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3. UL Approvals - Lighting Control Panels are to be UL listed as a complete system under UL 916 Energy Management Equipment.
4. Local Codes – Comply with all local codes for work of this nature.
- B. Component Pre-testing - All components and assemblies are to be factory pre-tested and burned-in prior to installation.
- C. System Checkout - Factory trained technicians shall be available to functionally test system after installation to verify proper operation and confirm that the enclosure wiring and addressing conform to the wiring documentation.
- D. System Support - Factory trained application engineers shall be available for on-site training as well as telephone support

1.05 SUPPORT SERVICES

- A. Local Support - The manufacturer shall have service representatives within a 60-mile radius of the installation.
- B. Technical Support - The manufacturer shall provide free telephone support to the owner for one years after completion of construction and start-up.
- C. Extended Service Coverage - Maintenance agreements shall be available from the manufacturer to provide service for the system both during and after the warranty period.

1.06 WARRANTY

- A. Installation Warranty - The installing contractor shall provide a written warranty agreeing to provide labor and materials to replace any portion of the lighting control system equipment or wiring that fails due to materials or workmanship for a period of twelve months from warranty commencement.
- B. Manufacturer's Warranty - The manufacturer shall provide a written warranty agreeing to provide parts to replace any portion of the lighting control system equipment that fails due to material or workmanship for a period of one years from date of shipment.
- C. Warranty Commencement. Warranty shall begin at the point of substantial completion of the system installation, which is defined as the date when commissioning and owner training has been completed and the owner obtains beneficial use of the system.
- D. Warranty Replacement - The manufacturer shall be able to ship replacement parts within 24 hours for any component that that fails due to material or workmanship during the warranty period.

PART 2 PRODUCTS

2.01 LIGHTING CONTROL SYSTEM

- A. The lighting control system panels shall be capable of stand-alone operation based upon internal astronomical time clock.
- B. Manufacturers:
- Lighting Control Design
 - Leviton
 - Lutron
 - ILC
 - Hubbell Building Automation
 - Wattstopper
 - Cooper Controls
 - Touche
 - Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 LIGHT LEVEL SENSORS

- A. Light Level Sensor
- Outdoor - Outdoor models shall have a hood over the aperture to shield the sensor from direct sunlight. The outdoor sensor circuitry shall be completely encased in an optically clear epoxy resin. Outdoor sensors shall mount to a standard threaded 1/2" conduit or fit a 1/2" knockout. The Outdoor sensor range shall be between 0 and 750 FC.
 - Indoor light level sensor.
 - Programming software (programming relay groups).

2.03 OCCUPANCY SENSORS

- A. Manufacturers:
- Hubbell (Basis of Design)
 - Leviton
 - WattStopper
 - Novitas
 - Sensor Switch
 - Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.
- B. Products:
- Passive Infrared Adaptive Technology Switch - as indicated on plan:
 - Hubbell IW SZP3P (manual on/auto off)
 - Passive Infrared Adaptive Technology Switch with dual relay to control exhaust fan - as indicated on plan:
 - Wattstopper PW-200 (manual on/auto off) – 5 Minute delay on EF switch.
 - Ultrasonic/Passive Infrared Adaptive Dual Technology Sensor Ceiling sized per manufacturer for proper coverage
 - 500 sq.ft. - Hubbell Omni-DT500
 - 1000 sq.ft. - Hubbell Omni-DT1000
 - 2000 sq.ft. - Hubbell Omni-DT2000
 - Hallways - Hubbell Omni-DT2000
 - Ultrasonic/Passive Infrared Adaptive Dual Technology Sensor Wall
 - 1600 sq.ft. – Hubbell LO-DT
 - Ultrasonic Sensor with Daylight Control:
 - Photocell shall be adjustable from 5 to 300 foot candles.
 - Photocell control shall have an adjustable time delay to prevent lights from cycling during temporary interruptions of ambient light.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install the lighting control equipment according to the manufacturers written instructions. Contractor shall make all necessary wiring connections to external devices and equipment.
- B. Provide and install all wiring between control devices as indicated in the contract drawings, details, and/or indicated in the manufacturer's submittal package.
- C. Bundle and support wiring in enclosures.

3.02 COMMISSIONING

- A. Manufacturer's Field Services - Arrange and pay for the services of factory-authorized service representatives to commission, test and program the lighting control system
- B. Provide up to Three (3) Service calls for adjustment of Occupancy sensors after initial Adaptive Technology adjustment period of 1 month for one (1) year from date of substantial completion.

3.03 COORDINATION

- A. It shall be the responsibility of the Installing Contractor to receive and store materials and equipment necessary to his work. It is intended that Specifications and Plans shall include everything required and necessary for proper and complete installation of the Lighting Control System even though every item may not be particularly mentioned in detail. The Contractor shall timely deliver to other trades any equipment that must be installed during construction. Installing Contractor shall be responsible for field measurements and coordination of the physical size of all equipment with the architectural requirements of the spaces into which the equipment will be installed.

SECTION 26 2416 PANELBOARDS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Power distribution panelboards.
- B. Lighting and appliance panelboards.
- C. Load centers.
- D. Integral TVSS lighting and appliance panelboards.

1.02 REFERENCES

- A. Meet NEMA (National Electrical Manufacturers Association)
- B. Install per NECA (National Electrical Contractors Association)
- C. Install per NFPA 70 – (National Electrical Code; National Fire Protection Association)

1.03 SUBMITTALS

- A. See Section 26 0500 - Basic Electrical Requirements - Submittal procedures.
- B. Provide the Overcurrent Protective Device Coordination Study when submitting the shop drawings. Shop drawings will be rejected unless submitted.
- C. Shop Drawings: Indicate outline and support point dimensions, voltage, main bus ampacity, integrated short circuit ampere rating, circuit breaker and fusible switch arrangement and sizes.
- D. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use

- stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product. Provide Overcurrent Protective Device Coordination Study.
- E. Project Record Documents: Record actual locations of panelboards and record actual circuiting arrangements.
- F. Maintenance Data: Include spare parts listing; source and current prices of replacement parts and supplies; and recommended maintenance procedures and intervals.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with a minimum of three years' experience.
- C. All equipment specified within shall be of the same manufacturer.
- D. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

1.05 MAINTENANCE MATERIALS

- A. Furnish three panelboard keys.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Eaton Corporation
- B. GE Company
- C. Square D Company
- D. Siemens
- E. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 Short Circuit Study

- A. Calculations to be provided by manufacturer. E.C. to coordinate and provide one-line and cable lengths. E.C. to obtain data from utility for KAIC rating at the utility transformer.
- B. Minimum integrated short circuit ratings below can be decreased to 10KAIC if short circuit calculations show them below 10KAIC.
- C. Short Circuit Study: Calculate the fault impedance to determine available 3-phase short circuit and ground fault currents at each bus and piece of equipment during normal conditions, alternate operations, emergency power conditions, and other operations that could result in maximum fault conditions.
- Show fault currents available at key points in the system down to a fault current of 7,000 A at 480 V and 208 V.
 - Include motor contributions in determining the momentary and interrupting ratings of the protective devices.
 - Report: Include all pertinent data used in calculations and for each device include:
 - Device identification.
 - Protective device.
 - Device rating.
 - Calculated short circuit current, asymmetrical and symmetrical, and ground fault current.

2.03 POWER DISTRIBUTION PANELBOARDS

- A. Description: NEMA PB 1, circuit breaker type.
- B. Panelboard Bus: Aluminum, ratings as indicated. Provide aluminum ground bus in each panelboard.
- C. Provide 100% neutral buss unless noted otherwise.
- Minimum integrated short circuit rating:
 - 240 Volt Panelboards: 22,000 amperes rms symmetrical.
 - 480 Volt Panelboards: 22,000 amperes rms symmetrical.
 - KAIC rating for breakers in the panel cannot be series rated unless noted otherwise.
- E. Fusible Switch Assemblies: NEMA KS 1, quick-make, quick-break, load interrupter enclosed knife switch with externally operable handle. Provide interlock to prevent opening front cover with switch in ON position. Handle lockable in OFF position. Fuse clips: Designed to accommodate Class R fuses.
- F. Molded Case Circuit Breakers: With integral thermal and instantaneous magnetic trip in each pole; UL listed. For air conditioning equipment branch circuits provide circuit breakers UL listed as Type HACR.
- G. Circuit Breaker Accessories: Trip units and auxiliary switches as indicated.
- H. Enclosure: NEMA PB 1, unless noted otherwise.
- I. Cabinet Front: Surface type, fastened with hinge and latch, hinged door with flush lock, metal directory frame, finished in manufacturer's standard gray enamel.
- J. All panels over 42 breakers shall be vertical single tub panels with 60-84 breakers as noted in panel schedule. Side by side 42 circuit tubs not permitted unless noted otherwise on the drawings.

2.04 LIGHTING AND APPLIANCE PANELBOARDS

- A. Description: NEMA PB1, circuit breaker type, lighting and appliance branch circuit panelboard.
- B. Panelboard Bus: Aluminum, ratings as indicated. Provide aluminum ground bus in each panelboard; provide insulated ground bus where scheduled.
- C. Provide 100% neutral buss unless noted otherwise.
- D. Minimum Integrated Short Circuit Rating: As indicated.
- 240 Volt Panelboards: 22,000 amperes rms symmetrical.
 - 480 Volt Panelboards: 22,000 amperes rms symmetrical.
 - KAIC rating for breakers in the panel cannot be series rated unless noted otherwise.
- E. Molded Case Circuit Breakers: Thermal magnetic trip circuit breakers, bolt-on type, with common trip handle for all poles; UL listed.
- Type SWD for lighting circuits.
 - Type HACR for air conditioning equipment circuits.
 - Class A ground fault interrupter circuit breakers where scheduled.
 - Do not use tandem circuit breakers.
- F. Enclosure: NEMA PB 1, Type 1.
- G. Cabinet Box: 6 inches deep, 20 inches wide for 240 volt and less panelboards, 20 inches wide for 480 volt panelboards.
- H. Cabinet Front: Flush cabinet front with concealed trim clamps, concealed hinge, metal directory frame, and flush lock all keyed alike. Finish in manufacturer's standard gray enamel.
- J. All panels over 42 breakers shall be vertical single tub panels with 60-84 breakers as noted in panel schedule. Side by side 42 circuit tubs not permitted unless noted otherwise on the drawings.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install panelboards in accordance with NEMA PB 1.1 and NECA 1.
- B. Install panelboards plumb. Install recessed panelboards flush with wall finishes.
- C. Height: 6 feet to top of panelboard; install panelboards taller than 6 feet with bottom no more than 4 inches above floor. ANSI units (ADA) panel to be mounted such that the top breaker is at 48" or lower.
- D. Provide filler plates for unused spaces in panelboards.
- E. Provide typed handwritten circuit directory for each branch circuit panelboard. Revise directory to reflect circuiting changes required to balance phase loads.
- F. Provide typed or neatly handwritten circuit directory for each branch circuit panelboard. Revise directory to reflect circuiting changes required to balance phase loads.
- G. Provide engraved plastic nameplates under the provisions of Section 26 0553.
- H. Provide spare conduits out of each recessed panelboard to an accessible location above ceiling. Identify each as SFARE.
- Minimum spare conduits: 5 empty 1 inch.
- I. Ground and bond panelboard enclosure according to Section 26 0526.
- J. In commercial kitchens all equipment under the hood shall have shunt trip breakers. All equipment in the kitchen shall be GFI protected. Provide breakers and/OR GFI receptacles to meet the requirements per the NEC.

3.02 FIELD QUALITY CONTROL

- A. Inspect and test per manufacturer's recommendations.

3.03 ADJUSTING

- A. Measure steady state load currents at each panelboard feeder; rearrange circuits in the panelboard to balance the phase loads to within 10 percent of each other. Maintain proper phasing for multi-wire branch circuits.

3.04 CLEANING

- A. Touch up scratched or marred surfaces to match the original finish.

SECTION 26 2717 EQUIPMENT WIRING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Electrical connections to equipment.

1.02 REFERENCES

- A. Install per NECA (National Electrical Contractors Association)
- B. Meet NEMA (National Electrical Manufacturers Association) standard requirements
- C. Install per NFPA 70 (National Electrical Code; National Fire Protection Association)

1.03 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.

1.04 COORDINATION

- A. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
- B. Determine connection locations and requirements.
- C. Sequence rough-in of electrical connections to coordinate with installation of equipment.
- D. Sequence electrical connections to coordinate with start-up of equipment.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Cords and Caps: NEMA WD 6; match receptacle configuration at outlet provided for equipment.
- Colors: Conform to NEMA WD 1.
 - Cord Construction: NFPA 70, Type SO multiconductor flexible cord with identified equipment grounding conductor, suitable for use in damp locations.
 - Size: Suitable for connected load of equipment, length of cord, and rating of branch circuit overcurrent protection.
- B. Disconnect Switches: As specified in Section 26 2818 and in individual equipment sections.
- C. Wiring Devices: As specified in Section 26 2726.
- D. Flexible Conduit: As specified in Section 26 0534.
- E. Wire and Cable: As specified in Section 26 0519.
- F. Boxes: As specified in Section 26 0533.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that equipment is ready for electrical connection, wiring, and energization.

3.02 ELECTRICAL CONNECTIONS

- A. Make electrical connections in accordance with equipment manufacturer's instructions.
- B. Make conduit connections to equipment using flexible conduit. Use liquidtight flexible conduit with watertight connectors in damp or wet locations.
- C. Connect heat producing equipment using wire and cable with insulation suitable for temperatures encountered.
- D. Provide receptacle outlet to accommodate connection with attachment plug.
- E. Provide cord and cap where field-supplied attachment plug is required.
- F. Install suitable strain-relief clamps and fittings for cord connections at outlet boxes and equipment connection boxes.
- G. Install disconnect switches, controllers, control stations, and control devices to complete equipment wiring requirements.
- H. Install terminal block jumpers to complete equipment wiring requirements.
- I. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.
- J. Coolers and Freezers: Cut and seal conduit openings in freezer and cooler walls, floor, and ceilings. K. Wire connections made on motors 5 HP and greater shall use either a split bolt or screw termination. Cover with three (3) layers of tape (rubber, Cambridge, and Scotch 33).
- L. Provide appropriate fusing for motor circuits per manufacturers requirements.

SECTION 26 2726 WIRING DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wall switches
- B. Wall dimmers
- C. Receptacles
- D. Device plates and decorative box covers
- E. Floor box service fittings
- F. Access floor boxes

1.02 REFERENCES

- A. Install per NECA (National Electrical Contractors Association)
- B. Meet NEMA (National Electrical Manufacturers Association) standard requirements
- C. Install per NFPA 70 (National Electrical Code; National Fire Protection Association)

1.03 SUBMITTALS

- A. See Section 26 0500 - Basic Electrical Requirements - Submittal procedures.
- B. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations.
- C. Manufacturer's Installation Instructions.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Products: Provide products listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Cooper Wiring Devices (Arrow Hart)
- B. GE Wiring Devices
- C. Leviton Manufacturing, Inc
- D. Hubbell Inc.
- E. LeGrand (Pass & Seymour)
- F. Bryant
- G. Lutron
- H. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 WALL SWITCHES

- A. Wall Switches: Heavy Duty, AC only general-use snap switch
- Manufacturer:
 - Leviton CSB1 or approved equal.
 - Body and Handle: Ivory plastic with toggle handle.
 - Indicator Light: Lighted handle type switch; red handle.
 - Ratings:
 - Voltage: 120-277 volts, AC.
 - Current: 20 amperes.
- B. Switch Types: Single pole, double pole, 3-way,4-way and pilot.

2.03 WALL DIMMERS

- A. Wall Dimmers: Semiconductor dimmer for incandescent lamps
- Manufacturer:
 - Lutron Nova T series or approved equal.
 - Body and Handle: plastic with linear slide, standard color to be selected at shop drawing approval
 - Voltage: 120 volts.
 - Power Rating: Match load shown on drawings, 600 watts minimum.
- B. Accessory Wall Switches: Match dimmer appearance.

2.04 RECEPTACLES

- A. Receptacles: Heavy duty
- Device Body: plastic, Standard color to be selected at shop drawing approval.
 - Configuration: Refer to plans and as specified
- B. Duplex Convenience Receptacles: Type 5 – 20R.
- Manufacturer:
 - Leviton 5801 or approved equal
- C. Duplex Convenience Receptacles: Type 5 – 15R.
- Manufacturer:
 - Leviton BR15-X or approved equal
- D. Single Convenience Receptacles: Type 5-20R.
- Manufacturer:
 - Leviton 5801 or approved equal.
- E. GFCI Receptacles: Convenience receptacle with integral ground fault circuit interrupter to meet regulatory requirements. 5-20R
- Manufacturer:
 - Leviton 6898 or approved equal.
- F. Tamper Resistant Receptacles: Convenience receptacle with integral ground fault circuit interrupter

to meet regulatory requirements. 5-15R

1. Manufacturer:

- Hubbell RR15S**TR or approved equal.
- Hubbell RRD15S**TR or approved equal. – Decorator Style

G. Tamper Resistant GFCI Receptacles: Convenience receptacle with integral ground fault circuit interrupter to meet regulatory requirements. 5-20R

1. Manufacturer:

- Hubbell GFTR20 or approved equal.

H. Isolated Ground Receptacles. 5-20R

1. Manufacturer:

- Leviton S262-IG or approved equal.

I. Water Resistant Receptacles. 5-20R

1. Manufacturer:

- Leviton or approved equal

J. Duplex 20A Plug Load Half-Controlled Tamper Resistant Receptacles: 5-20R

1. Manufacturer:

- LeGrand TR5362CH or approved equal.
- Leviton TBR20 or approved equal.

K. Duplex 15A Plug Load Half-Controlled Tamper Resistant Receptacles: 5-20R

1. Manufacturer:

- LeGrand TR5262CH or approved equal.
- Leviton TBR15 or approved equal.

L. Duplex 20A Plug Load Half-Controlled Receptacles: 5-20R

1. Manufacturer:

- LeGrand 5362CH or approved equal.
- Leviton CR020-1P or approved equal.

M. Duplex 15A Plug Load Half-Controlled Receptacles: 5-20R

1. Manufacturer:

- LeGrand 5262CH or approved equal.
- Leviton CR015-1P or approved equal.

2.05 WALL PLATES

- A. Cover Plates: nylon in finished spaces. (Color to be selected at shop drawing approval).
- B. Cover Plates: Galvanized steel plates in unfinished spaces.
- C. Cover Plates: Smooth stainless steel in kitchen areas.
- D. Weatherproof Cover Plates: Gasketed cast metal with gasketed in use device cover.
- E. Roof Receptacle Cover Plates: Shall have an appropriate in-use cover installed.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that outlet boxes are installed at proper height.
- B. Verify that wall openings are neatly cut and will be completely covered by wall plates.
- C. Verify that branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.

3.02 PREPARATION

- A. Provide extension rings to bring outlet boxes flush with finished surface.
- B. Clean debris from outlet boxes.

3.03 INSTALLATION

- A. Install securely, in a neat and workmanlike manner, as specified in NECA 1.
- B. Install devices plumb and level.
- C. Install switches with OFF position down.
- D. Install wall dimmers to achieve full rating specified and indicated after derating for ganging as instructed by manufacturer.
- E. Do not share neutral conductor on load side of dimmers.
- F. Do not share neutrals on dedicated circuits.
- G. Install receptacles with grounding pole on top.
- H. Connect wiring device grounding terminal to outlet box with bonding jumper.
- I. For Isolated Ground receptacles (IG), connect wiring device grounding terminal only to branch circuit isolated equipment grounding conductor.
- J. Install decorative plates on switch, receptacle, and blank outlets in finished areas.
- K. Connect wiring devices by wrapping conductor around screw terminal.
- L. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.
- M. Install protective rings on active flush cover service fittings.
- N. Where more than one wall switch is installed in same location, set under one cover plate.
- O. Make any necessary adjustments to the system at no charge to the Owner during warranty period.

3.04 INTERFACE WITH OTHER PRODUCTS

- A. Coordinate locations of outlet boxes provided under Section 16138 (26 0537) to obtain mounting heights specified.
- B. Install wall switch 48 inches above finished floor.
- C. Install convenience receptacle 18 inches above finished floor.
- D. Install convenience receptacle 6 inches to center above backsplash of counter when noted on plan as "AC". Verify exact location with Architectural drawings.
- E. Install dimmer 48 inches above finished floor.
- F. Coordinate the installation of wiring devices with underfloor duct service fittings provided under Section 16133 (26 0540).
- G. Coordinate the installation of wiring devices with floor box service fitting provided under Section16128 (26 0537).

3.05 FIELD QUALITY CONTROL

- A. Perform Manufacturer's standard field inspection, testing, and adjusting
- B. Inspect each wiring device for defects.
- C. Operate each wall switch with circuit energized and verify proper operation.
- D. Verify that each receptacle device is energized.
- E. Test each receptacle device for proper polarity.
- F. Test each GFCI receptacle device for proper operation.

3.06 ADJUSTING

- A. Adjust devices and wall plates to be flush and level.

3.07 CLEANING

- A. Clean exposed surfaces to remove splatters and restore finish.

SECTION 26 2818 ENCLOSED SWITCHES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fusible switches.
- B. Nonfusible switches.

1.02 REFERENCES

- A. Meet NEMA (National Electrical Manufacturers Association) standard requirements
- B. Install per NFPA 70 (National Electrical Code; National Fire Protection Association)

1.03 SUBMITTALS

- A. See Section 26 0500 - Basic Electrical Requirements - Submittal procedures.
- B. Product Data: Provide switch ratings and enclosure dimensions.
- C. Project Record Documents: Record actual locations of enclosed switches.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.
- C. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Cutler-Hammer/Eaton Corporation
- B. GE Company
- C. Square D Company
- D. Siemens ITE
- E. Substitutions: See Section 26 0500 – Basic Electrical Requirements: Product Substitutions.

2.02 COMPONENTS

- A. Fusible Switch Assemblies: NEMA KS 1, Type HD enclosed load interrupter knife switch.
- Externally operable handle interlocked to prevent opening front cover with switch in ON position.
 - Handle lockable in OFF position.
 - Fuse clips: Designed to accommodate NEMA FU1, Class R fuses.
- B. Nonfusible Switch Assemblies: NEMA KS 1, Type HD enclosed load interrupter knife switch.