SIMPLEX/DUPLEX
WASTEWATER
DISCONNECT STYLE PANELS
PANEL FEATURES

Oversize enclosure to accommodate all options.
One main disconnect through-the-door with door interlock, prevents the door from accidentally being opened when the disconnect is in the ON position. Pad-lockable in the OFF position only.
A manual lockable disconnect feature on the motor overload protector. Lock not provided.
Oversize magnetic contactor.
Ambient compensated bi-metallic (Class 10) motor overload circuit protector. Instantaneous magnetic trip for short circuit protection. Single-phase protection for three-phase motor. Field adjustable within the amp. range.
Control transformer with fused primary and fused secondary on all three-phase. Single-phase 115 volt has a fused control circuit.
Through-door hand-off-auto switch, control on/off switch and green pump run light.
Numbered and wired control terminal board.
Layout and schematic CAD diagrams can be provided upon request.
Optional alarm circuit may be field modified to use a 115 volt AC external power source.

APPLICATIONS

Superior quality simplex and duplex liquid level controller automatically maintains pump operation. Includes high-level alarm warning for a variety of sump, effluent, sewage and water transfer applications with ability to disconnect power at panels.

SPECIFICATIONS - 1Ø AND 3Ø

• Accepts single or dual power feed.
• Solid state printed circuit control board with float indicator lights.
• Main disconnect
• Alternator for duplex version
• Alarm horn
• Auxiliary alarm contacts
• Capacitors for pumps requiring external motor components are not included or available with this panel.

Single Phase

• Field adjustable for 115 or 230 V, 60 Hz.
• Adjustable motor overload protectors redundant to built-in overload in single phase motors.

Three Phase

• Field adjustable for 208/230/460/575 V, 60 Hz.
• 115 V control circuit transformer.
• Adjustable motor overload protectors.
• Heaters not required.

ORDER NUMBERS

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<th>NEMA 1</th>
<th>NEMA 4X</th>
<th>Amp Rating</th>
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NOTE: NEMA 4X panel selections are dead front with an inner door

NOMENCLATURE

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<tr>
<th>Character</th>
<th>Description</th>
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<tbody>
<tr>
<td>1st</td>
<td>C = Centripro</td>
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<tr>
<td>2nd</td>
<td>S = Simplex, D = Duplex</td>
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<tr>
<td>3rd</td>
<td>D = Disconnect</td>
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<td>4th</td>
<td>1 = single phase - 115/230 volt 3 = 3 phase - 208/230/460/575 volt</td>
</tr>
<tr>
<td>5th - 8th</td>
<td>116 = 1.0-1.6 amp range, 1625 = 1.6-2.5 amp range, 2540 = 2.5-4.0 amp range, 4063 = 4.0-6.3 amp range, 6310 = 6.3-10.0 amp range, 1016 = 10-16 amp range, 1620 = 16-20 amp range, 2025 = 20-25 amp range, 2232 = 22-32 amp range (amp ratings of 22-25 overlap on the last two ratings, when in doubt go to larger range)</td>
</tr>
<tr>
<td>9th - 10th</td>
<td>N1 = Nema 1, Nothing in 9th and 10th character for Nema 4X</td>
</tr>
</tbody>
</table>
**ADDITIONAL OPTIONS**

**Code** (add as required)

- **A** = Guaranteed pump submergence circuit
- **C** = 115V condensation heater
- **D** = Single phase lightning arrester
- **E** = Three phase lightning arrester
- **F** = Elapsed time meter (1) - simplex
- **H** = Seal fail circuit (1) - simplex
- **K** = Cycle counter – Simplex
- **M** = High temp. indicator with shutdown – Simplex
- **O** = Special simplex seal fail and high temperature circuit for use on only three phase 15/20GD, 15/20GX, 1GA/2GA, GV Plus and Impact pumps. For single phase, see CentriPro single phase grinder control panels bulletin BCP1PGP for standard, BCP1PC1P for explosion proof.
- **R** = Simplex 3SDX/4SDX/4NS/4XD Seal Fail
- **Y** = Simplex dry contact for seal failure interface to building management system.
- **Z** = Simplex dry contact for pump running interface to building management system.

When ordering options, add the appropriate code number as a suffix to the panel order number. Example: S10020CF adds a cond. heater and (1) elapsed time meter.

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**SIMPLEX 1Ø ENCLOSURE LAYOUT**

**ENCLOSURE LAYOUT**

![Simplex 1Ø Enclosure Layout Diagram]

**PANEL LAYOUT**

![Simplex 1Ø Panel Layout Diagram]

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**SIMPLEX 3Ø ENCLOSURE LAYOUT**

**ENCLOSURE LAYOUT**

![Simplex 3Ø Enclosure Layout Diagram]

**PANEL LAYOUT**

![Simplex 3Ø Panel Layout Diagram]

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**SIMPLEX 1Ø ENCLOSURE LAYOUT**

**ENCLOSURE LAYOUT**

![Simplex 1Ø Enclosure Layout Diagram]

**PANEL LAYOUT**

![Simplex 1Ø Panel Layout Diagram]

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**SIMPLEX 3Ø ENCLOSURE LAYOUT**

**ENCLOSURE LAYOUT**

![Simplex 3Ø Enclosure Layout Diagram]

**PANEL LAYOUT**

![Simplex 3Ø Panel Layout Diagram]

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**DUPLICATION 1Ø ENCLOSURE LAYOUT**

**ENCLOSURE LAYOUT**

![Duplex 1Ø Enclosure Layout Diagram]

**PANEL LAYOUT**

![Duplex 1Ø Panel Layout Diagram]

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**DUPLICATION 3Ø ENCLOSURE LAYOUT**

**ENCLOSURE LAYOUT**

![Duplex 3Ø Enclosure Layout Diagram]

**PANEL LAYOUT**

![Duplex 3Ø Panel Layout Diagram]

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**ADDITIONAL OPTIONS**

**Code** (add as required)

- **A** = Guaranteed pump submergence circuit
- **C** = 115V condensation heater
- **D** = Single phase lightning arrester
- **E** = Three phase lightning arrester
- **G** = Elapsed time meter (2) - Duplex
- **J** = Seal fail circuit (2) - Duplex
- **L** = Cycle counter (2) - Duplex
- **N** = High temp. indicator with pump shutdown – Duplex
- **P** = Special duplex Mini CAS seal fail and high temperature circuit for use on only three phase 15/20GD, 15/20GX, 1GA/2GA, GV Plus and Impact pumps. For single phase, see CentriPro single phase grinder control panels bulletin BCP1PGP for standard, BCP1PC1P for explosion proof.
- **R** = Simplex 3SDX/4SDX/4NS/4XD Seal Fail
- **Y** = Duplex 3SDX/4SDX/4NS/4XD Seal Fail
- **YY** = Duplex dry contact for seal failure interface to building management system.
- **ZZ** = Duplex dry contact for pump running interface to building management system.

When ordering options, add the appropriate code number as a suffix to the panel order number. Example...D31625CG adds a condensation heater and (2) elapsed time meters.
SIMPLEX PANEL INSTALLATION – SINGLE PHASE

115/230 VAC (FOR 115 VAC, USE TERMINALS L1 AND N, JUMP L2 AND N.)
SINGLE PHASE 60 HZ

FOR SEPARATE 120 VAC CONTROL POWER SUPPLY, REMOVE JUMPER (J1) FROM TERMINALS (H) AND (L1). CONNECT 15 AMP MAX. PROTECTED 120 VAC SUPPLY TO TERMINALS (L1) AND (N). WITH THE NEUTRAL OF THE SUPPLY TO (N).

FOR USE WITH WIDE ANGLE FLOAT SWITCH (ONE FLOAT FOR BOTH ON AND OFF OPERATION). JUMP TERMINALS (3) AND (4), INSTALL WIDE ANGLE FLOAT TO TERMINALS (1) AND (2).
SIMPLEX PANEL INSTALLATION - THREE PHASE

- PROVIDE DISCONNECT PER NEC CODE
- 208/230/460/575 VAC
- 3 PHASE
- 60 Hz

FACTORY WIRED FOR 460 VAC. FOR 208, 230 OR 575 VAC OPERATION CHANGE CONTROL TRANSFORMER PRIMARY AT TERMINAL BLOCK.

- FOR SEPARATE 120 VAC CONTROL POWER SUPPLY, REMOVE JUMPER (J1) FROM TERMINALS (H) AND (L1). CONNECT 15 AMP MAX. PROTECTED 120 VAC SUPPLY TO TERMINALS (L1) AND (N). WITH THE NEUTRAL OF THE SUPPLY TO (N).

- FOR USE WITH WIDE ANGLE FLOAT SWITCH (ONE FLOAT FOR BOTH ON AND OFF OPERATION). JUMP TERMINALS (3) AND (4), INSTALL WIDE ANGLE FLOAT TO TERMINALS (1) AND (2).
DUPLEX PANEL INSTALLATION - SINGLE PHASE

115/230 VAC (FOR 115 VAC, USE TERMINALS L1 AND N, JUMP L2 AND N.)
SINGLE PHASE 60 HZ

FACTORY WIRED FOR (3) FLOAT OPERATION. FOR (4) FLOAT OPERATION, REMOVE JUMPER (J2) FROM TERMINALS (5) AND (8). INSTALL LAG FLOAT ON TERMINALS (5) AND (6).

FOR SEPARATE 120 VAC CONTROL POWER SUPPLY, REMOVE JUMPER (J1) FROM TERMINALS (H) AND (L1). CONNECT 15 AMP MAX. PROTECTED 120 VAC SUPPLY TO TERMINALS (L1) AND (N). WITH THE NEUTRAL OF THE SUPPLY TO (N).

FOR USE WITH WIDE ANGLE FLOAT SWITCH (ONE FLOAT FOR BOTH ON AND OFF OPERATION). JUMP TERMINALS (3) AND (4), INSTALL WIDE ANGLE FLOAT TO TERMINALS (1) AND (2).
A FUSED DISCONNECT OR CIRCUIT BREAKER MUST BE PROVIDED BY INSTALLER. PROVIDE DISCONNECT SIZING PER NEC 430-53(C).

DISC FOR SEPARATE 120 VAC CONTROL POWER SUPPLY, REMOVE JUMPER (J1) FROM TERMINALS (H) AND (L1). CONNECT 15 AMP MAX. PROTECTED 120 VAC SUPPLY TO TERMINALS (L1) AND (N). WITH THE NEUTRAL OF THE SUPPLY TO (N).

FACTORY WIRED FOR 460 VAC. FOR 208, 230 OR FOR 575 VAC OPERATION CHANGE CONTROL TRANSFORMER PRIMARY AT TERMINAL BLOCK.

FOR USE WITH WIDE ANGLE FLOAT SWITCH (ONE FLOAT FOR BOTH ON AND OFF OPERATION). JUMP TERMINALS (3) AND (4), INSTALL WIDE ANGLE FLOAT TO TERMINALS (1) AND (2).
1) The tissue in plants that brings water upward from the roots;
2) a leading global water technology company.

We’re a global team unified in a common purpose: creating advanced technology solutions to the world’s water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xyleminc.com