

Safety Procedures

WARNING

Dangerous environment.
Highly flammable and explosive fuels are present.
Failure to observe all safety precautions could result in serious injury or death.
Observe all safety precautions as outlined in Gilbarco's manuals.

Installation Procedures

1. Install a single EMERGENCY POWER CUTOFF control to remove AC power from site dispensing equipment. (The control is an additional safety feature, and not a substitute for NEC/NFPA30A circuit breaker requirements.)
 - Label the EMERGENCY POWER CUTOFF switch and instruct owner to keep area clear of obstacles.
2. Connect an insulated grounding conductor from the pump power panel to the site grounding electrode. Site per NEC.
3. Install power breakers to each circuit leading to the dispensing unit and pump motor. They must be capable of simultaneously disconnecting hot and neutral conductors.
4. Only field wiring connections are shown in the junction boxes. Cap all unused wires. Local and National Electrical Codes may apply.
5. Install conduit per NEC for hazardous locations.
6. Wires -all wires are 14AWG (stranded) unless otherwise noted.
Pump ground - wire is 12AWG (stranded).
Power loading and distance run may require larger wire size.
Outputs from intercom and call button must be NEC Class 2.
Twisted pair data wires (2-wire) (10-12 twists per foot) are recommended in areas with high lightning strikes.
7. Consult mfg. specs. for wire nuts to determine maximum number of wires that may be used per nut.
8. For 3-phase system, make appropriate connections to AC Hot and return service.
9. For Infoscreen, install additional 'twisted pair' wires for each dispenser inside power conduit. Twisted pair video - wire is 18AWG (600V stranded annealed copper) twisted to 10-12 twists per foot, gas and oil resistant; UL/CSA rated; must meet qualifications of CSA -TR-64 with nylon jackets (any source that meets this video specification can be used)

Notes: Wire all circuits NEC Class 1, except wiring to speaker (intercom) and call button which must be NEC Class 2. Gilbarco two-wire is NEC Class 1 and may share the main power conduit. Call button not available on Optimum models.

In Canada switching neutral is contrary to the Canadian electrical code, reference part 1, rule 14-014.

Options: Some options shown are not available on Optimum models.

Electrical Rating

Includes all options except InfoScreen Heater (excluding motors)
3.0 AMP @ 240 VAC 50 Hz.

Infoscreen Heater - (Heater will cycle in extreme cold conditions)
3.5 AMP @ 240 VAC 50 Hz. - 20 minutes max. on time

Gilbarco recommends the use of one 15 AMP breaker per dispenser.

Gilbarco requires Valance Lights on a separate 15 AMP breaker.

Motor Load Table (Full Load AMPS)

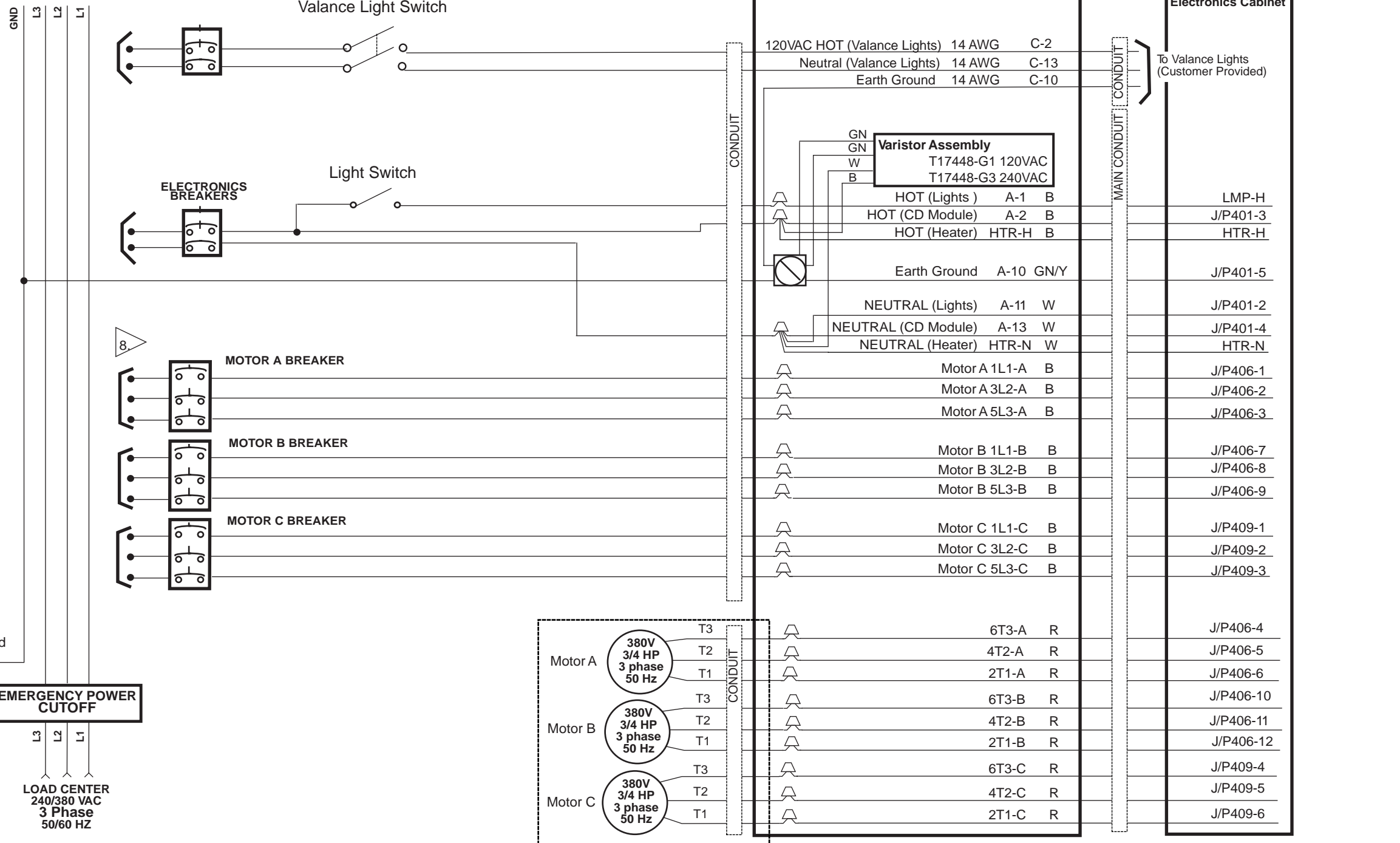
International (50HZ)	
3/4 H.P.	6.5 AMP @ 220-230VAC / 1 PH
	1.5 AMP @ 380VAC / 3 PH
International (50HZ, Not U.L. Listed)	
3/4 H.P.(Dual Rated)	2.5 AMP @ 220VAC / 3 PH
	1.3 AMP @ 380VAC / 3 PH

2. To site ground electrode.

1. EMERGENCY POWER CUTOFF

LOAD CENTER
240/380 VAC
3 Phase
50/60 HZ

****FROM CUSTOMER-PROVIDED INTERCOM SYSTEM (must run wires in separate conduit) (NEC Class 2)**

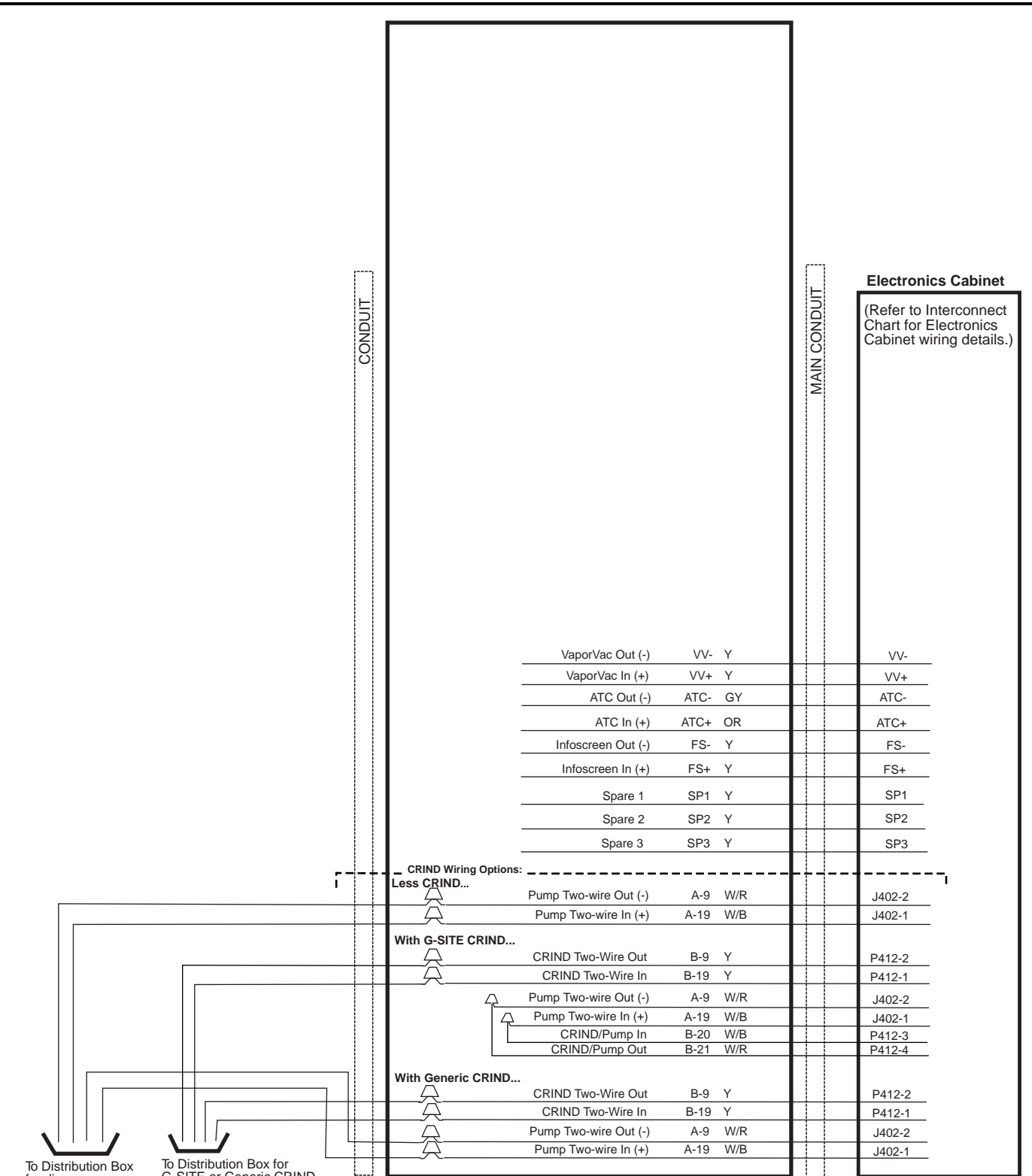


Motor A	380V 3/4 HP 3 phase 50 Hz	T3	6T3-A	R	J/P406-4
		T2	4T2-A	R	J/P406-5
		T1	2T1-A	R	J/P406-6
Motor B	380V 3/4 HP 3 phase 50 Hz	T3	6T3-B	R	J/P406-10
		T2	4T2-B	R	J/P406-11
		T1	2T1-B	R	J/P406-12
Motor C	380V 3/4 HP 3 phase 50 Hz	T3	6T3-C	R	J/P409-4
		T2	4T2-C	R	J/P409-5
		T1	2T1-C	R	J/P409-6

Symbols Chart		Wire Color Chart	
Wire Nut		Black	B
Earth Ground		Brown	BR
No Connection		Red	R
Connection		Orange	OR
		Yellow	Y
		Green	GN
		Blue	BU
		Violet	V
		Gray	GY
		White	W
Reference Manuals			
MDE-3116 Distribution Box Install.			
MDE-2833 P & D Site Prep			
MDE-2530 P & D Install.			

FIELD WIRING DIAGRAM
The Advantage® Series and
Optimum™ Pumps
240/380 VAC 3-phase
(With 1" conduit connections)

08/97	FE-284E (1 of 2)
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Electronics Cabinet
(Refer to Interconnect Chart for Electronics Cabinet wiring details.)

Symbols Chart

Wire Nut	⌘
Earth Ground	⊕
No Connection	+
Connection	⋄

Wire Color Chart

Black	B
Brown	BR
Red	R
Orange	OR
Yellow	Y
Green	GN
Blue	BU
Violet	V
Gray	GY
White	W

Reference Manuals

MDE-3116 Distribution Box Install.
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