



CentriPro™

CentriGuard™

SUBMITTAL

Project: _____

Specification Section : _____ Architect : _____

Submitted By : _____ Contractor : _____

Engineer : _____ Customer : _____

Date : _____

Effective :
Supersedes :

CentriPro



ITT Industries

Submittal Schedule

MOTOR DATA					CENTRIGUARD DATA		
TAG #	SERVING	HP	RATED AMPS	VOLTAGE	MODEL #	RATED AMPS	RATED VOLTAGE

Effective :
Supersedes :

Technical Characteristics

Specifications:

Enclosure Type	NEMA 4
Operating Temperature	4° F to 122° F
Storage Temperature	20° F to 149° F
Humidity	0-95% non-condensing

Electrical:

Voltage Input	+/- 10% Rated Panel Voltage
Input Line Frequency	50/60 Hz +/- 2 Hz
Control Voltage	115 volts AC
Overload Capacity	125% of rated RMS current for 60 seconds
Overload Class	Adjustable for 10, 20 or 30.
Time Overload	Adjustable setting for 125% of rated motor current
Agency Listing	UL, cUL

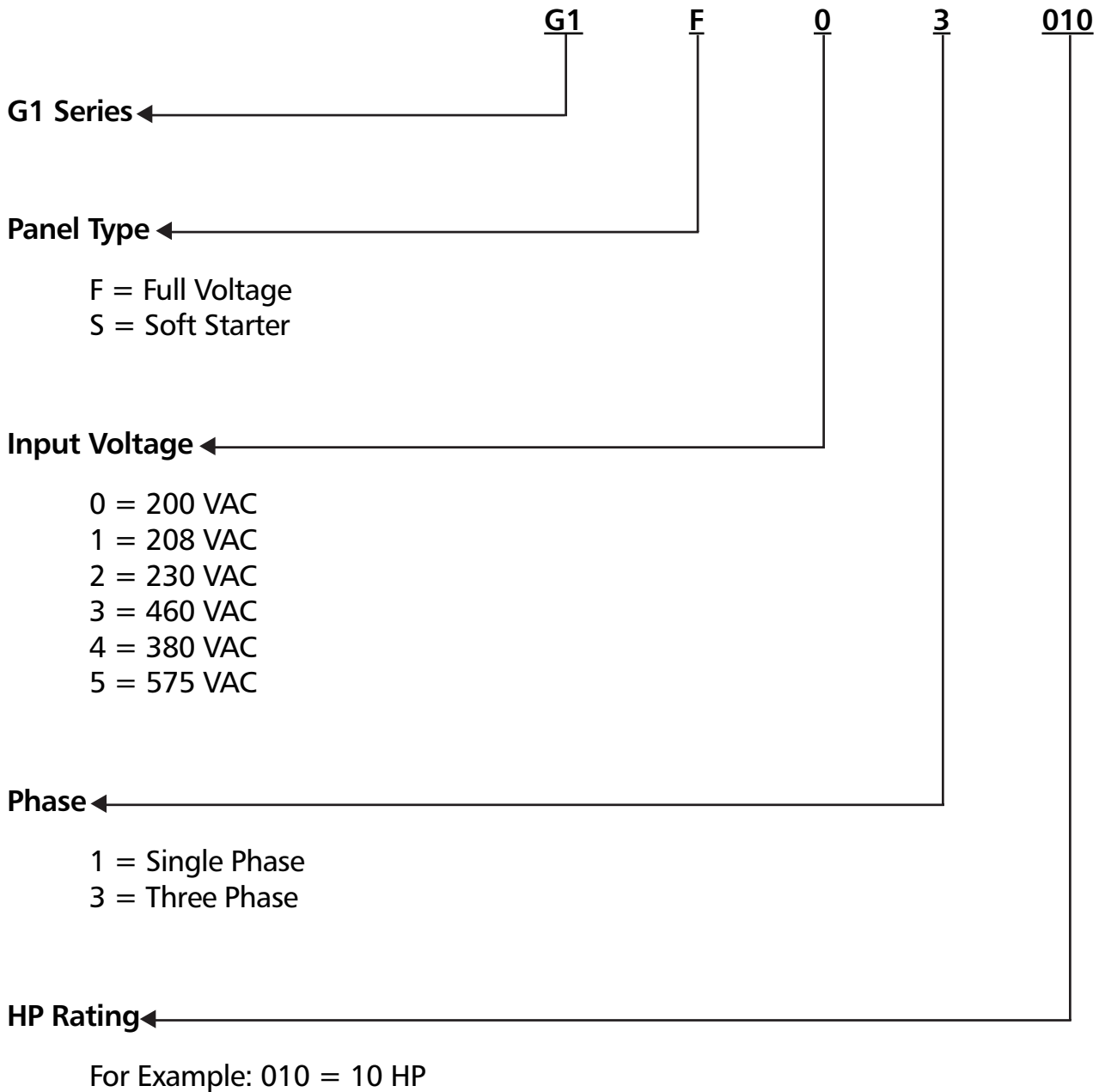
Control Features:

Pump Protection Features:	Underload (Run dry, cavitation, dead heading, running below minimum flow, run out conditions).
	Overload (Pump jamming, excessive solids or viscosity, run out).
Motor Protection Features:	Overload, short circuit, undervoltage, phase loss and phase imbalance.
System Protection Features:	Dry contact for external sensor faults normally open.
	Dry contact for external sensor faults normally closed.

Technical Characteristics

Interpreting Model Numbers

The model number of the *CentriGuard* appears on the shipping carton label and on the technical data label affixed to the model. The information provided by the model number is shown below:



NOTE: Not all combinations may be available.

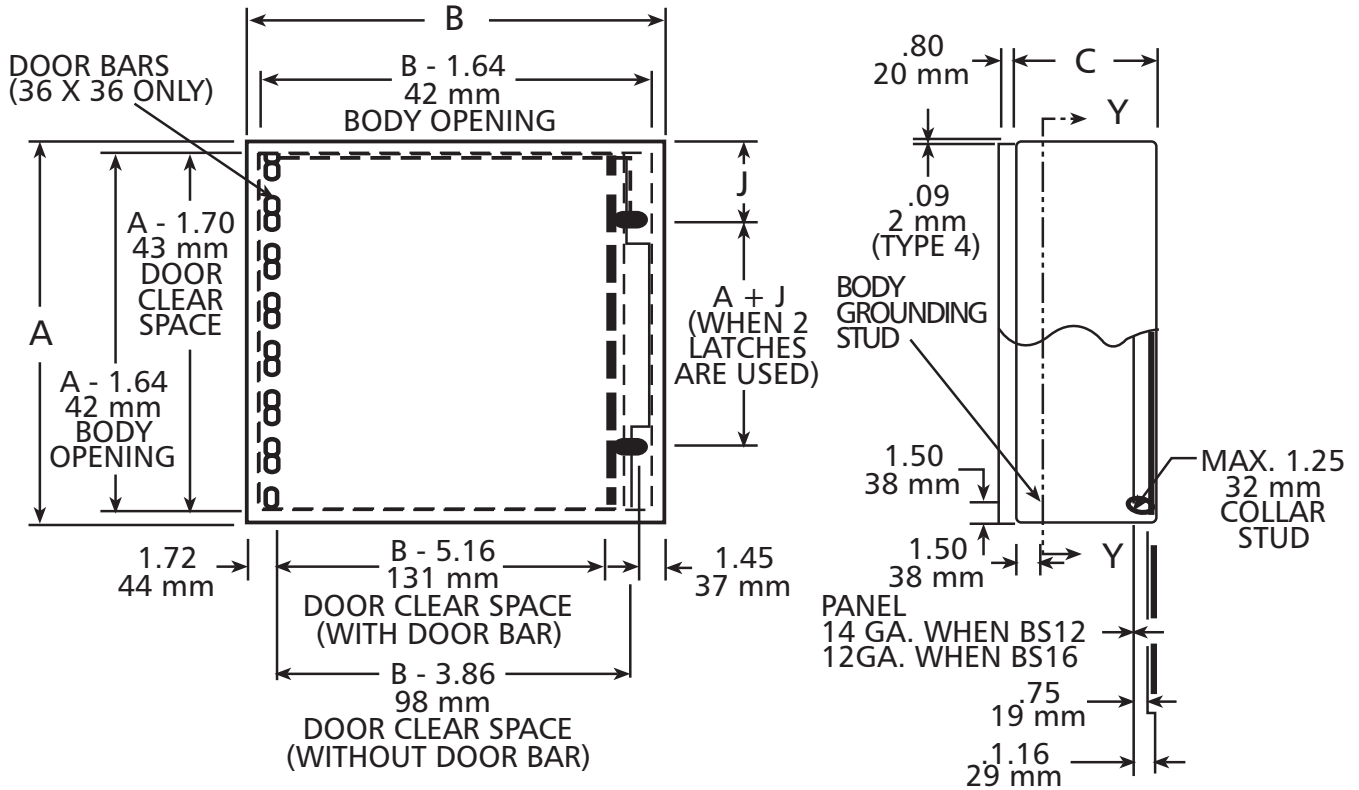
Model Number Ratings

Model Number	HP	Voltage	Starter Size	Overload Class ①	Disconnect Size ②	Enclosure Size	Net Weight
G1F03003	3	200	0	10	30	24"Hx20"Wx8"D	62
G1F13003	3	208	0	10	30	24"Hx20"Wx8"D	62
G1F23003	3	230	0	10	30	24"Hx20"Wx8"D	62
G1F03005	5	200	1	20	60	24"Hx20"Wx8"D	65
G1F13005	5	208	1	20	60	24"Hx20"Wx8"D	65
G1F23005	5	230	1	20	60	24"Hx20"Wx8"D	65
G1F33005	5	460	0	10	30	24"Hx20"Wx8"D	62
G1F03007	7½	200	1	20	60	24"Hx20"Wx8"D	65
G1F13007	7½	208	1	20	60	24"Hx20"Wx8"D	65
G1F23007	7½	230	1	20	60	24"Hx20"Wx8"D	65
G1F33007	7½	460	1	20	60	24"Hx20"Wx8"D	65
G1F03010	10	200	2	20	60	30"Hx20"Wx10"D	84
G1F13010	10	208	2	20	60	30"Hx20"Wx10"D	84
G1F23010	10	230	2	20	60	30"Hx20"Wx10"D	84
G1F33010	10	460	1	20	60	24"Hx20"Wx8"D	65
G1F03015	15	200	3	20	100	30"Hx20"Wx10"D	93
G1F13015	15	208	3	20	100	30"Hx20"Wx10"D	93
G1F23015	15	230	2	20	100	30"Hx20"Wx10"D	86
G1F33015	15	460	2	20	60	30"Hx20"Wx10"D	84
G1F03020	20	200	3	20	100	30"Hx20"Wx10"D	93
G1F13020	20	208	3	20	100	30"Hx20"Wx10"D	93
G1F23020	20	230	3	20	100	30"Hx20"Wx10"D	93
G1F33020	20	460	2	20	60	30"Hx20"Wx10"D	84
G1F03025	25	200	3	20	200	30"Hx20"Wx10"D	107
G1F13025	25	208	3	20	200	30"Hx20"Wx10"D	107
G1F23025	25	230	3	20	200	30"Hx20"Wx10"D	107
G1F33025	25	460	2	20	60	30"Hx20"Wx10"D	84
G1F03030	30	200	4	20	200	36"Hx30"Wx12"D	158
G1F13030	30	208	4	20	200	36"Hx20"Wx12"D	158
G1F23030	30	230	3	20	200	30"Hx20"Wx10"D	107
G1F33030	30	460	3	20	100	30"Hx20"Wx10"D	93
G1F13040	40	460	3	20	100	30"Hx20"Wx10"D	93
G1F23050	50	460	3	20	200	30"Hx20"Wx10"D	107
G1F33060	60	460	4	20	200	36"Hx30"Wx12"D	158

① Overloads are adjustable for Class 10, 20 or 30. The table sets the recommended class according to NEC.

② Disconnect sized fuses are per NEC, Bussman Class "J", dual element (time delay).

CentriGuard™ Panel Dimensions



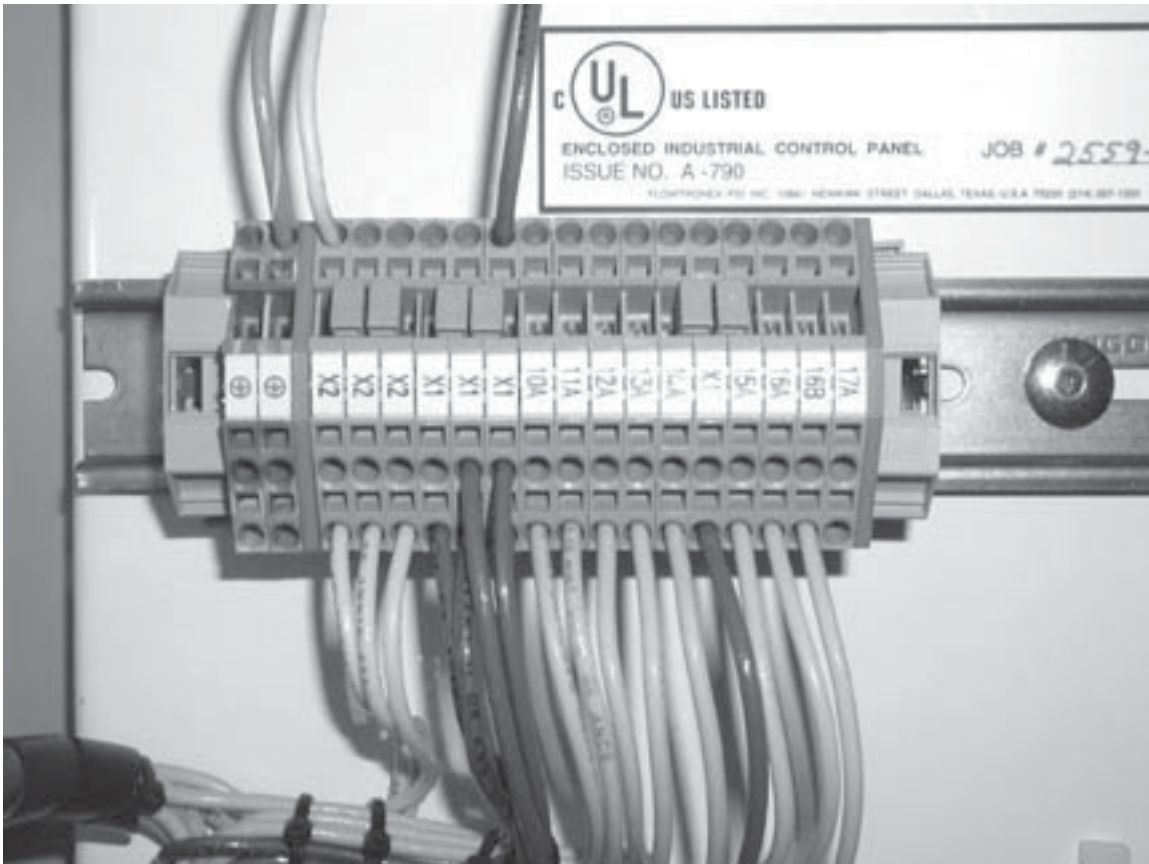
Voltage	Motor Nameplate HP	"A" Height (in.)	"B" Width (in.)	"C" Depth (in.)
200 to 208	3 to 7½	24	20	8
200 to 208	10 to 25	30	20	10
200 to 208	30	36	30	12
230	3 to 7½	24	20	8
230	10 to 30	30	20	10
460	3 to 10	24	20	8
460	15 to 50	30	20	10
460	60	36	30	12

Terminal Wiring Connections Available

- X1 10A (start)
11A (stop)** **INDIVIDUAL START and STOP** : When using two independent switches to start and stop the motor from running. **Application 1**: Using two float switches, in a wet well, to pump down the liquid to an acceptable level. **Application 2**: Using two pressure switches, to maintain a pressure range, such as a boost application.
- 12A** **SINGLE START/STOP** : When using one switch to start and stop the motor from running. **Application 1**: Using a differential pressure switch to maintain a pressure range, such as an elevated storage tank. (Caution should be applied, due to possible pump cycling if not properly applied.) **Application 2**: Using a remote dry contact from a SCADA system. **Application 3**: Using an electro-mechanical time clock. **CAUTION: When using terminals 10A and 11A, for starting and stopping, do not use 12A. When using terminal 12A, for starting and stopping, do not use terminals 10A and 11A.**
- 13A** **FAULT IN (NO)** : Any type of normally open contact device may be applied. More than one fault condition may be wired into this location. If multiple faults are required, wire the normally open contacts in parallel with each other to operate correctly. **Application 1**: A float switch that would close upon a high liquid level. **Application 2**: A pressure switch that would close upon detecting an abnormal (high or low) condition. **Application 3**: An integrated seal fail switch within a pump. **Application 4**: A remote SCADA contact.
- 14A** **FAULT IN (NC)** : Any type of normally closed contact device may be applied. More than one fault condition may be wired into this location. If multiple faults are required, wire the normally closed contacts in series with each other to operate correctly. **Application 1**: A float switch that is being used to detect a low liquid level. This switch must be a normally open switch that is held closed during normal operation. **Application 2**: A pressure switch that would open upon detecting an abnormal (high or low) condition. **Application 3**: An integrated temperature switch within a pump. **Application 4**: A remote SCADA contact. **IMPORTANT!** : **When using this feature an integrated jumper between these two terminals would need to be removed.**
- 15A** **FAULT RESET** : A normally closed push button or switch may be applied, to reset a fault condition that has occurred. Important: When using this feature an integrated jumper between these two terminals would need to be removed.

Terminal Wiring Connections Available

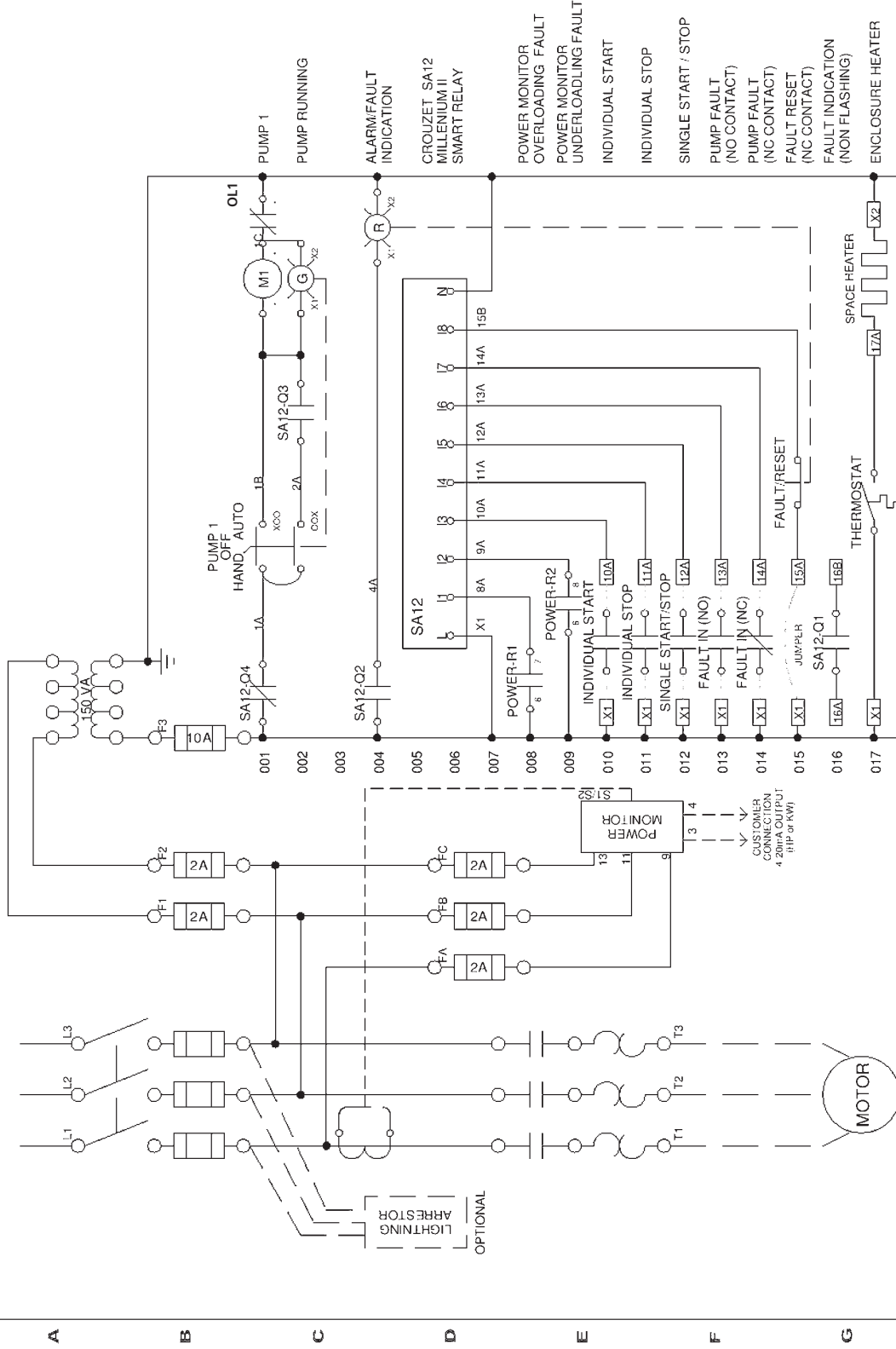
- X1 16A 16B** **FAULT INDICATION** : A normally open dry contact has been provided for remote monitoring of the pump panel. (all power and hardware provided by the end user) **Application 1:** Remote mounted alarm light. **Application 2:** SCADA system. **Application 3:** Used to close a valve or enable a back up pump system to come online.
- X2 17A** **SPACE HEATER** : These contacts are not intended for customer use. They are provided for manufacturing and service only. The space heater is used to reduce the risk of condensation within the electrical cabinet and to maintain the environmental requirements of the components installed. **DO NOT connect additional heating devices to these terminals.**
- Power Monitor Terminals 3-4** **ANALOG OUTPUT** : A 0-20mA or 4-20mA signal can be obtained directly from the Power Monitor. This analog signal is a direct representation of the output power of the motor, in HP or KW.



Terminal Bus Bar

Wiring Connections

10
9
8
7
6
5
4
3
2
1



A B C D E F G

JOB NUMBER:		JOB NAME:		CentriGuard Pump Panel	
JOB LOCATION:		DRAWN BY:		CWM	
DWG NAME:		DATE DRAWN:		SHEET #:	
CentriGuard Pump Panel.txd		2003-09-18		1 OF 1	
SIZE:	A	SCALE:	1:1	CWM	4



CentriGuard Panel Exterior Layout

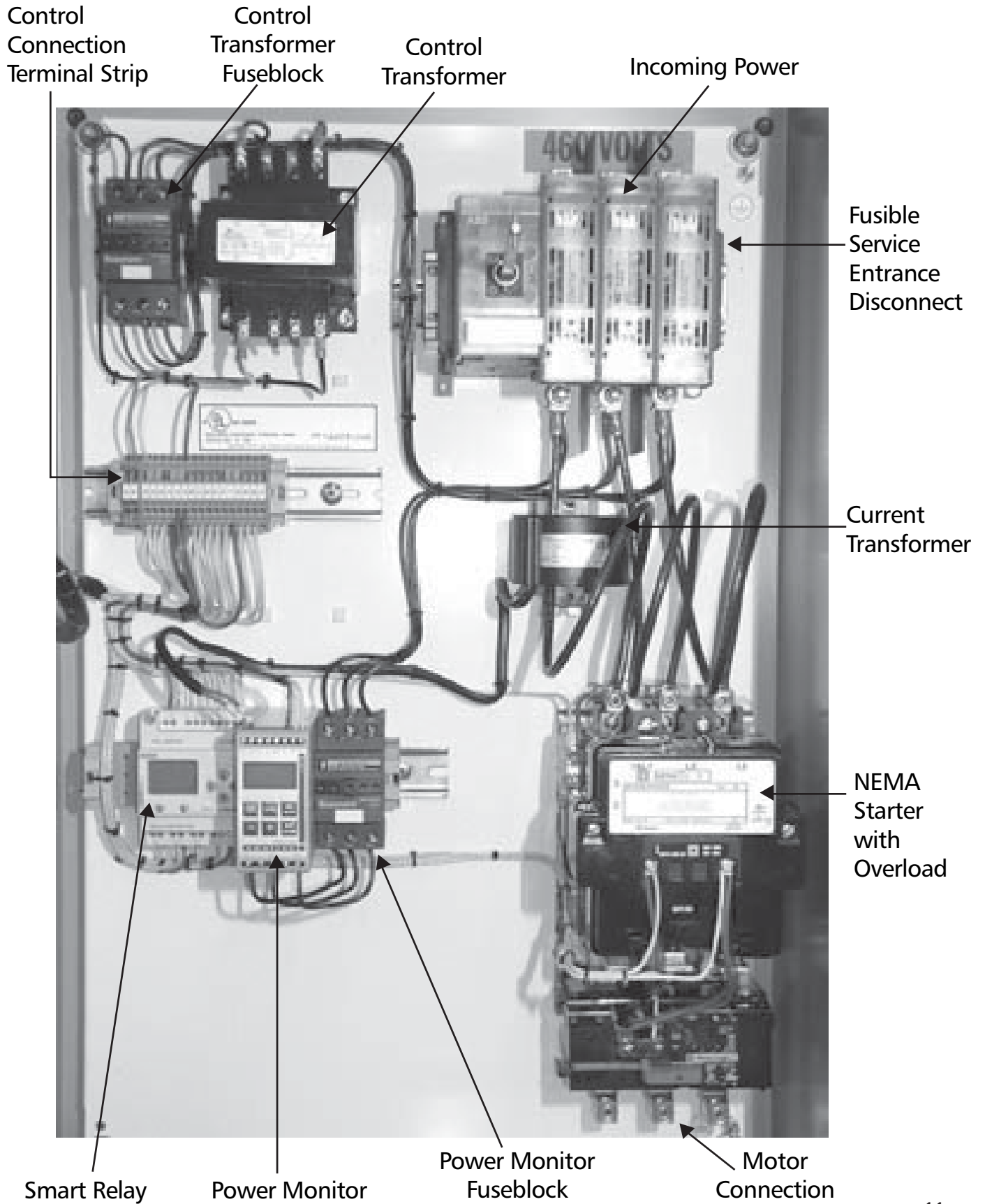


Disconnect Switch

LED alarm light and manual reset push-button.

Three position hand/off/auto switch with green LED run light.

CentriGuard Panel Interior Layout





Options*

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Where checked below, the following options are included in the panel to be supplied:

- A door-mounted mechanical reset push-button will be furnished. The push-button will enable resetting the motor starter overload without opening the panel door.
- A padlocking handle for securing the cabinet door will be furnished.
- A non-resettable elapsed time meter is mounted on the door to record the accumulated running time for each pump.
- A cabinet door stop kit is to be provided.
- Flange-Style mounting brackets will be furnished for mounting to a wall from outside the panel perimeter.
- A solid state lightning arrester connected to the incoming supply power at the main line lugs or power distribution block will be provided. The lightning arrester is designed to protect control equipment from damage due to lightning strikes on the incoming power supply line.
- A NEMA 4 rated door mounted window will be provided to allow the user to view and change parameters on the power monitor without opening the panel door.

* Consult price book.

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