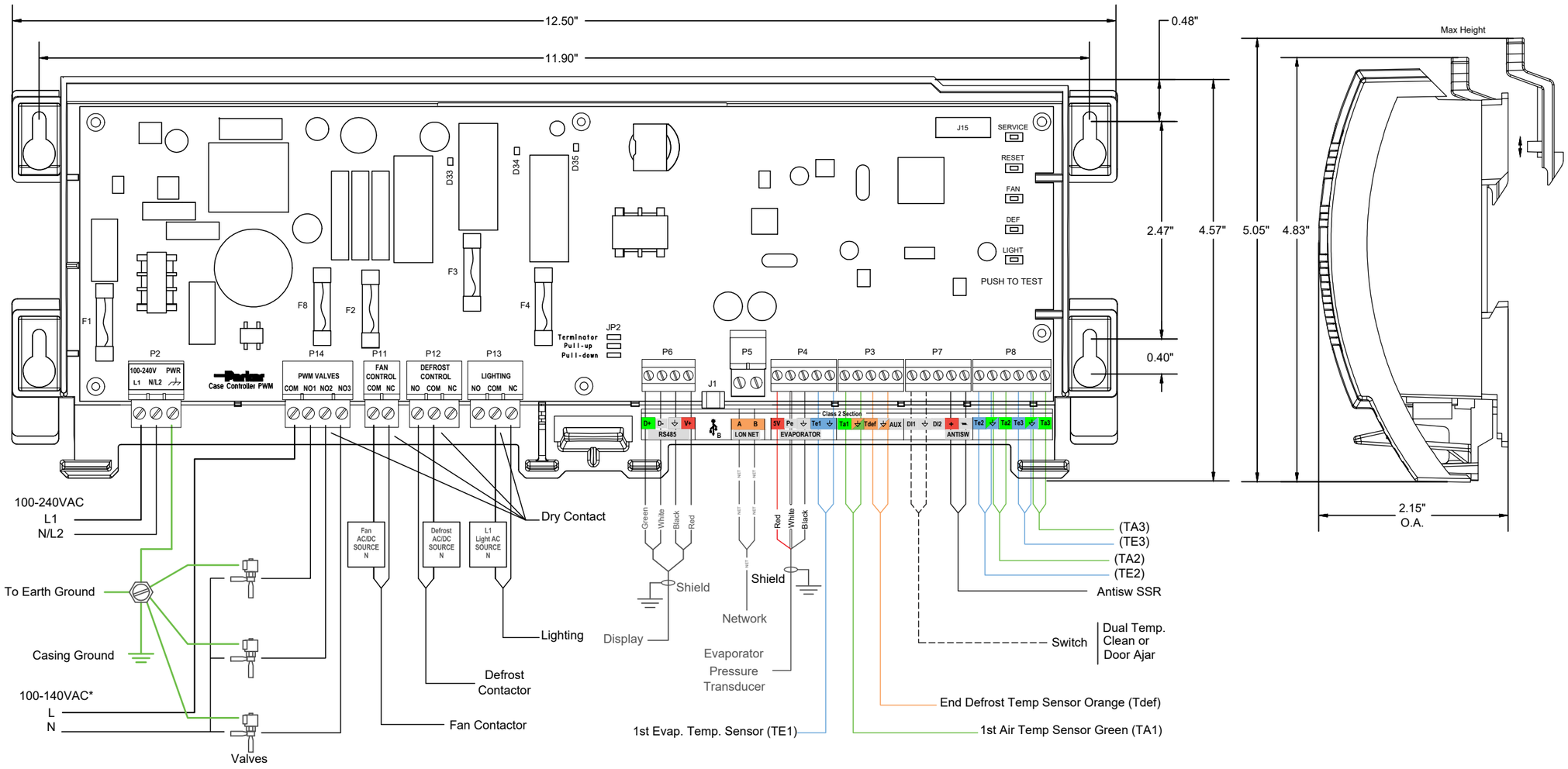

IN / OUT DESCRIPTION

Case Controller POWER IN: Between 100V and 240V, field installed by electrical contractor.

VALVES: Up to 3 Pulse width modulating 100-140VAC. Each valve must not exceed 250mA (see note B) Need external power according to valve rating. All valves must be the same voltage.

FAN CONTROL: No motor rating. Need an external interface relay/contactor for motor load (see note 1)

DEFROST CONTROL: Always use an external interface relay or contactor for electric defrost. (Need external power up to 240V)

LIGHTING: Max 2.4A @ 240V or 3.6A @ 120V when driven directly by the controller - use an external interface relay/contactor when load is over that rating. (Need external power up to 240VAC)

RS485/DC OUT: Commucation for remote display option

NETWORK: Echelon type 2#18, Stranded, 7/26 UTP (Unshielded Twisted Pair) Belden 8461 type or Equivalent, field installed by the EMS Contractor

Pe: Pressure transducer used with Te to calculate superheat (see note A)

Te: 10K evaporator T° sensor P/N 023-0076 used for superheat (Blue)

Ta: 10K air T° sensor P/N 023-0073 used for alarm monitoring (Green)

Tdef: 10K T° sensor P/N 023-0072 used for end defrost (Orange)

DI1/DI2: Configurable switches for following applications: Clean switch, Door ajar & Dual temperature case

ANTISW: Pulse output 5VDC/15mA max to control external solid state relay for Anti sweat heater (SSR supplied by case manufacturer)

Note (1): The external relay type must be recommended by the equipment manufacturer.

NOTE A

Pressure transducer ordering information

PSIS	Without cable	With 19' cable	Connection	Application
200	023-0397	952-0012	1/4" SAE flare female with deflator	Standard Refrigerant
652	023-0370	952-0008	1/4" SAE flare female with deflator	CO2
200	023-0148	952-0004	1/8" NPT male	Standard Refrigerant
652	023-0441	952-0018	1/8" NPT male	CO2
Sensor with 50' cable are available on special order				

NOTE B

VALVES SUPPORTED

SPORLAN: SPW Series with suitable coil rating.

DANFOSS: AKV Series with suitable coil rating.

Or any PWM valve with 100mA min and no more than 250mA load each.
100-140 VAC.

NOTE C

DIN RAIL SIZING

Case Controller to be mounted on din rail: din rail size 1 3/8" (35mm) of minimum 12"1/2 (32cm)

Fuse

Fuse	Part #	Description
F1	430-0021	GMA 2A/250V fast acting 5X20mm
F2, F3, F4	430-0048	GMC 5A/250V slow blow 5X20mm
F8	430-0065	GMA 1.5A/250V fast acting 5X20mm

Ordering info:

963-663A is 961-663A provided with metal box
963-3V2R is 963-663A with a 2 Relay Card
963-3V3R is 963-663A with a Relay Card and SSR

DATE	DESCRIPTION	REV.
2022-02-09	Note 1 added	3.4
2019-05-29	Valves rating updated	3.2, 3.3
2019-03-01	Valves rating updated	03.1
2019-02-01	Fan/defrost description update from R&D	02
2018-12-11	Specification update from R&D	01

SYSTEM :

REFRIGERATION

AUTOMATISATION / CONTROL :

Parker
Micro Thermo Technologies ™
12855 Rue Brault, Mirabel
Quebec, Canada J7J 0C4
Tel: (450) 668-3033
Fax: (450)668-2695

TITLE:

Case Controller PWM Wiring (UL)

PART#:

961-663A

c UL us LISTED

Drawn By :	Designed By :	Approved By :	Revision :
H.R.	R.L.	R.L.	3.4

Scale :	Date :	File Name :
N.T.S.	2022-02-09	Case Controller PWM