

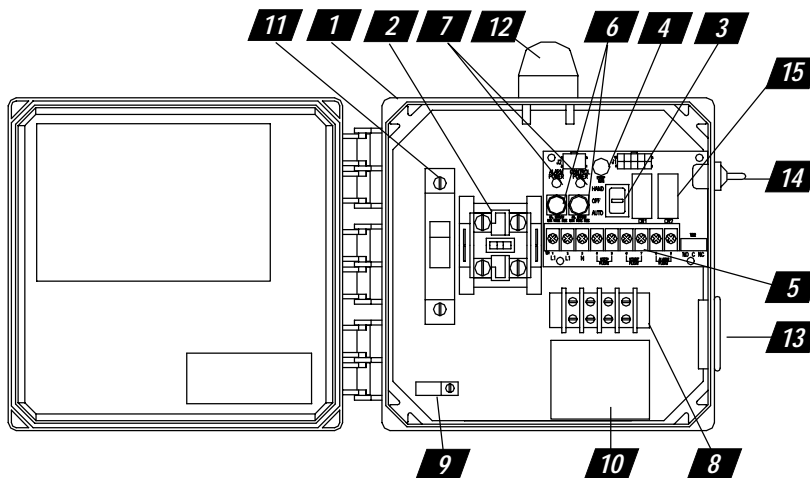
Job: _____	Representative: _____
_____	_____
_____	Order By: _____ Date: _____
Engineer: _____	Submitted By: _____ Date: _____
Contractor: _____	Approved By: _____ Date: _____

Single phase, simplex motor contactor control.

The Model 112 control panel provides a reliable means of controlling one 120, or 240 VAC single-phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.



indoor/outdoor



1. **Enclosure** measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).
★ Options selected may increase enclosure size and change component layout.
2. **Magnetic Motor Contactor** controls pump by switching hot electrical lines.
3. **HOA Switch** for manual pump control (mounted on circuit board).
4. **Green Pump Run Indicator Light** (mounted on circuit board).
5. **Float Switch Terminal Block** (mounted on circuit board).
6. **Alarm and Control Fuses** (mounted on circuit board).
7. **Alarm and Control Power Indicators** (mounted on circuit board).
8. **Pump Input Power and Pump Connection Terminal Block**
9. **Ground Lug**
10. **Terminal Block Installation Label**
11. **Circuit Breaker** provides pump disconnect and branch circuit protection.

STANDARD ALARM PACKAGE

12. **Red Alarm Beacon** provides 360° visual check of alarm condition.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).
14. **Exterior Horn Test/Normal/Silence Switch** allows alarm horn to be silenced and testing of horn and light to ensure proper operation of alarm system.
15. **Horn Silence Relay** automatically resets alarm after alarm condition has been resolved (mounted on circuit board).

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Complete with step-by-step installation instructions
- Three-year limited warranty
- Auxiliary alarm contact, form C type
- Door mounted pump run indicator



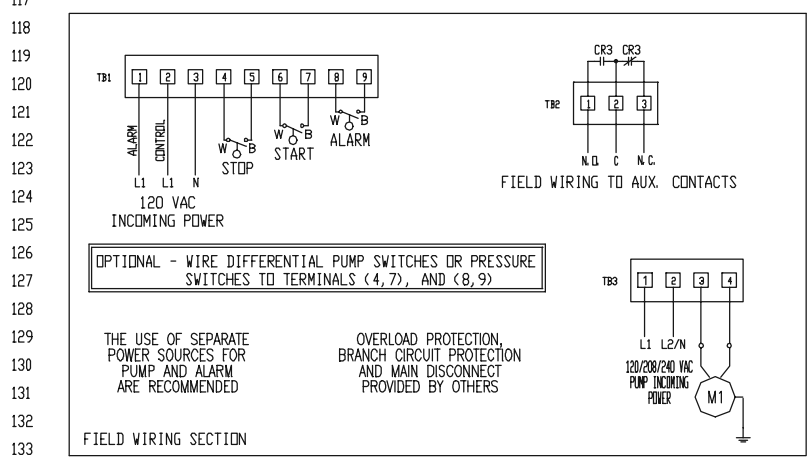
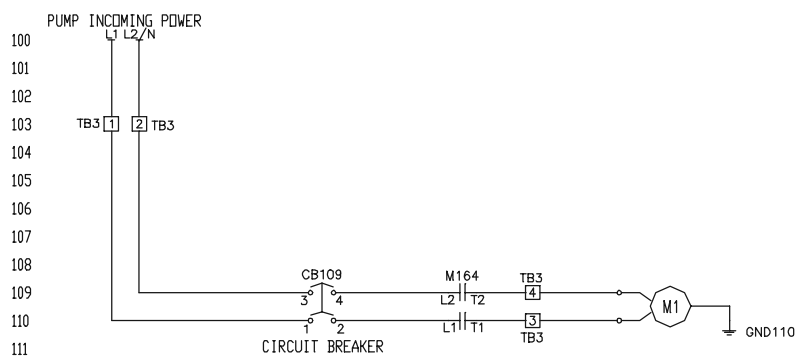
OPTIONS

- | | |
|----------------------------|--|
| <input type="checkbox"/> | 3A Alarm flasher |
| <input type="checkbox"/> ★ | 4A Low level cutout - requires float. |
| <input type="checkbox"/> ★ | 4B Red low-level indicator & alarm
<i>must select 4A</i> |
| <input type="checkbox"/> ★ | 8A Elapsed time meter |
| <input type="checkbox"/> ★ | 8C Event (cycle) counter |
| <input type="checkbox"/> | 10E Lockable latch - NEMA 4X |
| <input type="checkbox"/> ★ | 10F Lightning arrester |
| <input type="checkbox"/> ★ | 10K Anti-condensation heater |
| <input type="checkbox"/> | 15A Control / alarm circuit breaker
<i>Does not include the circuit board as in standard.</i> |

SINGLE PHASE - SIMPLEX MODEL 112

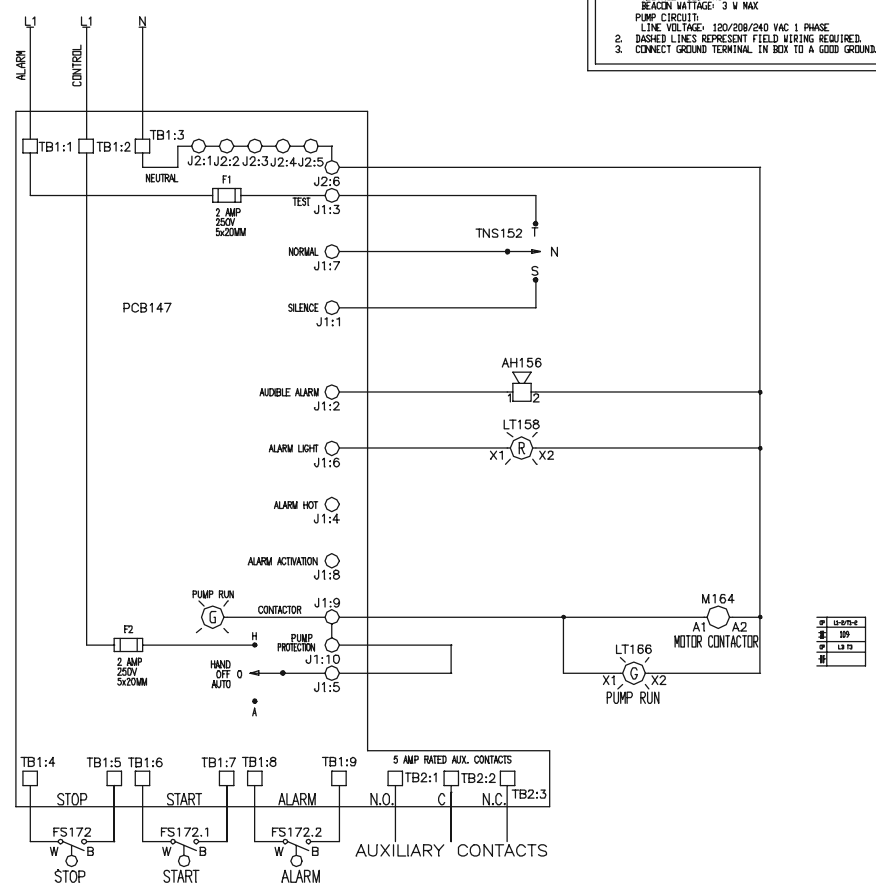
NOTES

- PANEL SPECIFICATIONS:
CONTROL/ALARM SECTION
VOLTAGE: 120 VAC
SEASON VARIANCE: 3 W MAX
PUMP CIRCUIT:
LINE VOLTAGE: 120/208/240 VAC 1 PHASE
- DASHED LINES REPRESENT FIELD WIRING REQUIRED.
- CONNECT GROUND TERMINAL IN BOX TO A GOOD GROUND.



TEMPERATURE RATING OF FIELD INSTALLED CONDUCTORS MUST BE AT LEAST 140 DEG. F. (60 DEG. C.). TERMINAL STRIPS AND GROUND LUG WILL ACCEPT COPPER CONDUCTORS. TORQUE RATING OF TERMINAL STRIP CLAMPING SCREWS IS 16 IN/LBS FOR ALARM AND PUMP CONTROL SECTION AND 50 IN/LBS FOR GROUND LUG.

141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181



REV. CONTROL PANEL (L1)			NOTICE: THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND IT SHALL NOT BE USED OR REPRODUCED OR ITS CONTENTS DISCLOSED IN WHOLE OR IN PART, WITHOUT PRIOR WRITTEN CONSENT.			ARMSTRONG		
DRN BY	DATE	CHKD BY	DATE	APPD BY	DATE	PROJECT NO.	QUOTE NO.	REV.
GDV	7/27/00	DPM	7/28/00	RMS	8/2/00	ARMG1121	N/A	A
DES NAME	ARMSTRONG	DES P/N	N/A	PAGE	SCALE	TITLE		
REV	ECO NO.	DATE	DRN	APPD	1 of 1	1121W14X6A19X		

S.A. Armstrong Limited
23 Bertrand Avenue
Toronto, Ontario
Canada, M1L 2P3
Tel: (416) 755-2291
Fax: (416) 759-9101
Visit us at www.armstrongpumps.com

Armstrong Pumps Limited
Peartree Road, Stanway
Colchester, Essex
United Kingdom, C03 5JX
Tel: 01206-579491
Fax: 01206-760532



Armstrong Pumps Inc.
93 East Avenue
Buffalo, New York
U.S.A. 14120-6594
Tel: (716) 693-8813
Fax: (716) 693-8970

Armstrong Darling Inc.
2200 Place Transcanadienne
Montreal, Quebec
Canada, H9P 2X5
Tel: (514) 421-2424
Fax: (514) 421-2436