

HUSSMANN[®]

microSC[™]

MD7871GEA

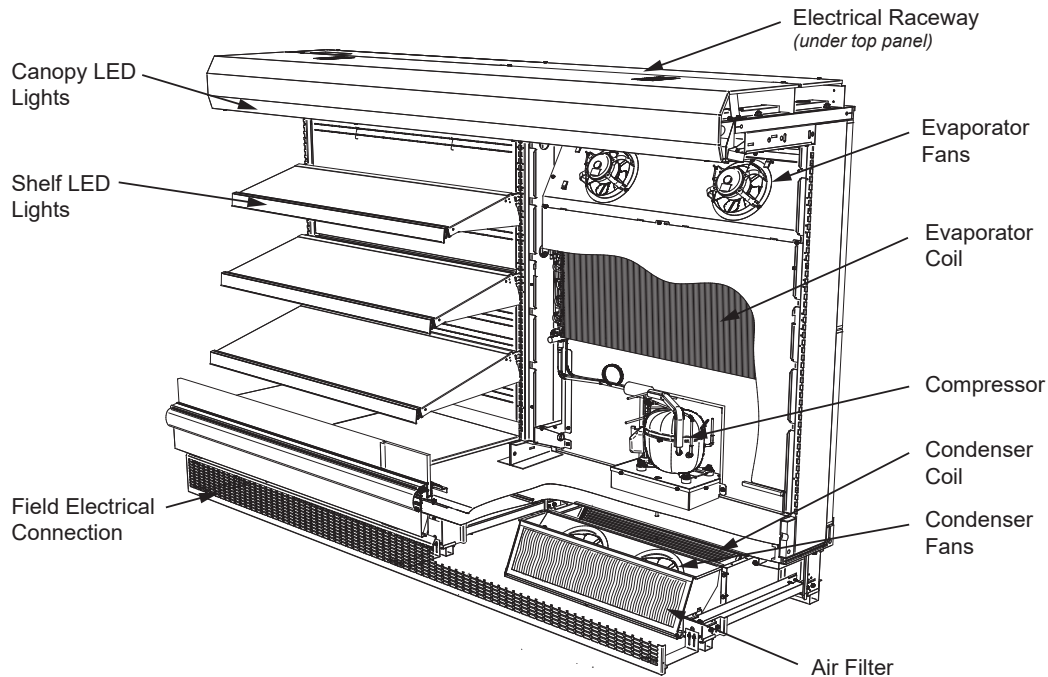
For Meat Applications
Self-Contained
Air-Cooled
R-290

Merchandiser Data Sheet

P/N 3113307_B

UL EPH[®] Certified

March 2020



Portion of parts removed for clarity
6.5 foot merchandiser shown above

UL EPH Certification
This merchandiser model is manufactured to meet ANSI/SCC Standards requirements for construction, materials, and cleanability.

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⚠ WARNING

Component parts shall be replaced with like components, and servicing shall be done by factory authorized service personnel only, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

Data sheet-MD7871GEA

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

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Refrigeration Data ^{1**}

		Meat Applications
Lit Shelves	Discharge Air °F (°C)	26 (-3.33)
	Deadband	6
	Total Heat of Rejection (BTU/hr) ²	18,644
Condensing Unit	Capacity ³	6,129
Evaporator Fan Speed	7.0" Fan Assembly	1,200
Condenser Fan Speed	8.25" Fan Assembly	1,450

Notes:

1. All data based on store temperature and humidity that does not exceed NSF Type 1 ambient conditions of 75°F and 55% relative humidity except where noted.
2. Total Heat of Rejection listed for maximum design conditions, normal operating loads may be lower.
3. Condensing Unit Capacity is calculated at an evaporator temperature of 18°F and a condensing temperature of 113°F.

Defrost Data

Frequency (hours between defrost)	4
Defrost Water ⁴	7.8 kg/m/day 5.2 lb/ft/day
⁴ (± 15% based on case configuration and product loading).	
Defrost Type	Offtime
Defrost Termination Time (minutes)	25
ELECTRIC OR GAS	Not Available

Refrigerant Data

Refrigerant Type	R290
Charge ⁵	.33 lb 5.3 oz 150 g

⁵ Maximum charge per condensing unit = 150 g.

Product Data

Gross Refrigerated Volume ⁶ (Cu Ft/Ft)	11.6 ft ³ /ft (1.08 m ³ /m)
AHRI Total Display Area ⁷ (Sq Ft/Ft)	4.02 ft ² /ft (0.37 m ² /m)
Shelf Area ⁸ (Sq Ft/Ft)	9.85 ft ² /ft (3.00 m ² /m)

⁶ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

⁷ Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

⁸ Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (3) rows of shelves: 13, 16 and 19-inch

Excel Multideck Merchandiser, Tall, Glass Front,
End Case, Air-Cooled, R-290, Self-Contained,
4 Display Levels

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DOE 2017
Energy Efficiency
Compliant

Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

Shelf complement shown as tested:

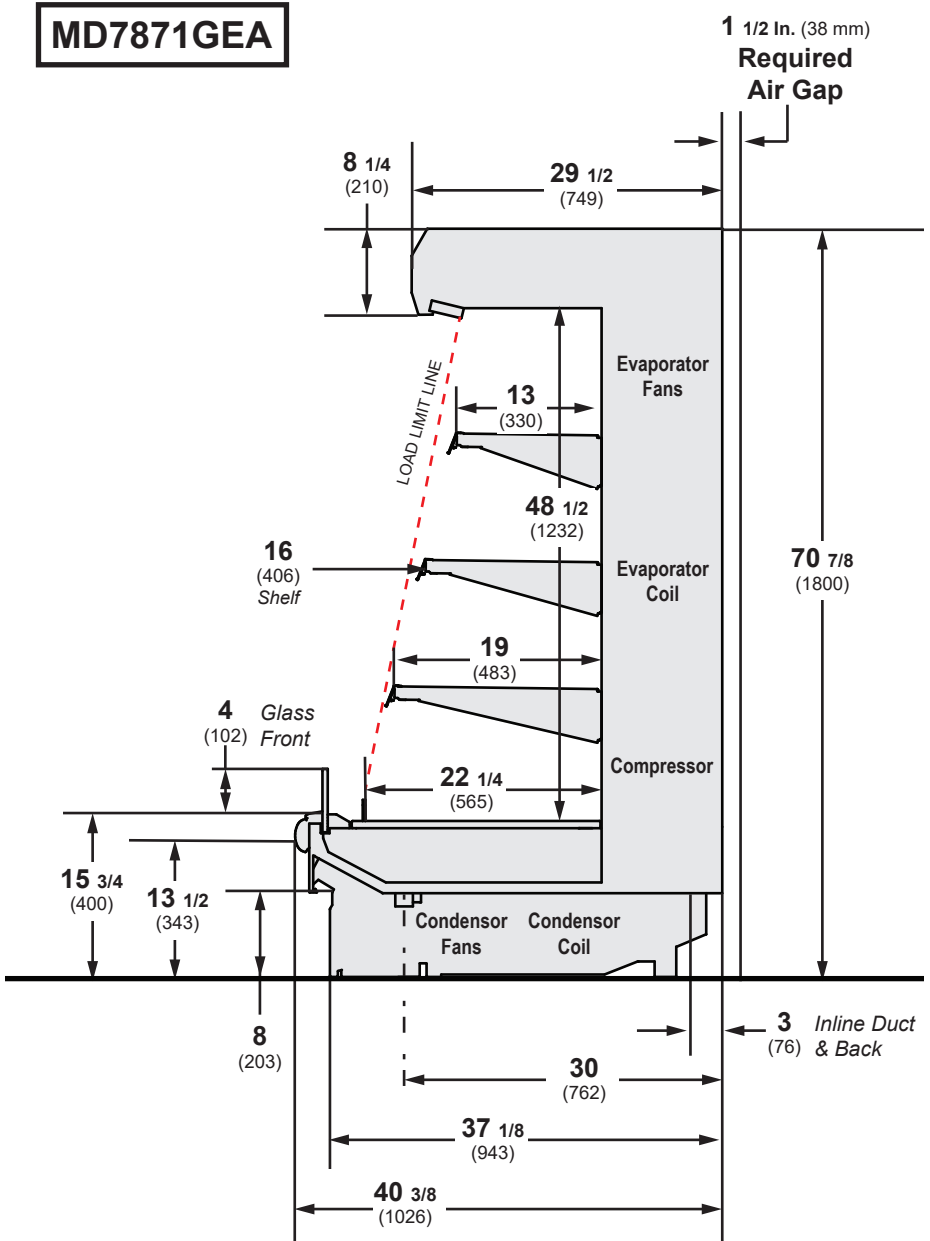
Three rows of shelves (13, 16 and 19-in.) spaced equally between bottom display pan and interior top panel.

Other optional kits may add to the overall case height.

A minimum 1 1/2 in. clearance required to remove raceway cover, 6 1/2 in. for full access. See the Installation manual for instructions.

4-in. between back to back cases.

Dimensions shown as in. and (mm).



NOTE: The factory installed power cord is located below the bumper on the left-front of the case.

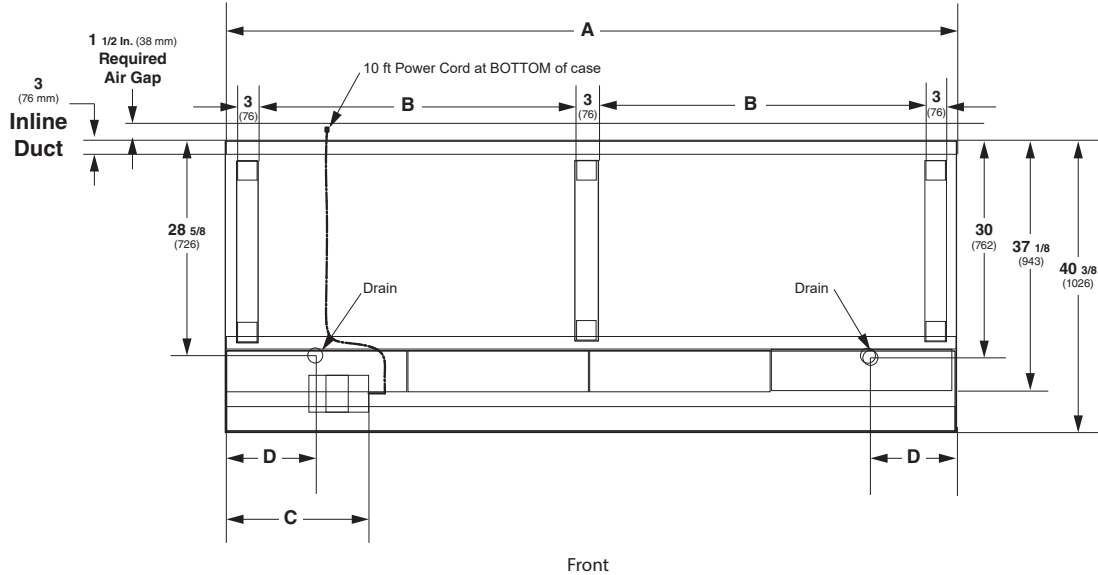
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Engineering Plan View

Dimensions shown as in. and (mm).

NOTE: The factory installed power cord is located below the bumper on the left-front of the case.



(6.5 Foot Model Shown Above)

	6.5 ft
General	
(A) Case Length (without ends or partitions) (Each end and insulated partition adds 1 1/2 in. (38 mm) to case line up.)	77 7/8 (1977)
Maximum O/S dimension of case back to front (includes bumper)	40 3/8 (1026)
Back of case to front of splashguard	37 1/8 (943)
(B) Distance between edges of external legs and center legs	33 1/2 (851)
Distance between front legs and splashguard	8 3/8 (213)
Electrical Service (Field Electrical Wiring Connection)	
(C) LH End of case to Field Electrical Wiring Connection (bottom of case)	14 1/8 (359)
Back of case to Field Electrical Wiring Connection	34 7/8 (886)
Waste Outlets (one at each end)	
(D) End of case to the center of waste outlet	12 (305)
Back O/S of case to center of waste outlet(s)	30 (762)
Schedule 40 PVC drip pipe	1 1/4 (32)

Electrical Data

Number of Fans	6.5 ft
7.0-in.	4
8.25-in.	4

	Amperes	Watts
	6.5 ft	6.5 ft
Evaporator Fans (4)		
120V 50/60Hz Standard Energy Efficient	0.4	23
Condenser Fans (4)		
120V 50/60Hz Standard Energy Efficient	1.1	70

Condensing Unit (208V, 1 Ph, 60Hz) Standard

NOTE: One compressor can start at a time.

Compressor RLA	5.3/per compressor
Compressor LRA	33.7/per compressor

Merchandise Circuit Requirements (208V, 1 Ph, 60 Hz)

Total Amps	12.8
Minimum Circuit Amps (MCA)	14.1
Maximum Over Current Protection (MOCP)	20

NEMA Plug

L14-20P

Lighting (120V)

ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLIANT WITH THE U.S. DEPT. OF ENERGY (DOE) 2017 REGULATION ARE AVAILABLE FOR SALE FOR USE IN THE U.S.A.

	Amperes	Watts
	6.5 ft	6.5 ft
STANDARD LED LIGHTING		
1 Row Canopy Lights	0.17	20.4
OPTIONAL LED LIGHTING		
Shelf Lights		
1 Row of Shelves	0.17	20.4
2 Row of Shelves	0.34	40.8
3 Row of Shelves	0.51	61.2

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

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ENDS or PARTITIONS

Each standard end and each insulated partition adds 1 1/2 in. (38 mm) to case line up. Optional view end with end bumper adds 3 3/4 in. (95 mm).

PHYSICAL DATA

Merchandiser Drip Pipe (in.) 1 1/4
Schedule 40 PVC

ESTIMATED SHIPPING WEIGHT †

Case		Solid End
	6.5 ft	(each)
lb (kg)	925 (420)	80 (36)

† Actual weights will vary according to optional kits included.

Shelf Options

Approved shelf sizes for standard (horizontal, 2-3 position brackets) displays:

13-inch
16-inch
19-inch

Contact engineering for non-standard (4 position brackets or other) display recommendations.

Minimum number of Shelves: 3

Optimal number of Shelves: 3

Maximum number of Shelves: 3

Maximum number of Lighted Shelves: 3

Standard shelf complement for test purposes: (3 row of shelves) 13, 16 and 19-in., evenly distributed vertically

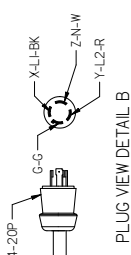
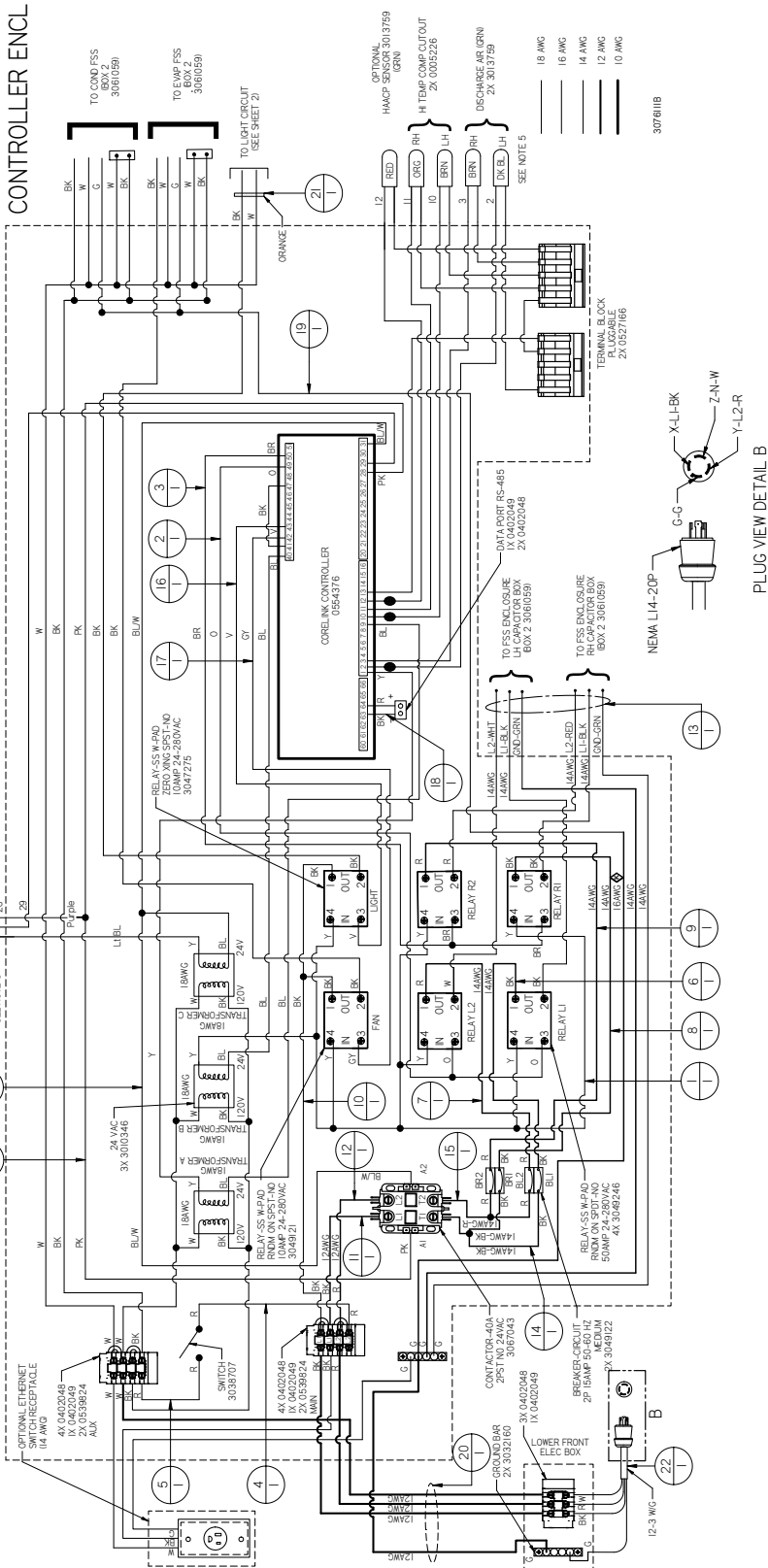
Corelink Configuration Electrical Box Wiring Diagram

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Line #	ITEM	SENSOR WIRE LENGTH	CUT LENGTH	END	COLOR	NOTES
A	Discharge Air Temp LH	(240in)	3.2min / 240mm	STRIP	DK BLU	303759 SENSOR-TEMP DISCHARGE GREEN
B	Discharge Air Temp RH	(240in)	3.2min / 240mm	STRIP	GRN	303759 SENSOR-TEMP DISCHARGE GREEN
C	HMACP Sensor	(240in)	3.2min / 240mm	STRIP	RED	303759 SENSOR-TEMP DISCHARGE GREEN
D	Hi Temp Cutout LH	(120in)	1.8in / 300mm	STRIP	BROWN	0005226 SENSOR-HIGH TEMPERATURE RED & WHT
E	Hi Temp Cutout RH	(120in)	1.8in / 300mm	STRIP	ORG	0005226 SENSOR-HIGH TEMPERATURE RED & WHT
F	Hi Pres Cutout LH	(118in)	104.3in / 2650mm	STRIP	LT BLU	3051982 SWITCH-PRESS PS-4-WI ATEX R930 BLACK
G	Hi Pres Cutout RH	(118in)	100.4in / 2550mm	STRIP	PURPLE	3051982 SWITCH-PRESS PS-4-WI ATEX R930 BLACK

* ADD IDENTIFICATION LABEL ON WIRES AT EACH SENSOR & ENDS OF EACH SENSOR WIRE

HUSMANN DETAILS			
NUMBER	PART NUMBER	DESCRIPTION	QTY
01	3064754	HUSMANN-VEL-BUS-REL-SSR-PH4	1
02	3065022	HUSMANN-VEL-BUS-REL-SSR-PH4	1
03	3064755	HUSMANN-VEL-BUS-REL-SSR-PH4	1
04	3064756	HUSMANN-VEL-BUS-REL-SSR-PH4	1
05	3064757	HUSMANN-VEL-BUS-REL-SSR-PH4	1
06	3064758	HUSMANN-VEL-BUS-REL-SSR-PH4	1
07	3064759	HUSMANN-VEL-BUS-REL-SSR-PH4	1
08	3064760	HUSMANN-VEL-BUS-REL-SSR-PH4	1
09	3064761	HUSMANN-VEL-BUS-REL-SSR-PH4	1
10	3064762	HUSMANN-VEL-BUS-REL-SSR-PH4	1
11	3064763	HUSMANN-VEL-BUS-REL-SSR-PH4	1
12	3064764	HUSMANN-VEL-BUS-REL-SSR-PH4	1
13	3064765	HUSMANN-VEL-BUS-REL-SSR-PH4	1



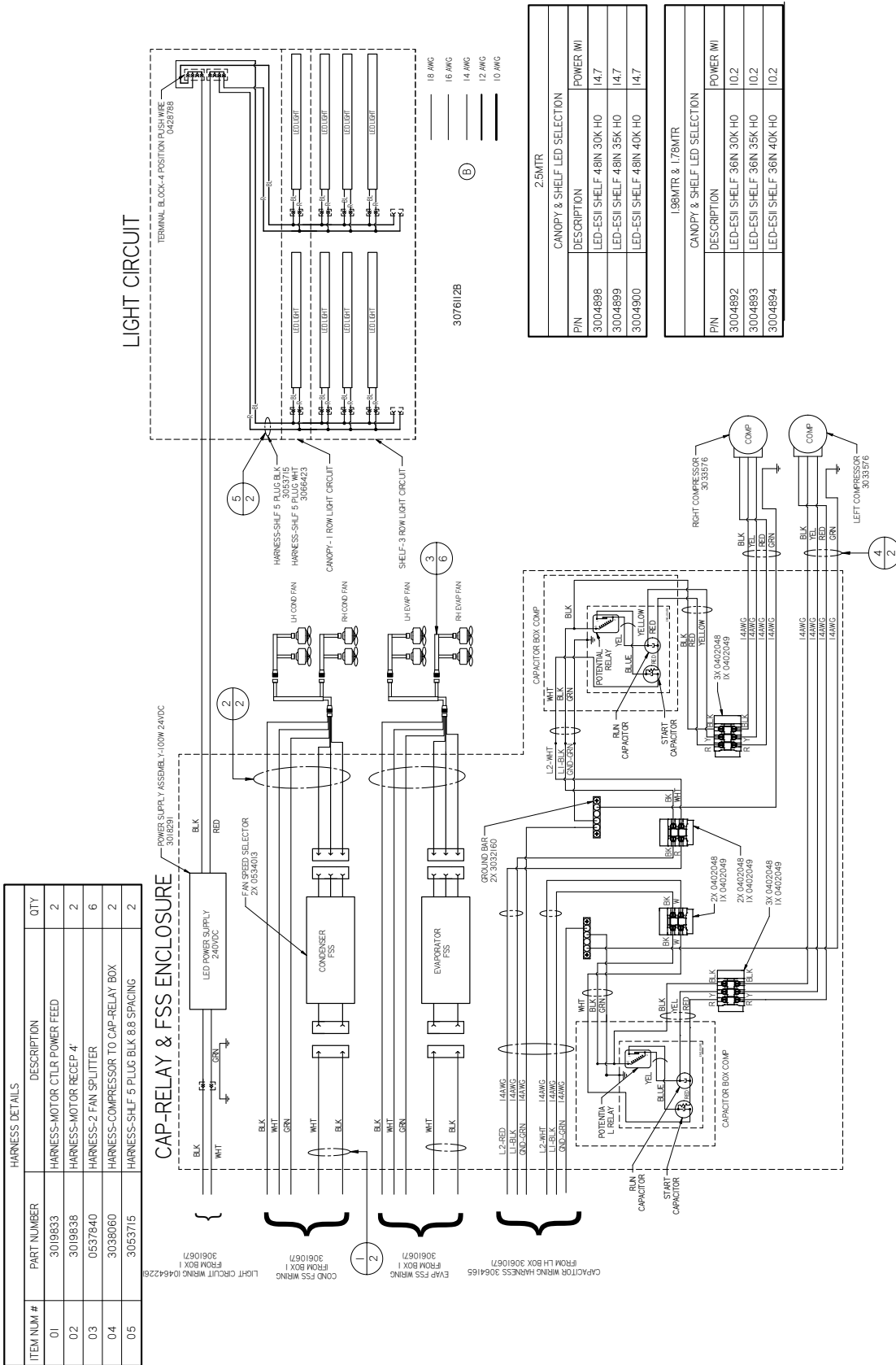
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Corelink Configuration

Electrical Box

Wiring Diagram



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Scan the QR code with your mobile device to access additional product information or order parts.

Parts may also be ordered at:

parts.husmann.com

Call toll free: 1.855.487.7778

Revision History

Revision A: March 2020: Original Issue.

Revision B: March 2020: Updated electrical and shelf data, and cross section description.