FlexSeT Switchboards (cULus Listed)

FlexSeT is a complete low voltage Switchboard offer and service model that enables new methods of assembly, installation, and maintenance, while delivering unprecedented availability, reliability, and modularity. FlexSeTcustomers will benefit from dramatically reduced lead times with design flexibility through a modern and innovative switchboard system, offering an end-to-end digital experience.

Designed with the entire product lifecycle experience in mind, FlexSeT is a product developed with a fully customer centric approach, making everything simpler and faster from ordering to maintenance without compromising quality or safety, all while ensuring compliance to UL Standards.

FlexSeT is delivered on-time with the shortest lead time in the market! The complete offer can shorten delivery to days instead of weeks. Even with configuration changes at virtually any part of the ordering process. The product modularity allows for adaptations without risks to your project timelines as features are added or removed in the lineup.

Product Design and Key Features Highlights

Years of leadership in the switchboard market have provided Schneider Electric with the expertise to drive innovation. FlexSeT switchboards are designed to take solutions to a whole new level, making the best switchboards in the market even better.

Designed to be assembled anywhere without the need of heavy machinery or complex tools, FlexSeT is structured to be simple and intuitive, not only for assembly but also for operation and maintenance.

FlexSeT modularity comes in the form of kits and design features that allow for quick and easy installation, removal, or replacement. This makes installation and operation more intuitive and faster with the benefit of improved efficiency.

Backfed Main at 1600 A
Main breaker and the I-Line™ stack in one single section to provide unmatched footprint performance.

Swingable Main
The main breaker assembly is mounted on a robust hinge system. This feature enables the use of cable pulling machines in the equipment space and exposes the wire terminals for easier and faster connection.

Bussing System
The bussing designs deliver reliable connections with quick and easy installation! Visi-tite™ bolts ensure proper torquing while the bus bridge connects all phases simultaneously in one simple operation. The bussing has an enclosed design which greatly reduces the points of exposed bus bars.
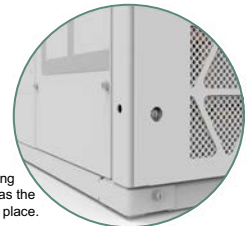
I-Line Bus Stack with Neutral Bar
The I-Line bus stack, which has been benefitting our customers for years, has now gotten even better by having the Neutral within the stack.
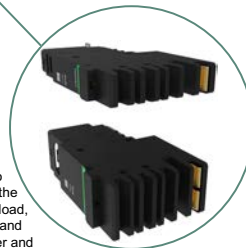
Captive Hardware
No lost time in removing and replacing covers as the hardware is always in place.

Plug-on Neutral
From Panelboards to Switchboards! Land the neutral closer to the load, reducing complexity and making wiring cleaner and more efficient.
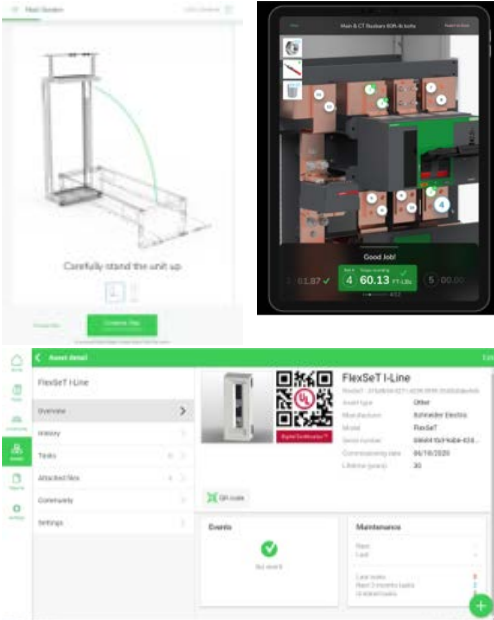
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Digital Journey and Tools

FlexSeT has taken advantage of the latest digital and end-to-end cyber-secured technology to drive customer satisfaction for the best possible experience throughout the lifecycle.

Digital tools are used in every aspect of the product starting at the quoting and ordering process with **FlexSeT Design™**. The new product selector is intuitive by nature and provides logic and pricing live at each selection, surfacing the right information to make informed decisions

Schneider Electric's **Asset Lifecycle Management™** (ALM) system tracks and stores all documentation for each feature and component of a FlexSeTSwitchboard. The documentation specific to each order and configuration is stored digitally, cyber-secured, and is accessible at anytime with a simple QR scan. This information is linked and stored directly from FlexSeTDesign and updated with any change.

The assembly process is executed with **FlexSeT Build™**, an interactive step by step guide for the assembler that help ensure the quality and integrity of the product. The app ensures each assembly step is properly executed from start to finish and inspected for compliance subsequently. Furthermore, FlexSeT Build™ is directly linked and paired with physical assembly tools that ensure proper technical aspects are adhered to, with live verification throughout the assembly. The testing of every section is also completed with FlexSeT Build™ as the last step. A successful result is required in order to generate and apply the UL label of certification. Each FlexSeTsection assembled will have a final report with Digital Artifacts and Photos for quality assurance and compliance.

The UL Mark and Certification Labels are issued digitally at the conclusion of each successful assembly. The auditing of an assembled FlexSeT switchboard is done via digital artifacts and critical quality data collected during assembly and quality control process.
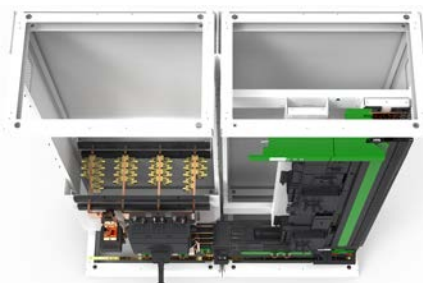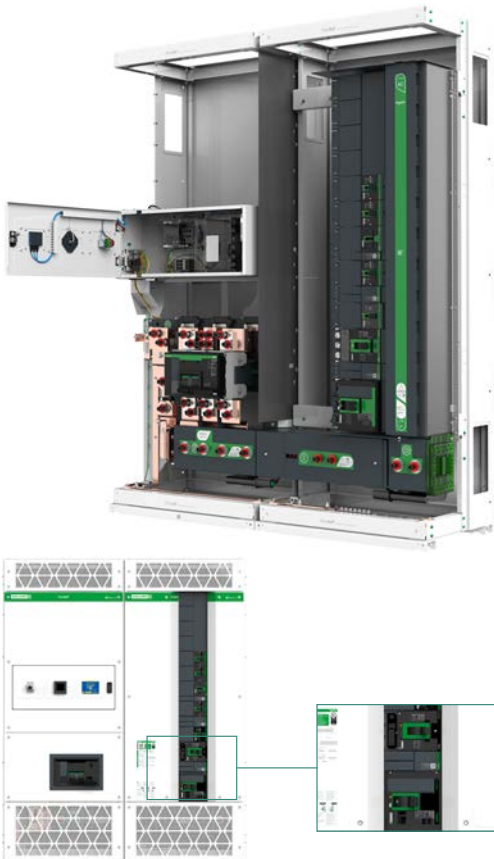
Features and Specifications Summary

Just like all Schneider Electric products, FlexSeT is always evolving to bring the best features to market with the latest technology, and will continue to develop and enhance customer solutions, constantly improving the offer!

Here are the latest features for FlexSeT Switchboards:

- Designed, listed, and assembled in accordance with UL 891 Standards
- NEMA 1 enclosure
- All front and side covers use captive hardware
- Front and rear accessible
- Swingable main breaker mounting assembly
- Main breaker ampacities—100% rated up to 65 kA
  - Backfed: 400 A, 600 A, 800 A, 1000 A, 1200 A, 1600 A
  - Individually mounted: 400 A to 2000 A

- All copper system bussing rated for 2000 A, including neutrals
- Plug-on neutral for group mounted devices
- 2000 A I-Line™ feeder section with neutral bar within the stack—feeders from 15 A up to 1200 A
- Splice bridge with extending bussing
- Visi-Tite™ bolts on all torque-required bussing connections
- Swingable instrument compartment—separated and modularized
- Available devices:
  - PowerLogic™ power meter PM5563
  - Surge protective device—rated up to 240 kA
  - Maintenance mode setting (MMS) switch—compliant with NEC 240.87 Arc Energy Reduction requirements
  - SmartCell™ compatible!

- Digital Asset Lifecycle Management—all drawings, test reports, and instruction/installation manuals are cyber-secured and available online

SWITCHBOARDS AND SWITCHGEAR

11

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11

SWITCHBOARDS AND SWITCHGEAR

Partner Support Program

The Partner Support Program is in place to support and grow our partner business through fast and reliable service using a best-in-class process that is simple and smooth. utilizing a self-help guide. A dedicated Partner Support Program specialist is assigned to each partner with the mission to support, train, and certify partners to build FlexSeT switchboards with the high level of quality and safety standards expected of Schneider Electric products, as well as provide an ongoing, dedicated, direct line of support.

Customer Care Center and Technical Support

For any inquiries on FlexSeT and other Schneider Electric products, please contact our customer service and technical support personnel at 1-888-778-2733 anytime. Our support teams can assist with any questions you might have and help you with the solutions you need.

Catalog of Kits and Parts

Use the commercial reference numbers listed in the following tables to order new/replacement kits and parts as needed. The modularity of the FlexSeTSwitchboard design makes it easy for the equipment to expand according to our customer needs. Many applications are retrofittable. New functionality can be added by purchasing the kits below and installing on existing installed equipment. Certain spare parts are provided for replacement as needed by the customer.

Please consult Schneider Electric instruction bulletins JYT1078000, *FlexSeT Switchboards*, or NNZ9919501, *FLEXPON 570/1200/1200S Plug-on Neutrals*, for references on certain selections, based on application and technical specifications.

Table 11.1: Field Installable—Individually Mounted Devices (Installed in the Instrument Compartment)

Kit Description	Application	Maximum Voltage	Catalog No.	Installation Site
Instrument compartment box [1]	Enclosure for MMS/Trip unit, PM 5563, and SPD	600	FLEXINSTRCOMP	Partner/Field
MMS/Trip unit	Incident energy reduction switch; Low/ no power circuit breaker trip	600	FLEXIMAMMS	Partner/Field
Power meter 5563	Power metering and monitoring	600	FLEXIMAMETER	Partner/Field
208 V SPD	Surge protection	208	FLEXIMA208SPD	Partner/Field
480 V SPD	Surge protection	480	FLEXIMA480SPD	Partner/Field
ENCT	Radial ground fault protection 400–2000 A	600	FLEXNCT2000	Partner/Field
120 Vac shunt trip [2]	Powerpact M/P/R remote tripping	600	S33661	Field
24 Vdc shunt trip [2]	Powerpact M/P/R remote tripping	600	S33659	Field

Table 11.2: Field Installable—Group Mounted Devices (Installed on the I-Line Stack)

Kit Description	Application	Maximum Voltage	Catalog No.	Plug-on Neutral Required	Installation Site
240 V MMS/Trip unit	Incident energy reduction switch; Low/no power circuit breaker trip	240	ICWL22X2BFMMMS	No	Partner/ Field
480 V MMS/Trip unit	Incident energy reduction switch; Low/no power circuit breaker trip	480	ICWL24X2BFMMMS	No	Partner/ Field
600 V MMS/Trip unit	Incident energy reduction switch; Low/no power circuit breaker trip	600	ICWL26X2BFMMMS	No	Partner/ Field
208 V SPD	Surge protection	220	FLEXGRP208SPD	Yes	Partner/ Field
480 V SPD	Surge protection	480	FLEXGRP480SPD	Yes	Partner/ Field
Power meter 5563	Power metering and monitoring	480	FLEXGRPPM5563	No	Partner/ Field
120 Vac shunt trip [2]	Powerpact M/P/R remote tripping	600	S33661	No	Field
24 Vdc shunt trip [2]	Powerpact M/P/R remote tripping	600	S33659	No	Field
1200 A plug-on neutral with sensor [3]	Neutral termination device with LSIG circuit breakers	600	FLEXPON1200S	—	Partner/ Field
1200 A plug-on neutral [3]	Neutral termination device	600	FLEXPON1200	—	Partner/ Field
570 A plug-on neutral [3]	Neutral termination device	600	FLEXPON570	—	Partner/ Field

[1]   Required for MMS/Trip unit, PM5563, or SPD installation only. An instrument compartment for field installation needs to be ordered with an instrument compartment cover (catalog number 80210-181-50) in theTable 11.4 FlexSeT Spare Parts, page 11-6 table. Not required for ENCT or shunt trip kits.
[2]   Shunt trip kits to be shipped from partner to field job site for contractor installation only.
[3]   Plug-on neutrals have limited amounts of devices that can be provided. Please consult the FlexSeT PON instruction bulletin (NNZ9919501) to determine the right allocation per circuit breakers and other devices.

3E

FlexSeT Circuit Breakers—Prewired for MMS and Ground Fault Applications

Please use the following table as a reference-specific circuit breakers. These circuit breakers are PowerPact™ Series with a wire harness pre-installed according to application needs. If MMS, or ground fault protection are needed in main or feeder applications, these circuit breakers must be used. These circuit breakers should not be installed in QED-2 Switchboards.

The I-Line™ feeder section in FlexSeT switchboards is fully compatible with any plug-on circuit breaker used in QED-2 Switchboards. The circuit breakers listed in the table are specific only to applications mentioned above, where a harness is provided for ease of installation.

Table 11.3: FlexSeT Circuit Breakers

Description	Application	Mounting Type	Trip Unit	Pre-Wired Harness	Catalog No.
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	I-Line Group Mounted	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJA36100U44AFLEX
600 V, 800 A circuit breaker	Main or feeder; MMS capable	I-Line Group Mounted	5.0 A (LSI)	MMS and Trip Unit Power	PJA36120U43AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	I-Line Group Mounted	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJA36120U44AFLEX
600 V, 400 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36040CU43AFLEX
600 V, 400 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36040CU44AFLEX
600 V, 400 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36040U43AFLEX
600 V, 400 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36040U44AFLEX
600 V, 600 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36060CU43AFLEX
600 V, 600 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36060CU44AFLEX
600 V, 600 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36060U43AFLEX
600 V, 600 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36060U44AFLEX
600 V, 800 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36080CU43AFLEX
600 V, 800 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36080CU44AFLEX
600 V, 800 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36080U43AFLEX
600 V, 800 A circuit breaker	Main or Feeder - MMS and Ground Fault Capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36080U44AFLEX
600 V, 1000 A circuit breaker	Main or Feeder - MMS Capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36100CU43AFLEX
600 V, 1000 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36100CU44AFLEX
600 V, 1000 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36100U43AFLEX
600 V, 1000 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36100U44AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36120CU43AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36120CU44AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	PJF36120U43AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LSIG)	MMS, Trip Unit Power, and ENCT	PJF36120U44AFLEX
600 V, 1000 A circuit breaker	Main or feeder; MMS and ground fault capable	I-Line Group Mounted	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKA36100CU44AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS capable	I-Line Group Mounted	5.0 A (LSI)	MMS and Trip Unit Power	RKA36120CU43AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	I-Line Group Mounted	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKA36120CU44AFLEX
600 V, 1000 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36100CU43AFLEX
600 V, 1000 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36100CU44AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36120CU43AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36120CU44AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36120U43AFLEX
600 V, 1200 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36120U44AFLEX
600 V, 1600 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36160CU43AFLEX
600 V, 1600 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36160CU44AFLEX
600 V, 1600 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36160U43AFLEX
600 V, 1600 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36160U44AFLEX
600 V, 2000 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36200CU43AFLEX
600 V, 2000 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36200CU44AFLEX
600 V, 2000 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36200U43AFLEX
600 V, 2000 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36200U44AFLEX
600 V, 2500 A circuit breaker	Main or feeder; MMS capable	Unit Mount	5.0 A (LSI)	MMS and Trip Unit Power	RKF36250U43AFLEX
600 V, 2500 A circuit breaker	Main or feeder; MMS and ground fault capable	Unit Mount	6.0 A (LISG)	MMS, Trip Unit Power, and ENCT	RKF36250U44AFLEX

11 SWITCHBOARDS AND SWITCHGEAR

3E

Spare Parts

These kits can be ordered for replacing parts, as necessary. The following table lists commercial kits for parts sold in individual or paired quantities. These kits can be ordered for replacing parts, as necessary. If a needed part or hardware is not listed, please contact Customer Service or the Partner Support Program Team.

Table 11.4: FlexSeT Spare Parts

Description	Catalog No.	Parts List
Instrument compartment front cover assembly	80210-181-50	—
Deadfront covers	80210-219-50	80210-070-50 80210-071-50
Barriers	80210-219-51	80211-011-01 80211-015-01
Vented covers	80210-219-52	80210-072-50 80210-073-50
Bracing	80210-219-53	2 x 80210-080-50
Rear corner channel	80210-219-54	2 x 80210-020-50
Front corner channel	80210-219-55	2 x 80210-013-01
Escutcheon package	80210-219-57	80210-095-50
RCC main package	80210-219-58	2 x 80210-020-51
Rodent Barrier	80210-219-59	2 x 80210-010-01
Access cover	80210-219-60	2 x 80210-003-01
Base assembly with rivets	80210-074-50	80210-074-50
Frame with ground bus	80210-087-50	80210-087-50
Frame with ground bus and lugs	80210-087-51	80210-087-51
1600 A MCCB backfed bus bar assembly	80210-090-50	—

11

SWITCHBOARDS AND SWITCHGEAR