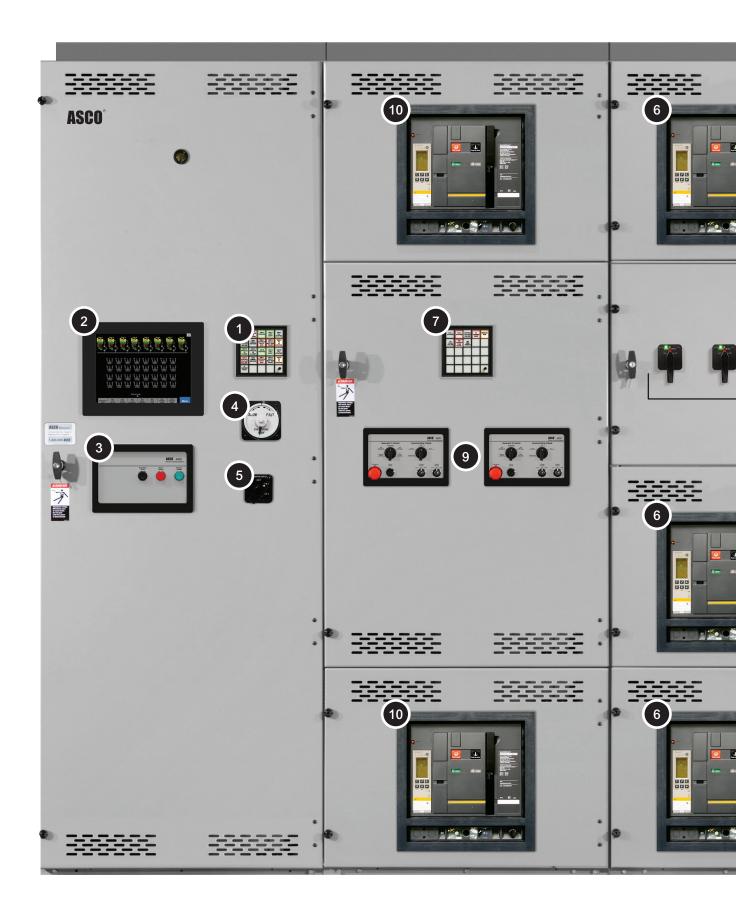


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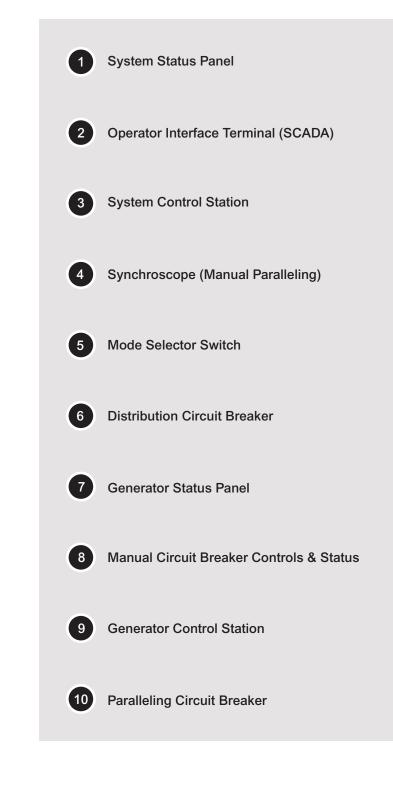
Life Is On



## HARDWIRE BACKUP CONTROLS









#### **REFINED POWER MANAGEMENT**

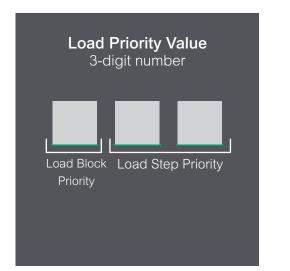
Power is managed by referencing the main bus. ASCO Power management applications, including generator load demand and load bus optimization, maximize load distribution and control generator efficiency based on actual power measurements. 4000 SERIES Generator Paralleling Switchgear power management provides the most powerful, reliable and advanced digital control by separating the control of generators from load distribution control, and independently managing each.

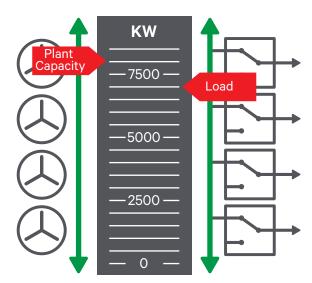
Generator load demand maximizes the efficiency of generator usage. After a stabilizing time delay, a generator may be started and connected to the main bus for high demand, or unloaded and shut down for low demand. It conserves fuel and reduces maintenance requirements by operating fewer generators at a more efficient level.

Bus load optimization determines the capacity for adding loads to the bus. It evaluates system utilization, based on available capacity and distribution load ratings.

Effective power management derives from the assignment of unique and structured priorities to distribution loads, which are controlled by the 4000 SERIES Generator Paralleling Switchgear via transfer switches and/or electrically operated distribution circuit breakers. For example, transfer switches which provide power to life safety loads receive a load block priority of 1 and an individual step priority within that block. If there are 5 such transfer switches, they could be assigned the load priority values of 101, 102, 103, 104 and 105.

The next group of loads may be assigned a block priority of 2; if there are 3 such transfer switches, for example, they could be assigned the load priority values of 201, 202 and 203. Because the 4000 SERIES Generator Paralleling Switchgear can control up to 32 individually prioritized transfer switches, individually controls each transfer switch per its unique priority, and allows operators to change priorities run-time, the ASCO 4000 SERIES Generator Paralleling Switchgear provides unsurpassed distribution control.





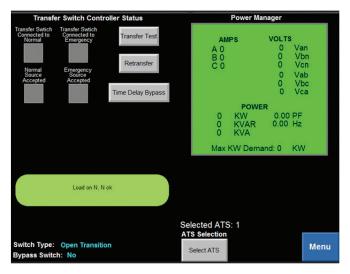
#### ENHANCED VISUALIZATION

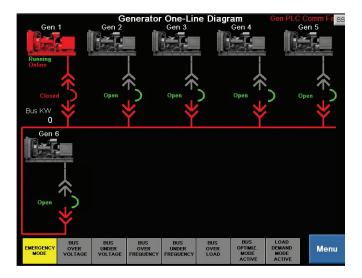
By providing generator one-line and transfer switch overview screens, dynamically updated and color-coded status for readability, screens for switchgear status & control, alarm screens and operator-defined trend plots, the 4000 SERIES Generator Paralleling Switchgear color touch screens deliver a powerful, user-friendly interface that can be conveniently located throughout the facility.

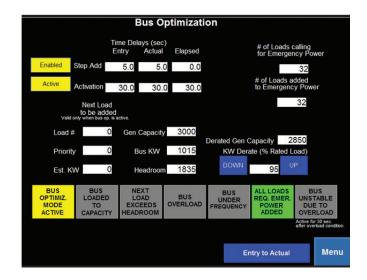
## FEATURES AND BENEFITS

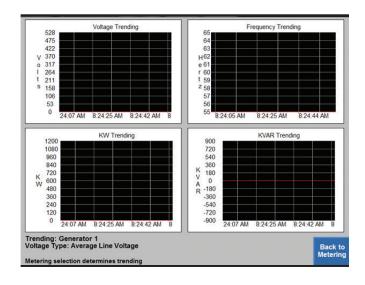
- One-line screen for familiar representation of site installation
- Optional remote color touch screen
- Ethernet communications with Modbus® mapping for external system connectivity (CPMS, DCIM, BMS, etc)
- Engine-generator status/control screen
- · Generator trending with auto-scale plots
- Historical Alarm
- ASCO transfer switch controller and metering connectivity including remote test capability
- System metering and individual generator metering screens
- Security features including multiple security levels and individual operator accounts



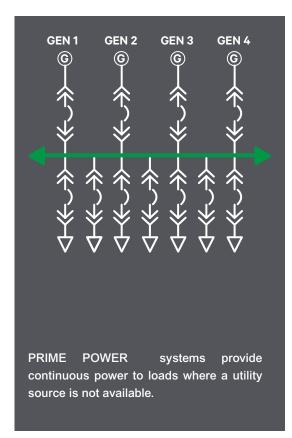


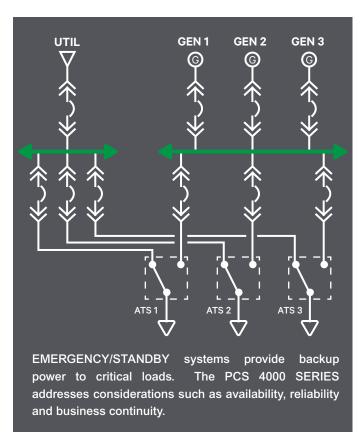






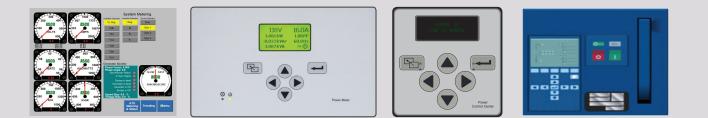
## APPLICATION FLEXIBILITY





## COMPLETE INTEGRATION

Integration of essential switching and control elements brings complete monitoring and control via operator interfaces:



- Digital Synchronizer/Load Share Controllers
- Programmable Automation Controllers
- ASCO 4000/7000 SERIES ATS ControllersCircuit Breaker Status and Control
- ASCO Digital Power Meters
- Connectivity defines the usefulness of paralleling switchgear. The flexibility of PCS 4000 switchgear takes it to a higher level. We bring the data to you with Ethernet communications and Modbus® mapping, providing connectivity to optional remote color touch screens, ASCO CPMS, SCADA systems, BMS and DCIM systems.

As a result of complete integration, operators can be notified via alarms on the local switchgear or at a conveniently located remote color touch screen. Detailed diagnostic data, such as alarm and event logs as well as system status values from digital controls, becomes accessible to technicians plugged in anywhere on the switchgear communication network. Individual accounts with assigned security levels define the level of monitoring and control available at the local or remote touch screen.



Remote Color Touch Screen

Critical Power Management System (CPMS) Building Management System (BMS) Data Center Infrastructure Management (DCIM)

## INTELLIGENT SIMULATION

The 4000 SERIES Switchgear Simulator option provides an important platform for customers to train new operators, provide continuing education to existing operators, test changes to sequences of operation, and evaluate the performance of operators and the system during a simulated crisis. Customers who maintain active training and continuous improvement policies experience measurable benefit.

## The 4000 SERIES Switchgear Simulator is the practical platform to TRAIN operators, TEST sequences, and MEASURE performance.

During critical power losses, the facility control room becomes the emergency room. The value of quick decisions based on training and knowledge versus guesswork determines the duration of down-time. The necessity of simulation training becomes immediately apparent when the impact of a crisis could have been minimized if not for operator error.

When customers needed a safe and effective way to measure the performance of their 4000 Switchgear system as well as facility operators during shortened periods of numerous alarms and simulated equipment failures, ASCO provided the PCS Simulator. Its effective use can reveal the performance of sequences and operators without risk to equipment or of down-time while extending an operator's experience in both typical and unusual emergencies.

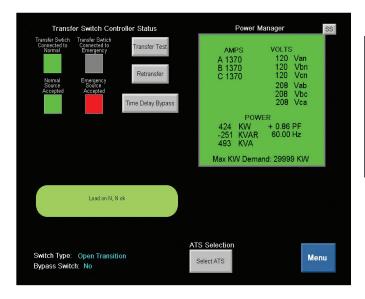
Frequently, operators need to develop experience with more scenarios in a shorter period of time than on-the-job experience, not only for typical scenarios but unusual ones as well. Additionally, they need the ability to review and correct their mistakes; typically there are no second chances with a live system.

The simulator option also benefits managers who need to develop reports that show measurable performance and improvements with respect to facility operators and system operation.

Engineers who need to evaluate existing sequences of operation as well as be able to test modifications can benefit as well. Additionally, engineers are provided a way to correct oversights and test corrections without impact to the live system.

Additional beneficiaries include owners who seek to reduce their training investment and minimize down time by developing highly effective operators, sequences, and business processes (work flow).

All of this, and more, can be accomplished locally, with minimal investment, and without putting the live system at risk. The solution? The 4000 SERIES Generator Paralleling Switchgear Simulator!



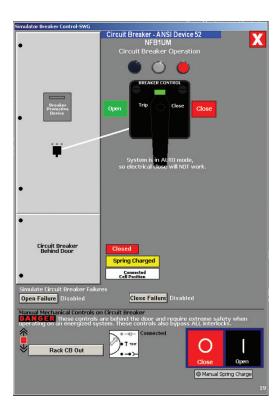
Whereas competitive simulators may utilize computer modeling, the 4000 Switchgear Simulator includes the same color touch screen as the PCS switchgear as well as a PLC to execute the actual sequence of operation from the PCS switchgear.

Included is a console, an operator interface touch screen with all master control screens from the live system, a simulator PC with screens for configuring the simulator, and a PLC with the master controls program (system I/O not included).

PCS SIMULATOR CONSOLE				
DISPLAY AND CONTROLS				
ONE-LINE	MASTER CO STATIO		ONE-LINE	
SYNCHROSCOPE	SHOW METERING? ON			
UTILITY STATE	GEN STATUS		UNDER- FREQUENCY	
UTILITY 1 ON	GENERATOR 1 ON		GPS1 OFF	
UTILITY 2 ON	GENERATOR 2 ON		GPS2 OFF	
	GENERATOR 3 OFF			
	GENERATOR 4			
ON				
SYSTEM COMMUNICATION DIAGNOSTICS				
Start Delay: 80ms Reset		Reset	[	
Communication Status: Running				
Average Delay:		70 m	s	
Minimum Delay:		0 ms		
Maximum Delay: 350 ms				
Current PLC Sweet Time: Constant Sweep Mode:		3 ms No		
Program Name:		NO M9G	03	
SNP ID: PLC RTC:		0	0400040007	
State:			0129010007 I/O Enabled	
PLC Fault: I/O Fault:		None None	9	
CLOSE CONSOLE				



- Automatic transfer switches, including simulation of source-seeking and PLCinitiated transfers
- Power circuit breakers, including simulation of electrical charging, manual operation, control switches, lockout relay, failure to close and failure to open
- Basic generator controls, including local control switch, synchronizer mode, random start and synchronization delays, common shutdown and pre-alarm initiation



#### Various test scenarios including:

- Generator bus under-frequency
- Utility failure/restoration
- Circuit breaker open/close failure
- Electrical interlock (for training purposes)
- Generator failure
- Circuit breaker unavailable (tripped, lockout, withdrawn)
- Failure to synchronize

# ASCO® 4000 SERIES FEATURES AND OPTIONS

System Voltage         600V Max.           Number of Generators         4 (Up to 8 depending on configuration)           PRODUCT CONFIGURATION         ************************************	FEATURES	4000 SERIES			
Number of Generators         4 (Up to 8 depending on configuration)           PROUCT CONFIGURATION         Standby/isolated Bus           Standby/isolated Bus         Yes           CONSTRUCTION         Yes           CONSTRUCTION         2000 to 10000 A (Type 1 Enclosure)           Main Bus Amp size available         2000 to 6000 A (Type 3R Enclosure)           Switchgear Standard         UL 1558           Bus Bracing Level         100 KA or 200KA           Overhead Rail Lift         Optional for Type 1 Enclosure           Setsmic Certification Option, SDS         2.46 (Includes rooftop installation)           IBC 2012 & 0.5HPD         Included with Seismic Certification Option           MASTER CONTROLS         U           Master Controls Touch Screen         10" (Standard) 15" (Optional)           Redundant Master FLC         Optional           NerBPA 110 Generator Monitoring         Yes           Master PLC         Ves (GE RX3i or Allen-Bracley ControlLogix)           Redundant Master FLC         Optional           Hardwired Manual Paraleling         Standard           Bus Lead Optimization         Standard           Simulator for Tosting and Training         Optional           Conserved Varial Master FLC         Optional           Number of ATS's (Heoctrically Opera					
PRODUCT CONFIGURATION           Standby/isolated Bus         Yes           Prime Power         Yes           CONSTRUCTION         Yes           Main Bus Amp size available         2000 to 10000 A (Type 3 Enclosure)           Switchgear Standard         UL 1558           Bus Bracing Level         100 KA or 200KA           Overhead Rail Lift         Optional for Type 1 Enclosure           Sesmic Certification Option, SDS         2.46 (Includes rootop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           MASTER CONTROLS         Master Controls Touch Screen           Master Controls Touch Screen         10° (Standard) 15° (Optional)           Redurdant Master Touch Screens         Optional (Up to 2 Additional Color Touch Screens)           NFPA 110 Generator Monitoring         Yes           Bus Load Optimization         Standard           Generator Risk (Marually Operated Distribution CB)         1 - 16           Simulator for Testing and Training         Optional           Generator Bratalleing Breakers         1 or 2 per cubiole (					
Standby/Isolated Bus     Yes       Prime Powor     Yes       CONSTRUCTION     2000 to 10000 A (Type 18 Enclosure) 2000 to 60000 A (Type 38 Enclosure)       Switchgaar Standard     UL 1558       Bus Bracing Level     100 KA or 200KA       Overhead Rail Lift     Optional for Type 1 Enclosure       Seismic Certification Option, SDS     2.46 (Includes rooftop installation)       IBC 2012 & OSHPD     Included with Seismic Certification Option       MASTER CONTROLS     Included with Seismic Certification Option       Redundant Master Touch Screens     Optional (Up to 2 Additional Color Touch Screens)       NFPA 110 Generator Monitoring     Yes       Redundant Master PLC     Yes (GE RX3) or Allen-Bradley ControlLogix)       Redundant Master PLC     Optional       Hardwired Manual Paralleling     Standard       Bus Load Optimization     Standard       General Load Demand     Atlandard, Includes Soft Generator Unloading       Load Shed/Add     ATS or Electrically Operated Distribution CB)       Number of ATS's (Electrically Operated Distribution CB)     1 - 18       Simulator for FLC     Yes       Generator Bradieling Breakers     1 or 2 per cubicle (Depending on Options)       Max: Generator Breaker Frame Size     3200 A (1)       CENERATOR CINCOLIS SECTION     Standard       Generator Breaker Frame Size     3200 A (2)					
Prime Power         Yes           CONSTRUCTION         2000 to 10000 A (Type 1 Enclosure) 2000 to 6000 A (Type 3R Enclosure)           Switchgear Standard         LL 1558           Bus Bracing Level         100 KA or 200KA           Overhead Rail Lift         Optional for Type 1 Enclosure           Seismic Certification Option, SDS         2.46 (Includes rootop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           MASTER CONTROLS         Master Controls Touch Screens           Master Touch Screens         Optional (Type 1 Enclosure           NEFA 110 Generator Monitoring         Yes           Master Controls Touch Screens         Optional (Up to 2 Additional Color Touch Screens)           NFPA 110 Generator Monitoring         Yes           Waster CLC         Optional           Hardwired Manual Paralleling         Standard           Bus Load Optimization         Standard           Generator Manually Operated Distribution CB)         1 - 32           Number of ATS's (Electrically Operated Distribution CB)         1 - 32           Number of TS's (Electrically Operated Distribution CB)         1 - 32           Simulator for Testing and Training         Optional           Generator Paralleling Breakers         1 or 2 por cubicle (Depending on Options) <t< td=""><td></td><td>Vac</td></t<>		Vac			
CONSTRUCTION         2000 to 10000 A (Type 1 Enclosure)           Main Bus Amp size available         2000 to 0000 A (Type 3 R Enclosure)           Switchgear Standard         UL 1558           Bus Bracing Level         100 KA or 200KA           Overhead Rall Lift         Optional for Type 1 Enclosure           Seismic Certification Option, SDS         2.46 (includes rooftop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           Master CONTROLS	-				
Main Bus Amp size available         2000 to 6000 A (Type 1 Enclosure) 2000 to 6000 A (Type 3R Enclosure)           Switchgear Standard         LL 1558           Bus Bracing Level         100 KA or 200KA           Overhead Rail Lft         Optional for Type 1 Enclosure           Seismic Certification Option, SDS         2.46 (Includes rootop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           MASTER CONTROLS		res			
2000 to 6000 A (Type 3R Enclosure)           Switchgear Standard         UL 1558           Bus Bracing Level         100 KA or 200KA           Overhead Rail Lift         Optional for Type 1 Enclosure           Seismic Certification Option, SDS         2.46 (Includes rooftop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           MASTER CONTROLS         Master Controls Touch Screen         10" (Standard)/ 15" (Optional)           Redundant Master Touch Screen         0° (Standard)/ 15" (Optional)         Redundant Master PLC           Master Controls Touch Screen         0° (Standard)/ 15" (Optional)         Redundant Master PLC           Mester PLC         Ves (GE RX3) or Allen-Bradley ControlLogix)         Redundant Master PLC           Bus Load Optimization         Standard         Standard           Bus Load Optimization         Standard         Standard           Load Shet/Add         ATS or Electrically Operated Distribution CB)         1 - 32           Number of ATS's (Idectrically Operated Distribution CB)         1 - 16         Standard           Generator Paralleling Breakers         1 or 2 per cubicle (Depending on Options)         5000 A (1)           Generator Pranaleling Breakers         1 or 2 per cubicle (Depending on Options)         5000 A (1)           Generator Prace Controls Suct Foren		$2000 \pm 10000 \wedge (Type 1 Epoleours)$			
Bus Bracing Level         100 KA or 200KA           Overhead Rail Lift         Optional for Type 1 Enclosure           Seismic Certification Option, SDS         2.46 (Includes roottop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           MASTER CONTROLS         Included with Seismic Certification Option           Master Controls Touch Screens         Optional (Up to 2 Additional Color Touch Screens)           NFPA 110 Generator Monitoring         Yes           Master PLC         Yes (GE RX3i or Allen-Bradley ControlLogix)           Redundant Master PLC         Optional           Bus Load Optimization         Standard           Bus Load Optimization         Standard           General Load Demand         Standard           Load Shed/Add         ATS or Electrically Operated Distribution CB)           Number of ATS's (Bectrically Operated Distribution CB)         1 - 32           Number of ATS's (Electrically Operated Distribution CB)         1 - 16           Simulator for Testing and Training         Optional           Generator Paralleling Breakers         1 or 2 per cubicle (Depending on Options)           Max. Generator Breaker Frame Size         3200 A (2) 5000 A (1)           Generator PLC         Yes           Hardwired Backup Controls         Standard		2000 to 6000 A (Type 3R Enclosure)			
Overhead Rail Lift         Optional for Type 1 Enclosure           Seismic Certification Option, SDS         2.46 (Includes rooftop installation)           IBC 2012 & OSHPD         Included with Seismic Certification Option           MASTER CONTROLS	-	UL 1558			
Seismic Certification Option, SDS       2.46 (Includes rooftop installation)         IBC 2012 & OSHPD       Included with Seismic Certification Option         MASTER CONTROLS       Included with Seismic Certification Option         Master Controls Touch Screen       Optional (Up to 2 Additional Color Touch Screens)         NFPA 110 Generator Monitoring       Yes         Master PLC       Yes (GE RX3i or Allen-Bradley ControlLogix)         Redundant Master PLC       Optional         Hardwired Manual Paralleling       Standard         Bus Load Optimization       Standard         General Load Demand       Standard         Load Shed/Add       ATS or Electrically Operated Circuit Breaker         Number of ATS's (Electrically Operated Distribution CB)       1 - 16         Simulator for Testing and Training       Optional         Generator Breaker Frame Size       3 200 A (2)         Stoo0 A (1)       Generator Reaker Frame Size         Generator PLC       Yes         Hardwired Backup Controls       Standard         Generator Routel Stouch Screen       Optional         Generator Breaker Frame Size       3 200 A (2)         Stoo0 A (1)       Generator Controls         Generator PLC       Yes         Hardwired Backup Controls       Standard      <	Bus Bracing Level	100 KA or 200KA			
IBC 2012 & OSHPD       Included with Seismic Certification Option         MASTER CONTROLS       Master Controls Touch Screen       10" (Standard)' 15" (Optional)         Redundant Master Touch Screens       Optional (Up to 2 Additional Color Touch Screens)         MRPA 110 Generator Monitoring       Yes         Master PLC       Yes (GE RX3i or Allen-Bradley ControlLogix)         Redundant Master PLC       Optional         Hardwired Manual Paralleling       Standard         Bus Load Optimization       Standard         Generat Load Demand       Standard         Load Shed/Add       ATS or Electrically Operated Circuit Breaker         Number of ATS's (Manually Operated Distribution CB)       1 - 32         Number of ATS's (Manually Operated Distribution CB)       1 - 16         Simulator for Testing and Training       Optional         GENERATOR CIRCUIT BREAKERS       2000 A (2)         Generator Breaker Frame Size       32000 A (2)         Sizou A (2)       32000 A (1)         Generator PLC       Yes         Hardwired Backup Controls       Standard         Generator Controls Screen       Optional (See Note Below)         Lug Types       Mechanical (Standard / Compression (Optional)         DISTRIBUTION CIRCUIT BREAKERS       Optional (See Note Below)	Overhead Rail Lift	Optional for Type 1 Enclosure			
MASTER CONTROLS           Master Controls Touch Screen         10" (Standard)/ 15" (Optional)           Redundant Master Touch Screens         Optional (Up to 2 Additional Color Touch Screens)           NFPA 110 Generator Monitoring         Yes           Master PLC         Yes (GE RX3) or Allen-Bradley ControlLogix)           Redundant Master PLC         Optional           Hardwired Manual Paralleling         Standard           Bus Load Optimization         Standard           Generator Load Demand         Standard, Includes Soft Generator Unloading           Load StandArd         ATS or Electrically Operated Circuit Breaker           Number of ATS's (Manually Operated Distribution CB)         1 - 32           Number of Tarsing and Training         Optional           Generator Paralleling Breakers         1 or 2 per cubicle (Depending on Options)           Gax. Generator Breaker Frame Size         3200 A (2) 5000 A (1)           Generator Paralleling Breakers         1 or 2 per cubicle (Depending on Options)           Max. Generator Synchronized Type         Digital           Generator PLC         Yes           Hardwired Backup Controls         Standard           Generator PLC         Yes           Hardwired Backup Controls         Standard           Generator PLC         Yes	Seismic Certification Option, SDS	2.46 (Includes rooftop installation)			
Master Controls Touch Screens       10" (Standard)/ 15" (Optional)         Redundant Master Touch Screens       Optional (Up to 2 Additional Color Touch Screens)         NFFA 110 Generator Monitoring       Yes         Master PLC       Yes (GE RX3i or Allen-Bradley ControlLogix)         Redundant Master PLC       Optional         Hardwired Manual Paralleling       Standard         Bus Load Optimization       Standard         General Load Demand       Standard         Load Shed/Add       ATS or Electrically Operated Circuit Breaker         Number of ATS's (Kleutrically Operated Distribution CB)       1 - 32         Number of ATS's (Electrically Operated Distribution CB)       1 - 16         Simulator for Testing and Training       Optional         Generator Paralleling Breakers       1 or 2 per cubicle (Depending on Options)         Max. Generator Breaker Frame Size       3200 A (2)         Sio00 A (1)       E         Generator PLC       Yes         Hardwired Backup Controls       Standard         Generator Synchronized Type       Digital         Generator Controls Touch Screen       Optional (See Note Below)         Lug Types       Mechanical (Standard / Compression (Optional)         DISTRIBUTION CIRCUIT BREAKERS       Optional         Generator Synchronized T	IBC 2012 & OSHPD	Included with Seismic Certification Option			
Redundant Master Touch Screens     Optional (Up to 2 Additional Color Touch Screens)       NFPA 110 Generator Monitoring     Yes       Master PLC     Yes (GE RX3i or Allen-Bradley ControlLogix)       Redundant Master PLC     Optional       Hardwired Manual Paralleling     Standard       Bus Load Optimization     Standard       General Load Demand     Standard       Load Shed/Add     ATS or Electrically Operated Circuit Breaker       Number of ATS's (Beatrially Operated Distribution CB)     1 - 32       Number of ATS's (Electrically Operated Distribution CB)     1 - 16       Simulator for Testing and Training     Optional       Generator Paralleling Breakers     1 or 2 per cubicle (Depending on Options)       Max. Generator Breaker Frame Size     3200 A (2)       Standard     Standard       Generator Synchronized Type     Digital       Generator PLC     Yes       Hardwired Backup Controls     Standard       Generator Controls Touch Screen     Optional (See Note Below)       Lug Types     Mechanical (Standard / Compression (Optional)       DISTRIBUTION CIRCUIT BREAKERS     Optional (See Note Below)       Lug Types     Optional (See Note Below)       Maxily Operated     Optional (Standard / Compression (Optional)       DISTRIBUTION CIRCUIT BREAKERS     Optional (See Note Below)       Poptional (See	MASTER CONTROLS				
NFPA 110 Generator Monitoring         Yes           Master PLC         Yes (GE RX3i or Allen-Bradley ControlLogix)           Redundant Master PLC         Optional           Hardwired Manual Paralleling         Standard           Bus Load Optimization         Standard           General Load Demand         Standard, Includes Soft Generator Unloading           Load Shed/Add         ATS or Electrically Operated Circuit Breaker           Number of ATS's (Electrically Operated Distribution CB)         1 - 32           Number of ATS's (Electrically Operated Distribution CB)         1 - 16           Simulator for Testing and Training         Optional           Generator Paralleling Breakers         1 or 2 per cubicle (Depending on Options)           Max. Generator Breaker Frame Size         3200 A (2)           Sto00 A (1)         Generator Paralleling Controls SECTION           Generator PLC         Yes           Hardwired Backup Controls         Standard           Generator Controls Touch Screen         Optional (See Note Below)           Lug Types         Mechanical (Standard / Compression (Optional)           DISTRIBUTION CIRCUIT BREAKERS         Optional           Manually Operated         Optional           DISTRIBUTION CIRCUIT BREAKERS         Mechanical (Standard / Compression (Optional)           DIST	Master Controls Touch Screen	10" (Standard)/ 15" (Optional)			
Master PLC       Yes (GE RX3i or Allen-Bradley ControlLogix)         Redundant Master PLC       Optional         Hardwired Manual Paralleling       Standard         Bus Load Optimization       Standard         General Load Demand       Standard, Includes Soft Generator Unloading         Load Shed/Add       ATS or Electrically Operated Circuit Breaker         Number of ATS's (Electrically Operated Distribution CB)       1 - 32         Number of ATS's (Electrically Operated Distribution CB)       1 - 16         Simulator for Testing and Training       Optional         Generator Paralleling Breakers       1 or 2 per cubicle (Depending on Options)         Max. Generator Breaker Frame Size       3200 A (2) 5000 A (1)         Generator Synchronized Type       Digital         Generator PLC       Yes         Hardwired Backup Controls       Standard         Generator Controls Touch Screen       Optional (See Note Below)         Lug Types       Mechanical (Standard / Compression (Optional)         DISTRIBUTION CIRCUIT BREAKERS       Manually Operated         Manually Operated       Optional (8 max., Depending on Configuration)         REMOTE MONITORING       Remote Annunciator Panel, Color Touch Screen Type         Mental Annunciator Panel, Color Touch Screen Type       Optional (See Note Below)	Redundant Master Touch Screens	Optional ( Up to 2 Additional Color Touch Screens)			
Redundant Master PLC     Optional       Hardwired Manual Paralleling     Standard       Bus Load Optimization     Standard       General Load Demand     Standard, Includes Soft Generator Unloading       Load Shed/Add     ATS or Electrically Operated Distribution CB)       Number of ATS's (Manually Operated Distribution CB)     1 - 32       Number of ATS's (Electrically Operated Distribution CB)     1 - 16       Simulator for Testing and Training     Optional       GENERATOR CIRCUIT BREAKERS     Optional       Generator Paralleling Breakers     1 or 2 per cubicle (Depending on Options)       Max. Generator Breaker Frame Size     3200 A (2) 5000 A (1)       Generator Synchronized Type     Digital       Generator PLC     Yes       Hardwired Backup Controls     Standard       Generator Controls Touch Screen     Optional (See Note Below)       Lug Types     Mechanical (Standard / Compression (Optional)       DISTRIBUTION CIRCUIT BREAKERS     Manually Operated       Manually Operated     Optional (8 max., Depending on Configuration)       REMOTE MONITORING     Remote Annunciator Panel, Color Touch Screen Type       Potional (8 max., Depending on Configuration)     Potional (See Note Below)       PowerQuest Remote Desktop Monitoring     Optional (See Note Below)       PowerQuest Remote Desktop Monitoring     Optional (See Note Below) <td>NFPA 110 Generator Monitoring</td> <td>Yes</td>	NFPA 110 Generator Monitoring	Yes			
Hardwired Manual ParallelingStandardBus Load OptimizationStandardGeneral Load DemandStandard, Includes Soft Generator UnloadingLoad Shed/AddATS or Electrically Operated Circuit BreakerNumber of ATS's (Manually Operated Distribution CB)1 - 32Number of ATS's (Electrically Operated Distribution CB)1 - 16Simulator for Testing and TrainingOptionalGENERATOR CIRCUIT BREAKERS1 or 2 per cubicle (Depending on Options)Generator Paralleling Breakers1 or 2 per cubicle (Depending on Options)Max. Generator Breaker Frame Size3200 A (2) 5000 A (1)GENERATOR CONTROLS SECTION1Generator Synchronized TypeDigitalGenerator PLCYesHardwired Backup ControlsStandardGenerator Controls Touch ScreenOptional (See Note Below)Lug TypesMechanical (Standard / Compression (Optional)DISTRIBUTION CIRCUIT BREAKERSOptionalRemote Annunciator Panel, Color Touch Screen TypeOptional (See Note Below)Remote Annunciator Panel, Color Touch Screen TypeOptional (See Note Below)Remote Annunciator Panel, Color Touch Screen TypeOptional (See Note Below)PowerQuest Remote Desktop MonitoringOptionalPowerQuest Remote Desktop MonitoringOptionalNFPA Test Report PackageOptional (Consult Factory)	Master PLC	Yes (GE RX3i or Allen-Bradley ControlLogix)			
Bus Load Optimization       Standard         General Load Demand       Standard, Includes Soft Generator Unloading         Load Shed/Add       ATS or Electrically Operated Circuit Breaker         Number of ATS's (Manually Operated Distribution CB)       1 - 32         Number of ATS's (Electrically Operated Distribution CB)       1 - 16         Simulator for Testing and Training       Optional         GENERATOR CIRCUIT BREAKERS       0         Generator Paralleling Breakers       1 or 2 per cubicle (Depending on Options)         Max. Generator Breaker Frame Size       3200 A (2) 5000 A (1)         GENERATOR CONTROLS SECTION       0         Generator PLC       Yes         Hardwired Backup Controls       Standard         Generator Controls Touch Screen       Optional (See Note Below)         Lug Types       Mechanical (Standard / Compression (Optional)         DISTRIBUTION CIRCUIT BREAKERS       Optional         Belectrically Operated       Optional (8 max., Depending on Configuration)         REMOTE MONITORING       Remote Annunciator Panel, Color Touch Screen Type       Optional (See Note Below)         Remote Annunciator Panel, Color Touch Screen Type       Optional (See Note Below)       Remote Annunciator Panel, Color Touch Screen Type         PowerQuest Remote Desktop Monitoring       Optional (See Note Below)       Opti	Redundant Master PLC	Optional			
General Load DemandStandard, Includes Soft Generator UnloadingLoad Shed/AddATS or Electrically Operated Circuit BreakerNumber of ATS's (Manually Operated Distribution CB)1 - 32Number of ATS's (Electrically Operated Distribution CB)1 - 16Simulator for Testing and TrainingOptionalGENERATOR CIRCUIT BREAKERS0 optionalGenerator Paralleling Breakers1 or 2 per cubicle (Depending on Options)Max. Generator Breaker Frame Size3200 A (2) 5000 A (1)Generator Synchronized TypeDigitalGenerator PLCYesHardwired Backup ControlsStandardGenerator Controls Touch ScreenOptional (See Note Below)Lug TypesMechanical (Standard / Compression (Optional)DISTRIBUTION CIRCUIT BREAKERSOptionalRemote Annuciator Panel, Color Touch Screen TypeOptionalRemote Annuciator Panel, Color Touch Screen TypeOptional (See Note Below)Remote Annuciator Panel, Color Touch Screen TypeOptional (See Note Below)Remote Annuciator Panel, Color Touch Screen TypeOptional (See Note Below)PowerQuest Remote Desktop MonitoringOptional (See Note Below)PowerQuest Remote Desktop MonitoringOptionalNFPA Test Report PackageOptional (Consult Factory)	Hardwired Manual Paralleling	Standard			
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PowerQuest Remote Desktop MonitoringOptionalNFPA Test Report PackageOptional (Consult Factory)	REMOTE MONITORING				
NFPA Test Report Package Optional (Consult Factory)	Remote Annunciator Panel, Color Touch Screen Type	Optional (See Note Below)			
	PowerQuest Remote Desktop Monitoring	Optional			
	NFPA Test Report Package	Optional (Consult Factory)			
JC Reporting Package   Optional (Consult Factory)	JC Reporting Package	Optional (Consult Factory)			

Note: The PCS 4000 System supports a total of 3 color touch screens

#### TECHNOLOGY

Innovation, an important part of the value delivered by the 4000 SERIES switchgear, results from the process of identifying needs, creating ideas, developing and implementing solutions. Building reliable switchgear to the highest standards available, providing a 3D Building Information Model with our PCS switchgear, and leveraging over a century of technological advancement, the 4000 SERIES switchgear product delivers innovation with every watt.

#### SUPPORT

With Project Managers in the factories and in local sales offices, ASCO delivers the highest level of dedicated support to manage your PCS order at every stage – from submittals to startup.

#### SERVICE

The quality, availability and responsiveness of switchgear service directly impacts the level of assurance experienced by owners. That is why ASCO employs factory trained engineers and technicians, places them strategically across the US, available 24 hours a day, 365 days a year, and provides them with readily accessible inventory in their vans, at regional warehouses, and from the various manufacturing centers.









Logical and user-friendly, the 4000 SERIES Switchgear includes extensively automated digital controls that allow external systems such as ASCO Critical Power Management System (CPMS) to provide audit-ready reports formatted per Joint Commission requirements.

With pre-engineered designs for reduced lead times, the 4000 SERIES paralleling switchgear delivers digital monitoring and control, reliable power management, and complete system integration with Data Center Infrastructure Management systems.





Rapidly responding to utility power interruptions, providing layered security with password protection, and automation controllers familiar to industry experts, the 4000 SERIES paralleling switchgear delivers prime and standby power to water and waste water customers.

# Life Is On Schneider

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