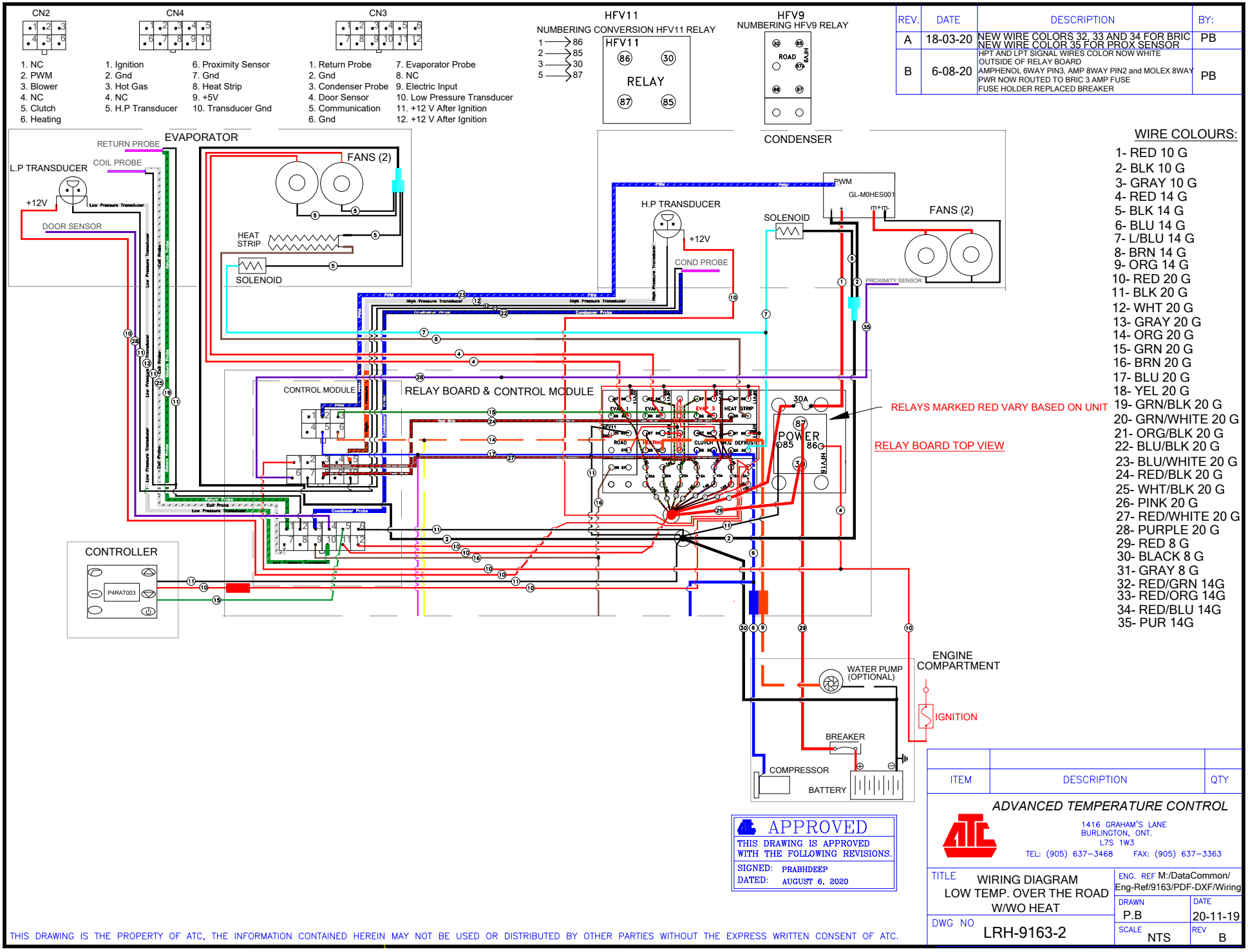
ADVANCED TEMPERATURE CONTROL
TRUCK REFRIGERATION SYSTEMS

9163 – Controller

UNIT WIRING DIAGRAMS FOR LOW TEMPERATURE UNITS

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONTARIO
CANADA
L7S 1W3

Manual P.N. **M960148** Revision C, August 7, 2020



REV.	DATE	DESCRIPTION	BY:
A	18-03-20	NEW WIRE COLORS 32, 33 AND 34 FOR BRIC NEW WIRE COLOR 35 FOR PROX SENSOR	PB
B	6-08-20	HPT AND LPT SIGNAL WIRES COLOR NOW WHITE OUTSIDE OF RELAY BOARD AMPHENOL 6WAY PIN3, AMP 8WAY PIN2 and MOLEX 8WAY PWR NOW ROUTED TO BRIC 3 AMP FUSE FUSE HOLDER REPLACED BREAKER	PB

WIRE COLOURS:

1- RED 10 G
2- BLK 10 G
3- GRAY 10 G
4- RED 14 G
5- BLK 14 G
6- BLU 14 G
7- L/BLU 14 G
8- BRN 14 G
9- ORG 14 G
10- RED 20 G
11- BLK 20 G
12- WHT 20 G
13- GRAY 20 G
14- ORG 20 G
15- GRN 20 G
16- BRN 20 G
17- BLU 20 G
18- YEL 20 G
19- GRN/BLK 20 G
20- GRN/WHITE 20 G
21- ORG/BLK 20 G
22- BLU/BLK 20 G
23- BLU/WHITE 20 G
24- RED/BLK 20 G
25- WHT/BLK 20 G
26- PINK 20 G
27- RED/WHITE 20 G
28- PURPLE 20 G
29- RED 8 G
30- BLACK 8 G
31- GRAY 8 G
32- RED/GRN 14G
33- RED/ORG 14G
34- RED/BLU 14G
35- PUR 14G

APPROVED
THIS DRAWING IS APPROVED WITH THE FOLLOWING REVISIONS.
SIGNED: PRABHDEEP
DATED: AUGUST 6, 2020

ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE	WIRING DIAGRAM LOW TEMP. OVER THE ROAD W/WO HEAT
ENG. REF	M:/DataCommon/Eng-Ref/9163/PDF-DXF/Wiring
DRAWN	P.B
DATE	20-11-19
DWG NO	LRH-9163-2
SCALE	NTS
REV	B

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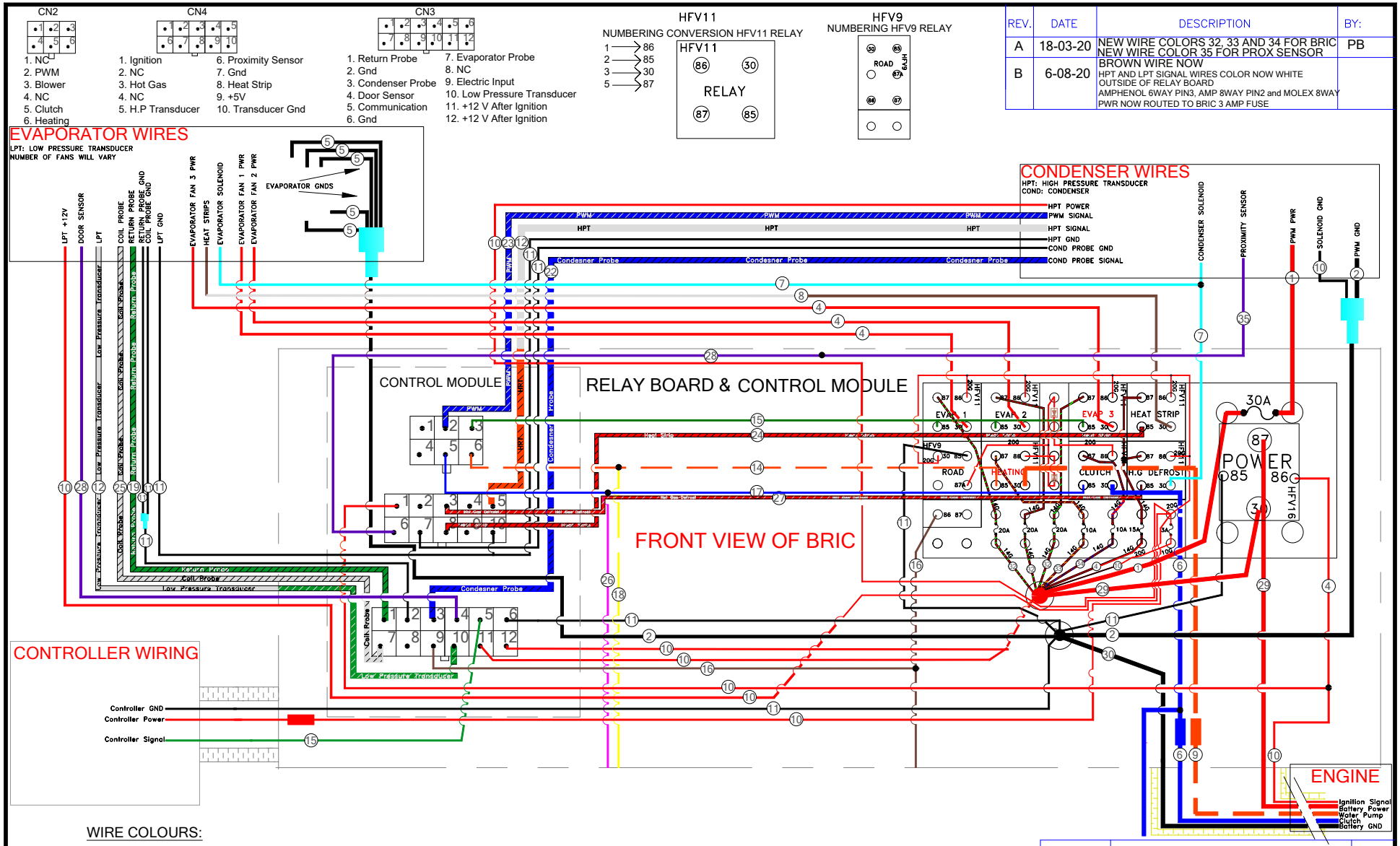

REV.	DATE	DESCRIPTION	BY:
A	18-03-20	NEW WIRE COLORS 32, 33 AND 34 FOR BRIC NEW WIRE COLOR 35 FOR PROX SENSOR	PB
B	6-08-20	BROWN WIRE NOW HPT AND LPT SIGNAL WIRES COLOR NOW WHITE OUTSIDE OF RELAY BOARD AMPHENOL 6WAY PIN3, AMP 8WAY PIN2 and MOLEX 8WAY PWR NOW ROUTED TO BRIC 3 AMP FUSE	

WIRE COLOURS:

1- RED 10 G	13- GRAY 18 G	25- WHT/BLK 18 G
2- BLK 10 G	14- ORG 18 G	26- PINK 18 G
3- GRAY 10 G	15- GRN 18 G	27- RED/WHT 18 G
4- RED 14 G	16- BRN 18 G	28- PUR 20 G
5- BLK 14 G	17- BLU 18 G	29- RED 8 G
6- BLU 14 G	18- YEL 18G	30- BLK 8G
7- L/BLU 14 G	19- GRN/BLK 18G	31- GRAY 8G
8- BRN 14 G	20- GRNWHT 20 G	32- RED/GRN 14G
9- ORG 14 G	21- ORG/BLK 20 G	33- RED/ORG 14G
10- RED 18 G	22- BLU/BLK 20 G	34- RED/BLU 14G
11- BLK 18 G	23- BLU/WHT 20 G	35- PUR 14G
12- WHT 18 G	24- RED/BLK 20 G	

NOTES

WIRE INSERT VIEW FOR CONTROL MODULE MOLEX CONNECTORS

ITEM	DESCRIPTION	QTY

PART NO. M920310
DATE JAN 25, 2019

APPROVED
THIS DRAWING IS APPROVED WITH THE FOLLOWING REVISIONS.
SIGNED: PRABHDEEP
DATED: AUGUST 6, 2020

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE	WIRING DIAGRAM LOW TEMP. OVER THE ROAD W/WO HEAT	ENG. REF	M:/DataCommon/Eng-Ref/9163/PDF-DXF/Wiring
DWG NO	LRH-9163-3	DRAWN	P.B
		DATE	20-11-19
		SCALE	NTS
		REV	B

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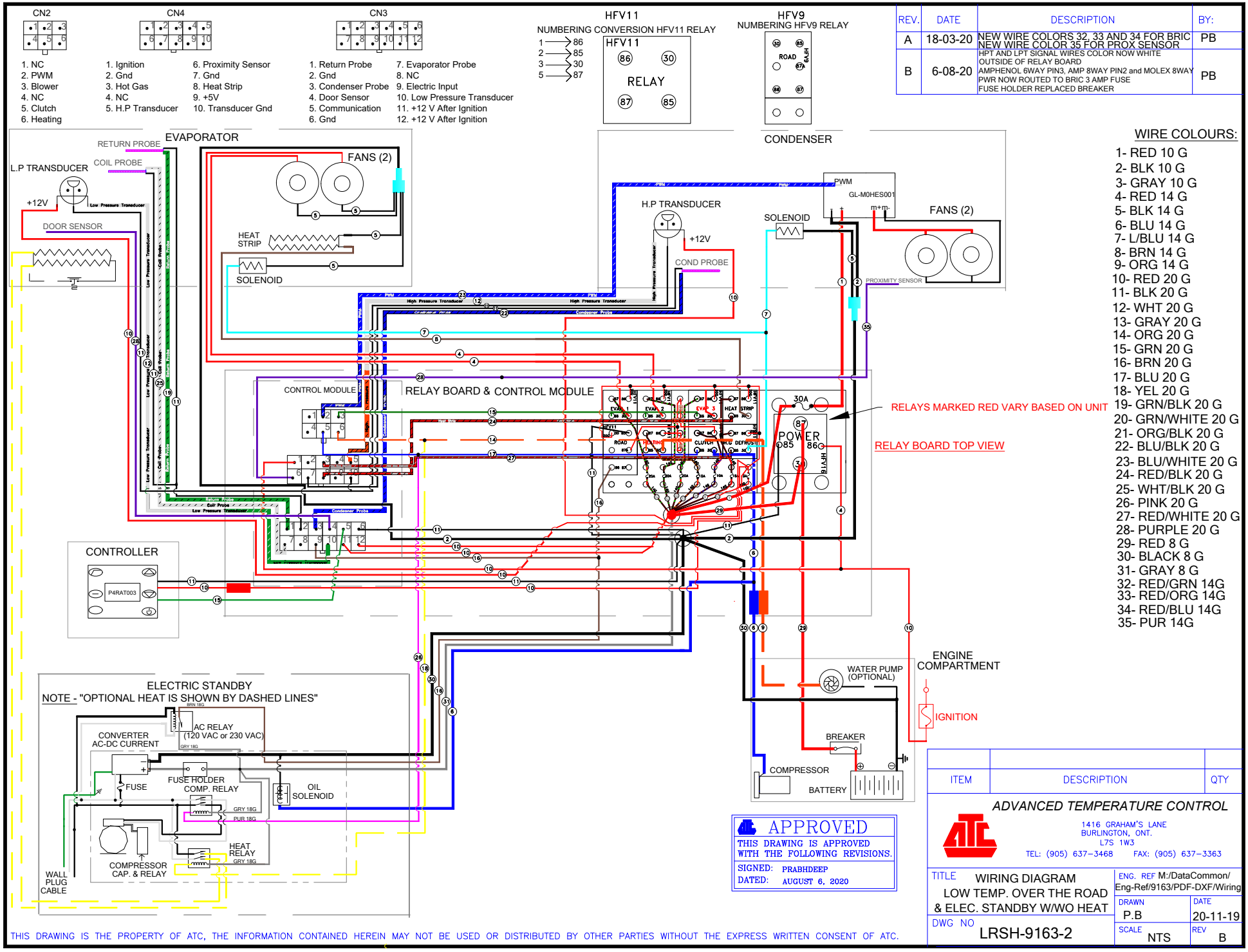

REV.	DATE	DESCRIPTION	BY:
A	18-03-20	NEW WIRE COLORS 32, 33 AND 34 FOR BRIC NEW WIRE COLOR 35 FOR PROX SENSOR	PB
B	6-08-20	HPT AND LPT SIGNAL WIRES COLOR NOW WHITE OUTSIDE OF RELAY BOARD AMPHENOL 6WAY PIN3, AMP 8WAY PIN2 and MOLEX 8WAY PWR NOW ROUTED TO BRIC 3 AMP FUSE FUSE HOLDER REPLACED BREAKER	PB

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DATED: AUGUST 6, 2020

ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE	WIRING DIAGRAM LOW TEMP. OVER THE ROAD & ELEC. STANDBY W/WO HEAT
ENG. REF	M:/DataCommon/Eng-Ref/9163/PDF-DXF/Wiring
DRAWN	P.B
DATE	20-11-19
DWG NO	LRSH-9163-2
SCALE	NTS
REV	B

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CN2

1. NC
2. PWM
3. Blower
4. NC
5. Clutch
6. Heating

CN4

1. Ignition
2. NC
3. Hot Gas
4. NC
5. H.P Transducer
6. Proximity Sensor
7. Gnd
8. Heat Strip
9. +5V
10. Transducer Gnd

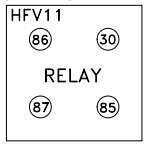
CN3

1. Return Probe
2. Gnd
3. Condenser Probe
4. Door Sensor
5. Communication
6. Gnd
7. Evaporator Probe
8. NC
9. Electric Input
10. Low Pressure Transducer
11. +12 V After Ignition
12. +12 V After Ignition

HFV11

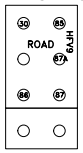
NUMBERING CONVERSION HFV11 RELAY

1 → 86
2 → 85
3 → 30
5 → 87



HFV9

NUMBERING HFV9 RELAY



REV.	DATE	DESCRIPTION	BY:
A	18-03-20	NEW WIRE COLORS 32, 33 AND 34 FOR BRIC NEW WIRE COLOR 35 FOR PROX SENSOR	PB
B	6-08-20	CN3 PIN 9 WIRE NOW BROWN HPT AND LPT SIGNAL WIRES COLOR NOW WHITE OUTSIDE OF RELAY BOARD AMPHENOL 6WAY PIN3, AMP 8WAY PIN2 and MOLEX 8WAY PWR NOW ROUTED TO BRIC 3 AMP FUSE	PB

EVAPORATOR WIRES

LPT: LOW PRESSURE TRANSDUCER
NUMBER OF FANS WILL VARY

LPT +12V
DOOR SENSOR
LPT
COIL PROBE
RETURN PROBE
RETURN PROBE GND
LPT GND
EVAPORATOR FAN 3 PWR
HEAT STRIPS
EVAPORATOR SOLENOID
EVAPORATOR FAN 1 PWR
EVAPORATOR FAN 2 PWR
EVAPORATOR GNDS

CONDENSER WIRES

HPT: HIGH PRESSURE TRANSDUCER
COND: CONDENSER

HPT POWER
PWM SIGNAL
HPT SIGNAL
HPT GND
COND PROBE GND
COND PROBE SIGNAL
CONDENSER SOLENOID
PROXIMITY SENSOR
PWM PWR
SOLENOID GND
PWM GND

CONTROL MODULE

RELAY BOARD & CONTROL MODULE

FRONT VIEW OF BRIC

EVAP 1
EVAP 2
EVAP 3
HEAT STRIP
HFV9
ROAD
HEATING
CLUTCH
H.G DEFROST
HFV11
30A
POWER
HFV16

CONTROLLER WIRING

Controller GND
Controller Power
Controller Signal

AC/DC CONVERTER SIGNAL TO AC RELAY
AC/DC CONVERTER GND
AC/DC CONVERTER PWR
CLUTCH SIGNAL TO COMP RELAY
HEATING SIGNAL TO HEAT RELAY
POWER TO OIL SOLENOID

STANDBY WIRING

ENGINE
Ignition Signal
Battery Power
Water Pump
Clutch
Battery GND

WIRE COLOURS:

1- RED 10 G	13- GRAY 18 G	25- WHT/BLK 18 G
2- BLK 10 G	14- ORG 18 G	26- PINK 18 G
3- GRAY 10 G	15- GRN 18 G	27- RED/WHT 18 G
4- RED 14 G	16- BRN 18 G	28- PUR 20 G
5- BLK 14 G	17- BLU 18 G	29- RED 8 G
6- BLU 14 G	18- YEL 18G	30- BLK 8G
7- L/BLU 14 G	19- GRN/BLK 18G	31- GRAY 8G
8- BRN 14 G	20- GRNWHT 20 G	32- RED/GRN 14G
9- ORG 14 G	21- ORG/BLK 20 G	33- RED/ORG 14G
10- RED 18 G	22- BLU/BLK 20 G	34- RED/BLU 14G
11- BLK 18 G	23- BLU/WHT 20 G	35- PUR 14G
12- WHT 18 G	24- RED/BLK 20 G	

NOTES

WIRE INSERT VIEW FOR CONTROL MODULE MOLEX CONNECTORS

PART NO.
M920310
DATE JAN 25, 2019

APPROVED
THIS DRAWING IS APPROVED WITH THE FOLLOWING REVISIONS.
SIGNED: PRABHDEEP
DATED: AUGUST 6, 2020

ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE WIRING DIAGRAM
LOW TEMP. OVER THE ROAD & ELEC. STANDBY W/WO HEAT

ENG. REF M:/DataCommon/Eng-Ref/9163/PDF-DXF/Wiring

DRAWN P.B
DATE 20-11-19
DWG NO LRSH-9163-3
SCALE NTS
REV B

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REV.	DATE	DESCRIPTION	BY:
A	18-03-20	AC/DC CONVERTER PWR & GND 8G	PB
B	8-06-20	FUSE HOLDER REPLACED BREAKER RE-ROUTED POWER WIRES	PB

CN2

1. NC
2. PWM
3. Blower
4. NC
5. Clutch
6. Heating

CN4

1. Ignition
2. Gnd
3. Hot Gas
4. NC
5. H.P Transducer
6. Proximity Sensor
7. Gnd
8. Heat Strip
9. +5V
10. Transducer Gnd

CN3

1. Return Probe
2. Gnd
3. Condenser Probe
4. Door Sensor
5. Communication
6. Gnd
7. Evaporator Probe
8. NC
9. Electric Input
10. Low Pressure Transducer
11. +12 V After Ignition
12. +12 V After Ignition

WIRE RUN TO EVAPORATOR

YEL 10G

YEL 10G

ESB POWER & SIGNAL HARNESSES 12VDC

M920316 - ESB POWER HARNESS: WIRES 30 & 31

M920317 - ESB SIGNAL HARNESS: WIRES 26, 18, 6, & 16

CLUTCH SIGNAL TO COMP RELAY

HEATING SIGNAL TO HEAT RELAY

AC/DC CONVERTER GND

AC/DC CONVERTER SIGNAL TO AC RELAY

AC/DC CONVERTER PWR

POWER TO OIL SOLENOID

WIRE COLOURS:

1- RED 10 G
2- BLK 10 G
3- GRAY 10 G
4- RED 14 G
5- BLK 14 G
6- BLU 14 G
7- L/BLU 14 G
8- BRN 14 G
9- ORG 14 G
10- RED 20 G
11- BLK 20 G
12- WHT 20 G
13- GRAY 20 G
14- ORG 20 G
15- GRN 20 G
16- BRN 20 G
17- BLU 20 G
18- YEL 20 G
19- GRN/BLK 20 G
20- GRN/WHITE 20 G
21- ORG/BLK 20 G
22- BLU/BLK 20 G
23- BLU/WHITE 20 G
24- RED/BLK 20 G
25- WHT/BLK 20 G
26- PINK 20 G
27- RED/WHITE 20 G
28- PURPLE 20 G
29- RED 8 G
30- BLACK 8 G
31- GRAY 8 G
32- RED/GRN 14G
33- RED/ORG 14G
34- RED/BLU 14G
35- PUR 14G

ELECTRIC STANDBY - COPELAND

NOTE - "OPTIONAL HEAT IS SHOWN BY DASHED LINES"

AC RELAY (120 VAC or 230 VAC)

BLK

WHT

BRN 18G

CONVERTER AC-DC CURRENT

GRY 18G

GRN

WHT

BLK

FUSE

FUSE HOLDER COMP. RELAY

OIL SOLENOID

GRY 18G

PUR 18G

HEAT RELAY

GRY 18G

YEL 18G

COMPRESSOR CAP. & RELAY

WALL PLUG POWER CABLE 120/230 VAC

EVAP. HEAT ELEMENT HARNESS 120/230 VAC

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SIGNED: PRABHDEEP

DATED: AUGUST 6, 2020

UNIT INTERNAL COLOR CODE:
BLUE=BLU, BROWN=BRN, BLACK=BLK, ORANGE=ORG, PURPLE=PUR, YELLOW=YEL, WHITE=WHT

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ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL

1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE: WIRING DIAGRAM
LOW/MED. TEMP. W/WO HEAT

ENG. REF M:/DataCommon/Eng-Ref/9163/PDF-DXF/Wiring

DRAWN: P.B

DATE: 25-10-19

DWG NO: L/MRSH-9163-7

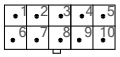
SCALE: NTS

REV: B

CN2

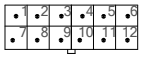
1. NC
2. PWM
3. Blower
4. NC
5. Clutch
6. Heating

CN4



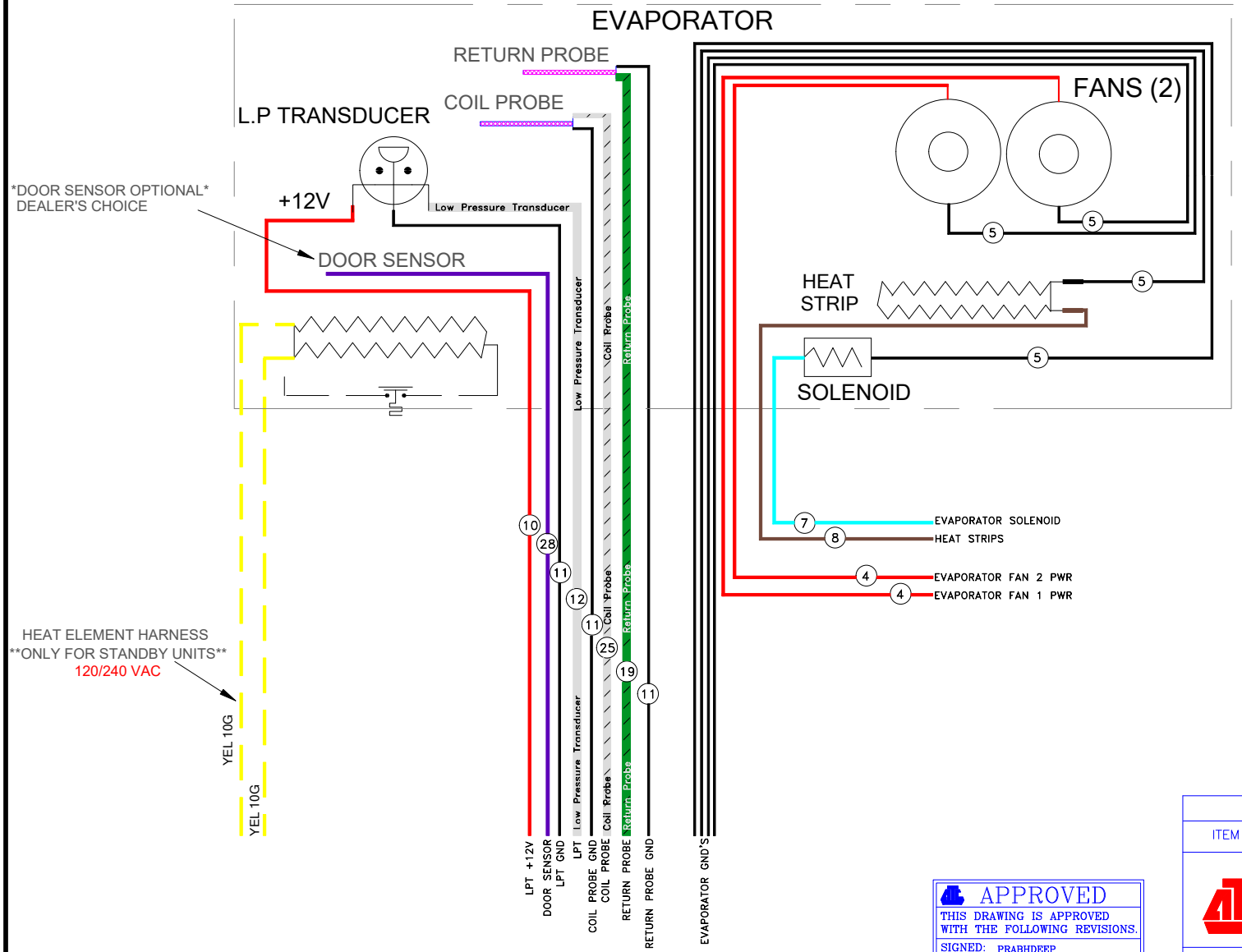
1. Ignition
2. Gnd
3. Hot Gas
4. NC
5. H.P Transducer
6. Proximity Sensor
7. Gnd
8. Heat Strip
9. +5V
10. Transducer Gnd

CN3



1. Return Probe
2. Gnd
3. Condenser Probe
4. Door Sensor
5. Communication
6. Gnd
7. Evaporator Probe
8. NC
9. Electric Input
10. Low Pressure Transducer
11. +12 V After Ignition
12. +12 V After Ignition

REV.	DATE	DESCRIPTION	BY:
A	18-03-20	ADDED ALL WIRE COLOUR LABELS	PB
B	6-08-20	LPT SIGNAL WIRE NOW WHITE REMOVED MISLEADING GND SPLICE	PB



WIRE COLOURS:

1- RED 10 G
2- BLK 10 G
3- GRAY 10 G
4- RED 14 G
5- BLK 14 G
6- BLU 14 G
7- L/BLU 14 G
8- BRN 14 G
9- ORG 14 G
10- RED 18 G
11- BLK 18 G
12- WHT 18 G
13- GRAY 18 G
14- ORG 18 G
15- GRN 18 G
16- BRN 18 G
17- BLU 18 G
18- YEL 18G
19- GRN/BLK 18G
20- GRNWHT 20 G
21- ORG/BLK 20 G
22- BLU/BLK 20 G
23- BLU/WHT 20 G
24- RED/BLK 20 G
25- WHT/BLK 18 G
26- PINK 18 G
27- RED/WHT 18 G
28- PUR 20 G
29- RED 8 G
30- BLK 8G
31- GRAY 8G
32- RED/GRN 14G
33- RED/ORG 14G
34- RED/BLU 14G
35- PUR 14G

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ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE	WIRING DIAGRAM EVAPORATOR LOW. TEMP W/WO HEAT	ENG. REF	M:/DataCommon/ Eng-Ref/9163/PDF-DXF/Wiring
		DRAWN	P.B
		DATE	20-11-19
DWG NO	LRSH-9163-8	SCALE	NTS
		REV	B

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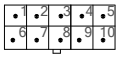
CN2

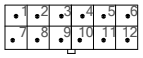
1. NC
2. PWM
3. Blower
4. NC
5. Clutch
6. Heating

CN4



1. Ignition
2. Gnd
3. Hot Gas
4. NC
5. H.P Transducer
6. Proximity Sensor
7. Gnd
8. Heat Strip
9. +5V
10. Transducer Gnd

CN3

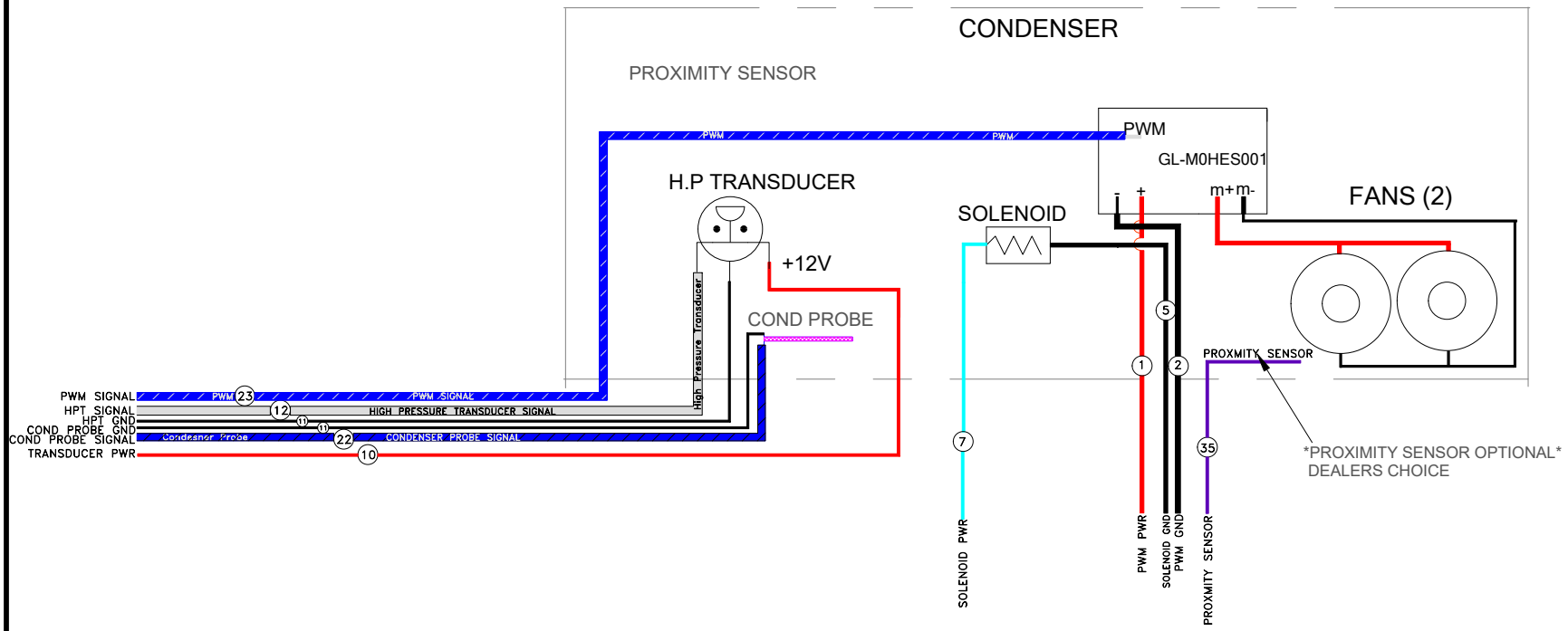


1. Return Probe
2. Gnd
3. Condenser Probe
4. Door Sensor
5. Communication
6. Gnd
7. Evaporator Probe
8. NC
9. Electric Input
10. Low Pressure Transducer
11. +12 V After Ignition
12. +12 V After Ignition

REV.	DATE	DESCRIPTION	BY:
A	18-03-20	MOVED PROX SENSOR TO PWR HARNESS & TRANDUCER PWR TO SIGNAL HARNESS	PB
B	6-08-20	HPT SIGNAL WIRE NOW WHITE REMOVED MISLEADING GND SPLICE	PB

WIRE COLOURS:

1- RED 10 G
2- BLK 10 G
3- GRAY 10 G
4- RED 14 G
5- BLK 14 G
6- BLU 14 G
7- L/BLU 14 G
8- BRN 14 G
9- ORG 14 G
10- RED 18 G
11- BLK 18 G
12- WHT 18 G
13- GRAY 18 G
14- ORG 18 G
15- GRN 18 G
16- BRN 18 G
17- BLU 18 G
18- YEL 18G
19- GRN/BLK 18G
20- GRNWHT 20 G
21- ORG/BLK 20 G
22- BLU/BLK 20 G
23- BLU/WHT 20 G
24- RED/BLK 20 G
25- WHT/BLK 18 G
26- PINK 18 G
27- RED/WHT 18 G
28- PUR 20 G
29- RED 8 G
30- BLK 8G
31- GRAY 8G
32- RED/GRN 14G
33- RED/ORG 14G
34- RED/BLU 14G
35- PUR 14G



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ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE	WIRING DIAGRAM CONDENSER LOW. TEMP W/WO HEAT	ENG. REF	M:/DataCommon/Eng-Ref/9163/PDF-DXF/Wiring
DWG NO	LRSH-9163-9	DRAWN	P.B
		DATE	20-11-19
		SCALE	NTS
		REV	B

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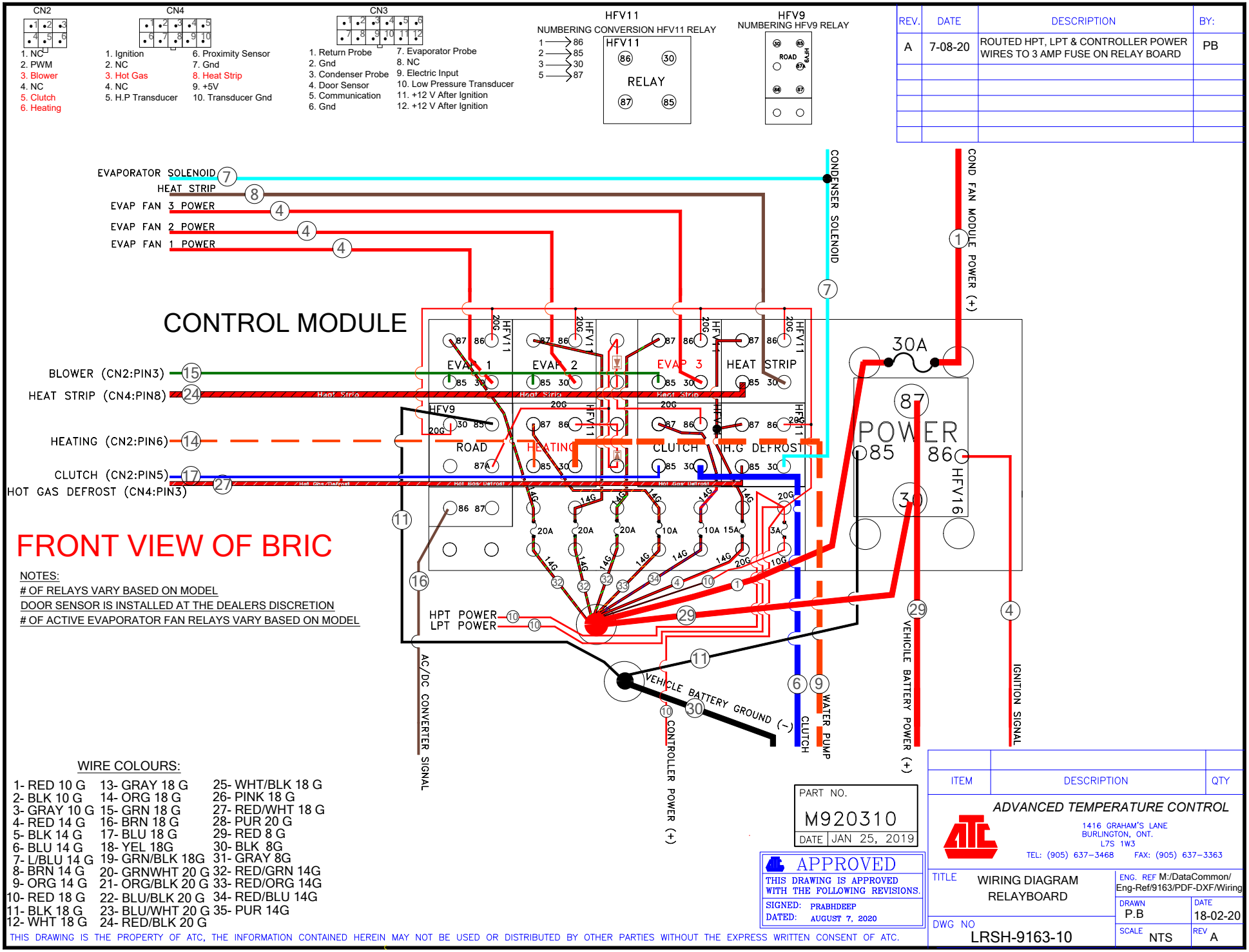

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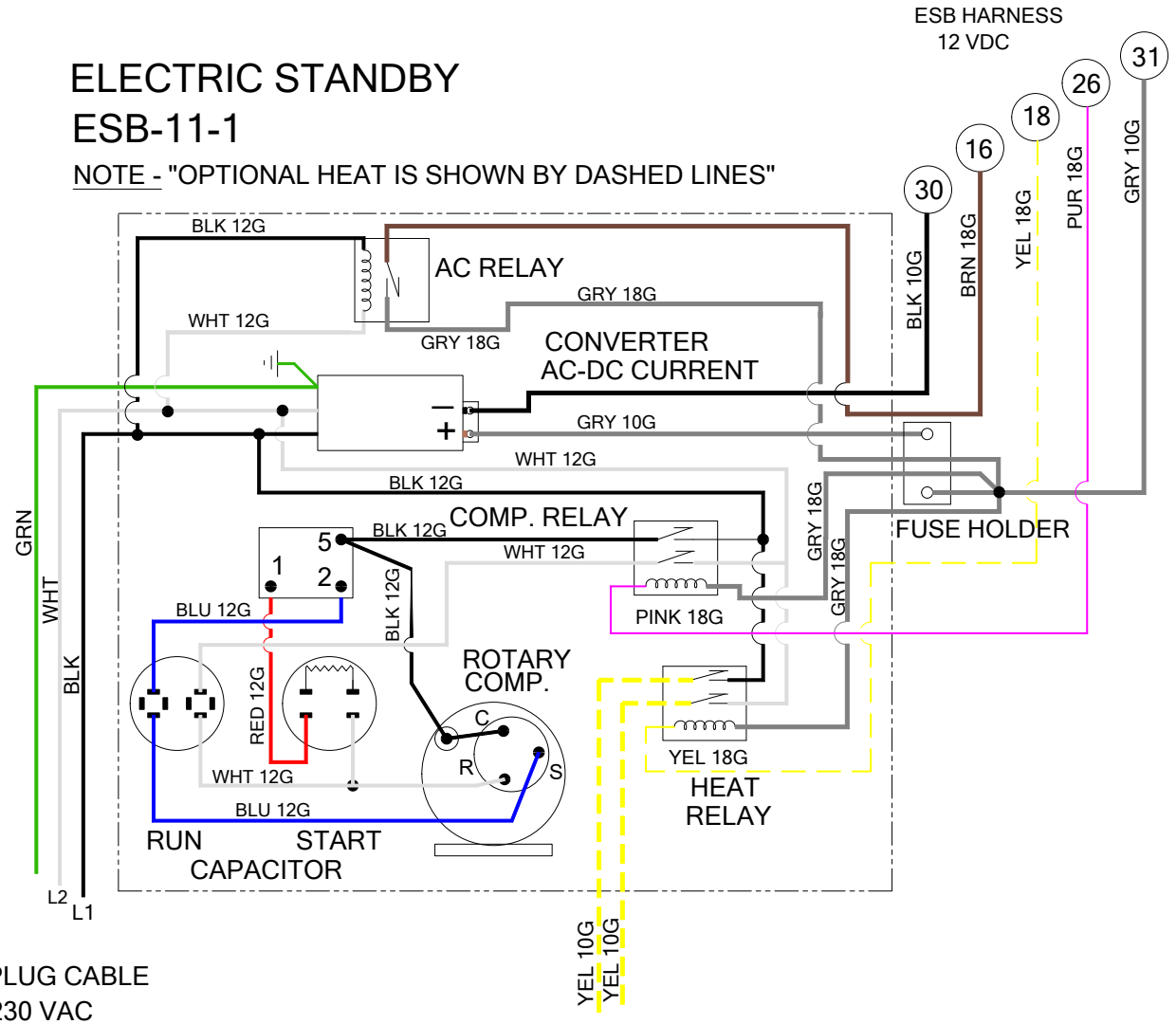
ELECTRIC STANDBY
ESB-11-1

NOTE - "OPTIONAL HEAT IS SHOWN BY DASHED LINES"

REV.	DATE	DESCRIPTION	BY:
B	FEB 10 2015	CORRECTIONS	JWM
C	FEB 7 2017	DELETED GREEN WIRE 32	JWM
D	MAR 31 2017	GREY WIRE TO COMP RELAY WAS GREEN	JWM
E	25/10/19	REVISED WIRING & ADDED AC RELAY FOR 9163 FIELD TESTING	PB
F	6/8/20	FUSE HOLDER REPLACED BREAKER RE-ROUTED POWER WIRES	PB

WIRE COLOURS:

1- RED 10 G
2- BLK 10 G
3- GRAY 10 G
4- RED 14 G
5- BLK 14 G
6- BLU 14 G
7- L/BLU 14 G
8- BRN 14 G
9- ORG 14 G
10- RED 20 G
11- BLK 20 G
12- WHT 20 G
13- GRAY 20 G
14- ORG 20 G
15- GRN 20 G
16- BRN 20 G
17- BLU 20 G
18- YEL 20 G
19- GRN/BLK 20 G
20- GRN/WHITE 20 G
21- ORG/BLK 20 G
22- BLU/BLK 20 G
23- BLU/WHITE 20 G
24- RED/BLK 20 G
25- WHT/BLK 20 G
26- PINK 20 G
27- RED/WHITE 20 G
28- PURPLE 20 G
29- RED 8 G
30- BLACK 8 G
31- GRAY 8 G



WALL PLUG CABLE
120/230 VAC

EVAP. HEAT ELEMENT
120 / 230 VAC

1	STAND–BY WIRING	1
ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637–3468
FAX: (905) 637–3363

APPROVED
THIS DRAWING IS APPROVED WITH THE FOLLOWING REVISIONS.
SIGNED: PRABHDEEP
DATED: AUGUST 7, 2020

TITLE	ENG. REF
WIRING DIAGRAM LOW/MED. TEMP. W/WO HEAT	DATACOM/ENG-REF/9163
DRAWN: PB	DATE: 25-10-2019
DWG NO: LMRSH-9136-7	CHECK / DATE / REV: F

UNIT INTERNAL COLOR CODE:
BLUE=BLU, BROWN=BRN, BLACK=BLK, ORANGE=ORG, PURPLE=PUR, RED=RED, YELLOW=YEL, WHITE=WHT, DARK=D, LIGHT=L, GREEN=GRN

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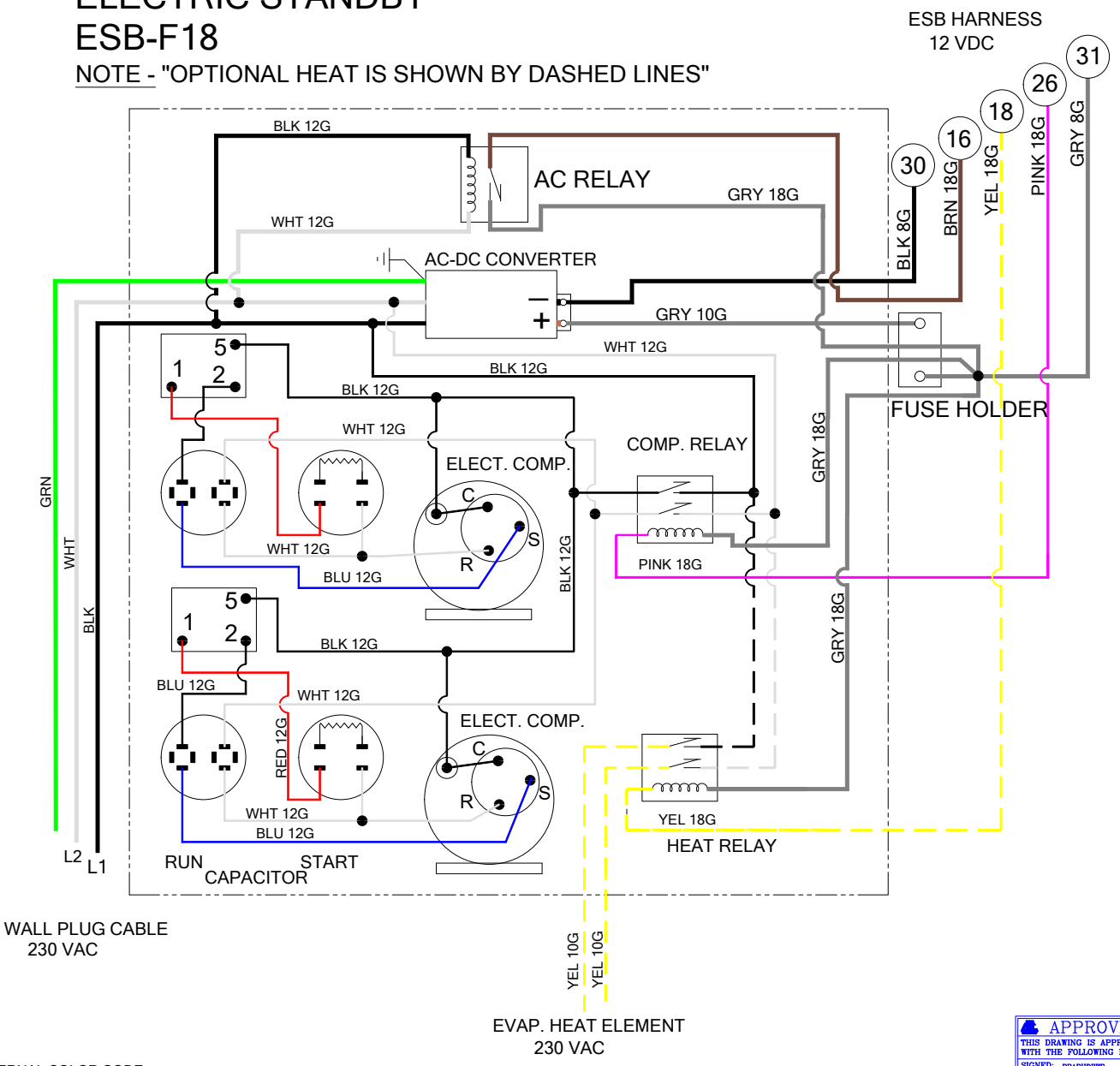
ELECTRIC STANDBY
ESB-F18

NOTE - "OPTIONAL HEAT IS SHOWN BY DASHED LINES"

REV.	DATE	DESCRIPTION	BY:
B	10/02/15	CORRECTIONS	JWM
C	07/02/17	DELETED GREEN WIRE 32	JWM
D	31/03/17	GREY WIRE TO COMP RELAY WAS GREEN	JWM
E	29/10/19	COMBINED MRSH & LRSH DIAGRAMS. REVISED WIRING & ADDED AC RELAY FOR 9163 FIELD TESTING	PB
F	18/03/20	STANDBY PWR & GND NOW 8G	PB
G	8/6/20	FUSE HOLDER REPLACED BREAKER RE-ROUTED POWER WIRES	PB



WIRE COLOURS:

1- RED 10 G
2- BLK 10 G
3- GRAY 10 G
4- RED 14 G
5- BLK 14 G
6- BLU 14 G
7- L/BLU 14 G
8- BRN 14 G
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10- RED 20 G
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12- WHT 20 G
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21- ORG/BLK 20 G
22- BLU/BLK 20 G
23- BLU/WHITE 20 G
24- RED/BLK 20 G
25- WHT/BLK 20 G
26- PINK 20 G
27- RED/WHITE 20 G
28- PURPLE 20 G
29- RED 8 G
30- BLACK 8 G
31- GRAY 8 G
32- RED/GRN 14G
33- RED/ORG 14G
34- RED/BLU 14G
35- PUR 14G

UNIT INTERNAL COLOR CODE:
BLUE=BLU, BROWN=BRN, BLACK=BLK, ORANGE=ORG, PURPLE=PUR, RED=RED, YELLOW=YEL, WHITE=WHT, DARK=D, LIGHT=L, GREEN=GRN

APPROVED
THIS DRAWING IS APPROVED WITH THE FOLLOWING REVISIONS.
SIGNED: PRABHDEEP
DATED: AUGUST 6, 2020

ITEM	DESCRIPTION	QTY
1	STAND–BY WIRING	1

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363

TITLE	WIRING DIAGRAM LOW/MED. TEMP. W/WO HEAT	ENG. REF	DATACOM/ENG-REF/9163
DRAWN	SAM	DATE	29-10-2019
DWG NO	L/MRSH-9141-7	CHECK	
		REV.	G

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