

COLLETON COUNTY SOUTH CAROLINA Purchasing Department 113 Mable T. Willis Blvd. Walterboro, SC 29488 843.782.0504

### BID: CPST-13 Tax Payer Service Center

Due: Thursday, March 18, 2021 at 11:00am

### ADDENDUM 4 Dated: March 4, 2021

- Spec section 28-31-11, page 2, and paragraph 2.1 A, notes that the new fire alarm must be compatible with the existing system. What is the manufacture/model of the existing system? Answer: This note in this specification is intended for renovation projects. It is not applicable in this instance. There is no compatibility requirements for the new fire alarm system.
- 2. There is a lightning plan that looks like it is a generic plan in the electrical section but that he cannot find an architectural plan or other notes as to where any lighting rods are to be placed on the building? Answer: Lightning protection is a deferred design similar to fire suppression or fire alarm. The electrician or GC would need to engage a certified lighting protection vendor and get a turnkey price for a deferred design and installation. Once selected, based on our specification and details, the lightning protection vendor will provide a final design plan for review and approval by the owner and A/E team.
- 3. There is a conflict between the plans and specs on the ceiling tile. The material legend on A140 calls out USG 4801 which is a pebbled-texture 2x2 square-edge tile; the specs call out USG 87200 which is their Mars fine-texture 2x2 with SLT reveal-edge? Answer: The specification is to be followed instead of the material legend.
- 4. Plans call for a 25' slide gate for equipment access. The fence layout will not allow of a slide gate unless it's mounted to the outside of the fence which wouldn't look the best. Would a 25' Double swing gate be acceptable here? Answer: Yes, a 25' double swing gate would be acceptable here in lieu of a 25' sliding cantilevered gate.
- 5. The number assigned to two of the doors changed. In the plans you sent me, and thus what my quote & specs referenced, 105b was the public side of the conference room. In the final drawings released in the bid, 105a was the public side of the conference room. That wouldn't

be a crazy big deal if the employee hallway side, which WAS listed as 105a and is now 105b, was also changed to a set of double doors. That has thrown off the hardware spec as well, because the architects put some access control hardware specs for a set of double doors but nothing for the single public door. **Answer:** There is to be access control at Door #105a and no access control at Door #105b per the E401 drawing. Door hardware set for Door #105a should be HW-07.

- 6. Is there a preference for the Ceramic Tile to have Ceramic Tile Trims or to be "Non-Ceramic" Schluter Trims? It appears the specs call for either/or. **Answer:** We prefer the non-ceramic Schulter trim option. We would direct to delete spec section 1.01/C as well as 2.02/A.
- 7. After reviewing the areas where steel border is to be installed, the total area for the lawn and mechanical area is 550 lf. There is an additional area at the back of the property between the lawn and the mulch disturbed area which would be an additional 240 lf of steel border, please verify that this area should be included and the steel border to be used is 1/8" rather than the 3/16"x 4". Answer: This area should be included and the steel border to be used is the 3/16"x 4".
- The hardware schedule is missing door #124. Also, there are two doors listed on the hardware schedule (102 & 131) that are not on the door schedule or the floor plan. Please clarify.
   Answer: Door #124 should have hardware set HW-04 as noted on the Door Schedule. Doors listed in the hardware schedule that are not on the door schedule should be ignored.
- 9. Who is to provide the Generator and the Automatic Transfer Switch? What are the specifications for each? **Answer:** Generator and Transfer Switch are to be Contractor furnished and Contractor installed and must be a Generac System. No substitutions are allowed. Refer to attached cut-sheets.
- 10. The plan called for parallel lines from the existing 6" water line to the newly installed meters. Please make sure that there is only a single line installed in the ROW that will accommodate the flow for both the irrigation and domestic meters. Answer: The utility plan has been updated to have 1 2" tap into the 6" main and a 2" line will run up to the site. We have a 2" domestic meter at the property line. Before the meter is to tap with  $\frac{3}{4}$ " line to provide irrigation meter to the site as well. Refer to the attached drawing.







Generators

# GENERAC

### Standby Generators Liquid-Cooled Gaseous Engine

### INCLUDES:

- Two Line LCD Tri-Lingual Digital Nexus<sup>™</sup> Controller
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed

### Standby Power Rating

Model QT070 (Aluminum - Bisque) -	- 70	kW	60	Hz
Model QT080 (Aluminum - Bisque) -	80	kW	60	Hz
Model QT100 (Aluminum - Bisque) -	100	kW	60	Ηz
Model QT130 (Aluminum - Bisque) -	130	kW	60	Ηz
Model QT150 (Aluminum - Bisque) -	150	kW	60	Hz



Meets EPA Emission Regulations 70, 100, 130 & 150 kW meet CA/MA emissions requirement with optional catalyst 80 kW not for sale in CA/MA

## **FEATURES**

INNOVATIVE DESIGN & PROTOTYPE TESTING are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.

### O TEST CRITERIA:

✓ PROTOTYPE TESTED
✓ SYSTEM TORSIONAL TESTED

✓ NEMA MG1-22 EVALUATION
 ✓ MOTOR STARTING ABILITY

- SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION. This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.
- SINGLE SOURCE SERVICE RESPONSE from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- GENERAC TRANSFER SWITCHES. Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.



## 70 • 80 • 100 • 130 • 150 kW

### **GENERATOR SPECIFICATIONS**

Туре	Synchronous
Rotor Insulation Class	н
Stator Insulation Class	н
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire (70, 80 & 150 kW) or 12 wire (100 & 130 kW)
Bearings	Sealed Ball
Coupling	Flexible Disc (70, 80 & 150 kW) or Gear Drive (100 & 130 kW)
Excitation System	Brushless

### **VOLTAGE REGULATION**

Туре	Electronic
Sensing	Single Phase
Regulation	± 1%

### **GOVERNOR SPECIFICATIONS**

Туре	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

### **ELECTRICAL SYSTEM**

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2 Amp
1 1	Group 24F, 525 CCA
Personmended Patters (betters not included)	(70, 80 & 150 kW)
neconimended battery (battery not included)	or Group 27F, 700 CCA
	(100 & 130 kW)
System Voltage	12 Volts

### **GENERATOR FEATURES**

Revolving field heavy duty generator	
Directly connected to the engine	
Operating temperature rise 120 °C above a 40 °C ambient	
Class H insulation is NEMA rated	
All models fully prototyped tested	

### **ENCLOSURE FEATURES**

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.	
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.	
Small, compact, attractive	Makes for an easy, eye appealing installation.	
SAE	Sound attenuated enclosure ensures quiet operation.	

## application & engineering data

### **ENGINE SPECIFICATIONS: 80 kW**

Make	Generac
Model	V-Type
Cylinders	8
Displacement (Liters)	5.4
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

### ENGINE SPECIFICATIONS: 70, 100, 130 & 150 kW

Make	Generac
Model	V-Туре
Cylinders	· 10
Displacement (Liters)	6.8
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

### **ENGINE LUBRICATION SYSTEM**

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankense Canacity (at/l)	5/4.7 (70, 100, 130 & 150 kW)
Claincase Capacity ((())	or 6/5.7 (80 kW)

### **ENGINE COOLING SYSTEM**

Туре	Closed
Water Pump	Belt driven
	2300 - 70 kW
	2174 - 80 kW
Fan Speed (rpm)	1670 - 100 kW
	1950 - 130 kW
	2200 - 150 kW
For Diameter (in (mm)	22/558.8 (70 kW) or
	26/660.4 (80, 100, 130 & 150 kW)
Fac Made	Pusher (70 kW) or
	Puller (80, 100, 130 & 150 kW)

### FUEL SYSTEM

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	11-14" water column/21-26 mm HG

# GENERAC

operating data

## 70 • 80 • 100 • 130 • 150 kW

### **GENERATOR OUTPUT VOLTAGE/kW - 60 Hz**

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
÷.	120/240 V, 1Ø, 1.0 pf	67	292	64	267	300
01070	120/208 V, 3Ø, 0.8 pf	70	243	67	232	300
01070	120/240 V, 3Ø, 0.8 pf	70	211	67	201	250
	277/480 V, 3Ø, 0.8 pf	70	105	67	101	125
	120/240 V, 1Ø, 1.0 pf	77	333	77	333	400
ÓTORO	120/208 V, 3Ø, 0.8 pf	80	278	80	278	300
01000	120/240 V, 3Ø, 0.8 pf	80	241	80	240	300
	277/480 V, 3Ø, 0.8 pf	80	120	80	120	150
	120/240 V, 1Ø, 1.0 pf	100	417	89	371	450
0T100	120/208 V, 3Ø, 0.8 pf	100	347	94	326	400
QIIOU	120/240 V, 3Ø, 0.8 pf	100	301	94	283	350
	277/480 V, 3Ø, 0.8 pf	100	150	94	141	° 175
	120/240 V, 1Ø, 1.0 pf	130	542	117	488	600
07120	120/208 V, 3Ø, 0.8 pf	130	451	122	423	500
u1150	120/240 V, 3Ø, 0.8 pf	130	391	122	367	450
	277/480 V, 3Ø, 0.8 pf	130	195	122	183	225
	120/240 V, 1Ø, 1.0 pf	144	625	136	567	700
07150	120/208 V, 3Ø, 0.8 pf	150	520	142	493	600
Q1130	120/240 V, 3Ø, 0.8 pf	150	451	142	427	500
	277/480 V, 3Ø, 0.8 pf	150	225	142	214	250

### **SURGE CAPACITY IN AMPS**

		Voltage Dip	) @ < .4 pt
		15%	30%
	120/240 V, 1Ø	129	356
QT070	120/208 V, 3Ø	194	471
	120/240 V, 3Ø	168	408
	277/480 V, 3Ø	83	201
	120/240 V, 1Ø	174	435
01000	120/208 V, 3Ø	186	466
01000	120/240 V, 3Ø	161	404
	277/480 V, 3Ø	70	175
	120/240 V, 1Ø	150	413
01100	120/208 V, 3Ø	186	452
QIIOU	120/240 V, 3Ø	161	392
	277/480 V, 3Ø	107	261
	120/240 V, 1Ø	236	648
01120	120/208 V, 3Ø	364	885
01130	120/240 V, 3Ø	315	767
	277/480 V, 3Ø	161	390
	120/240 V, 1Ø	486	1214
01150	120/208 V, 3Ø	534	1334
QTIDU	120/240 V, 3Ø	463	1156
	277/480 V, 3Ø	250	624

### **ENGINE FUEL CONSUMPTION**

		Natural Gas		Propane			
		(ft³/hr)	(m³/hr)	(gal/hr)	(l/hr)	(ft³/hr)	
	Exercise cycle	110	3.1	1.2	4.6	44	
QT070	25% of rated load	260	7.4	2.85	10.8	104	
	50% of rated load	500	14.2	5,46	20.8	200	
	75% of rated load	696	19.8	7.62	29.1	280	
	100% of rated load	1020	29	11.17	42.6	411	
	Exercise cycle	95	2.7	1.4	5.51	53	
	25% of rated load	549.5	15.6	3.46	13.11	126	
QT080	50% of rated load	784.4	22.2	6.62	25.1	241	
	75% of rated load	1024.8	29.0	9.24	34.96	336	
	100% of rated load	1252.2	35.5	12.78	48.38	465	
	Exercise cycle	130	3,7	1.4	5.4	52	
	25% of rated load	371	10.5	4.1	15.5	149	
QT100	50% of rated load	713	20.3	7.9	29.8	287	
	75% of rated load	991	28.2	11	41.5	400	
_	100% of rated load	1260	35.8	13.9	52.6	507	
	Exercise cycle	135	3.8	1.4	5.7	55	
	25% of rated load	482	13.7	5.3	20	193	
QT130	50% of rated load	927	26.3	10.3	38.7	373	
	75% of rated load	1292	36.7	14.3	54	520	
	100% of rated load	1786	50.8	19.8	74.6	719	
	Exercise cycle	155	4.4	1.7	6.5	63	
	25% of rated load	556	15.8	6.09	23.2	224	
QT150	50% of rated load	1070	30.4	11.72	44.7	431	
	75% of rated load	1491	42.4	16.33	62.3	600	
	100% of rated load	2061	58.6	22.57	86.1	830	

#### Note: Fuel pipe must be sized for full load.

For Btu content, multiply gal/hr x 90950 (LP) or ft3/hr x 1000 (NG).

For megajoule content, multiply I/hr x 25.35 (LP) or m³/hr x 37.26 (NG).

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.



## 70 • 80 • 100 • 130 • 150 kW

## operating data

### **ENGINE COOLING**

	70 kW	80 kW	100 kW	130 kW	150 kW	
Air flow (inlet air including alternator and combustion air in ft3/min)	5200/147.2	5300/150.1	5500/155.7	6450/182.6	7800/220.9	
System coolant capacity (gal/liters)	4.5/17	4/15.1	4.5/17	4.5/17	4.5/17	
Heat rejection to coolant (BTU/hr)	287,000/302.8	316,000/333.4	342,000/360.8	496,000/523.3	568,000/599.3	
Maximum operation air temperature on radiator (°C/°F)	60/150					
Maximum ambient temperature (°C/°F)	50/140					
COMBUSTION REQUIREMENTS						
Flow at rated power (cfm/cmm)	205/5.8	143/4	262/7.4	336/9.5	410/11.6	
SOUND EMISSIONS						
Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	64	65	68	69	66	
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	72	74	72	75	79	
*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the	e generator may be high	er depending on instal	lation parameters.			
EXHAUST						
Exhaust flow at rated output (cfm/cmm)	557/15.8	720/20.4	888/25.1	1119/31.7	1535/43.5	
Exhaust temperature at muffler outlet (°C/°F)	477/890	796/1465	516/960	521/970	593/1100	
ENGINE PARAMETERS						

Rated Synchronous rpm	1800	3600	2300	2970	3600

POWER ADJUSTMENT FOR AMBIENT CONDITIONS	
Temperature Deration	
CONTROLLER FEATURES	

2-Line Plain Text LCD Display	
Mode Switch: Auto	Automatic Start on Utility failure. 7 day exerciser
Off	
Manual	
Programmable start delay between 10-30 seconds	Standard
Engine Start Sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine Warm-up	
Engine Cool-Down	
Starter Lock-out	
Smart Battery Charger	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Automatic Low Oil Pressure Shutdown	
Overspeed Shutdown	Standard, 72 Hz
High Temperature Shutdown	Standard
Overcrank Protection	Standard
Safety Fused	Standard
Failure to Transfer Protection	
Low Battery Protection	Standard
50 Event Run Log	Standard
Future Set Capable Exerciser	
Incorrect Wiring Protection	
Internal Fault Protection	
Common External Fault Capability	
Governor Failure Protection	Standard

## **GENERAC**<sup>\*</sup>

## 70 • 80 • 100 • 130 • 150 kW

available accessories

Model #	Product	Description
G006463-4	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Note: Harness Adapter Kit required. Available in the U.S. only.
G006478-0	Harness Adapter Kit	The Harness Adapter Kit is required to make liquid-cooled units compatible with Mobile Link™.
G005632-1 - 70, 80 & 150 kW G005633-0 - 100 & 130 kW	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
G005620-0 - 70, 100 & 130 kW G006204-0 - 80 kW G005667-0 - 150 kW	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G005660-0 - 70, 100, 130, and 150 kW G006915-0 - 80 kW	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
G006664-0	Local Wireless Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
G006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
G006873-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.
G007005-0	Wi-Fi LP Fuel Level Monitor	The Wi-Fi enabled LP fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.
G006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of anemergency.



## 70 • 80 • 100 • 130 • 150 kW

Drawing #0H7452-D





interconnections



## installation layout

Drawing #0F6287-E



3

33

70 kW

DIMENSIONS: MM [INCH]



## 80 kW

### Drawing #0L3178-B



## installation layout





## installation layout

Drawing #0H4105-B



100 • 130 • 150 kW





Service Entrance Rated **Molded Case Type Open and Delayed Transition** 



## **Power Series Transfer Switch**

100-1000 Amps



Automatic Transfer Switch, 100% Service Entrance Rated 100 - 1000A, Available to 600 VAC, 50/60 Hz Single & Three phase 2, 3 or 4 poles NEMA 1, 3R, or 4x **Open and Delayed Transition** UL1008 Listed CSA C22.2 No. 178 Certified

### **CODES AND STANDARDS:**



UL1008 Listed



NFPA 70, 99, 110, 37



NEC 700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



Seismic: IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)



IEC 61000 EMC Testing & Measuring

CSA C22.2 No. 178 Certified

### **DESCRIPTION:**

Generac's Service Entrance Power Series Transfer Switch integrates automatic power switching with required disconnecting, grounding, and bonding for use as service entrance equipment. The integrated service entrance power switch meets all National Electrical Code requirements for service entrance equipment in a compact package. The switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems.

Designed with integral overcurrent protection and 100% rated disconnect breaker for unmatched performance, safety, and reliability. The internal dead front cover allows for manual operation under load with a permanently affixed handle. The full assembly is listed to UL 1008 with exceptional withstand and close on ratings.

The microprocessor-based ATS controller offers standard features of Modbus® RTU and pretransfer contacts, with 3-Phase sensing on both sources plus load for voltage, frequency, sequencing, loss and unbalance. The mimic diagram displays source availability and connection, providing "at a glance" indication, further simplifying users interface. The controller is designed beyond industry EMC standards with a time-stamped history log.

## Power Series, Service Entrance Rated, Molded Case Type, Open and Delayed Transition

### **STANDARD FEATURES:**

- · Double-throw, mechanically interlocked transfer mechanism
- · High withstand and closing ratings
- LCD-based display for programming, system diagnostics and Help Menu display
- Mimic diagram with Source Available and Connected LED indication
- · Top, bottom and side cable entry
- Time-stamped history log

### **VOLTAGE AND FREQUENCY SENSING:**

- 3-Phase under and over voltage sensing on normal and emergency sources, plus load
- Under and over frequency sensing on normal, emergency, and load
- · 3-Phase sequence sensing for phase sensitive loads
- 3-Phase voltage unbalance and loss sensing

### · System TEST pushbutton

- Programmable plant exerciser OFF, daily, 7 day interval selectable run time 0-600 minutes no load/load with failsafe
- Safe manual operation under full load with permanently affixed operating handle
- Modbus<sup>®</sup> RTU
- · Field programmable time delays

### **CONTACTS:**

- Source available:
  - Source-1 Present, 2-N.O. & 2 N.C.
  - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position:
  - Source-1 Position, 1-N.O. & 1-N.C.
  - Source-2 Position, 1-N.O. & 1-N.C.
- Pre Transfer Contacts: 1-N.O. & 1-N.C.

### **OPTIONAL FEATURES:**

- ATC-900 Digital Controller
- · Space Heater with Thermostat
- · Digital Multi-function Power Quality Metering
- · Ethernet Connectivity
- · Remote Annunciator Panel with controller
- Maintenance Selector Switch
- · Remote Multi Switch Annunciator Panel with controller

- TVSS
- · Stainless steel cover for controller
- Emergency Inhibit
- · General Alarm Indication
- · Selectable Retransfer
- Manual Generator Retransfer

### FAST, POWERFUL AND SAFE POWER SWITCHING MECHANISM:

The power panel utilizes a unidirectional gear motor mechanism. The power panel can be operated manually under a full load.

### INTEGRAL OVERCURRENT PROTECTION CAPABILITY:

The Service Entrance Power Transfer Switch trip units are integrated in to the power switching section. This eliminates the need for separate upstream protective devices, saving cost and space.



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## Power Series, Service Entrance Rated, Molded Case Type, Open and Delayed Transition



**Components of Automatic Transfer Switches** 

UL1008 Withstand and Close on Ratings as Listed (kA)								
3-	Cycle Rating		Ratings Wh	hen Used with Upstream Fus				
240 Vac	480 Vac	600 Vac	Maximum Fuse Rating	Fuse Type	600 Vac			
100	65	25	200	J, T	200			
100	65	25	400	J, T	200			
100	65	25	400	J, T	200			
100	65	25	400	J, T	200			
100	651	25	1200	J, T	200			
65	50 <sup>1</sup>	25	1600	L	200			
65	50'	25	1600	L	200			
	/ithstan 3 240 Vac 100 100 100 100 65 65	Vithstand and C           3-Cycle R:           240         480           Vac         Vac           100         65           100         65           100         65           100         65           100         65           100         65           100         65           100         65           100         65           100         65           100         65           100         65'           65         50'	Vithstand and Close on           3-Cycle Rating           240         480         600           Vac         Vac         Vac           100         65         25           100         65         25           100         65         25           100         65         25           100         65         25           100         65         25           100         65         25           100         65         25           100         65         25           100         65         25           65         50'         25           65         50'         25	Vithstand and Close on Ratings as Lis           3-Cycle Rating         Ratings Wh           240         480         600         Maximum           Vac         Vac         Solution         Fuse Rating           100         65         25         200           100         65         25         400           100         65         25         400           100         65         25         400           100         65         25         400           100         65         25         1200           65         501         25         1600           65         501         25         1600	Vithstand and Close on Ratings as Listed (kA)           S-Cycle Rating         Ratings When Used with           240         480         600         Maximum Fuse Rating         Fuse Type           100         65         25         200         J, T           100         65         25         400         J, T           100         65         25         1200         J, T           100         65'         25         1600         L           65         50'         25         1600         L			

1 Four-pole configuration is 35kA for 600, 800 and 1000A.

## Power Series, Service Entrance Rated, Molded Case Type, Open and Delayed Transition

### **UNIT DIMENSIONS:**



\*Top, bottom and side cable entry

Cu/AI Rated Terminal Lugs (MCM)									
Ampere	Breaker Frame	Normal and Emergency Sources	Load	Neutral <sup>1</sup>					
100	HFD	(1) #14-1/0	(1) #14-1/0	(3) #14-1/0					
225	HFD	(1) #6-300	(1) #6-300	(3) #4-300					
225	HKD	(1) #3-350	(1) #6-350	(3) #4-350					
225	hkd	(1) #3-350	(1) #6-350	(3) #4-350					
300	HKD	(1) #3-350	(1) #6-350	(3) #4-350					
400	HLD	(1) 4/0-600	(2) #1-500	(6) 250-350					
600	HLD	(1) 3/0-350	(2) #1-500	(6) 250-350					
600	HMDL	(2) #1-500	(2) #1-500	(12) 4/0-500					
600 (four-pole)	NB	(3) 3/0-400	(3) 3/0-400	(3) 3/0-500					
800	HMDL	(3) 3/0-400	(3) 3/0-400	(12) 4/0-500					
800	HNB	(3) 3/0-500	(4) 4/0-500	(12) 4/0-500					
1000	HNB	(3) 3/0-500	(4) 4/0-500	(12) 4/0-500					

### Note

1 Applies to standard two and three pole configurations with solid neutral.

### Molded Case Transfer Switches Dimensions in Inches (mm)

		Wall Mount En	closure		Bolt Pattern		
Ampere		Height A	Width B	Depth 1 C	Horizontal G	Vertical H	Weight Lbs (kg)
100	HFD 1	47.74 (1213.0)	20.81 (528.6)	17.22 (437.0)	10.75 (273.0)	46.44 (1180.0)	232 (105)
225	HFD <sup>1</sup>	35.61 (904.0)	20.06 (509.5)	13.34 (339.0)	10.75 (273.0)	34.31 (904.0)	150 (68)
225	HFD	47.74 (1213.0)	20.81 (528.6)	17.22 (437.0)	10,75 (273.0)	46.44 (1180.0)	232 (105)
225	HKD	56.00 (1422.4)	20.81 (528.6)	18.40 (467.4)	11.00 (279.4)	45,50 (1155.7)	305 (138)
300	HKD	53.00 (1346.2)	25.81 (655.6)	18.40 (467.4)	11.00 (279.4)	53,50 (1358.9)	295 (134)
400	HLD	53.00 (1346.0)	25.81 (655.6)	16.65 (422.9)	16.00 (406.4)	51,50 (1308.0)	425 (193)
600	HLD	64.00 (1625.6)	25.81 (655.6)	18.40 (467.4)	16.00 (406.4)	62.50 (1588.0)	475 (214)
600	HMDL	76.74 (1949.2)	25.81 (655.6)	19.50 (495.3)	16,00 (406.4)	75.15 (1908.8)	480 (218)
800	HMDL	76.74 (1949.2)	25.81 (655.6)	19.50 (495.3)	16.00 (406.4)	75.15 (1908.8)	510 (231)
800-1000	HNB	76.74 (1949.2)	25.81 (655.6)	19.50 (495.3)	16.00 (406.4)	75.15 (1908.8)	540 (245)

#### Notes

1 240/120V, single-phase, three-wire or 208V, three-phase, four-wire systems only, without multi-tap transformer.

\* For all dimensions and terminations confirm with submittal information.

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### **Available Gutter Space**



**Top View**