

MATERIAL LIST & TECHNICAL SPECIFICATIONS

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| <p>1) Circuit Breaker – Compact Switch Disconnecter – 400A</p> <p>Type : Molded Case</p> <p>Category : 3P – Magnetic Adj. - (Thermal Protection is not required)</p> <p>Rated Current : 400 A</p> <p>Rated Voltage : 690 V AC</p> <p>Interrupt Rating : 12kA@600VAC</p> <p>Uimp Rated Impulse : 8-12 kV IEC 60947-2 and 3</p> <p>Insulation : Category A - IEC 60947-2</p> <p>Terminal Connection : Line/Load Lug</p> <p>Padlock : Contact Pos. Indicator and padlock for both position</p> <p>Mounting Type : DIN Rail – Clip-on / Screws on plate</p> <p>Durability : 10000 cycles according to IEC 947-1</p> <p>Ambient Temp : -10..... 70°C</p> <p>IP Class : IP40 accor. IEC 60529</p> <p>Standards : CE quality label and EN/IEC 60947</p> <p>Supplier : ABB, Legrand, Schneider, Siemens etc.</p> <p>Purpose : Fire Pump Feed Line</p> | <p>2 Ea.</p> |
| <p>2) Circuit Breaker – Compact Switch Disconnecter – 250A</p> <p>Type : Molded Case</p> <p>Category : 3P – Magnetic Adj. - (Thermal Protection is not required)</p> <p>Rated Current : 250 A</p> <p>Rated Voltage : 690 V (AC)</p> <p>Interrupt Rating : 12kA@600VAC</p> <p>Uimp Rated Impulse : 6-10 kV IEC 60947-2 and 3</p> <p>Insulation : Category A - IEC 60947-2</p> <p>Terminal Connection : Line/Load Lug</p> <p>Padlock : Contact Pos. Indicator and padlock for both position</p> <p>Mounting Type : DIN Rail – Clip-on / Screws on plate</p> <p>Durability : 10000 cycles according to IEC 947-1</p> <p>Ambient Temp : -10..... 70°C</p> <p>IP Class : IP40 accor. IEC 60529</p> <p>Standards : CE quality label and EN/IEC 60947</p> <p>Supplier : ABB, Legrand, Schneider, Siemens etc.</p> <p>Purpose : Staircase Pressurization Fans Feed Line</p> | <p>2 Ea.</p> |
| <p>3) Circuit Breaker – Compact Switch Disconnecter – 80A</p> <p>Type : Molded Case</p> <p>Category : 3P – Magnetic Adj. - (Thermal Protection is not required)</p> <p>Rated Current : 80 A</p> <p>Rated Voltage : 690 V (AC)</p> <p>Interrupt Rating : 12kA@600VAC</p> <p>Uimp Rated Impulse : 6-8 kV IEC 60947-2 and 3</p> <p>Insulation : Category A - IEC 60947-2</p> <p>Terminal Connection : Line/Load Lug</p> <p>Padlock : Contact Pos. Indicator and padlock for both position</p> <p>Mounting Type : DIN Rail – Clip-on / Screws on plate</p> <p>Durability : 10000 cycles according to IEC 947-1</p> <p>Ambient Temp : -10..... 70°C</p> <p>IP Class : IP40 accor. IEC 60529</p> <p>Standards : CE quality label and EN/IEC 60947</p> <p>Supplier : ABB, Legrand, Schneider, Siemens etc.</p> <p>Purpose : Staircase Pressurization Fan Feed</p> | <p>4 Ea.</p> |
| <p>4) Cable N2XH-O – FE 180 3x95+50 mm²</p> <p>Category : Copper Conductor</p> <p>Type : Low Voltage Power Cable</p> <p>Op. Current Capacity : 300 A</p> <p>Rated Voltage : 0,6/1kV</p> <p>Rated Cross Section : 95mm² x 3 Cores + 50mm² Core</p> <p>Number of Cores : 4 (3+1)</p> <p>Insulation : Special Synthetic Insulation and Filler</p> | <p>200 m.</p> |

Fire Rating	: FE180 or FE120
Production Standard	: HD 604 S1 5G and TS HD 627
Halogen Gas	: Halogen Free -IEC 60754-1/2
Resistance @ 20°C	: ~ 0.2 Ohm/km
Standards	: EN 50399 (CPR)
Supplier	: HES, Nexans, Pyrsimian, Vatan etc.
Purpose	: Emergency Fire Protection System Power Cable

5) Cable N2XH-O – FE 180 4x70 mm ²	250 m.
Category	: Copper Conductor
Type	: Low Voltage Power Cable
Op. Current Capacity	: 250 A
Rated Voltage	: 0,6/1kV
Rated Cross Section	: 70mm ² x 4 Cores
Number of Cores	: 4
Insulation	: Special Synthetic Insulation and Filler
Fire Rating	: FE180 or FE120
Production Standard	: HD 604 S1 5G and TS HD 627
Halogen Gas	: Halogen Free -IEC 60754-1/2
Resistance @ 20°C	: ~ 0.3 Ohm/km
Standards	: EN 50399 (CPR)
Supplier	: HES, Nexans, Pyrsimian, Vatan etc.
Purpose	: Emergency Fire Protection System Power Cable

6) Cable N2XH-O – FE 180 4x16 mm ²	250 m.
Category	: Copper Conductor
Type	: Low Voltage Power Cable
Op. Current Capacity	: 90 A
Rated Voltage	: 0,6/1kV
Rated Cross Section	: 16mm ² x 4 Cores
Number of Cores	: 4
Insulation	: Special Synthetic Insulation and Filler
Fire Rating	: FE180 or FE120
Production Standard	: HD 604 S1 5G and TS HD 627
Halogen Gas	: Halogen Free -IEC 60754-1/2
Resistance @ 20°C	: ~ 1.15 Ohm/km
Standards	: EN 50399 (CPR)
Supplier	: HES, Nexans, Pyrsimian, Vatan etc..
Purpose	: Emergency Fire Protection System Power Cable

7) Automatic Transfer Switch Panel – Fire Pumps	2 Ea.
Type	: 2 Input – 1 Output / Protection for all phases of Normal and Emergency sources
Rated Power	: 70kW – 100HP
Voltage	: 200-480V – 150A – 50Hz
Ambient Temp	: +10-50°C
IP Class	: IP52 – NEMA 3R or 4
EMI Value	: Class A
Time Delay	: Field Adjustable
Control	: -Test Switch -Emergency Stop -Silence / re-ring /normal switch -By-pass Transfer Switch
Indicator	: -Normal Source Voltage -Emergency Source Voltage -Transfer to Emergency Timing
Standards	: NFPA 20
Approval	: UL Listed, CE
Supplier	: Eaton, Firetrol, Hubbell, Master etc..
Location	: In the Fire Pump Room
Purpose	: Emergency Power Transfer for the Fire Pumps



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**SUNSTONE HOSPITAL
EMERGENCY POWER SUPPLY SYSTEM FOR
FIRE PROTECTION SYSTEMS
MATERIAL LIST AND TECHNICAL
SPECIFICATIONS
EVEX-SUNSTONE-KAR-MTL-003**



KARINA
KARINA Design,
Consultancy and Training
Services Ltd.Co.

8) Automatic Transfer Switch Panel – Stair Pressurization Fans	1 Ea.
Type	: 2 Input – 1 Output / Protection for all phases of Normal and Emergency sources
Rated Power	: 120kW – 200 A
Voltage	: 200-480V – 200A – 50Hz
Ambient Temp	: +10-50°C
IP Class	: IP40 – NEMA 2
Time Delay	: Field Adjustable
Control	: -Test Switch -Silence / re-ring /normal switch -By-pass Transfer Switch
Indicator	: -Normal Source Voltage -Emergency Source Voltage -Transfer to Emergency Timing
Standards	: IEC 60947-6,
Location	: Level 8, Elec.Room.
Purpose	: Emergency Power Transfer for Pressurization Fans

General Notes:

- All the materials shall conform to related IEC and Safety standards.
- All the materials shall be delivered complete with all necessary mounting and functional accessories.
- See drawings for the system details.
- Labour cost and engineering cost are included as described in tender documentation.

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