

| ELEVATOR TYPICAL CONDITIONS | | | |
|-----------------------------|--------------------------------|-----------|--------------|
| | TRAVEL HEIGHT MAX | MAX STOPS | SPEED FT/MIN |
| HOLESSE HYDRAULIC | 20" | 3 | 100,125 |
| TELESKOPIK HOLESSE HYDROLIC | 44'-1" | 5 | 100,125 |
| ROPED HOLESSE HYDROLIC | 60" | 7 | 100,125,150 |
| HOLED HYDROLIC | 60" | 7 | 100,125,150 |
| MACHINE ROLESSE | 196'@200'/MIN 300'@350'/MIN | 30 | 200,350,400 |

OTIS ELEVATOR
HYDRAULIC HORSEPOWERS CAN RANGE FROM 15 TO 160

| | |
|--------------------|--------------------|
| 2500lb 17hp - 60hp | 4000lb 28hp - 60hp |
| 3000lb 21hp - 60hp | 4500lb 31hp - 60hp |
| 3500lb 24hp - 60hp | 5000lb 35hp - 60hp |

EMERGENCY POWER IF AVAILABLE AND SHUNT TRIP.

| 75-80KVA GENERATOR | | | |
|---|-----------|-----------|----------|
| FUEL CONSUMPTION Cfh (Cubic feet hour) - LP (NATURAL) | | | |
| 100% LOAD | 75% LOAD | 50% LOAD | 25% LOAD |
| 325 (826) | 244 (622) | 166 (424) | ?? (??) |

DIMENSIONS OF A 400KW GENSET: 226" x 87"

| 230-250KVA GENERATOR | | | |
|------------------------|----------|----------|-----------|
| FUEL CONSUMPTION (GPH) | | | |
| 100% LOAD | 75% LOAD | 50% LOAD | 25% LOAD |
| 16 - 19 | 12 - 14 | 8 - 9 | 4.5 - 5.2 |

WITH A 400 GALLON TANK, MINIMUM RUNNING TIME WILL BE 21 HOURS. MAX = 88 HOURS. AT 100% LOAD DIESEL FUEL WOULD COST \$67(HR) BASED ON \$3.50 A GALLON. \$1400 FILLUP.

| SAFETY SWITCH SCHEDULE | | |
|------------------------|------|-------|
| SYMBOL | AMPS | POLES |
| S1 | 30 | 2 |
| S2 | 30 | 3 |
| S3 | 30 | 4WSN |
| S4 | 60 | 2 |
| S5 | 60 | 3 |
| S6 | 60 | 4WSN |
| S7 | 100 | 2 |
| S8 | 100 | 3 |
| S9 | 100 | 4WSN |
| S10 | 200 | 2 |
| S11 | 200 | 3 |
| S12 | 200 | 4WSN |
| S13 | 400 | 2 |
| S14 | 400 | 3 |
| S15 | 400 | 4WSN |
| S16 | 600 | 2 |
| S17 | 600 | 3 |
| S18 | 600 | 4WSN |
| S19 | 800 | 2 |
| S20 | 800 | 3 |
| S21 | 800 | 4WSN |
| S22 | 1200 | 2 |
| S23 | 1200 | 3 |
| S24 | 1200 | 4WSN |

ALL SWITCHES FUSIBLE UNLESS NOTED ON DRAWINGS.

| STANDARD KAIC PANELBOARD RATINGS | |
|----------------------------------|------|
| 480V | 208V |
| 14K | 10K |
| 18K | 12K |
| 25K | 18K |
| 30K | 25K |
| 35K | 65K |
| 50K | - |
| 65K | - |
| 100K | - |
| 200K | - |

| AVERAGE PANELBOARD SIZE (<60AIC) | | | |
|----------------------------------|------|-------|-----|
| AMPS | SIZE | | |
| | W | D | H |
| 225A | 20" | 5.75" | 60" |
| 400A | 24" | 6.5" | 60" |
| 600A | 30" | 6.5" | 74" |
| 800A | 32" | 8.25" | 80" |
| 1200A | 42" | 10" | 90" |
| 1600A | 46" | 13" | 90" |

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332 Mineral-Insulated, Metal-Sheathed Cable:
334 Nonmetallic-Sheathed Cable: Types NM, NMC, NMS
338 Power and Control Tray Cable: Type TC
338 Service-Entrance Cable: Types SE and
340 Underground Feeder and Branch-Circuit
342 Intermediate Metal Conduit: Type IMC
344 Rigid Metal Conduit: Type RMC
348 Flexible Metal Conduit: Type FMC
350 Liquidtight Flexible Metal Conduit: Type LFMC
352 Rigid Polyvinyl Chloride Conduit: Type PVC
353 High Density Polyethylene Conduit: Type HDPE Conduit
354 Nonmetallic Underground Conduit with Conductors: Type NUCC
355 Reinforced Thermosetting Resin Conduit: Type RTRC
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TABLES
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"Intumescent" means that the material expands when exposed to fire or heat to fill a void in the penetration caused by the deformation or combustion of the penetration item. An "endothermic" product blocks heat by chemical absorption and moisture release. "Elastomeric" products are flexible and prevent passage of heat and gases while permitting movement of the assembly.
Firestopping systems are typically categorized by through-penetration of:
F-rating, Flame Ratings (flames)
opening shall also withstand a hose stream test.
T-rating, Thermal Ratings (temperature)
L-rating, Smoke Ratings (smoke)
L-rating is tested under a differential pressure of 0.30 inches water column (75 Pa) at 75°F and at 400°F.

UL NUMBERING SYSTEM
The first alpha component is an F, W or C.
F signifies a floor is being penetrated
W signifies a wall is being penetrated
C signifies either a floor or a wall is being penetrated.
The second alpha component may be any letter. The significance of the letter used is:
Letter Description
A Concrete floors with a minimum thickness less than or equal to 5 in.
B Concrete floors with a minimum thickness greater than 5 in.
C Framed floors
D Steel decks in marine vessels
E Floor-ceiling assemblies consisting of concrete with membrane protection
F - I Not used at present time
J Concrete or masonry walls with a minimum thickness less than or equal to 8 in.
K Concrete or masonry walls with a minimum thickness greater than 8 in.
L Framed walls
M Bulkheads in marine vessels
N Composite panel walls
O - Z Not used at present time
The numeric component uses sequential numbers to identify the penetrating item. The significance of the number used is:
No. Range Description
0000-0999 No penetrating items
1000-1999 Metallic pipe, conduit or tubing
2000-2999 Nonmetallic pipe, conduit or tubing
3000-3999 Electrical cable
4000-4999 Cable trays with electrical cable
5000-5999 Insulated pipe
6000-6999 Miscellaneous electrical penetrants, such as busducts
7000-7999 Miscellaneous mechanical penetrants, such as air ducts
8000-8999 Groupings of penetrations, including any combination of items listed above
9000-9999 Not used at present time

| ELECTRICAL FORMULAE | | | |
|----------------------|---|--|--|
| ALTERNATING CURRENT | | | |
| TO OBTAIN | SINGLE PHASE | THREE PHASE | |
| KILOWATTS | $\frac{V \times I \times P.F.}{1000}$ | $\frac{1.732 \times V \times I \times P.F.}{1000}$ | |
| KVA | $\frac{V \times I}{1000}$ | $\frac{1.732 \times V \times I}{1000}$ | |
| AMPERES | $\frac{HP \times 746}{V \times P.F. \times EFF.}$ | $\frac{HP \times 746}{1.732 \times V \times P.F. \times EFF.}$ | |
| AMPERES | $\frac{KW \times 1000}{V \times P.F.}$ | $\frac{KW \times 1000}{1.732 \times V \times P.F.}$ | |
| AMPERES | $\frac{KVA \times 1000}{V}$ | $\frac{KVA \times 1000}{1.732 \times V}$ | |
| P.F. | $\frac{INPUT \text{ WATTS}}{V \times I}$ | $\frac{INPUT \text{ WATTS}}{1.732 \times V \times I}$ | |
| KVA = KW × 1000 / PF | | KW = KVA × PF | |

| POWER FACTOR $\cos \phi = .95$ | | | | | |
|--------------------------------|-----------------|---------|---------|---------|---------|
| NOMINAL (KW) | DEMAND LOAD (A) | | | | |
| | 120V/1Ø | 208V/1Ø | 277V/1Ø | 208V/3Ø | 480V/3Ø |
| 0.1 | 0.88 | 0.51 | 0.38 | 0.10 | 0.13 |
| 0.2 | 1.76 | 1.01 | 0.76 | 0.58 | 0.25 |
| 0.5 | 4.39 | 2.53 | 1.90 | 1.46 | 0.63 |
| 1.0 | 8.77 | 5.06 | 3.80 | 2.90 | 1.25 |
| 1.5 | 13.16 | 7.60 | 5.70 | 4.38 | 1.90 |
| 2.0 | 17.54 | 10.12 | 7.60 | 4.67 | 2.51 |
| 2.5 | 21.93 | 12.65 | 9.50 | 7.30 | 3.16 |
| 3.0 | 26.32 | 15.18 | 11.40 | 8.77 | 3.80 |
| 3.5 | 30.70 | 17.71 | 13.30 | 10.22 | 4.43 |
| 4.0 | 35.09 | 20.24 | 15.20 | 11.69 | 5.05 |
| 4.5 | 39.48 | 22.78 | 17.10 | 13.15 | 5.70 |
| 5.0 | 43.86 | 25.30 | 19.00 | 14.55 | 6.31 |
| 6.0 | 52.63 | 30.36 | 22.80 | 17.53 | 7.60 |
| 7.0 | 61.40 | 35.43 | 26.60 | 20.42 | 8.85 |
| 8.0 | 70.18 | 40.49 | 30.40 | 23.32 | 10.10 |
| 9.0 | 78.95 | 45.55 | 34.20 | 26.30 | 11.40 |
| 10.0 | 87.72 | 50.61 | 38.00 | 29.19 | 12.65 |

| CONDUIT TABLE | | | | | |
|---------------|------------------|--------------------------------------|----------|----------|---------|
| CONDUIT SIZE | MIN BEND RADIUS* | OUTSIDE DIAMETER TYPE/SUPPORT MAX*** | | | |
| | | EMT/3** | IMC/3** | RMC/3** | PVC/3** |
| 1/2" | 4" | 0.71/10' | 0.82/10' | 0.84/10' | 0.84/3' |
| 3/4" | 4-1/2" | 0.92/10' | 1.03/10' | 1.05/10' | 1.05/3' |
| 1" | 5-3/4" | 1.16/10' | 1.29/10' | 1.32/12' | 1.32/3' |
| 1-1/4" | 7-1/4" | 1.51/10' | 1.64/10' | 1.66/14' | 1.66/3' |
| 1-1/2" | 8-1/4" | 1.74/10' | 1.88/10' | 1.90/14' | 1.90/5' |
| 2" | 9-1/2" | 2.20/10' | 2.36/10' | 2.38/16' | 2.38/5' |
| 2-1/2" | 10-1/2" | 2.88/10' | 2.86/10' | 2.88/20' | 2.88/6' |
| 3" | 11-1/2" | 3.50/10' | 3.48/10' | 3.50/20' | 3.50/6' |
| 3-1/2" | 15" | 4.00/10' | 3.97/10' | 4.00/20' | 4.00/7' |
| 4" | 16" | 4.50/10' | 4.47/10' | 4.50/20' | 4.50/7' |
| 5" | 24" | - | - | 5.56/20' | 5.56/7' |
| 6" | 30" | - | - | - | 6.63/8' |

* - TABLE 2, CHAPTER 9, ** - MAX SUPPORT DISTANCE FROM BOX, *** - BASED ON NEC (EMT) 358, (IMC) 342, (RIGID) 344, (PVC) 352 SCHEDULE 40 AND 80 PVC HAVE SAME O.D. SO CONNECTORS FIT EACH.

| AVERAGE POWER FACTOR VALUES | |
|-----------------------------|--------|
| LOAD | P.F.% |
| RECEPTACLES | 80-95 |
| INDUCTION MOTOR | 70-90 |
| SPEED DRIVE | 90-98 |
| MAGNETIC BALLAST | 70-80 |
| ELECTRONIC BALLAST | 90-95 |
| ARC WELDERS | 35-80 |
| RESISTANCE HEATING | 100 |
| INDUCTION MOTORS | |
| LOAD 25% | 55 |
| LOAD 50% | 73 |
| LOAD 75% | 80 |
| LOAD 100% | 85 |
| FACTIONAL HP | 55-75 |
| 1-10 | 75-85 |
| SQUIRREL CAGE MOTOR | |
| HIGH SPEED | 75-90 |
| LOW SPEED | 85-92 |
| WOUND ROTOR | 80-90 |
| SYNCHRONOUS MOTOR | 80-100 |
| POWER CONVERTER | 50-90 |

based on 2014 NEC edited: APR 2016
MATH/EQUIPMENT/NEC
DESIGNERS GUIDE

11. 600 Volts, Nominal, or Less
110.26 Spaces About Electrical Equipment.
(1) Depth of Working Space. The depth of the working space in the direction of live parts shall not be less than that specified in Table 110.26(A)(1) unless the minimum requirements of 110.26(A)(1)(a), (A)(1)(b), or (A)(1)(c) are met. Distances shall be measured from the exposed live parts or from the enclosure or opening if the live parts are enclosed.
Note: Where the conditions are as follows:
Condition 1 - Exposed live parts on one side of the working space and no live or grounded parts on the other side of the working space.
Condition 2 - Exposed live parts on one side of the working space and grounded parts on the other side of the working space. Concrete, brick, or the walls shall be considered as grounded.
Condition 3 - Exposed live parts on both sides of the working space.
--- 110.26(C)(2) LARGE EQUIPMENT 1200 AMPS AND ABOVE
(2) Large Equipment. For equipment rated 1200 amperes or more and over 1.8 m (6 ft) wide that contains overcurrent devices, switching devices, or control devices, there shall be one entrance to and egress from the required working space not less than 810 mm (24 in.) wide and 2.0 m (6 1/2 ft) high at each end of the working space. A single entrance to and egress from the required working space shall be permitted where either of the conditions in 110.26(C)(2)(a) or (C)(2)(b) is met.
Unobstructed Egress. Where the location permits a continuous and unobstructed way of egress travel, a single entrance to the working space shall be permitted. Extra Working Space. Where the depth of the working space is twice that required by 110.26(A)(1), a single entrance shall be permitted. It shall be located such that the distance from the equipment to the nearest edge of the entrance is not less than the minimum clear distance specified in Table 110.26(A)(1) for equipment operating at that voltage and in that condition.
(1) Personnel Doors. Where equipment rated 800 A or more that contains overcurrent devices, switching devices, or control devices is installed and there is a personnel door(s) intended for entrance to and egress from the working space less than 7.6 m (25 ft) from the nearest edge of the working space, the door(s) shall open in the direction of egress and be equipped with latched panic hardware.
(A) Illumination. Illumination shall be provided for all working spaces about service equipment, switchboards, switchgear, panelboards, or motor control centers installed indoors and shall not be controlled by automatic means only. Additional lighting outlets shall not be required where the work space is illuminated by an adjacent light source or as permitted by 10.70(A)(1). Exception No. 1, for switched receptacles.

| 2014 NEC - Table 310.15(B)(2)(b) Ambient Temperature Correction Factors Based on 40°C (104°F) | | | | | | | | | |
|---|---------------------|------|------|------|------|-------------|------------|--|--|
| TEMPERATURE | RATING OF CONDUCTOR | | | | | TEMPERATURE | | | |
| | 60° | 75° | 90° | 150° | 250° | | FAHRENHEIT | | |
| 10 or less | 1.58 | 1.36 | 1.26 | 1.13 | 1.09 | 1.07 | 50 or less | | |
| 11-15 | 1.5 | 1.31 | 1.22 | 1.11 | 1.08 | 1.06 | 51-59 | | |
| 16-20 | 1.41 | 1.25 | 1.18 | 1.09 | 1.06 | 1.05 | 60-68 | | |
| 21-25 | 1.32 | 1.2 | 1.14 | 1.07 | 1.05 | 1.04 | 69-77 | | |
| 26-30 | 1.22 | 1.13 | 1.1 | 1.04 | 1.03 | 1.02 | 78-86 | | |
| 31-35 | 1.12 | 1.07 | 1.05 | 1.02 | 1.02 | 1.01 | 87-95 | | |
| 36-40 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 96-104 | | |
| 41-45 | 0.87 | 0.93 | 0.95 | 0.98 | 0.98 | 0.99 | 105-113 | | |
| 46-50 | 0.71 | 0.85 | 0.89 | 0.95 | 0.97 | 0.98 | 114-122 | | |
| 51-55 | 0.5 | 0.76 | 0.84 | 0.93 | 0.95 | 0.96 | 123-131 | | |
| 56-60 | - | 0.65 | 0.77 | 0.9 | 0.94 | 0.95 | 132-140 | | |
| 61-65 | - | 0.53 | 0.71 | 0.88 | 0.92 | 0.94 | 141-149 | | |
| 66-70 | - | 0.38 | 0.63 | 0.85 | 0.9 | 0.93 | 150-158 | | |
| 71-75 | - | 0.55 | 0.83 | 0.88 | 0.91 | 0.95 | 159-167 | | |
| 76-80 | - | 0.45 | 0.8 | 0.87 | 0.9 | 0.96 | 168-176 | | |
| 81-90 | - | - | 0.74 | 0.83 | 0.87 | 0.91 | 177-194 | | |
| 91-100 | - | - | 0.67 | 0.79 | 0.85 | 0.89 | 195-212 | | |
| 101-110 | - | - | 0.6 | 0.75 | 0.82 | 0.87 | 213-230 | | |
| 111-120 | - | - | 0.52 | 0.71 | 0.79 | 0.83 | 231-248 | | |
| 121-130 | - | - | 0.43 | 0.66 | 0.76 | 0.81 | 249-266 | | |
| 131-140 | - | - | 0.3 | 0.61 | 0.72 | 0.77 | 267-284 | | |
| 141-160 | - | - | - | 0.5 | 0.65 | 0.75 | 285-320 | | |
| 161-180 | - | - | - | 0.35 | 0.58 | 0.67 | 321-356 | | |
| 181-200 | - | - | - | - | 0.49 | 0.57 | 357-392 | | |
| 201-225 | - | - | - | - | 0.35 | 0.43 | 393-437 | | |

| NEC 110.26(A)(1) WORKING SPACES | | | | |
|---------------------------------|------------------------|----------------------|----------------|---------------|
| Nominal Voltage to Ground | Minimum Clear Distance | | | |
| | Condition 1 | Condition 2 | Condition 3 | |
| 0-150 | 914 mm (3 ft) | 914 mm (3 ft) | 914 mm (3 ft) | 914 mm (3 ft) |
| 151-600 | 914 mm (3 ft) | 1,07 mm (3 ft 6 in.) | 1,22 mm (4 ft) | |

| TABLE 430-150 FULL-LOAD CURRENT THREE PHASE ALTERNATING CURRENT MOTORS. | | | | | |
|---|--|------|------|------|--|
| HP | INDUCTION TYPE SQUIRREL-CAGE AND WOUND-ROTOR AMPERES | | | | |
| | 208V | 230V | 460V | 575V | |
| 1/2 | 2.4 | 2.2 | 1.1 | 0.9 | |
| 3/4 | | | | | |