

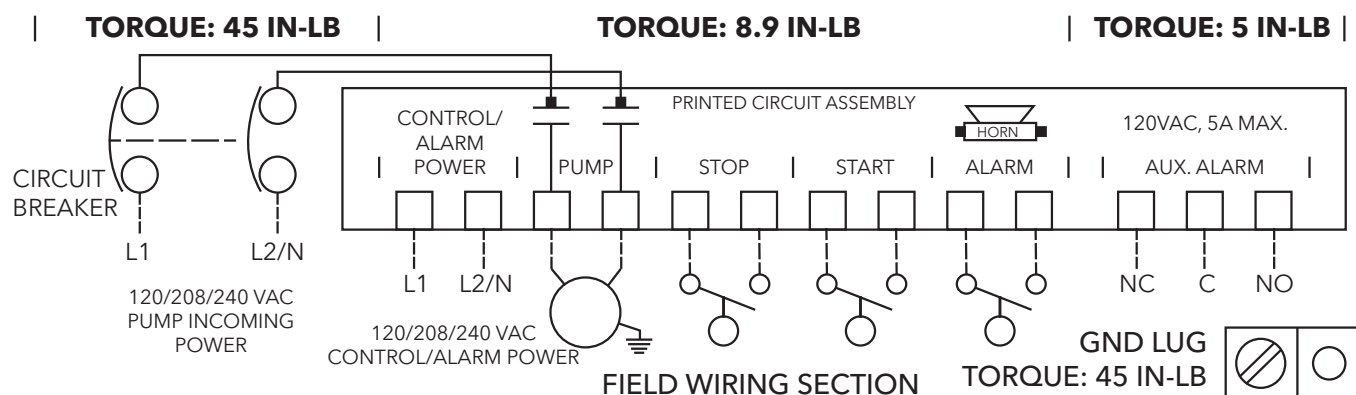


K Series Simplex/Duplex Wastewater Panels

SIMPLEX SINGLE PHASE PANEL

KS19020WF

- Controls one single phase wastewater pump (20 amps maximum)
- 3 Normally Open Floats Included (Off/On/High Level Alarm) 20' Cords
- 8" X 6" X 4" NEMA 4X Thermoplastic Enclosure
- Universal pump voltage and control/alarm power
- One panel handles 3 voltages (120/208/230V)
- Audible/visual high level alarm system with auxiliary alarm contacts, for signaling an external device
- Integral mounting tabs
- Integral padlockable latch



BRANCH CIRCUIT PROTECTION FOR CONTROL/ALARM CIRCUIT PROVIDED BY OTHERS

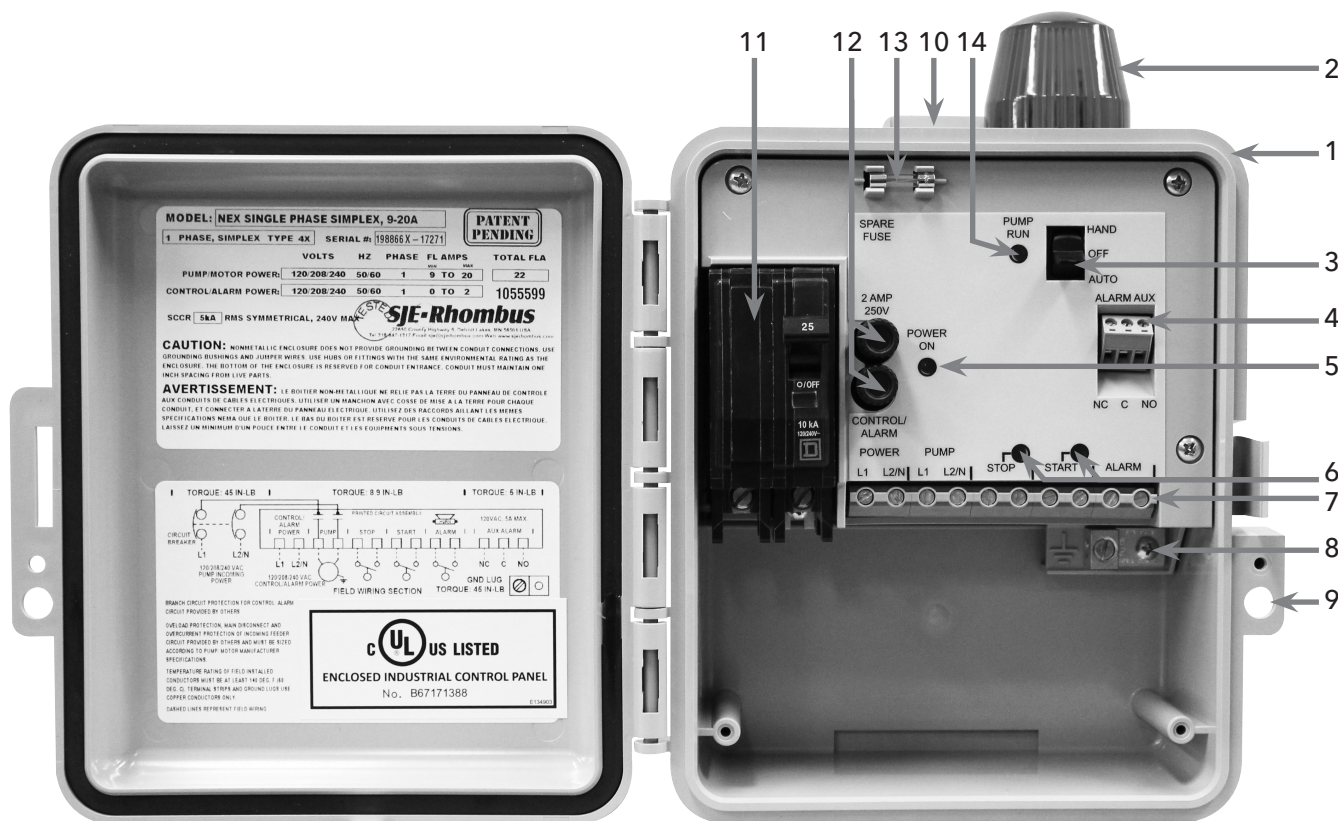
OVERLOAD PROTECTION, MAIN DISCONNECT AND OVERCURRENT PROTECTION OF INCOMING FEEDER CIRCUIT PROVIDED BY OTHERS AND MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURER SPECIFICATIONS.

TEMPERATURE RATING OF FIELD INSTALLED CONDUCTORS MUST BE AT LEAST 140°F (60°C). TERMINAL STRIPS AND GROUND LUGS USE COPPER CONDUCTORS ONLY.

DASHED LINES REPRESENT FIELD WIRING.

SIMPLEX SINGLE PHASE PANEL

KS19020WF



COMPONENTS

1. NEMA 4X outdoor rated enclosure
2. Red LED alarm beacon
3. HOA selector switch
4. Auxiliary alarm contacts
5. Green control/alarm power indicator
6. Red float status indicators (stop/start)
7. Field wiring terminal block

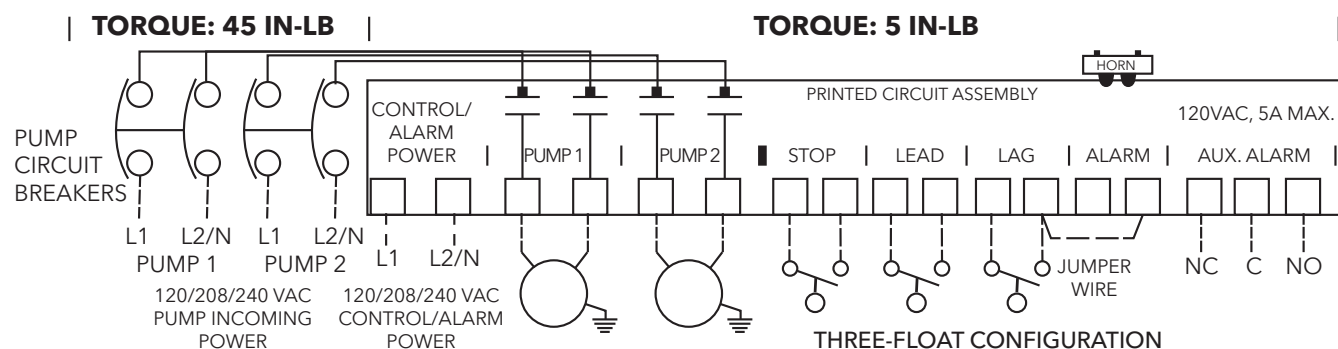
8. Ground lug
9. Integral padlockable latch
10. Integral mounting tabs
11. Pump circuit breaker
12. Control/alarm fuses
13. Spare fuse
14. Green pump run indicator

Not Shown: Alarm piezo horn and test/silence push button

DUPLEX SINGLE PHASE PANEL

KD19020WF

- Alternately controls two single phase wastewater pumps (20 amps maximum)
- 3 Normally Open Floats Included (Off/On/High Level Alarm) 20' Cords
- 10" X 8" X 4" NEMA 4X Thermoplastic Enclosure
- Universal pump voltage and control/alarm power
- One panel handles 3 voltages (120/208/230V)
- Audible/visual high level alarm system with auxiliary alarm contacts, for signaling an external device
- Integral mounting tabs
- Integral padlockable latch

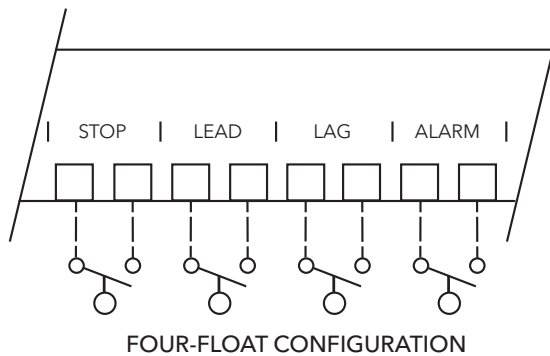


BRANCH CIRCUIT PROTECTION FOR CONTROL/ ALARM CIRCUIT PROVIDED BY OTHERS

OVERLOAD PROTECTION, MAIN DISCONNECT AND OVERCURRENT PROTECTION OF INCOMING FEEDER CIRCUIT PROVIDED BY OTHERS AND MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURER SPECIFICATIONS.

TEMPERATURE OF FIELD INSTALLED CONDUCTORS MUST BE AT LEAST 140°F (60°C). TERMINAL STRIPS AND GROUND LUGS USE COPPER CONDUCTORS ONLY.

DASHED LINES REPRESENT FIELD WIRING.



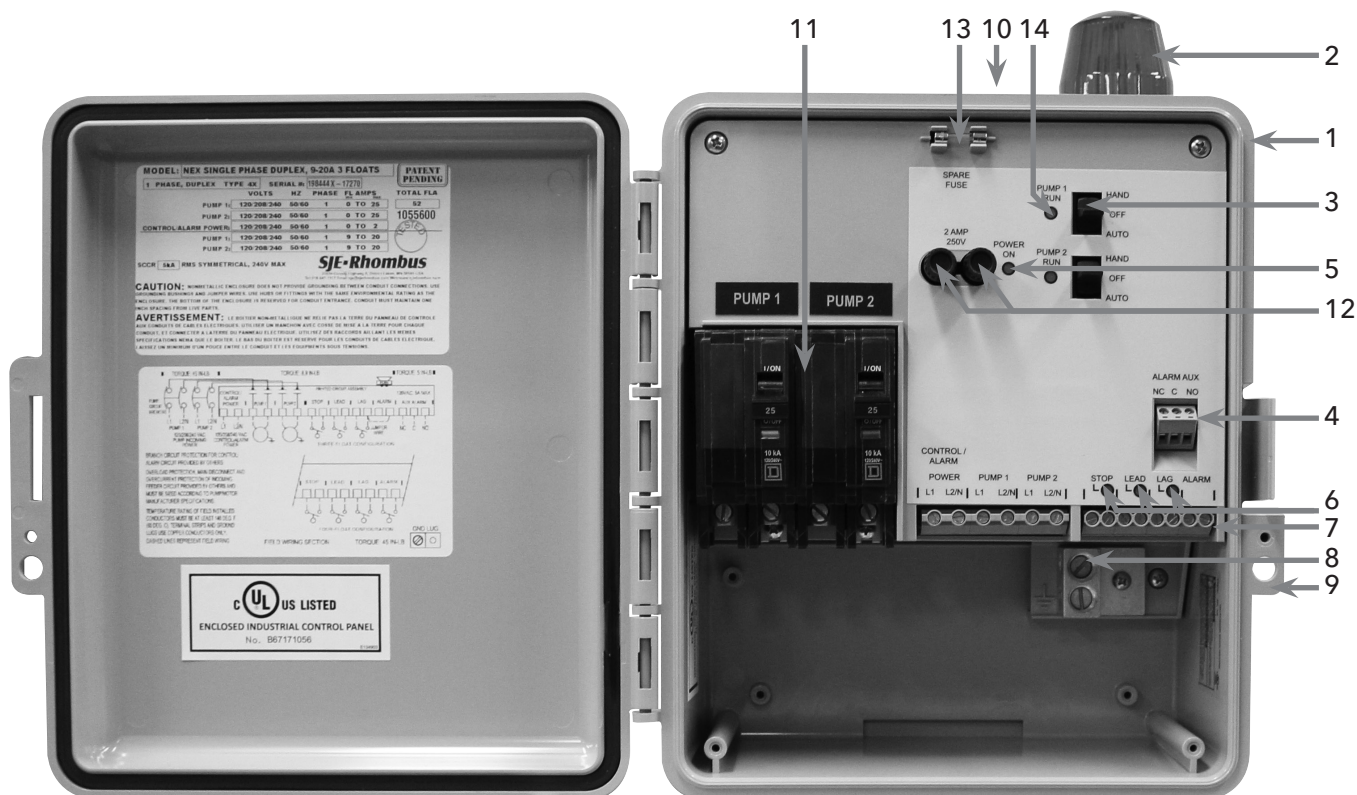
FIELD WIRING SECTION



TORQUE: 45 IN-LB

DUPLEX SINGLE PHASE PANEL

KD19020WF



COMPONENTS

1. NEMA 4X outdoor rated enclosure
2. Red LED alarm beacon
3. HOA selector switch
4. Auxiliary alarm contacts
5. Green control/alarm power indicator
6. Red float status indicators (stop/lead/lag)
7. Field wiring terminal blocks

8. Ground lug
9. Integral padlockable latch
10. Integral mounting tabs
11. Pump circuit breakers
12. Control/alarm fuses
13. Spare fuse
14. Green pump run indicators

Not Shown: Alarm piezo horn and test/silence push button

SIMPLEX THREE PHASE PANEL

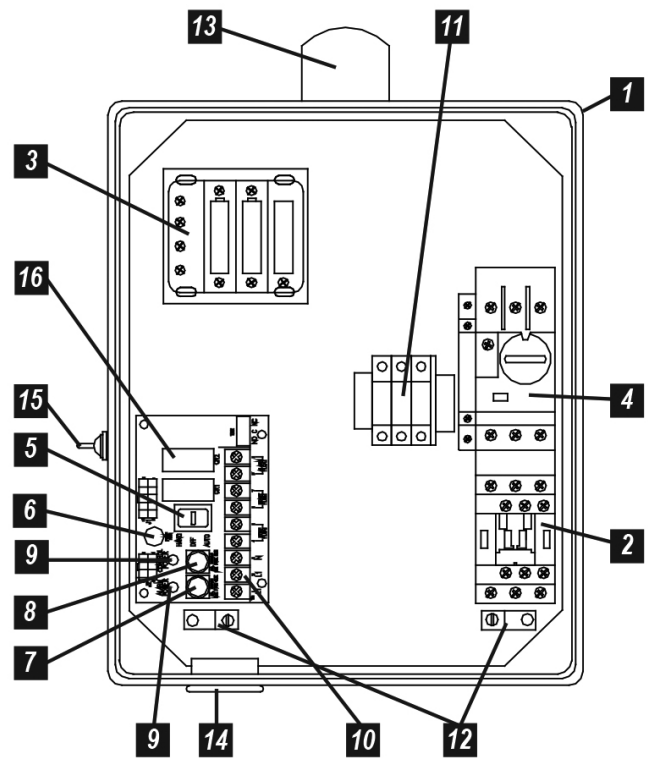
KS31255WF (1.25 - 5 AMPS) • KS34518WF (4.5 - 18 AMPS) • KS38032WF (8 - 32 AMPS)

- Controls one three phase wastewater pump
- 3 Normally Open Floats Included (Off/On/High Level Alarm) 20' Cords
- 12" X 10" X 6" NEMA 4X Thermoplastic Enclosure with removable mounting feet
- Multi-Tap Transformer (208/230/460V primary) provides 120V control/alarm voltage
- Audible/visual high level alarm system with auxiliary alarm contacts, for signaling an external device

PANEL COMPONENTS

1. Enclosure measures 12 x 10 x 6 inches (30.48 x 25.40 x 15.24 cm). NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. IEC Motor Contactor controls pump by switching electrical lines.
3. Multi-Tap Transformer (208/240/480 VAC primary) provides 120V control/alarm voltage.
4. Motor Protective Switch provides adjustable overload, branch circuit protection and pump disconnect.
5. HOA Switch for manual pump control (mounted on circuit board)
6. Green Pump Run Indicator Light mounted on circuit board
7. Alarm Fuse (mounted on circuit board)
8. Control Fuse (mounted on circuit board)
9. Alarm and Control Power Indicators (mounted on circuit board)
10. Float Switch Terminal Block (mounted on circuit board)
11. Input Power Terminal Block
12. Ground Lugs

NOTE: Schematic/Wiring Diagram is located inside the panel on enclosure cover.

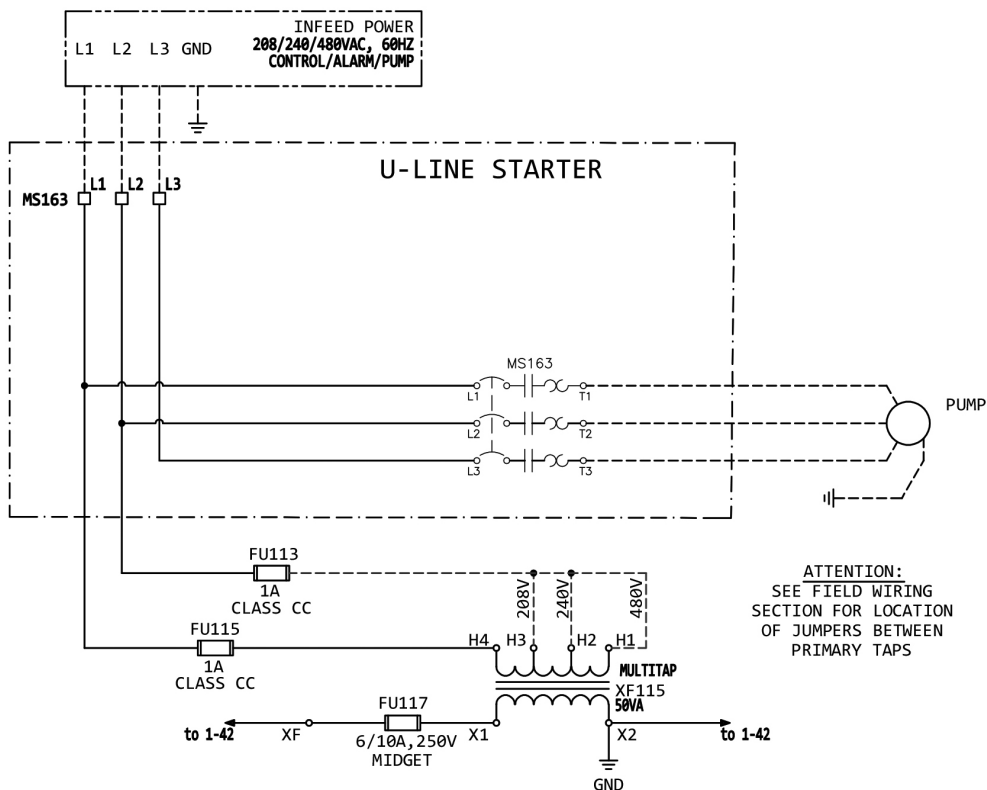


STANDARD ALARM PACKAGE

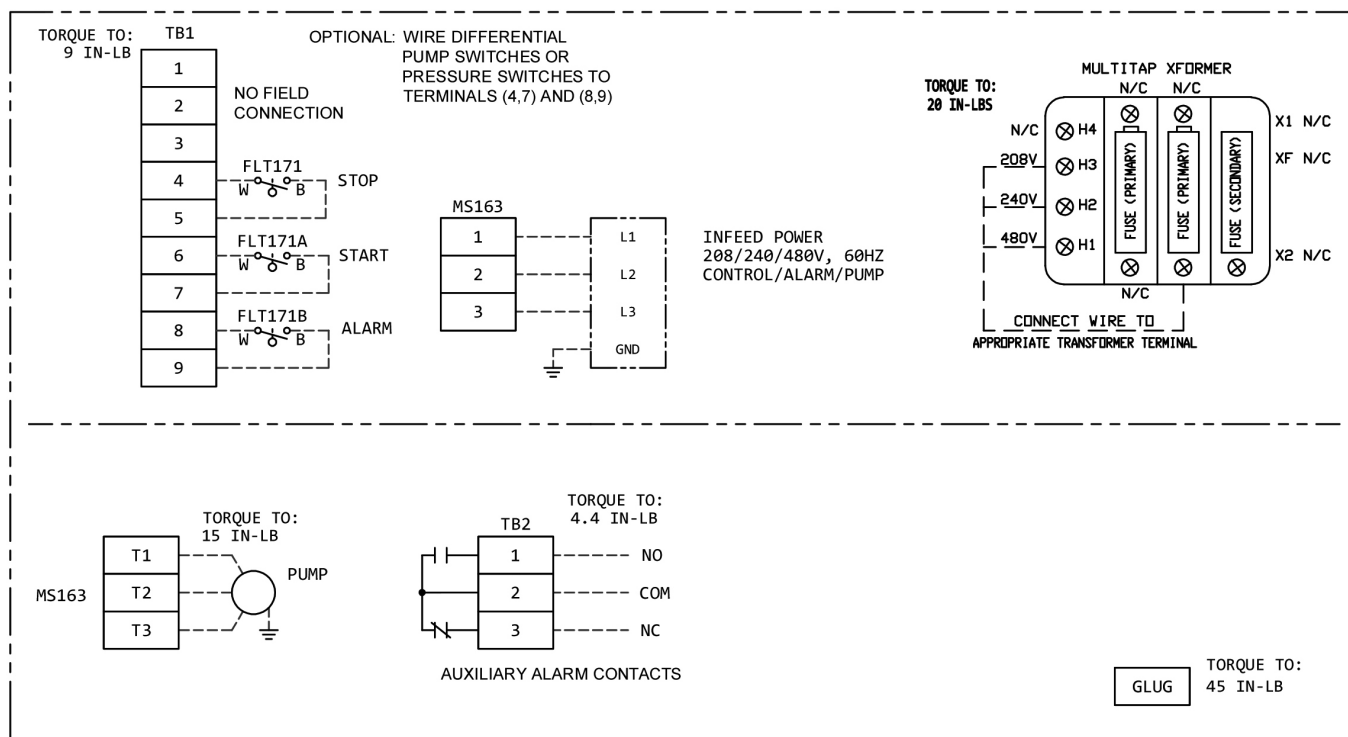
13. Red Alarm Beacon provides 360° visual check of alarm condition.
14. Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
15. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
16. Horn Silence Relay (mounted on circuit board)

SIMPLEX THREE PHASE PANEL

KS31255WF (1.25 - 5 AMPS) • KS34518WF (4.5 - 18 AMPS) • KS38032WF (8 - 32 AMPS)



FIELD WIRING SECTION



DUPLEX THREE PHASE PANEL

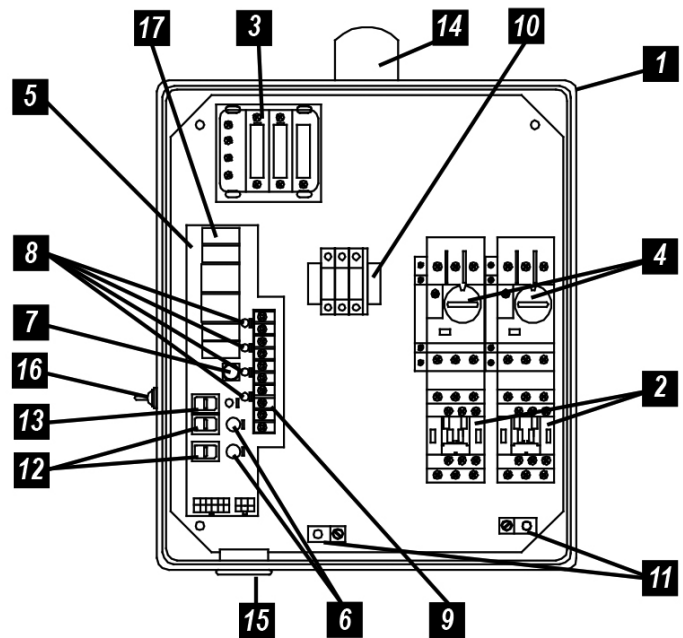
KD31255WF (1.25 - 5 AMPS) • KD34518WF (4.5 - 18 AMPS) • KD38032WF (8 - 32 AMPS)

- Alternately controls two (2), three phase wastewater pumps
- 3 Normally Open Floats Included (Off/On/High Level Alarm) 20' Cords
- 14" X 12" X 6" NEMA 4X Thermoplastic Enclosure with removable mounting feet
- Multi-Tap Transformer (208/230/460V primary) provides 120V control/alarm voltage
- Audible/visual high level alarm system with auxiliary alarm contacts, for signaling an external device

PANEL COMPONENTS

1. Enclosure measures 14 x 12 x 6 inches (35.56 x 30.48 x 15.24 cm) NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
2. IEC Motor Contactors control pumps by switching electrical lines.
3. Multi-Tap Transformer (208/240/480 VAC primary) provides 120V control/alarm voltage.
4. Motor Protective Switches provide adjustable overload, branch circuit protection and pump disconnect.
5. Alternating Circuit Board provides pump control and alternation (U.S. Patent # 5,909,532).
6. Green Pump Run Indicator Lights (mounted on circuit board)
7. Alarm/Control Fuse (mounted on circuit board)
8. Float Status Indicator Lights (mounted on circuit board)
9. Float Switch Terminal Block (mounted on circuit board)
10. Input Power Terminal Block
11. Ground Lugs
12. HOA Switches for manual pump control (mounted on circuit board)
13. Control ON/OFF Switch (mounted on circuit board)

NOTE: Schematic/Wiring Diagram is located inside the panel on enclosure cover.

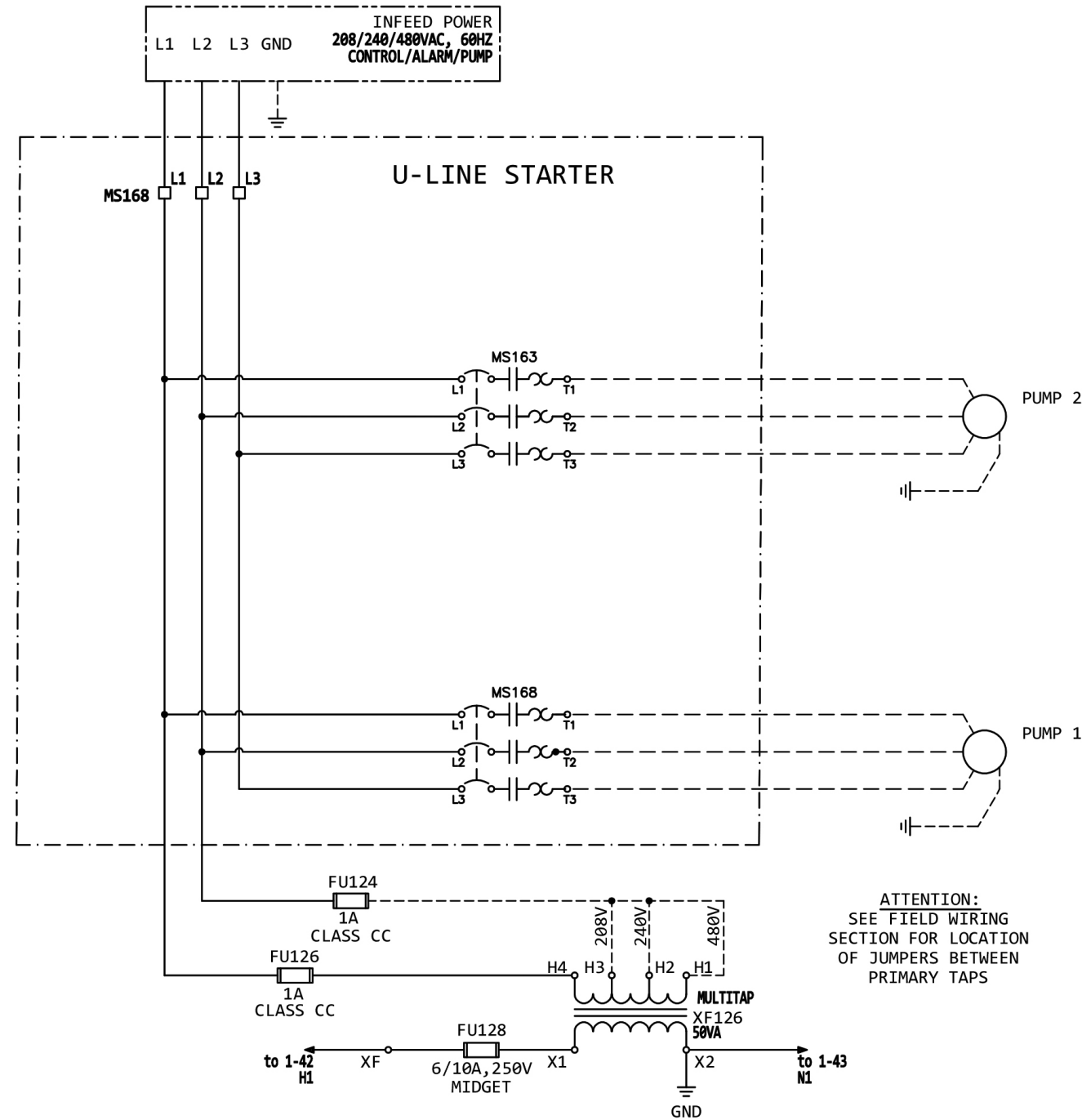


STANDARD ALARM PACKAGE

14. Red Alarm Beacon provides 360° visual check of alarm condition.
15. Alarm Horn provides audio warning of alarm condition (83 to 85 decibel rating).
16. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition is cleared.
17. Horn Silence Relay (mounted on circuit board)

DUPLEX THREE PHASE PANEL

KD31255WF (1.25 - 5 AMPS) • KD34518WF (4.5 - 18 AMPS) • KD38032WF (8 - 32 AMPS)



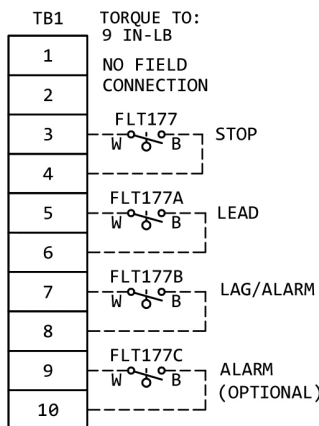
DUPLEX THREE PHASE PANEL

KD31255WF (1.25 - 5 AMPS) • KD34518WF (4.5 - 18 AMPS) • KD38032WF (8 - 32 AMPS)

FIELD WIRING SECTION

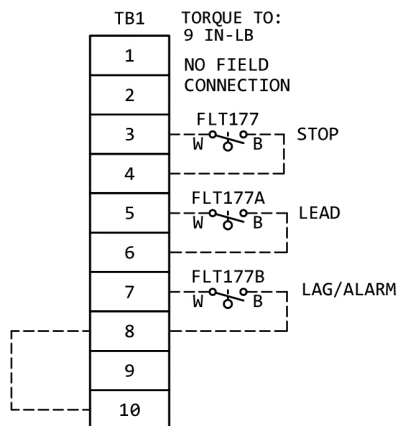
FOUR FLOAT OPERATION

(NO JUMPER WIRE NEEDED)

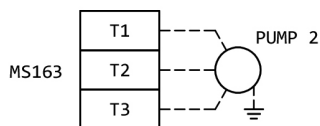
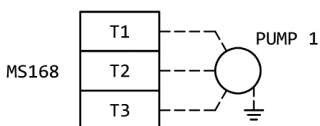
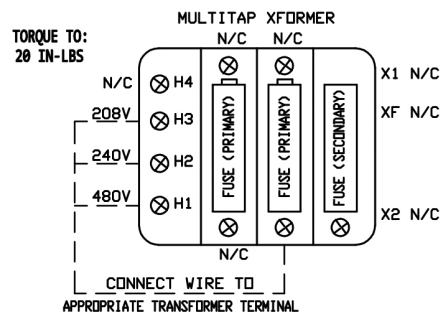
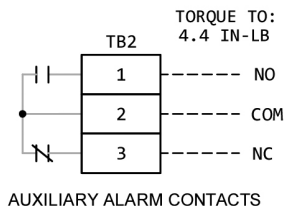
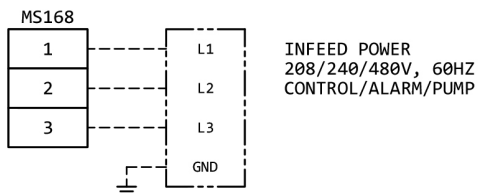


THREE FLOAT OPERATION

(ADD JUMPER WIRE FROM TB1:8 TO TB1:10)



OPTIONAL: WIRE DIFFERENTIAL PUMP SWITCHES OR PRESSURE SWITCHES TO TERMINALS (3,4 (LEAD) (PLACE JUMPER ACROSS 4, 6)), (7,8 (LAG/ALARM) AND (9,10 (ALARM) IF SEPARATE ALARM IS REQUIRED)).



GLUG TORQUE TO: 45 IN-LB

NOTES:

1. FIELD WIRING IS SHOWN -----
2. TEMPERATURE RATING OF FIELD INSTALLED CONDUCTORS MUST BE AT LEAST 140° F. (60° C.).
3. FIELD WIRING WILL ACCEPT COPPER CONDUCTORS ONLY.
4. CONNECT GROUND LUG IN PANEL TO A SECURE EARTH GROUND.
5. INSTALL IN ACCORDANCE WITH ARTICLE 409 OF THE NATIONAL ELECTRIC CODE.
6. MAIN DISCONNECT AND OVERCURRENT PROTECTION OF INCOMING FEEDER CIRCUIT PROVIDED BY OTHERS AND MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURING SPECIFICATIONS.

NOTES

Xylem |'zīləm|

- 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, longstanding 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.xylem.com



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