

Electrical downtime is the worst scenario that can occur in industry, Commercial or infrastructure buildings.

The business is stopped, production and employees are idle.

Before to come to this fatality, there are measure that can be taken to avoid or minimize risks of failure.

This document will provide you with minimum information to make inventory of the electrical installation and provide short description of Services to offer your customers.

As recognized and trusted Partner from Schneider Electric in front of your Customer you will be able to make recommendation, propose or perform Services to keep its installation running at the optimum level of operation.







- Sell maintenance, contract, spare parts, modernization and digital services.
- Remain the first interlocutor to your customer, while services offers are executed by Schneider Electric's experts.









In addition to buy & resell services as EcoXpert power Upgrade & EcoXpert Power Services you can perform Services from essential to advanced level

- Differentiate from competitors with relevant services offers
- Boost employee expertise with dedicated training
- Become the solution provider and trusted advisor for your customer needs.

Benefit from Schneider Electric reputation and know-how

Local support all over the world. There are always Schneider Electric people close to you:

6200 services people in more than

88 countries

5% of sales devoted to R&D

Schneider Electric's policy has always been to provide you with very close support in your daily activities to enable you to achieve operational excellence.

The experience of a world leader in electrical distribution

Schneider Electric has been manufacturing LV and MV products for more than 50 years and have more than a million installed products and devices.

The Schneider Electric brand is known worldwide and recognized by the most demanding customers. You benefit from the experience and know-how in electric distribution, automation and power & control of a recognized global leader.

A long history of innovation for a global offer

As world leader, Schneider Electric has developed a large and comprehensive range of innovative devices.

You take benefit of a global leader experience and know-how in electric distribution, automation and power & control.

All the devices included in this overview have been designed and manufactured to incorporate the benefits of this extensive experience.

Manufactured as original

For services purpose, the life of the following equipment is extended by rebuilding them according to their original design.

Schneider Electric, a brand you can trust!

Support your customers to face the challenges of running electrical distribution equipment

As you are close to your customer and end-users

Becoming an expert in maintaining the availability and durability of electrical distribution installations with field and digital services, you can now maximize revenue with additional opportunities in Services.

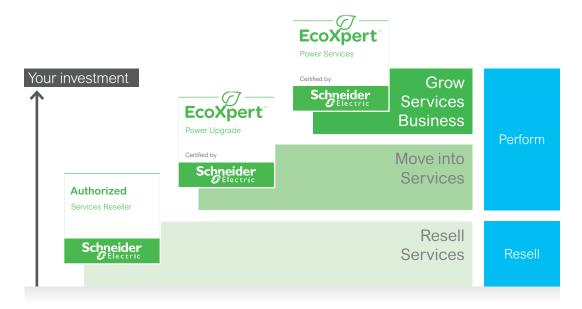
By choosing Schneider Electric as a partner, you can rely on trusted support, training on best-in-class operation & services, and certified recognition.

EcoXpert™ Power Services companies have some of the highest competencies in the industry and worldwide recognition in maintaining availability and sustainability of electrical installation and are at the edge of digital services.

Grow your business portfolio

- Differentiate from competitors with relevant Services offers
- · Boost employee expertise with dedicated training
- Be the solution provider and trusted advisor that your customer needs.

3 models to generate additional revenues in Services



Depending on your certification level, as a Service Provider partner, you get access to dedicated offer packages with Technical training, Tools and Remote Support.

Every year your company subscribes to the offer package to keep your skills up-to-date.

This yearly subscription allows you to be trained and certified each of the individuals in your Services team.

Resell for Certified Services Partners

Perform Services for all Services Partners qualified by Schneider Electric after technical training













Authorized

Low Voltage

Low & Medium Voltage

Offer

Partner Enablement Onsite

Essential

- Circuit-Breaker Advanced Testing feature in EcoStruxure Power Commission
- · Service Interface tool
- Remote support from Schneider Electric technician
- · Training how to sell

Benefits & Competencies

i can sell my own contract and I can do on-site services for low voltage equipment: Commissioning, Intermediate Maintenance, spare replacements.

Advanced

- Training Maintenance & spare replacement Training on Certified Maintenance & Critical Spares replacement
 - · Circuit-Breaker Advanced Maintenance feature in EcoStruxure Power Commission
 - · Service Interface tool
 - Remote support from Schneider Electric technician
 - Training how to sell

Benefits & Competencies

I can sell my own contract and I can do onsite services for low voltage & medium voltage equipment: Commissioning, Certified Maintenance, critical spare replacements.

Partner Enablement Digital

Digital Commissioning

- Training & Exclusive Access to EcoFit™ Life Extension Essential kits
- · Training on Connectivity
- Training on EcoStruxure Facility Expert Digital Logbook

Benefits & Competencies

I can digitally commission and install sensors and connect to local SCADA or cloud to monitor customer installation

Schneider Electric Connected Services Hub

· Access Schneider Electric cloud platform with advanced analytics and 24/7 remote and alarm monitoring

Benefits & Competencies

I can sell my own monitoring solution leveraging Schneider cloud-platform, analytics and 24/7 experts

Partner Enablement Onsite & Digital

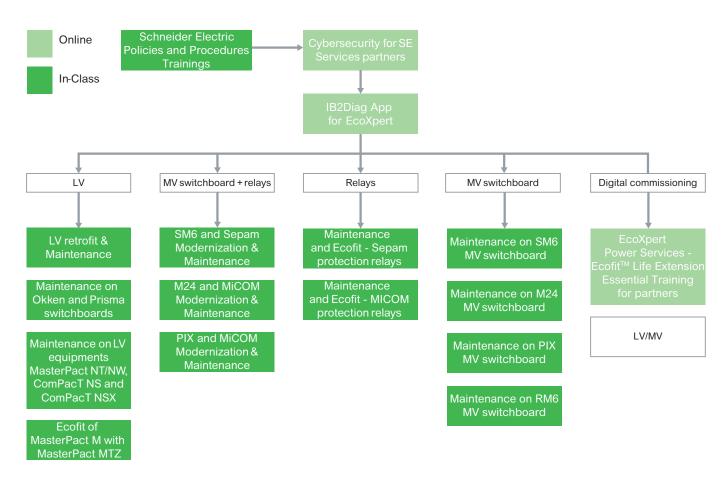
- Resell
- · Essential, Advanced
- · Digital Commissioning
- Schneider Electric Connected Services Hub

Increase your Expertise, Extend your opportunities



Get the basic and develop your knowledge and competencies according to the business you want to develop by following our training university courses.

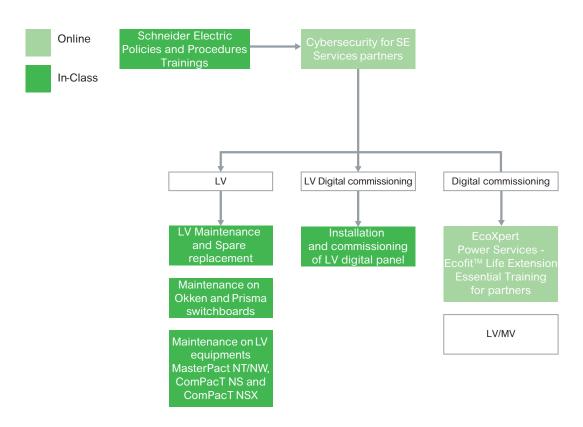
Training path for EcoXpert Power Services





Power Upgrade

Training path for EcoXpert Power Upgrade



How to use this catalog

This catalog is a tool to help you identify quickly all services you can propose to your customers to help them improve their operational efficiency, maintain their power availability and while keeping their installation and people safe

Identify the Equipment

- 1 Thanks to the picture and characteristics identify easily the product
- 2 Identify which offer you can Resell
- Select the commercial References of the Service type you need or Perform
- Build your chart using the price list provided by your local contact in Services

Icons represent service types



Authorized Partners (Available to Resell)



Power Upgrade certified EcoXpert (Available to Resell and Perform)



Power Services certified EcoXpert (Available to Resell and Perform)

Perform and resell Services

General Contents

Maintenance plan	p.	10
Access Testing and Execution tools	p.	15
Service Interface.	p.	15
Access to Field Services Execution tools	p.	16
OnSite ProDiag Breaker	p.	16
OnSite ProDiag MV Relay	p.	16
OnSite ProDiag Trip Unit	p.	17
OnSite ProDiag Cluster	p.	17
OnSite ProDiag Fuse	p.	18
OnSite ProDiag MV Oil	p.	18
EcoFit™ Life Extension Essential	p.	24
EcoFit™ Life Extension Advanced	p.	25
Spare part	D.	26

Maintenance plan



More Safety

For both the equipment and for the people working around it. Equipment that is serviced and maintained is safer and less prone to failures.



More Reliability

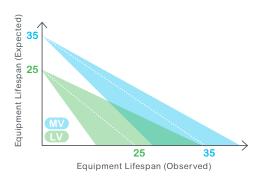
Maintenance helps assess the condition of stressed assets. Issues can be detected early and can be fixed before they cause a major problem.



Longevity

Equipment is kept at its most optimal through thorough and effective maintenance.

Helping the system to operate as long as it can to get the most out of it.



Improved Reliability Design Point Start up & Commissioning Modernization Monitoring Maintenance Aging | Design of long time | Des

Impact of maintenance, from theory to reality

Equipment is designed for a theorical lifespan duration (cf scheme). However, we observe that in real life if the equipment undergoes severe operating condition or is not well maintained the equipment Lifetime can be Drastically reduced.

Environmental Conditions

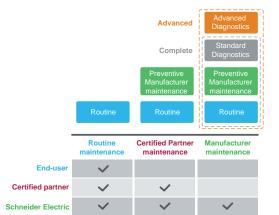
- Extreme temperatures / cycles
- Pollution (corrosive, saline, dust)
- Ventilation

Process Conditions

- Vibrations (mechanical)
- Electrical stress (high rush currents).

Asset Management

• Quality and frequency of proper maintenance.



Maintenance is a critical component of power system management

Offer Structure

Schneider Electric's maintenance offer is broken down into two key levels: "Complete" maintenance and "Advanced" maintenance.

Certified Partner maintenance is an offer for EcoXpert certified partners, allowed and trained to sell or sell/execute preventive maintenance to increase accessible market.

"Routine" maintenance is also presented to the customer in the offer structure, but it is included to explain that it is a component of a maintenance plan – note that we generally are not going to be the provider of routine maintenance services.

Note that manufacturer preventive maintenance, by definition, is limited to Schneider Electric equipment only.

Maintenance plan

Identify your level of intervention

Maintenance Services







Inspect			
Visual inspection	Exterior	Interior	Interior
Mechanical inspection	•	•	•
Device cleaning	•	•	•
Device operational test	•	•	•

Checking & Repair		
Disassembly	•	•
Component operational tests	•	•
Preventive replacement / Refitting (e.g. control units)	•	•
Repairs	•	•
OEM Spare Parts	•	•

Diagnose
Measurements (e.g. closing force)
ProDiag Fuse
ProDiag MV Relay
ProDiag Trip Unit
ProDiag Oil
ProDiag Breaker
ProDiag Clusters
ProDiag Corona (performed while energized)

Access Testing and Execution Schneider Electric suite of Proprietary Tools



Evaluates the external condition of the fuse, its internal resistance, and the condition of the MV switchgear compartment



Examines the MV protection chain between the relay tripping order and the opening of breaker main contacts

ProDiag MV Relay



Analyzes the condition of the trip unit based on protection settings, discrimination, breaking capacity, and historical data

ProDiag Trip Unit



Tests the transformer oil in a laboratory for signs oil degradation and a measure of overall oil health

ProDiag Oil



Assesses kinematic and electrical parameters of a device related to opening, closing, and charging functions



Tests the draw-out connections on LV and MV equipment, thanks to a surface visual inspection and a contact pressure measurement

ProDiag Clusters



Assesses the condition of MV devices to detect partial discharge on insulating parts, both superficial and internal

ProDiag Corona

EcoConsult Audit

Site assessment



Available to Resell



Enhance electrical equipment safety and reliability

Business continuity rely on the health of your electrical and automation systems. You deserve the industry best experts for your safety, resiliency, efficiency and sustainability. Our Consultants are mapping your electrical and automation assets and systems with best-in-class Software and Digital Twin technologies to provide actionable insights and deliver on critical business outcomes ranging from:

- Safety & Compliancy for your people and resources
- Efficiency OpEx on electrical and automation assets management
- Resiliency to keep business uptime
- Decarbonized, with Circularity, thru obsolescence and modernization plan combined with CO₂ calculation and Energy Efficiency thru power quality studies.

Your trusted experts are delivering recommendations thru mySchneider, our collaborative platform for easy prioritization, follow up, design and implementation.

Benefits of the EcoConsult Audit Essential assessment

Our Offer: EcoConsult Audit

Non-intrusive audit of your installed base of electrical distribution equipment. The aim of the audit is to assess its:



Visual State

Inspect and document that the overall state of the equipment and its environment are within specified operating conditions including but not limited to room temperature, airflow, dust contamination, deterioration, etc.



Maintenance State

Inspect and document that the type and frequency of equipment maintenance operations are within specified operating conditions including but not limited to testing, cleaning, etc.



Obsolescence State

Inspect and document the equipment's life-cycle / duty cycle status as well as the associated marketing and spare part guarantee periods and modernization plan(s).



Regulatory Compliance

Inspect and document safety risks as well as verify and document that the electrical distribution equipment and its environment is in compliance with local, state, and/or federal electrical safety regulations where applicable.

Install Based to Diagnostic Mobile App (IB2Diag) for EcoXpert with obsolescence report

Site assessment



Available to Resell and Perform



Perform site audit and generate business

Install Based to Diagnostic Mobile App for EcoXpert is an easy-to-use digital tool (mobile App) that supports the execution of sites assessment to provide:

- comprehensive service recommendations to customers
- generate service opportunities for EcoXpert partners.

Install Based to Diagnostic Mobile App tool allows you to identify opportunities based on customer assets captured and assessment you quickly perform at customer site.

IB2Diag tool allows you to identify opportunities based on customer assets captured and assessment you quickly perform at customer site.

- The Tool is available through mobile/tablet App
- Ergonomic and user-friendly interface
- Time-saving capture steps reduced to the essential
- The assets you capture via the App are identified as "managed by your company" meaning you are in charge of commercially managing the customers for the declared assets
- Generate obsolescence & recommendations report you can share with your customers
- Fuel Schneider Electric's business intelligence tools (named "digital opportunity factory") to receive qualified services business opportunities.

Benefit in Action

As an EcoXpert partner, I would like:

- a dedicated tool for me; not the tool available for everyone on the Store
- to perform a light site assessment to bring value to my customer and generate opportunities
- to provide a preliminary report to my customer on the same day of the assessment
- to provide a full Schneider Electric branded report with all recommendations to my customer some days after the assessment
- On-line training to utilize the application (e-learning)
- to get a list of opportunities and follow up.

Working principles



On-line / Off-line EcoXpert App to collect asset data and perform site assessment



 Synchronization of data to Schneider Electric cloud to complete recommendations



 Automatic generation of business opportunities visible by EcoXpert partner through MySchneider Opportunity portal



 Generate Automatic Schneider Electric branded report after Synchronization to be delivered to end-user by EcoXpert partner.

How to download the App

- The EcoXpert partner, once enrolled in the program, will receive a welcome email in order to promote/inform him about the launch of IB2Diag for EcoXpert.
- Promo video and tutorial linked will show to the partner how to access and use the App
- A Direct download link is included in the welcome mail
- Android: search for "IB2Diag" in Play Store and download

13

- iOS: Schneider Electric sends a specific link to download the App.

EcoXpert 2022 Support guide

Life Is On Schneider

EcoConsult Audit

Site assessment



Available to Resell



Labor time 1*		Commercial reference
Remote MPS Walkthrough	For 1 substation	FSC31
	Extension to 1 additional substation	FSC32
MPS Walkthrough Audit	For 1 substation time 1	FSC11
	1 additional substation time 1	FSC12
	For 1 substation time 1 (Distributor)	FSCADT
	For 1 additional substation time 1 (Distributor)	FSCADTADD
Electrical Fire Risk	Audit For 1 substation	FSC21
	Assessment extension to 1 additional substation	FSC22
Remote Electrical Fire Risk	Audit for 1 substation	FSC41
	Assessment extension to 1 additional substation	FSC42



Labor time 2*		Commercial reference
Remote MPS Walkthrough	For 1 substation	FSC31
	Extension to 1 additional substation	FSC32
MPS Walkthrough Audit	For 1 substation time 2	FSC13
	1 additional substation time 2	FSC14
	For 1 substation time 2 (Distributor)	FSCADTEH1
	For 1 additional substation time 2 (Distributor)	FSCADTADDEH1
Electrical Fire Risk	Audit for 1 substation	FSC21
	Assessment extension to 1 additional substation	FSC22
Remote Electrical Fire Risk	Audit for 1 substation	FSC41
	Assessment extension to 1 additional substation	FSC42



Labor time 3*		Commercial reference
Remote MPS Walkthrough	For 1 substation	FSC31
	Extension to 1 additional substation	FSC32
MPS Walkthrough Audit	For 1 substation time 3	FSC15
	1 additional substation time 3	FSC16
	For 1 substation time 3 (Distributor)	FSCADTEH2
	For 1 additional substation time 3 (Distributor)	FSCADTADDEH2
Electrical Fire Risk	Audit for 1 substation	FSC21
	Assessment extension to 1 additional substation	FSC22
Remote Electrical Fire Risk	Audit for 1 substation	FSC41
	Assessment extension to 1 additional substation	FSC42

Labor time 1: standard working days.
 Labor time 2: overtime.
 Labor time 3: public holidays.

Access Testing and Execution tools

Manufacturer maintenance Diagnose



Available to Resell and Perform



Available to Resell and Perform

Service Interface for MasterPacT NT/NW / ComPacT NS / PowerPacT P-, R-Frame

Service Interface is a portable test instrument designed for field testing. The Service Interface with part number LV485500 is used for testing and configuration of MicroLogic™ trip units mounted in the following low voltage circuit breakers:

- ComPacT NS 630b-1600 circuit breakers
- ComPacT NS 1600b-3200 circuit breakers
- PowerPacT P- and R- frame circuit breakers
- MasterPacT NT/NW circuit breakers.

The Service Interface replaces the test units such as Full Function Test Kit (FFTK) and Universal Test Adapter (UTA).

Technical data



- Single Connector Interface for multiple breaker modules
- Handheld formfactor
- Mini USB interface
- EPC as the local display
- 24 V at 120 mA Power output for external devices
- 12 kV+ safety isolation between user interface and Test port.

EcoStruxure™ Power Commission (EPC)

Is a global software with test functions features for testing the circuit breakers and communication accessories through the Service Interface.



Service Interface Contract Offer

The Power Services and Power Upgrade EcoXpert partners can order the following rental contract, included in Partner Enablement Onsite memberships

- 1 Service Interface tool
- 1 Service feature subscription in EcoStruxure Power Commission.

Description	Commercial reference
Essential: Annual fee for renting 1 Service Interface tool + 1 subscription to Circuit Breaker advanced maintenance feature in EcoStruxure Power Commission	FSM191
Advanced: Annual fee for renting 1 Service Interface tool + 1 subscription to Circuit Breaker advanced maintenance feature in EcoStruxure Power Commission	FSM193



Field Services Execution tools

Manufacturer maintenance Diagnose



Available to Resell

OnSite ProDiag Breaker

Diagnostic of electro-kinematic condition in medium voltage circuit breakers and contactors, or low voltage circuit breakers, draw-out or fixed



OnSite ProDiag Breaker

Protection of medium voltage or low voltage substations is commonly done by medium voltage circuit breakers and contactors or low voltage circuit breakers. A quick and more reliable opening is a strategic function to evaluate the full operating protection chain. Its fault detection capability and reaction speed, stops short-circuits development.

The aim of OnSite ProDiag Breaker diagnostic service is to mitigate the risk of medium voltage circuit breakers and contactors or low voltage circuit breakers electro-kinematic problems. It identifies the symptoms of degradation of the equipment before the issue happens avoiding unwanted effects like:

- premature wearing of internal moving parts
- · overheating and/or internal fires
- circuit breaker and switchgear destruction
- electrical room complete destruction.

OnSite ProDiag MV Relay

Diagnostic of medium voltage protection relays condition and configuration settings



OnSite ProDiag MV Relay

Accurate tripping time operation in accordance with medium voltage relay protection function settings defined for an electrical installation has always been mandatory for evaluating its protection performance, along with the circuit breaker trip chain operation (wiring, coil, circuit breaker opening).

The aim of OnSite ProDiag MV Relay diagnostic service is to mitigate the risk of medium voltage protection relay electronics problems. It identifies the symptoms of an undetected degradation of the equipment (tripping time drifts, wrong configuration settings) before the fault happen with unwanted effects like:

- unexpected blackouts
- downstream industrial equipment inefficiencies.

Field Services Execution tools

Manufacturer maintenance Diagnose



Available to Resell

OnSite ProDiag Trip Unit

Diagnostics of the circuit breaker tripping capability.



OnSite ProDiag Trip Unit diagnoses trip units on de-energized low voltage circuit breakers

OnSite ProDiag Trip Unit

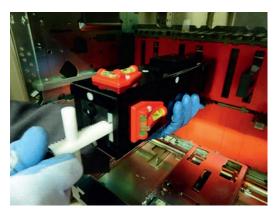
Accurate tripping time operation as per protection settings defined for an electrical installation is a strategic function for evaluating protection performance in network fault detection and tripping speed reaction.

Designed by Schneider Electric, OnSite ProDiag Trip Unit diagnostic offering mitigates the possibility of poor low voltage circuit breaker trip unit performance throught:

- · detection of tripping time drifts
- verification of low voltage circuit breaker and trip unit features according to electrical network characteristics (breaking capacity, discrimination)
- analysis of the history of alarms and events.

OnSite ProDiag Cluster

Diagnostic of draw-out equipment connections.



OnSite ProDiag Clusters diagnoses the condition of clusters on de-energized draw-out equipment

OnSite ProDiag Clusters

Accurate condition assessment of clusters connecting your draw-out low voltage and medium voltage equipment on your electrical distribution installation is a strategic function.

OnSite ProDiag Clusters allows maintenance managers to assess the last meter of power connections which are out of scope of thermography studies. This is needed when evaluating the condition of power distribution connections and the potential overheating (energy inefficiency) and thermal runaway inherent risks, specially in low voltage networks.

Electrical power connections on draw-out devices need special care because of the aging process caused by the regular maintenance works (draw in/draw out) and the stress related to site exploitation conditions. Connection clusters that are regularly assessed help to enhance power connection reliability and long-life to help to ensure the service continuity of your operations.

17

Field Services Execution tools

Manufacturer maintenance Diagnose



Available to Resell

OnSite ProDiag Fuse

Diagnostic of electrical condition in medium voltage fuses through early detection of its aging



OnSite ProDiag Fuse

Electrical power installations equipped with medium voltage switchgear with fuse protection shall be regularly checked (correct assembly, fuses electrical parameters, etc.) to confirm that their characteristics and performance comply with the original equipment and system specification.

The aim of OnSite ProDiag Fuse diagnostic service is to mitigate the possibility of process shutdown when operating under severe exploitation conditions because of premature aging of medium voltage fuse (destruction of fuse elements, thermal striker problems, etc.). Consequently, regular fuse diagnostic detects features outside of original technical specifications, as possible cause of effects like:

- thermal runaway (energy inefficiency)
- · medium voltage fuse internal fire
- medium voltage fuse, switchgear, and/or electrical room destruction.

OnSite ProDiag MV Oil

Dielectric fluid diagnostic for:

- distribution transformers
- · power transformers.



OnSite ProDiag Oil

Any industrial power infrastructure is equipped with distribution transformers and / or power transformers. Its mission is to transform power within medium voltage, or from medium voltage to low voltage under the most diverse operating conditions with maximum availability.

A transformer plays a critical role within any electrical distribution installation to improve maximum productivity.

OnSite ProDiag Oil diagnostic service identifies the symptoms of an undetected issue or dielectric degradation of the transformer to mitigate unwanted effects like:

- energy inefficiency (overheating)
- internal electrical arcing or fires
- transformer destruction.

EcoXpert 2022 Support guide

Life Is On Schneider

Upgrade MV/LV installations by adding digital communication capabilities

EcoFit™ Life Extension Essential



Available to Resell



Available to Resell and Perform



Available to Resell and Perform



Discover EcoFit™ Life **Extension Essential** kit offer in our Buy & Resell catalog

Unleash the power of connectivity with smart sensors, sub-assemblies and software updates. Upgrade your non-communicating equipment into connected assets to monitor and capture information on the health of your installation. Repair and fix your equipment to extend its life.

EcoFit™ Life Extension Essential helps you to upgrade your existing installation with smart sensors, transforming non communicating equipment into connected assets.

- · Prevent fire and corrosion risks
- Monitor environment condition and switching
- devices health
- Program periodic maintenance
- · Maximize continuity of service
- Safety and compliance with evolving industry standards and legislation

Resell: Partner can resell the offer thru transactional references in following pages. Commercial references will include the sensors and Field Sales Representative (FSR) from Schneider Electric Intervention.

Perform: Partner execute the installation of the sensors by selecting the commercial references in the following pages.



PowerLogic TH110

- Self-powered wireless sensors
- Installed in MV or LV junctions and customer cable connections
- Temperature measurements of one connection per PowerLogic TH110 on 24/7



PowerLogic CL110

- Wireless sensor battery powered (15 years)
- Installed inside electrical room, MV switchgears compartments or critical LVdrawers

 Temperature and ambient measurement 24/7

• Installed in pair to determine dew point



PowerLogic HeatTag

- Wireless sensor
- 230 V power supply
- Detects abnormal hot connections thru gas emissions (alert on material invisible transformation)
- · Early warning before any irreversible damage
- Only one device per column: easy and flexible to install
- 24/7 monitoring
- Easy to maintain and 10 year life duration without recalibration



PT100 (Trihal)

- · Digital thermal protection relay with PT100 probes
- Protects your transformer

- Provides real time monitoring of LV windings health
- Controls cooling fans operations

EcoFit™ Life Extension Essential: cross selection



SELECT SENSORS ACCORDING TO THE EQUIPMENT

	Fundament.			
	Equipment			
	MV switchboard MV/LV transformers		mers	LV switchboards
	SM6	Trihal	Minera	PrismaSet, Okken, Blok SeT
Type of sensor				
PowerLogic TH110	⊗			\odot
PowerLogic TH110	\odot			\odot
PowerLogic HeatTag				\odot
PT100		\odot		



SELECT THE LEVEL OF SERVICES



Nearby

Nearby App for Periodic Inspections (NFC + ETC App) Easergy Thermal Connect App monitors the sensors.





Local Substation Monitoring Display / SCADA

Local condition monitoring / thermal monitoring (SMD / SCADA) System commissioned with sensors.





EcoStruxure[™] Service Plan

Remote condition and thermal monitoring, EcoStruxure[™] Service Plan, System commissioned with sensors.



Upgrade MV/LV installations by adding digital communication capabilities

From local to remote: Define your level of service

We have a scalable monitoring offer for Low Voltage, Medium Voltage and Transformers, starting from local thermal App connection to monitor your installation up to local SCADA connection, Web Advisors & web Portal solutions









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Equipment	Digital components	Under monitoring	Problem detected	Thermal connect Apps
				Mobile phone (Android)
V Panel and CBs	PowerLogic TH110	CB connection temperatures Main incomes connection temperature	Loose of CB connection Loose of Main incomer connection	Instantaneous values pre-alarm & alarm threshold on demand (PDF) report generation
	PowerLogic CL110	Main Load Connection temperature Humidity	Condensation period	_
	HeatTag	Drawers temperatures monitoring Wires exhausted gas	Drawers connection overheating Cables overheating	- -
	Micrologic	CB heatlh status	CB mechanical or electrical issue and aging	_
	Power Meters	Power quality	Poor power factor, frequency lag, voltage variation,	
	Arc Flash	Arc detection	Limit arc energy emitted	
/IV Switchgear	PowerLogic TH110	Arm, busbar, cable connection temperature	Loose of connection	Instantaneous values pre-alarm & alarm threshold on demand (PDF) report generation
	PowerLogic CL110	Humidity	Condensation period	, ,
	Protection relay	CB heatlh status	CB mechanical or electrical issue	-
	HeatTag (LV compartment)	Wires exhausted gas	Cables overheating	-
	PDbox (2023)	Partial discharges	Partial discharge events	
	Arc Flash	Arc detection	Limit arc energy emitted	
ry Transformers Trihal	PowerLogic TH110	Connection temperatures	Loose of connection	Instantaneous values pre-alarm & alarm threshold on demand (PDF) report generation
	Protection relay + PT100	Windings temperature	Windings overheating protection	-
	,		Equipment aging	
Oil Transformers	PowerLogic TH110	Connection temperatures	Loose of connection	Instantaneous values
linera	PowerLogic CL110	Humidity	Condensation period	pre-alarm & alarm threshold on demand (PDF) report generation
		Tank temperature	Oil overheating	
	eDMCR	Oil level, pressure, temperature	Oil leakage, overheating, overpressure	-
	DGA	Hydrogen and moisture in oil monitoring	Lack of insulation	
Busway	PowerLogic CL110	Junction box temperature	Loose of connection	







Substation Monitoring	EcoStruxure Power	SCADA & Cloud	Electrical fire prevention
Device	Monitoring Expert	connection	
Front panel screen (Magelis)	PME in BOX or local scada	Web appls & web portal	Web appls & web portal
- Instantaneous values - Pre-alarm & alarm threshold	 Instantaneous values Real time monitoring and alarming Power event analysis Historical data analysis and trending Continue thermal monitoring Power quality monitoring Utility build verification Energy benchmarking Power quality compliance Energy efficiency compliance 	- Instantaneous values - Pre-alarm & alarm threshold - Historical and Chart - Periodical reports/analysis from Schneider Electric Expert - Electrical fire risk index - Maintenance index - Health index	 - 24/7 support Schneider Electric service hub - Instantaneous values - Pre-alarm & alarm threshold - Historical - On demand periodical reports and analysis - Automatic recommendations - Electrical fire risk index - Maintenance index
- Instantaneous values	- Instantaneous values	- Instantaneous values	- 24/7 support Schneider Electric
Pre-alarm & alarm threshold CB nearby control Periodic maintenance alarm	- Real time monitoring and alarming - Power event analysis - Historical data analysis and trending - Continue thermal monitoring - Power quality monitoring - Utility build verification - Energy benchmarking	- Pre-alarm & alarm threshold - Historical and Chart - Periodical reports/analysis from Schneider Electric Expert - Electrical fire risk index - Maintenance index - Health index	- Service hub - Instantaneous values - Pre-alarm & alarm threshold - Historical - On demand periodical reports and analysis - Automatic recommendations - Electrical fire risk index
	- Energy efficiency compliance		- Maintenance index
- Instantaneous values - Pre-alarm & alarm threshold	 Instantaneous values Real time monitoring and alarming Power event analysis Historical data analysis and trending Continue thermal monitoring Arc flash protection 	- Instantaneous values - Pre-alarm & alarm threshold - Historical and Chart - Periodical reports/analysis from Schneider Electric Expert - Health index	- 24/7 support Schneider Electric service hub - Instantaneous values - Pre-alarm & alarm threshold - Historical - On demand periodical reports and analysis - Automatic recommendations - Electrical fire risk index - Maintenance index
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	Historical data analysis and trending Continue thermal monitoring Arc flash protection	- Periodical reports/analysis from Schneider Electric Expert - Maintenance index - Health index	- Pre-alarm & alarm threshold - Historical - On demand periodical reports and analysis - Automatic recommendations - Electrical fire risk index - Maintenance index
	- Instantaneous values - Real time monitoring and alarming		
	- Power event analysis- Historical data analysis and trending- Continue thermal monitoring		
	+	+	+
	EcoStruxre Power Advisor	EcoStruxure Facility Expert	Ecostruxure Schneider Electric Service Plan
	Check PME data quality Increase Schneider Electric alarms reliability		- Maintenance contract

Life Is On Schneider

EcoFit™ Life Extension Essential

Local SCADA and Cloud connection



Available to Resell



Available to Resell and Perform



Available to Resell and Perform



EcoFit™ Life Extension Essential Generic kit 3 PowerLogic TH110 sensors + PTL (FSR43334)



Gateways Com'X

Schneider Electric will deliver the sensors and boxes already paired and configured, ready to be installed to upgrade the installation (according to the Schneider Electric training you will have received).

- Medium Voltage switchgear (SM6-24 for example) can be upgraded with 3 PowerLogic TH110 temperature sensors (FSR43342, FSR43333, FSR43334).
- Low Voltage switchgear can be upgraded with PowerLogic TH110 sensors (FSR43335, FSR43336, FSR43337, FSR43339 depending on the composition of the columns) and HeatTag sensor for Fire Prevention purposes (FSR43317).
- Dry (Trihal) and Oil Transformers (Minera) can be upgraded with:
- PowerLogic TH110 for connection temperature (FSR43338 for Trihal, FSR43341 for Minera)
- PowerLogic CL110 for Oil Thermal Sensors Minera transformer (included in the reference FSR43341).

Description		Commercial reference	
SM6 dedicated Kit			
SM6-QM-PM (SM6 kit for	QM cubicle)	FSR43342	
SM6-IM-SM-NSM-IMC (kit	t for SM6 before 1999)	FSR43333	
Generic kit for LV MV Tra	nsformer offer		
Generic Kit for ED	3 TH110 sensors	FSR43334	
	6 TH110 sensors	FSR43335	
	9 TH110 sensors	FSR43336	
	12 TH110 sensors	FSR43337	
	15 TH110 sensors	FSR43338	
	18 TH110 sensors	FSR43339	
	21 TH110 sensors	FSR43340	
	33 TH110 sensors	FSR43343	
Generic Kit for Oil Transfo	rmer	FSR43341	
Accessories and Gatewa	ays		
Ferromagnetic Ribbon		EMS59441	
Configurated Gateway (LAN)		FSR43330	
Configurated Gateway & 4G/5G modem		FSR43331	
Fire prevention HeatTag		FSR43317	

Architecture of the EcoFit™ Life Extension Essential



EcoFit™ Life Extension Advanced

Modernization



Available to Resell



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EcoFit™ selector: ecofit.schneider-electric.com ଜ

Try now our EcoFit environmental savings calculator (R)



The principle

- Modernizations with EcoFit[™] solutions consist of replacing only active constituents, such as protective relays, circuit breakers or contactors that have a shorter service life than the structure of electrical panels MV or LV.
- The renovation is carried out with a new range of devices allowing to benefit from new products of the latest generation. Thus, the renovation of the electrical apparatus in expiry or in definitive cancellation makes it possible to find the optimal conditions of safety and availability.
- EcoFit™ solutions are developed and industrialized by our teams to ensure both compliance with standards, the performance of the equipment in which they are inserted, the speed of implementation and the security of the Operators.

Examples of the equipment concerned

- · Circuit breakers and LV switches:
- MasterPacT M, DA, Selpact, Visu M by MasterPacT MTZ
- ComPacT C801 to C1251 fixed or withdrawable by ComPacT NS.
- MV switchgears, circuit breakers and MV contactors
- Merlin Gerin VM6
- Circuit breaker FB4 by SF1
- Areva Fluokit M24+
- Areva PIX RoF by PIX Easy.
- Protection relays
- Sepam 20 and 40 by Easergy P5
- Sepam 2000 by Sepam 60 or 80
- Areva MiCOM Px20 by Easergy P5.

Spare part kits

Spare part



Available to Resell and Perform



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State use

Why invest in kits?

Electronic board failures, due to aging, are usually sudden. This can lead to unplanned shutdowns which will significantly impact your operations.

Spare parts kits

The Lifecare kit is a spare-parts kit tailored to the specific technical parameters of your equipment.

Each Lifecare kit contains various components depending on your equipment:

- replacement circuit boards (PCBA)
- · replacement control board
- closing release PCBA
- opening release PCBA
- antipumping relays
- auxiliary relays.

Other accesories available on request.

Installation

Some Lifecare kits contain components that can only be replaced by authorized personnel. Please contact your Schneider Electric representative to organize tailoring and installation of the Lifecare kit.

Unique features

Electronic components used in low voltage and medium voltage switchgear are subject to the same breakdown risks due to aging as any other high-end electronic components for industrial applications.

To reduce the risk of unplanned shutdowns we recommend replacing the electronic parts in your switchgear within 10 years of installation for critical power applications and 15 years for all other applications.

EcoFit™ Circularity & Repairability Services

Maximizing your resiliency, efficiency and safety while minimizing waste for the Planet

Step into a new low-carbon, digital reality.

A reality in which Circularity approaches help ensure our resources don't end up as waste.

A reality in which Repairability principles allow you to extend the lifespan of your existing equipment by avoiding manufacturing new complete products, saving water, raw materials and CO₂.

A reality that helps unlock untapped opportunities for a safer, more efficient and responsible business environment.

That means using your products longer, caring for them, repairing them with new or second life spare parts, and when the time comes, recycling them.

That's why we designed $EcoFit^{TM}$ – to let your business do the right thing while prospering in the new reality.

Our Services Expert's approach for circularity & reparability is to provide a solution that minimize waste and maximize resiliency, efficiency and safety to make your business ready for the future.

EcoFit Life Extension and Replacement services

For your equipment are systematically combined with digital capabilities and take back solutions:

- Sensors and Connectivity are allowing innovative services plans to extend the life of your assets
- Our take back solutions allowing us to recover from greenhouse gas like SF₆, and to re-use, re-build and re-sell second life solutions.













Medium Voltage Switchgear

	Medium Voltage Switchgear PIX Standard PIX MV PIX Roll on the Floor SM6 FLUOKIT RM6	A-34 A-37 A-39 A-52
8	MV/LV Transformers Minera – Oil immersed Trihal – Cast resin	
****	Low Voltage Switchboards Okken Prisma Blok SeT	C-77
Ĭ,	Circuit Breaker HWX Medium Voltage vacuum circuit breaker EVOLIS Medium Voltage vacuum circuit breaker SF MV SF6 circuit breaker MasterPacT NT NW Low voltage circuit breaker ComPacT C801 ComPacT NS Low voltage circuit breaker	D-88 D-90 D-91
ф	Components Medium Voltage Instrument Transformer Medium Voltage Fuses	
P&C	Protection and Control Sepam Protection Relays MiCOM Protection Relays	

PIX Standard

Air insulated switchboard up to 24 kV Part of Set Series





PIX is an indoor switchgear assembly that provides maximum user safety, simplicity and reliability during installation, operation and maintenance. It meets all electrical distribution needs up to 24 kV and incorporates a set of innovative solutions.

Rated voltage	Ur	kV	12	17.5	24
Rated power frequency withstand voltage - 1 min	Ud (1)	kV	28	38	50
Rated lightening impulse withstand voltage - peak	Up	kV	75	95	125
Rated frequency	f	Hz	50/60	50/60	50/60
Rated short circuit breaking current	Isc	kA	up to 40	up to 40	up to 31.5
Rated short time withstand circuit	Ip at 50 Hz	kA	100	100	80
	Ip at 60 Hz	kA	104	104	82

⁽¹⁾ Ratings above IEC on request

Associated Services by badge level

		Authorized Services reseller	Certified EcoXpert partner			
			Power Upgrade		Power Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Certified					\odot
	Manufacturer	\odot			\bigcirc	
EcoFit™ Life extension Advance	d Protection relays	\odot				\bigcirc
Spare part	Spare part list	\odot				\bigcirc
EcoFit™ Life Extension Essential	Sensors TH110, CL110	\odot			\bigcirc	\bigcirc

Associated devices



Medium Voltage Switchgear

PIX Standard

Manufacturer Maintenance Execution tools



Available to Resell



Description		Commercial reference
Standard working hours		
Manufacturer Maintenance	PIX Circuit-Breaker	FSM20911
	PIX Fuse-Switch	FSM20931
	PIX Bus-Sectioning	FSM20971
	PIX Bus-Earthing	FSM20981
ProDiag MV Relay	Up to 2 functions performed during a maintenance	FSM201211
	Up to 10 functions performed during a maintenance	FSM201221
	Up to 2 functions performed out of a maintenance	FSM201251
	Up to 10 functions performed out of a maintenance	FSM201261
ProDiag Fuse	Performed during a maintenance	FSM201311
ProDiag Corona	Performed during a maintenance	FSM201611
	Performed out of a maintenance	FSM201651

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering ProDiag Fuse during maintenance in a public holidays: FSM201311 + FSM20034. For Pro-Diag applicable ranges please refer to Schneider Electric representative.

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PIX Standard

Modernization Protection relay

EcoFit™ Life Extension Advanced MiCOM P20 with Easergy P5





Available to Resell and Perform



Description		Commercial reference
EcoFit™ MiCOM	P120/1/2/3 with Easergy P5	FSRECOMIC120WP5
	P125/7 with Easergy P5	FSRECOMIC125WP5
	P126 with Easergy P5	FSRECOMIC126WP5
	P220/225 with Easergy P5	FSRECOMIC220WP5
	P921/2/3 with Easergy P5	FSRECOMIC92XWP5



Available to Resell



Product reference to order for the product plus the labor associated for the substitution

Description		Commercial reference
EcoFit™ MiCOM	P120/1/2/3 with Easergy P5	FSRECOMIC120WP5
	P125/7 with Easergy P5	FSRECOMIC125WP5
	P126 with Easergy P5	FSRECOMIC126WP5
	P220/225 with Easergy P5	FSRECOMIC220WP5
	P921/2/3 with Easergy P5	FSRECOMIC92XWP5
	Px20 with Easergy P5 installation Labor time 1	FSRECOMI20WP5INST
	Px20 with Easergy P5 installation Labor time 2	FSRECOMI20WP5INS1
	Px20 with Easergy P5 installation Labor time 3	FSRECOMI20WP5INS2
	Px20 with Easergy P5 installation Labor	FSRECOMI20WP5INST

Labor time 1: standard working days.

Labor time 2: overtime. Labor time 3: public holidays.

To configure products that are not showed in the reference list please use the EcoFit™ configurator:

Myecofit configurator (R)

Medium Voltage Switchgear

PIX Standard

EcoFit™ Life Extension Essential





Available to Resell

Available to Resell and Perform



Description	Commercial reference
Extra Hours Standard	
PIX upgrade with 3 TH110	FSRACOPIXTH110
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL110
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIAL
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE



Extra Hours 1	
PIX upgrade with 3 TH110	FSRACOPIXTH1101
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL1101
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX1
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIA1
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP1
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX1
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX1
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP1
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM1
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE1



Extra Hours 2	
PIX upgrade with 3 TH110	FSRACOPIXTH1102
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL1102
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX2
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIA2
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP2
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX2
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX2
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP2
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM2
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE2



Prepaired EcoFit[™] Life Extension Essential

Description		Commercial reference
Generic kit for LV/MV Tra	nsformer offer	
Generic Kit for ED	3 TH110 sensors	FSR43334
	6 TH110 sensors	FSR43335
	9 TH110 sensors	FSR43336
	12 TH110 sensors	FSR43337
	15 TH110 sensors	FSR43338
	18 TH110 sensors	FSR43339
	21 TH110 sensors	FSR43340
	33 TH110 sensors	FSR43343
Accessories		
Ferromagnetic Ribbon		EMS59441

PIX MV

Air insulated switchboard Part of Set Series





PIX-MV is equipped with a Vacuum Circuit Breaker. The fully metal clad design makes this product robust for all applications. It offers space saving and complies to IEC standards. This version has been optimized for the primary distribution range at 12 kV 25 kA 2000 A. PIX-MV is a cost-effective solution which is reliable, safe and easy to use.

Switchgear panel		[kV]	12
Rated voltage U _r		[kV]	12
Rated lightning impulse withstand voltage U _p		[kV]	75
Rated normal current I _r	Busbar	[A]	≤ 2000
	Feeder panel	[A]	
Rated peak withstand current I_p		[A]	≤ 66
Rated short-time current Ik (1)		[kA]	26.3 (3 s)
Rated frequency f _r		[Hz]	50

⁽¹⁾ The short-circuit capability of the current transformers must be considered separately.

Associated Services by badge level

PIX MV		Authorized Services reseller	Certified EcoXpert partner				
				Power Upgrade		Power Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform	
Maintenance	Certified					\bigcirc	
	Manufacturer	\odot			\bigcirc		
Spare part	Spare part list					\bigcirc	

Associated devices



Medium Voltage Switchgear

Spare parts PIX MV



Available to Resell and Perform

Description	Commercial reference		
Isolating Contact Flat type			
800/1250 A Isolating Contact 630 A x12	MVIG00134-01		
1600 A-2000 A Isolating Contact x24	MVIG00134-02		
Complete Vacuum Interrupter			
VG2 x3	DRCVG2002-01		
VG3 x3	VSLVG3002-01		
Breaker Housing	VOLVG0002 01		
HVX-LR Insulating Encloser Triple-pole x1	DRC006260-01		
HVX-HR Insulating Encloser x1	DRC006259-01		
Insulating ROD x3	DRCN03177-01		
	DICHOSTIT-01		
VCB Operating Mechanism	VDDE00004 05 LD		
W/O Coil & Motor HVX-LR 25 KA SPMX M2 Type Mechanism x1	VDRE00001-05-LR		
Closing Coil			
24 V DC x1	MVIE00233-01		
30 V DC x1	ECO27SN117700FN		
48/50 V DC x1	ECO27SN117800FN		
110 V DC x1	ECO27SN117900FN		
220 V DC for 11 kV Breaker x1	ECO27SN118000FN		
Tripping Coil			
24 V DC x1	MVIE00242-01		
30 V DC x1	ECO27SOG83600FN		
48/50 V DC x1	ECO27SOG83700FN		
110 V DC x1	ECO27SOG83800FN		
220 V DC for 11 kV Breaker x1	ECO27SOG83900FN		
Spring Charging Motor			
DC Motor 110 V x1	VDRE00100-01		
Motor x1	VDRE00100-02		
Breaker Auxiliary Switch			
6NO + 6NC Auxiliary Switch x1	MVIE00114-01		
Motor Cut-off Switch, Auxiliary Switch x1	EVU27S0307600NA		
Main Drive Shaft Assembly, Drive Linkage Assembly x1	MVIE00062-01		
Trip Fork Linkage Assembly, Drive Linkage Assembly x1	MVIE00072-01		
Ratchet Wheel Assly x1	MVIE00151-01_S		
Pin For Ratchet x1	MVIE00079-01		
Handle Block Assembly x1	MVIE00137-01		
Closing Coil Box Assembly (without Coil) x1	MVIE00082-01		
Trip Coil Box Assembly (without Coil) x1	MVIE00231-01		
Motor Cut Off Lever Assembly x1	MVIE00173-01		
Trip Prop Support Assembly x1	MVIE00023-01		
Release Lever x1	MVIE00123-02		
Pin For Release Lever PIN x1	MVIE00136-01		
Auxilary Switch Drive Assembly, Drive Linkage x1	MVIE00034-01		
Buffer For Spring Shock Absorber x1	MVIE00060-01		
Over Ride Stop Spacer x1	MVIE00013-09		
Over Ride Stop Pin Pin x1	MVIE00232-01		
Secondary Plug & Socket Components			
24 Pin Plug & Socket Assembly	MHU39S0019000FN		

Medium Voltage Switchgear

Spare parts PIX MV



Available to Resell and Perform

Description	Commercial reference				
Busbar and Cable Chamber	Arrangement (Mention Panel Ser	ial No.)			
800 A	Busbar Spout x1	R Phase	MVIF00072-02		
		Y Phase	MVIF00070-02		
		B Phase	MVIF00066-02		
	Circuit Spout x3		MVIF00073-02		
1250 A	Busbar Spout x1	R Phase	MVIF00072-01		
		Y Phase	MVIF00070-01		
		B Phase	MVIF00066-01		
	Circuit Spout x3		MVIF00073-01		
2000 A	Busbar Spout - Circuit Spout x6	R, Y, B Phase	VDRF00100-01		
	Busbar Spout Connection - Cassete Type Panel x1	R Phase	VDRF00182-01		
		Y Phase	VDRF00181-01		
		B Phase	VDRF00180-01		
	Circuit Spout Connection - Cassete Type Panel x3		VDRF00183-01		
	Busbar Spout Connection -	R Phase	VDRF00182-04		
	ROF Type Panel x1	Y Phase	VDRF00181-05		
		B Phase	VDRF00180-05		
	Circuit Spout Connection - ROF Type Panel x3		VDRF00183-02		
Racking, Shutter and Earthin	g Arrangement				
Rack - In/Rack - Out Handle	ROF Panel x1		VDRG00157-01		
	Cassette Type Panel x1		ST424-801-021		
Spring Charging Handle x1			MVIF00142-01		
Limit Switch Assembly x1			MVIF00372-01		













PIX Roll on the Floor

Air insulated switchgear up to 17.5 kV



A high performance and a high-quality Air Insulated Switchgear with a floor rolling Vacuum Circuit Breaker up to 17.5 kV, 31.5 kA and 2500 A.

Benefiting from the design of PIX range of switchgears.

Rated Voltage	12 kV	17.5 kV
Rated power frequency withstand voltage	28 kV	38 kV
Rated lightning impulse withstand voltage (BIL)	75 kV	95 kV
Rated frequency	50/60 Hz	50/60 Hz
Rated current	2 500 A	2 500 A
Rated peak current	82 kA	82 kA
Rated short time current (3 s)	31.5 kA	31.5 kA
Internal Arc Fault (1 s), AFLR	31.5 kA	31.5 kA
Degree of Protection	IP4X (41 op)	IP4X (41 op)
Partition Class	PM	PM
Loss of service continuity	LSC2B	LSC2B
Ambient Temperature (°C)	40/45 (option)	40/45 (option)

Associated Services by badge level

		Authorized Services reseller		Power Upgrade Power	t	
			Power I	Jpgrade	Power	Services
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Certified					\odot
	Manufacturer	\odot			\bigcirc	
Spare part	Spare part list					\bigcirc

Associated devices



Spare parts PIX Roll on the Floor



Available to Resell and Perform

Description			Commercial reference
Front Door - Accessories			
Front Door Pulling Handle x1			VDRB05950-03_S
Shutter			VDI\B03930-03_3
	600 mm x1		VDRI08000-03
Shutter Plate Assembly	-		
Rollers in SPEED x1	800 mm x1		VDRI08000-04
			VDRI08000-05
Coil for Solenoid Interlocking			
SPEED is Blocking Coil Pusbutton ON/OFF	24 V AC/DC	Term Box x1	ST436-101-230
Puspullon On/OFF	30 V AC/DC	Term Box x1	ST436-101-234
	48 V AC/DC	Term Box x1	ST436-101-238
	60 V AC/DC	Term Box x1	ST436-101-241
	110 V AC/DC	Term Box x1	ST436-101-241
	125 V AC/DC	Term Box x1	ST436-101-251
	230 V AC in SPEED	Term Box x1	ST436-101-359
Spout Assembly			
Busbar Spout Assembly	I ≤ 800 A SPOUT 800 A x1		VDRI08000-06
	800 A < I ≤ 1250 A SPOUT	Γ 800 A x1	VDRI08000-07
Busbar/Circuit Spout Assembly	1250 A < I ≤ 2000 A SPOL	JT 2000 A x3	VDRI08000-08
	2000 A < I ≤ 2500 A SPOU	JT 2500 A x3	VDRI08000-09
Busbar Spout Assembly	2500 A < I ≤ 3150 A SPOL	JT 3150 A x3	VDRI08000-10
Busbar/Circuit Spout Assembly	2500 A < I ≤ 3150 A x3		VDRI08000-11
Insulator			
Insulator for Voltage Indication	V ≤ 3.3 kV x1		VDRI00170-03
_	3.6 kV < V ≤ 6.6 kV x1		VDRI00170-04
	6.6 kV < V ≤ 12 kV x1		VDRI00170-05
	12 kV < V ≤ 17.5 kV x1		VDRI00170-01
Accessories			
Earthing Switch Lever Handle x	1		VDRI00925-03
Bar for Open-close Operation w	ith Stick x1		AGSH35446-01
Hand Crank for Charging the Me	echanism x1		AGSH30498-01
Breaker Rack - In/ Rack Out Hai	ndle x1		VDRG00157-02
Ramp for Circuit Breaker	For 600 mm width x1		VDRI00760-01
	For 800 mm width x1		VDRI00760-02

Note: Please consult us for minimum order quantity.



SM6

Air-insulated modular Switchboard up to 36 kV Original brand: Schneider Electric



A high performance and a high-quality Air Insulated Switchgear with a floor rolling Vacuum Circuit Breaker up to 17.5 kV, 31.5 kA and 2500 A.

Benefiting from the design of PIX range of switchgears.

Rated voltage	Ur	kV	7.2	12	17.5	24	36
Breaking capacity							
Transformer off load		Α	16				
Cables off load		А	31.5				50
Rated current	lr	А	400 - 630	-1250			630-1250

Associated Services by badge level

SM6		Authorized Services reseller	Certified EcoXpert partner			
			Power l	Jpgrade	ograde Power Serv	
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Certified					\bigcirc
	Manufacturer	\odot			\odot	
EcoFit™ Life extension Advanced	Protection relays	\odot				\odot
Spare part	Spare part list					\odot
EcoFit™ Life Extension Essential	Sensors TH110, CL110	\odot			\bigcirc	\bigcirc

Associated devices

Associated catalog

E



SM6

Manufacturer Maintenance - Execution tools



Available to Resell





Description		Commercial reference
Standard working hours		
Manufacturer Maintenance	Circuit-Breaker	FSM20411
SM6	Fuse-Switch	FSM20431
	Fuse-Contactor	FSM20441
	Others	FSM20491
ProDiag MV Relay	Up to 2 functions performed during a maintenance	FSM201211
	Up to 10 functions performed during a maintenance	FSM201221
ProDiag Fuse	Performed during a maintenance	FSM201311
ProDiag Corona	Performed during a maintenance	FSM201611
ProDiag diagnostic Fuse		FSMFUSE
Annual fee for renting	Micrologic testing tool to EcoXpert Power Services partners	FSMRENMTT
	Performer Plug tester to EcoXpert Power Services partners	FSMRENPPT

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering ProDiag Fuse during maintenance in a public holidays: FSM201311 + FSM20034. For Pro-Diag applicable ranges please refer to Schneider Electric representative.

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EcoFit™ Life Extension Essential

Sepam 20 and 40 with Easergy P5





Available to Resell and Perform





With Easergy P5	For busbar application	FSRECOSEP20WP5BUS
	For motor application	FSRECOSEP20WP5MOT
	For substation application	FSRECOSEP20WP5SUB
	For transformer application	FSRECOSEP20WP5TRA
With Easergy P5	For motor application	FSRECOSEP40WP5MOT
	For substation application	FSRECOSEP40WP5SUB
	For transformer application	FSRECOSEP40WP5TRA
	With Easergy P5	For substation application For transformer application With Easergy P5 For motor application For substation application



Product reference to order for the product plus the labor associated for the substitution

Available to Resell



Labor time 1: standard working days. Labor time 2: overtime.

Labor time 3: public holidays.

To configure products that are not showed in the reference list please use the EcoFit™ configurator:

Myecofit configurator @



EcoFit[™] Life Extension Essential

Sepam 2000 with Sepam 60/80



Available to Resell and Perform



FSRERESEPBBS80A

Perform EcoFit™ Sepam 2000 with Sepam 60/80

Description			Commercial reference
ECOFITSEPAM Appli Bus Bar	To S80	Advanced	FSRERESEPBBS80A
		Basic	FSRERESEPBBS80B
		Medium	FSRERESEPBBS80M
ECOFITSEPAM Appli Capacitor	To C86	Advanced	FSRERESEPCAPC86A
		Basic	FSRERESEPCAPC86B
		Medium	FSRERESEPCAPC86M
ECOFITSEPAM Appli Differential	То Т8Х	Advanced	FSRERESEPDIFT8XA
		Basic	FSRERESEPDIFT8XB
		Medium	FSRERESEPDIFT8XM
ECOFITSEPAM Appli Generator	To G8X	Advanced	FSRERESEPGENG8XA
		Basic	FSRERESEPGENG8XB
		Medium	FSRERESEPGENG8XM
ECOFITSEPAM Appli Motor	To M8X	Advanced	FSRERESEPMOTM8XA
		Basic	FSRERESEPMOTM8XB
		Medium	FSRERESEPMOTM8XM
ECOFITSEPAM Appli SubSatation	To S8X	Advanced	FSRERESEPSUBS8XA
		Basic	FSRERESEPSUBS8XB
		Medium	FSRERESEPSUBS8XM
ECOFITSEPAM Appli Transformer	То Т8Х	Advanced	FSRERESEPTX8XA
		Basic	FSRERESEPTX8XB
		Medium	FSRERESEPTX8XM



Resell EcoFit™ Sepam 2000 with Sepam 60/80

Available to Resell



Description		Commercial reference
ECOFIT site survey	Standard Hours	FSROSITESURVEY
	Extra Hours 1	FSROSITESURVEYEH1
	Extra Hours 2	FSROSITESURVEYEH2
ECOFITSEPAM 2000 Install,	Standard Hours	FSRERESEPINSTALL
Test and Commissioning	Extra Hours 1	FSRERESEPINSTEH1
	Extra Hours 2	FSRERESEPINSTEH2
ECOFITSEPAM software migration	on service	FSRERELAYLOGIPAM

EcoFit™ Life Extension Advanced

Sepam 2000 with Sepam 60/80 order form

End customer:				
Customer ID code:		Country:		
Order n°:		Contact email:		
Person to contact:				
Fax:		Phone:		
		Expected delivery date:		
Shipping adress:		<u> </u>		
Original application Motor application	Confirmation of the original reference ⁽¹⁾	Options (S60/S80) Number of Identical ECOFIT	Choice confirmation	
M06		Sepam 2000 case type	S25/S26	
M07, M08, M14			S35/S36	
M02, M03, M04, M15		Man Machine Interface Type	Advanced	
M05, M09, M11, M16			Mimic based	_
M20, M21, M22, M23 Substation application		Communication protocol (TCP/IP firmware always provided)	IEC61850 or Modbus TCF Modbus RS485	_
S02, S07		Communication media (if Ethernet)	RJ45	
S06			FO	
S03, S08, N14 (UK only)		Other options from S2000	Choice	
S09		With customised Logipam (Y / N) ⁽²⁾	Yes	
S01		Descriped LIMI leasures of different	No EN (UIC)	-
S04, S05 SX1, SX2		Required HMI language if different from EN / FR	EN (UK) FR	
Busbar application		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ES	
B02, B04			BR	
B07			CN	
B12			DE 	
B01, B03 Transformer application with	cout tomporature concer		IT RO	
T07, T12, T13	lout temperature sensor	1	CH (German)	
T01, T09, T14, T17, T19			TR	
T03, T06, T15, T18			TH	
T02, T10		_	UA (Russian)	
T04, T11 T05, T16		_	UA EN (US)	
Transformer application with	n temperature sensor	Number of connected ESTOR board	EN (US)	
T27, T32, T33	Temperature sensor	Required polarity for logical. Inputs,	Standard	
T21, T29, T34, T37, T39		when non standard:	Н	
T23, T33, T35, T38		(G=220/250 VDC ; H=110/125 VDC)	G	
T22, T30		VT connection arrangement	3 VTs	_
T24, T31 T25, T36		-	2 VTs 1 VT	H
Generator application			1 V0	
G01, G05, G07			Other	
G02, G06, G08		Sepam 2000 Power Supply voltage	24 VDC	
G12, G13			48 VDC	
G03 G04		-	110/125 VDC	
G04 G17		-	220/250 VDC 220/250 VAC	
G18		-	Unknown	
G15		24 VDC Power Supply delivery	Yes	
G16		for the ACE949-2 Modbus module	No	
Capacitor bank application		Confirm if you want a specific	S81	
C02, C04, C06 C08		application (only if different from the proposed one)	S82 S84	
C01, C03		p. speedd diid)	M81	
Transformer and generator	bloc group application		M87	
D02, D22 (former D01, D21)]	M88	
Line application			T82	
L66			T87	_
Other specific application no	ot covered		G87 G88	\vdash
Please, confirm here	Other		B83	

(1) Write a "X" in front of the original Sepam 2000 application in case of unique name, or the name of the original application if multiple choices are proposed (This selection will define the new Sepam type within the series 60 or 80, its hardware configuration and its application). The name of the original application is repeated on the EcoFi™ name plate reference. (2) If a choice is possible between Sepam Serie 80 or 80, the Year (Y) choice will force the delivery of a Sepam Serie 80. This will be the case if the original control logic provided with the Sepam 2000 has been customised or if the Sepam 2000 is connected to a supervision using different addresses for remote controls (TS/TC), than those configured in factory.

EcoFit™ Life Extension Advanced

Sepam 2000 with Sepam 60/80

Complementary questions for engineering quotation	Choice	
Do you have the ability to migrate the Logipam from Sepam 2000 source to Sepam 80 serie?	Yes	
(If "Yes", engineering will not be quoted, as an option)	No	
If No, can you get the Logic files (*.srl) and setting file (*.par) as soft copy or only pdf form?	*.sri files	
	pdf / paper	
	Nothing available	
Can we consider that all selected Sepam 2000 relays (if more than 1) have similar logic files?	Yes	
, , , , , , , , , , , , , , , , , , ,	No	
	Unknown	
If No, how many kind of different logics do you have within the list of Sepam relays?		
Complementary Questions for Technical Design only (from Site Survey or Electrical drawings)	Choice	
Can you confirm if existing Sepam 2000 is using Clock synchronisation logical input	Yes	
	No	
	Unknown	
If Yes, on which ESTOR board is connected this synchronisation input	ESTOR 1	
· · · · · · · · · · · · · · · · · · ·	ESTOR 2	
	Not used	
Tripping Logic with O1 contact.	NO	
Confirm if existing Sepam 2000 relay is using a Normally Open (O1 NO) tripping Contact ONLY or Normally	NC	
closed (O1_NC) trip contact or a Normally Open (O1_NO) for tripping logic + (O1_NC) for interlocks.	NO & NC	
If NC, an auxiliary relay will be provided and mounted to inverse the tripping logic.	Unknown	
Are the above Sepam 2000 connected to a remote station using Modbus protocol?	Yes	
	No	
	Unknown	

To request for a quote, please send an email to your sale representative.



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SM6

Spare Parts SM6 24 kV



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Description			Commercial reference
Voltage Presence Indicato	r (Onsite)		<u>'</u>
MUA Voltage Presence	VPIS VO	7.4	SPKVPI62413
		10.7	SPKVPI62414
		32.5	SPKVPI62417
		47.2	SPKVPI62418
	VPIS	7.4	SPKVPI62403
		10.7	SPKVPI62404
		32.5	SPKVPI62407
		47.2	SPKVPI62408
Tripping releases and char	rging motor (O	nsite)	
Release	24 V DC		SPK0008SM6
	48 V DC		SPK0009SM6
	127 V AC		SPK0010SM6
	110 V D	C, 137 V DC, 220-230 V AC	SPK0011SM6
	220 V DC, 380 V AC		SPK0012SM6
Undervoltage Release O.M. B1	24 V DC		SPK889772AB
	48 V DC		SPK889772AE
	110 V D		SPK889772AH
	125 V D		SPK889772AJ
	220 V DC		SPK889772AM
Kit Motor and Relay	24 V DC		SPK3730318B
	48 V DC		SPK3730319B
	110 V D		SPK3730320A
	125 V D		SPK3730321A
	127 V AC	C 50 Hz	SPK3730322A
	220 V AC	C (for CL1 and CL2)	SPK3730323A
	127 V AC	C 60 Hz	SPK3730324A
	220 V AC		SPK3730325A
	220 V AC	CCIT	SPK3730329A
	220 V AC	C 60 HZ CIT	SPK3730331A
	110 V D	COIT	SPK3730326A
	220 V D0	COIT	SPK3730365A
Operating accessories			
Operating lever			SPK0017SM6

Medium Voltage Switchgear SM6 Spare parts SM6 24 kV



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Description			Commercial reference
Relay Kit (Lifecare)			
Relay Kit	127 V AC		SPKRXM4AB1F7
	220 V AC		SPKRXM4AB1P7
	24-32 V E	C	SPKRXM4AB1BD
	48-60 V E	C	SPKRXM4AB1ED
	110-127	/ DC	SPKRXM4AB1FD
	220 V DC		SPKRXM4AB1MD
PCBA Relaying Plate SM6/	RM6		SPK51238606F0
Printed Circuit CI1 IM C			51238633F0
PCBA Plug			SPK3729211
Medium Voltage Fuses (O	nsite)		
Fusarc CF IND / OUT	7.2 kV	6.3 A	SPK51100049MB
		16 A	SPK51100049MD
		40 A	SPK51100049MH
		63 A	SPK51100049MK
		80 A	SPK51100049ML
	12 kV	6.3 A	SPK51006511M0
		16 A	SPK51006513M0
		40 A	SPK51006517M0
		63 A	SPK51006519M0
		80 A	SPK51006520M0
	24 kV	6.3 A	SPK51006538M0
		16 A	SPK51006540M0
		40 A	SPK51006544M0
		63 A	SPK51006546M0
		80 A	SPK51006547M0
Solefuse	5.5 kV	6.3 A	SPK757328BC
	7.2 kV	16 A	SPK757328BE
		63 A	SPK757328BK
	17.5 kV	80 A	SPK757328DL
	24 kV	6.3 A	SPK757328EC
		16 A	SPK757328EE
		43 A	SPK757328EJ
		63 A	SPK757328EK

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Spare Parts SF for SM6 24 kV



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Description		Commercial reference
Closing Release	24 V DC	SPK889705AM
	24 V DC, 110 V 50 Hz, 120 V	SPK889705AL
	48 V DC 50 Hz	SPK889705AP
	48 V DC, 220 V 50 Hz, 240 V	SPK889705AH
	220 V DC	SPK889705AC
O C Release	110 V DC T2	SPK887191HF
	120125 V DC T2	SPK887191HE
Opening Release	220 V AC, 240 V	SPK889705BH
1 Coil shunt	48 V DC	SPK889705BJ
	110 V DC	SPK889705BE
Opening Trip Coil 30 CVV	110 V AC	SPK889705BL
Release	2432 V DC, 110 V AC 50 Hz	SPK0039SF1
	2432 V DC, 110120 V AC 50/60 Hz	SPK0003SFS
	3032 V DC, 110120 V AC 50/60 Hz	SPK887191HK
	48 V DC, 220240 V AC 50/60 Hz	SPK0028SF1
	48 V DC, 230 V AC 60 Hz	SPK0002SFS
	4860 V DC, 220240 V AC 50/60 Hz	SPK0001SFS
	60 V DC, 220240 V AC 50/60 Hz	SPK0007SM6
Release A1 B1 C1 T1	110 V DC	SPK0026SF1
	110 V DC, 125 V DC	SPK0034SF1
	120125 V DC	SPK0025SF1
	220 V DC	SPK0032SF1
Release A1 B1 C1 T2	24 V DC, 48 V DC	SPK887191HM
	220 V DC	SPK887191HC
Release A1 B1 C1 T1 T2	48 V AC 110 to 10 V AC 50 Hz	SPK887191HN
	110125 V DC	SPK887191HD
	220 V DC	SPK887191HA
Release B1	48 V AC 50 Hz	SPK0041SF1

SM6

Spare Parts SF for SM6 24 kV



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EcoFit™ Life Extension Essential



Available to Resell







Commercial reference
FSRACOSM6TH110
FSRACOSM6TH110QM
FSRACOSM6TH110IM
FSRACOSM6CL110
FSRACOBUSWAYCL110
FSRACOSMDBOX
FSRACOSATMODSERIAL
FSRACOSATMODTCP
FSRACODIGITALBOX
FSRACOSMDCOMXBOX
FSRACOCOMXSTEUP
FSRACO3G4GMODEM
FSRACOSLDUPDATE







Labor time 2	
SM6 upgrade with 3 TH110 (MAT + LABOR)	FSRACOSM6TH1101
SM6 QM upgrade with 3 TH110 + Adaptation kit (MAT + LABOR)	FSRACOSM6TH110QM1
SM6 IM<1999 upgrade with 3 TH110 + adaptation kit (MAT + LABOR)	FSRACOSM6TH110IM1
SM6 upgrade with 2 CL110 (install + MAT + LABOR)	FSRACOSM6CL1101
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL1101
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX1
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIA1
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP1
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX1
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX1
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP1
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM1
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE1







Labor time 3	
SM6 upgrade with 3 TH110 (MAT + LABOR)	FSRACOSM6TH1102
SM6 QM upgrade with 3 TH110 + Adaptation kit (MAT + LABOR)	FSRACOSM6TH110QM2
SM6 IM<1999 upgrade with 3 TH110 + adaptation kit (MAT + LABOR)	FSRACOSM6TH110IM2
SM6 upgrade with 2 CL110 (install + MAT + LABOR)	FSRACOSM6CL1102
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL1102
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX2
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIA2
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP2
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX2
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX2
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP2
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM2
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE2

Labor time 1: standard working days.

Labor time 2: overtime.
Labor time 3: public holidays.

SM6

EcoFit™ Life Extension Essential



Available to Resell and Perform













Prepaired EcoFit™ Life Extension Essential

Description		Commercial reference
Configurated Digital box for 7 c	ubicles max	FSR42111
Configurated Digital box from 8	to 14 cubicles max	FSR42112
Set of 3 temperature sensors for	r SM6 - QM	FSR42301
Set of 3 temperature sensors for	r SM6 - IM before 1999	FSR42302
Set of 3 temperature sensors for	r SM6 - IM after 1999	FSR42303
Set of 2 humidity sensors for SM	M6	FSR42304
Configurated SMD MV Box		FSR43303
Configurated Satellite Modbus S	Serial Box	FSR43304
Adaptation kit for ArcFlash prob	pe installation	FSR43329
Configurated Gateway (LAN)		FSR43330
Configurated Gateway & 4G/5G	Modem (LAN)	FSR43331
Dew Point Kit for SMD (without 0	CL110)	FSR43332
Material: SMD + SMS Modem -	Labor: configuration	FSR43305
Material: Digital box configurate	ed to be connected to LAN - Labor: configuration	FSR43306
Material: Digital box + 4G Mode	em configurated - Labor: configuration	FSR43307
Material: NFC tag paired - Labo	r: configuration, green NFC	FSR43308
Material: NFC tag paired - Labo	r: configuration, white NFC	FSR43309
Material: SMD box (version 1) - SMD configuration / per substat	Labor: repairing of sensors to Zigbee receiver + tion	FSR43310
Material: SMD box V2 - Labor: p	pairing + configuration, per substation (SMS)	FSR43311
Material: SMD box V3 - Labor: p	pairing + configuration, per substation (LAN)	FSR43312
Material: Digital box - Labor: pa	iring + configuration, per substation (LAN)	FSR43313
Material: Digital box - Labor: pa	iring + configuration, per substation (4G)	FSR43314
Material: Gateway - Labor: insta	III and configure Gateway in SMD box	FSR43315
Material: Gateway + 4G/5G Mod Modem in SMD box	dem - Labor: install and configure Gateway & 4G/5G	FSR43316
Material: HeatTag - Labor: Pairir	ng to Zigbee receiver	FSR43317
Configurated Satellite Modbus	ICP Box	FSR43318
Material: NFC tag paired - Labo	r: config & Install, green NFC	FSR43319
Material: NFC tag paired - Labo	r: config & Install, white NFC	FSR43320
Material: SMD box (version 1) - SMD configuration / per substat	Labor: repairing of sensors to Zigbee receiver + tion	FSR43321
Material: SMD box V2 - Labor: p	pairing, config & inst. / per substation (SMS)	FSR43322
	pairing, config & inst. / per substation (LAN)	FSR43323
Material: Digital box - Labor: pa	iring, config & inst. / per substation (LAN)	FSR43324
Material: Digital box - Labor: pa	iring, config & inst. / per substation (4G)	FSR43325
Material: Gateway - Labor: insta	Ill and configure Gateway in SMD box / per substation	FSR43326
Material: Gateway + 4G/5G Mod Modem in SMD box / per substa	dem - Labor: install and configure Gateway & 4G/5G ation	FSR43327
Material: HeatTag - Labor: pairing	ng to Zigbee receiver	FSR43328
SM6 dedicated Kit		
SM6-QM-PM		FSR43342
SM6-IM-SM-NSM-IMC		FSR43333
Generic kit for LV MV Transform	ner offer	
Generic Kit for ED	3 TH110 sensors	FSR43334
233.10 (10.10) 20	6 TH110 sensors	FSR43335
	9 TH110 sensors	FSR43336
	12 TH110 sensors	FSR43337
	15 TH110 sensors	FSR43338
	18 TH110 sensors	FSR43339
	21 TH110 sensors	FSR43340
	33 TH110 sensors	FSR43343
Accessories		. 565.15
Ferromagnetic Ribbon		EMS59441
TOTTOTTIAGNETIC MIDDUIT		LIVIOUSTT I

FLUOKIT M24 / M24+

Air-insulated modular Switchboard up to 24 kV

Original brand: AREVA - Schneider Electric





FLUOKIT M24



FLUOKIT M24+

Medium Voltage air-Insulated modular switchboard for underground secondary distribution up to 24kV. Containing fixed or withdrawable circuit breaker, using SF6 breaking technology, switch-disconnector and contactor.

Rated voltage (kV)	7.2	12	17.5	24
Rated withstand voltage					
Rated lightning impulse withstand voltage (kVc)	Directly earthed	60	75	95	125
	On the sectionalized distance	70	85	110	145
50 Hz 1 min. (kVrms)	Isolation	20	28	38	50
	Disconnection	23	32	45	60

Associated Services by badge level

FLUOKIT		Authorized Services reseller	Certified EcoXpert partner			
			Power Upgrade		Power Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Certified					\odot
	Manufacturer	\odot			\bigcirc	
EcoFit™ Life extension Advanced	Protection relays	\odot				\odot
Spare part	Spare part list	\odot				\bigcirc
EcoFit™ Life Extension Essential	Sensors TH110, CL110	\odot			\bigcirc	\bigcirc

Associated devices



FLUOKIT M24 / M24+

Manufacturer Maintenance - Execution tools



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Description		Commercial reference
Standard working hours		
Manufacturer Maintenance	FluoKit Circuit-Breaker	FSM21411
	FluoKit Fuse-Switch	FSM21431
	FluoKit Others	FSM21491
	FluoKit Switchgear Time 1	FSM21401
	FluoKit Switch IS LST NS DD Time 1	FSM21421
	FluoKit Metering TM Time 1	FSM21461
ProDiag MV Relay	Up to 2 functions performed during a maintenance T1	FSM201211
	Up to 10 functions performed during a maintenance T1	FSM201221
ProDiag Fuse	Performed during a maintenance	FSM201311
ProDiag Corona	Performed during a maintenance	FSM201611

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering ProDiag Fuse during maintenance in a public holidays: FSM201311 + FSM20034. For Pro-Diag applicable ranges please refer to Schneider Electric representative.

FLUOKIT M24 / M24+

Modernization Protection relay EcoFit™ Life Extension Advanced MiCOM P20 with Easergy P5





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Product reference to order for the product exchange only



Description			Commercial reference
ECOFIT MICOM	With Easergy P5	P120/1/2/3	FSRECOMIC120WP5
		P125/7	FSRECOMIC125WP5
		P126	FSRECOMIC126WP5
		P220/225	FSRECOMIC220WP5
		P921/2/3	FSRECOMIC92XWP5



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Description			Commercial reference
ECOFIT MICOM	With Easergy P5	P120/1/2/3	FSRECOMIC120WP5
		P125/7	FSRECOMIC125WP5
		P126	FSRECOMIC126WP5
		P220/225	FSRECOMIC220WP5
		P921/2/3	FSRECOMIC92XWP5
	With P5 installation	Px20 Labor time 2	FSRECOMI20WP5INS1
		Px20 Labor time 3	FSRECOMI20WP5INS2
		Px20 Labor time 1	FSRECOMI20WP5INST
		Px20 Labor	FSRECOMI20WP5INST

Labor time 1: standard working days.

Labor time 2: overtime.

Labor time 3: public holidays.

To configure products that are not showed in the reference list please use the EcoFit™ configurator:



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Additional functions and transformations

- Examples of possible operations for Fluokit M24, M24+ switchboards:
- heating resistance,
- current transformer.
- Contact your usual Schneider Electric contact.

LV Compartment		Commercial reference
Power supply	230 V AC / 24 V DC 7 Ah ICH 5 A - IDC 1.4 A P 30 W	372879-001
	230 V AC / 48 V DC 14 Ah ICH 5 A - IDC 2.8 A D 120 W	372879-002
Presence light upstream / dow	nstream voltage Ø 4 mm	416920-101
/oltage test box		391438
Current test housing		819677-001
Polarity test housing		823497-001
Printed circuit board /	After 2009 timed	RUW101MW
Schneider relay	After 2009 temporized V AC 120 V AC	RPM41F7
	After 2009 temporized V AC 230 V AC	RPM41P7
Circuit board /	After 2009 temporized V DC 24 V DC	RPM41BD
Schneider relay	After 2009 temporized 48 V DC	RPM41ED
Schneider relay PCB	After 2009 temporized 110 V DC	RPM41FD
Printed circuit board / Schneider sensing relay (1)	After 2006 November 2007	ST442-020-006
04X Directional Fault Detector	Protection Relay	(1)
DAX voltage detector		(1)
OPX protection relay -1		(1)
DMX complete enclosure		(1)
DAX-I		(1)
Relay finder (1)	After 2008 temporized 120 V AC	ST435-070-350
	After 2008 temporized 230 V AC	ST435-070-359
	After 2008 temporized 12 to 240 V DC / V AC	ST435-070-002
	After 2008 temporized 24 V DC	ST435-070-230
	After 2008 temporized 48 V DC	ST435-070-238
	After 2008 temporized 110 V DC	ST435-070-248
	After 2008 temporized 125 V DC	ST435-070-251
	After 2008 temporized 220 V DC	ST435-070-258
Relay finder - header (1)	After 2008	ST435-070-001
TEC relay	Base 1804	2735549
0	Base 1804 120 V AC	2735271
	Base 1804 230 V AC	2735269
	Base 1804 24 V DC	2735268
	Base 1804 48 V DC	822740-001
	Base 1804 110 V DC	822740-003
	Base 1804 125 V DC	822740-002
Time delayed GAT-ET relay	24 V DC 0.2 to 2.5 s or 2 to 20 s	2735532
Timo dolayod or ii zi Tolay	24 V DC 15 to 180 s or 120 to 1500 s	2735531
Others rpt relays	24 V DC to 125 V DC	823406-001
Others relay RPTI	48 V DC	823443-003
Others relay IPT (1)	48 V DC	ST442-020-006
Others relay if T Dthers relay circuit board EDF 48 V DC)	Before 2009	M10589-001
/isible switch for secondary /T breaking	After 2004	642226-020
Rotary Switch		ST443-011-250
Neutralization connection Rotary Switch	After 2011	AMT150933-01
Neutralization for Rotary Switch (1)	After 2004	ST443-011-090

(1) Consult your sales representative.

References can be ordered by sending an email to your sales representative.

References in red are critical parts whose replacement operation poses a safety risk.

They cannot be ordered directly and require a consultation for a quote from Schneider Electric.

FLUOKIT M24 / M24+

Spare part list





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CT compartment	t			Commercial reference
Current transformer	Before 1993			(1)
	After 1993			(1)
Other current transformer				(1)
Current transformer	Class 0.2S Fs < 10 lth 1 s	12.5 kA 5 VA	10P10 50-100/5-1	823475-018
RKF24 7.5 VA			10P10 100-200/5-1	823475-019
			10P30 50-100/5-1	823475-020
			10P30 100-200/5-1	823475-021
Current transformer	Class 0.2S Fs < 10 lth 1 s	12.5 kA 5 VA	10P30 50-100/5-1	357304-012
SW45 7.5 VA			10P30 100-200/5-1	357304-013
			10P30 200-400/5-1	357304-014
Current transformer	After 1993 others			(1)
Current transformer ring BTF	100 R primary rated current	25 A 25 / 1 A		438866-103
	200 R primary rated current	25 A 25 / 1 A		BTF-200R
	Others			(1)
Connection				(1)

VT compartmen	nt		Commercial reference
Voltage transformer	Class 0.5 - 1.9 Un / 8 h	15-20 kV√3 100/√3 100/3 50 VA	357885-003
Y24MB (ex Y24MR)		20 kV/3 2 x100/√3 2 x 15 VA	357885-006
		20 kV/3 2 x100/√3 2 x 30 VA	357885-005
Voltage transformer Y24PB (ex Y24PR)	Class 0.5 - 1.9 Un / 8 h	15-20 kV√3 100/√3 100/3 20-30 VA	357860-001
Voltage transformer	Class 0.5 - 1.9 Un / 8 h	20 kV√3 100/√3 100/3 15 VA	357860-004
Y24MB (ex Y24MR)		20 kV√3 100/√3 100/3 30 VA	357860-002
	Class 1 - 1.9 Un / 8 h	15-20 kV√3 100/√3 100/3 50 VA	357860-003
Voltage transformer UKP 24/3	Class 0.5 150-200 VA - 1.9 Un / 8 h	15-20 kV√3 100/√3 - 20-30 VA	823392-001
	Class 0.5 200 VA - 15-20 kV√3 100/√3 - 15 VA 1.9 Un / 8 h 20 kV√3 100/√3 - 30 VA	15-20 kV√3 100/√3 - 15 VA	823392-005
		823392-002	
Voltage transformer	Class 0.5 - 1.9 Un / 8 h	15-20 kV√3 100/√3 - 30 VA	823391-002
UKM 24/3		15-20 kV√3 2 x100/√3 - 2 X 30 VA	823391-003
Other VTs			(1)
VT Fuses		12 kV FT4	455604-016
Insulator			(1)
Resistance kit RSVB	40 x 370 mm		642241-020

⁽¹⁾ Consult your sales representative.

References can be ordered by sending an email to your sales representative.

References in red are critical parts whose replacement operation poses a safety risk. They cannot be ordered directly and require a consultation for a quote from Schneider Electric.



FLUOKIT M24 / M24+ Spare part list

Cable compartment			Commercial reference
Braid connection	ST 80 mm		642234-020
Downstream ISR/ST link braid connection	A TC PGC		642234-021
ISR/ST downstream	A TC link braid conr	nection with PGC tores	642234-024
ISR link braid / circuit breaker connection			642234-022
Connection connection link trolley with ground circuit			642234-023
Fixing cables / cells kit clamping cables	For 1 cables		625682-001
Fixing cables / cells clamping kit	2 cables per phase		625683-001
Porthole			642240-020
Capacitive Insulator	FD fuse		642221-030
(PF-PFA functions)	FN fuse		642221-031
Capacitive Insulator	FD L512 PFA with C	Т	642221-034
	For L362 PFA fuse v	vith CT	642221-035
	IS-PGC		642231-020
	In case of False CT		642231-021
	IS		642232-024
Heating resistance kit heating resistance	110 V DC		642233-020
	220 V DC		642233-021
Tolerie & Accessories grip			642240-021
Busbar compartment			
Busbar deflector 400-630 A			642222-001
Busbar ends deflector 1250 A			642222-002
Fuse equipment			
Fixation (collar, clamp)	Contact Set with	Fuse FN	642221-028
	blown fuse lever	Fuse FD	642221-029
	Downstream tulip	Fuse FN	642221-032
		Fuse FD	642221-033
	Capacitive	FD Fuse L512	642221-034
	insulator kit	FD Fuse L362	642221-035
Blown fuse	Blown fuse kit for 3 cables		642238-001
	Blown fuse indicator		642239-001

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FLUOKIT M24 / M24+

Spare part list



Available to Resell

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Switch		Commercial reference
Medium Voltage fuses (Onsite)		
Mechanism	C410 (LIGHT) right side	642223-028
	C410 S PGC right side	642223-026
	C410 PGB-PGC left side	642223-020
	C410 XS (LST)	642223-027
	C410M without electrical equipment	642223-021
	C430	642223-022
	C430M without electrical equipment	642223-023
	C440	642223-024
	C440M without electrical equipment	642223-025
	Replacement of C410 by C410M	642086-002
Auxiliary contacts kit	LV auxiliary contact with runner	642235-020
•	Kit 2 LV auxiliary contact with simulated runner + support	642235-021
	LV auxiliary contact	642235-022
Closing or tripping coil	120 V AC	642224-026
0 0	230 V AC	642224-027
	24 V DC	642224-021
	48 V DC	642224-022
	110 V DC	642224-023
	125 V DC	642224-024
	220 V DC	642224-025
Undervoltage tripping coil	110 V DC-120 V AC	642225-023
	220 V DC-230 V AC	642225-024
	24 V DC	642225-020
	48 V DC	642225-021
	125 V DC	642225-022
	Undervoltage tripping coil support	642225-026
C410 Motor	110-125 V AC / V DC	642236-022
	220-230 V AC / V DC	642236-023
	24 V DC	642236-020
	48 V DC	642236-021
C430/C440 Motor	110-125 V AC / V DC	642236-026
	220-230 V AC / V DC	642236-027
	24 V DC	642236-024
	48 V DC	642236-025
Maintenance and Tools		
Tooling phase concordance box	5 kV ≤ Us ≤ 7.2 kV	AMT150384-01
	10 kV ≤ Us ≤ 24 kV	AMT150384-02

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Medium Voltage Switchgear FLUOKIT M24 / M24+

Spare part list

Control panel		Commercial reference
Disarming lever C440		AMT100510-01
C4xx operating handle		AMTF25493-02
Voltage indicator box		642232-020
Voltage detection system	3 kV ≤ U < 5 kV	642232-021
	5 kV ≤ U ≤ 7.2 kV	642232-022
	10 kV < 11 < 24 kV	642232-023

Moving part	Commercial reference
Wheel	DRCW00024-01
Lever	468133-001
Breastplate	(1)

Earth disconnector	Commercial reference	
Mechanism disconnector kit cross membe	642221-036	
Contact set (jaw + contact + shell)	IS Icc 16 kA 3S/24 kV - 20 kA/17.5 kV	642221-020
	IS Icc 16 kA - 2CS/phase	642221-021
	PGB/PGC Icc 16 kA with TC	642221-022
	IS/PGC Icc 25 kA 1 s/17.5 kV - 20 kA / 24 kV	642221-023
Contact set (jaw & contact + shell)	Icc 25 kA - 2CS/phase IS	642221-024
	Icc 25 kA with CT IS	642221-025
Contact set (jaw & contact + fuse shell) + melting fuse lever	Blown fuse lever FN	642221-028
	Blown fuse lever FD	642221-029

Locking	Commercial reference
Lock / key	(1)
Locking accessories	(1)

(1) Consult your sales representative.

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RM6

Medium Voltage Ring Main Units up to 24kV

Original brand: Schneider Electric



The RM6 is a compact and very reliable Gas Insulated ring main unit combining all MV functional Units to enable the connection, supply and protection of transformers or feeders on an open ring or radial network. Together with Easergy T300 RTUs, it is smarter and meets the needs of utilities, infrastructure, buildings & industries.

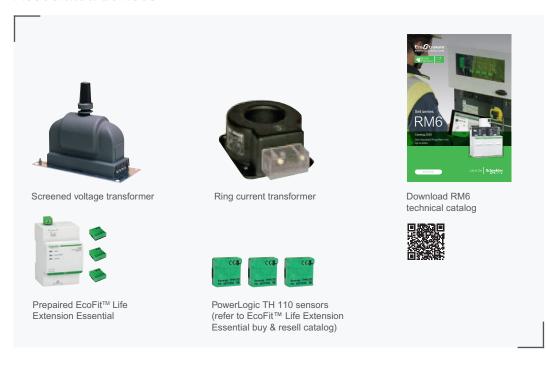
Rated voltage		Ur (kV)	12	17.5	24
Frequency		f (Hz)		50 or 60	
Insulation level					
Industrial frequency	Insulation (1)	Ud (kV rms)	28	38	50
50 Hz 1 min.	Insulation (2)	Ud (kV rms)	32	45	60
Impulse 1.2/50 µs	Insulation (1)	Up (kV peak)	75	95	125
	Insulation (2)	Up (kV peak)	85	110	145
Tank internal arc withstand				20 kA 1 s	

- (1) Phase-to-phase, phase-to-earth.
- (2) Across the isolating distance.

Associated Services by badge level

RM6		Authorized Services reseller	Certified EcoXpert partner			
			Power Upgrade		Power Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Certified					\odot
	Manufacturer	\odot			\bigcirc	
EcoFit™ Life Extension Ac	dvanced Protection relays	\odot				\bigcirc
Spare part	Spare part list					\bigcirc

Associated devices



RM6



Available to Resell

Manufacturer Maintenance - Execution tools



Description		Commercial reference
Standard working hours		
Manufacturer Maintenance	RM6 Circuit-Breaker	FSM20711
	RM6 Switch	FSM20721
	RM6 Fuse-Switch	FSM20731
	RM6 Double-disconnector Circuit Breaker	FSM20751
	RM6 Voltage Transformer	FSM20761
	RM6 Others	FSM20791
ProDiag MV Relay	Up to 2 functions performed during a maintenance T1	FSM201211
	Up to 10 functions performed during a maintenance T1	FSM201221
ProDiag Fuse	Performed during a maintenance	FSM201311
ProDiag Corona	Performed during a maintenance	FSM201611
Annual fee for renting	Micrologic testing tool to EcoXpert Power Services partners	FSMRENMTT
	Performer Plug tester to EcoXpert Power Services partners	FSMRENPPT

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering ProDiag Fuse during maintenance in a public holidays: FSM201311 + FSM20034. For Pro-Diag applicable ranges please refer to Schneider Electric representative.

RM6

EcoFit™ Life Extension Essential



Available to Resell







Description	Commercial reference
Labor time 1	
RM6 upgrade with 9 TH110 (MAT + LABOR)	FSRACORM6TH110
RM6 upgrade with 2 CL110 (MAT + LABOR)	FSRACORM6CL110
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL110
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIAL
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE







Labor time 2	
RM6 upgrade with 9 TH110 (MAT + LABOR)	FSRACORM6TH1101
RM6 upgrade with 2 CL110 (MAT + LABOR)	FSRACORM6CL1101
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL1101
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX1
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIA1
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP1
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX1
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX1
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP1
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM1
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE1





Labor time 3	
RM6 upgrade with 9 TH110 (MAT + LABOR)	FSRACORM6TH1102
RM6 upgrade with 2 CL110 (MAT + LABOR)	FSRACORM6CL1102
Busway jonction box upgrade with 2 CL110	FSRACOBUSWAYCL1102
SMD Box (without COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDBOX2
Satellite Modbus Serial receiver (MAT + LABOR)	FSRACOSATMODSERIA2
Satellite Modbus TCP receiver (MAT + LABOR)	FSRACOSATMODTCP2
Digital box including COMX for EAA (MAT + LABOR)	FSRACODIGITALBOX2
SMD Box (with COMX) up to 16 cubicles (MAT + LABOR)	FSRACOSMDCOMXBOX2
COMX setup and commissioning (LABOR)	FSRACOCOMXSTEUP2
3G/4G MODEM setup to EAA connection (MAT + LABOR)	FSRACO3G4GMODEM2
Existing SLD update and inst report delivery (LABOR)	FSRACOSLDUPDATE2

Labor time 1: standard working days.

Labor time 2: overtime.
Labor time 3: public holidays.



Description		Commercial reference
Generic kit for LV MV Tra	nsformer offer	·
Generic Kit for ED	3 TH110 sensors	FSR43334
	6 TH110 sensors	FSR43335
	9 TH110 sensors	FSR43336
	12 TH110 sensors	FSR43337
	15 TH110 sensors	FSR43338
	18 TH110 sensors	FSR43339
	21 TH110 sensors	FSR43340
	33 TH110 sensors	FSR43343
Accessories		
Ferromagnetic Ribbon		EMS59441



RM6 Spare parts list

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Cable box		Commercial reference
Connection		
LPVT and accessories		03816498N0
LPVT installation kit including LPVT-free communication kit and accessories		NVE40487
Accessories (hub)		EMS59573
Single-pole cable guide		851878
Motor Fuses		
Time delayed fuses	120-127 V AC 50-60 Hz	HUA29453
	220-230 V AC 50-60 Hz	HUA29454
	24 V DC	HUA18915
	48-60 V DC	HUA29452
	110-125 V DC	HUA29453
	220 V DC	HUA29454
No time delay	24 V DC	29743211EE
	≥ 48 V DC	29743211DH
Mecanical mechanism		
Mechanism	Switch mechanism	51193845FA
	Circuit Breaker mechanism	51193845FC
	Q mechanism	51193845FD
Position Contact		
Changeover Micro-switch		1CDE008764
No close on fault Micro-sw	vitch	51009573FA
Micro-switch	NO	51238613F0
	NC - before july 2015	51238614F0
	NC - after july 2015	NHA52934
Cloising and Opening Co	oil .	
Function B / D / Q	127 V AC 50-60 Hz	SPK0010SM6
	220 V AC 50-60 Hz	SPK0011SM6
	380 V AC 50-60 Hz	SPK0012SM6
	24 V DC	SPK0008SM6
	48 V DC	SPK0009SM6
	110 V DC	SPK0011SM6
	220 V DC	SPK0012SM6
Undervoltage coil		
Function B / D	120 V AC 50-60 Hz	AAV29676
	220 V AC 50-60 Hz	AAV29678
	24 V DC	AAV29672
	48-60 V DC	AAV29673
	110-125 V DC	AAV29676
	220 V DC	AAV29678
Function Q	120 V AC 50-60 Hz	AAV29670
	220 V AC 50-60 Hz	AAV29671
	24 V DC	AAV29668
	48-60 V DC	AAV29669



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RM6

Spare parts list



Available to Resell



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CT box		Commercial reference
Coil multi voltage		(1)
Relay support	Before 2010	BBV35323
Operating lever		
L	134 mm	1796452
	240 mm	3724510K
	433 mm	51194152F0
MITOP Kit D mechanism	1	51193845FE

Mechanism				Commercial reference
Motor Kit				
Function B / D	24 V DC			51193931FA
	48-60 V DC			51193931FB
	110-127 V D	С		51193931FC
	220-230 V D	С		51193931FE
Function I / P / Q	24 V DC			51071816A1
	48-60 V DC		SPK0060RM2	
	110-127 V DC			51071816C1
Motor (only)	220-230 V AC 50/60 Hz		997935	
function B / D / I / P / Q	220 V DC			997935
Relay Kit				
Before 2 april 2004	Function D Kit s	Kit support + relay	24-32 V DC	51259933A1
			48-60 V DC	51259933B1
			110 V DC	51259933D1
	Function I	Kit support + relay	48 V DC	51259932B1
		Voltage relay kit RV 10)	3725573
After 2 april 2004	Function D	Support only (for relay TYCO, REPC	DL & ZELIO)	51238606F0
	Function I	Voltage relay kit RV 10)	3725573

⁽¹⁾ Consult your sales representative.

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RM6 Spare parts list



Mechanism (continued)	Commercial reference
Relay	
24-32 V DC	1REM008617
48-60 V DC	1REM008618
60 V DC	1REM008619
110 V DC	SPK0014SM6
120-137 V DC	1REM008621
220 V DC	1REM008622
127 V AC 50-60 Hz	1REM008624
220 V AC 50-60 Hz	1REM008625
Motorized mechanism	
Gear motor	982250
Motorization Kit (for references below)	(1)
Function B / D	
24 V DC	51009476FA
48 V DC	51009477FA
60 V DC	51009478FA
110 V DC	51009479FA
125 V DC	51009480FA
220 V DC	51009485FA
110-127 V AC 50 Hz	51009481FA
220-230 V AC 50 Hz	51009482FA
60 Hz	51009483FA
	51009484FA
Function I	
24 V DC	51008240FA
48 V DC	51008241FA
60 V DC	51008242FA
110 V DC	51008243FA
125 V DC	51008244FA
220 V DC	51008249FA
110-127 V AC 50 Hz	51008245FA
220-230 V AC 50 Hz	51008246FA
60 Hz	51008247FA
	51008248FA
Function Q after 28 february 2010	
24 V DC	BBV26484
110-127 V AC 50 Hz	BBV26490
220-230 V AC 50 Hz	BBV26491
60 Hz	BBV26492
	BBV26493

Motorization Kit	Commercial reference
48 V DC	BBV26485
60 V DC	BBV26486
110 V DC	BBV26487
125 V DC	BBV26488
220 V DC	BBV26489
Heating resistor	
Switch mechanism	51191956FA
Circuit Breaker mechanism	51191956FC
Fault Trip indication kit	
Trip indication kit for D Function	51009574FA
Trip indication kit for Q function with w/o motorization bloc	51008257FA
With motorization block	BBV26749

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RM6

Spare parts list



Available to Resell





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Front face		Commercial reference
Voltage indicator box		
Before 5 june 2000	3 / 7.2 kV	51008130F0
-	10 / 24 kV	51008131F0
After 5 june 2000	VPIS function D / I 3 / 7.2 kV	51193044FA
,	VPIS function P / Q 3 / 7.2 kV	51193044FC
	10 / 24 kV	51193044FD
Overcurrent relay		
Alpha E (sensor cable)		51008195F0
Alpha M (sensor cable)		51008196F0
Gas pressure indicator		
Before 2011		(1)
From 2011 to 2015	0.2 bar	SPK0063RM2
110111 2011 to 2010	0.3 bar	SPK0064RM2
After 2015	0.2 bar	HRB76257
7 (10) 20 10	0.3 bar	HRB76531
Front panel	0.0 Dai	TINEFOOOT
Full		
Internal arc Door	Width 340 mm interphase 107 mm	51007972FE
Internal arc Door	· · · · · · · · · · · · · · · · · · ·	
	Width 542 mm	51007972FF
Curan arrester Door	Width 242 mm interphase 107 mm	51007972FH
Surge arrester Door	Width 343 mm interphase 107 mm	51007972FJ
	Width 442 mm interphase 145 mm	51007972FK
Surge arrester version DE-I	540	51007972FQ
Surge arrester Door width	542 mm	51007972FR
01 1 1 5 111	343 mm interphase 107 mm	51007972FA
Standard Door width	442 mm interphase 145 mm	51007972FB
Standard Door	Width 542 mm	51007972FD
With window		
Free combination		(1)
Standard Door	Width 343 mm interphase 107 mm	51007972FC
Door	Width 442 mm interphase 145 mm	51007972FG
Synoptic front panel before 1st	august 2005	
Motorized D/B circuit breaker		
Extendable to the right	3 functions RE I-D/B-I extendable to the right	51192981FB
Extendable to the right and left	1 function DE D/B	51192981FJ
Non-extendable	1 function NE D/B	51192981FH
3 functions NE I-D/B-I not exten	ndable	51192981FA
4 functions NE I-I-D/B-I not exte	endable	51192981FC
Between 1st august 2005 and 1	1 st nov. 2011	
For motorized inter-fuse handse	et	
Extendable to the right	3 functions RE I-Q-I	BBV26497
	4 functions RE I-I-Q-I	BBV26500
	RE Q-I-Q-I	BBV26503
Extendable to the right and left	1 function DE Q	BBV26494
-	3 functions DE I-Q-I	BBV26498
	3 IUIICUOTIS DE 1-Q-1	
Expandable right and left	4 functions DE I-IQ-I	BBV26501
Expandable right and left Non extendable		
	4 functions DE I-I-Q-I	BBV26501

⁽¹⁾ consult your local sales.

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Available to Resell

RM6 Spare parts list



Front face (continued)		Commercial reference
For motorized D/B circuit bre	eaker	
Extendable to the right	3 functions RE I-D/B-I	51194950FB
	4 functions RE D/B-I-D/B-I	51194950FF
	RE I-I-D/B-I	51194950FD
Extendable to the right and to the left	1 function DE D/B	51194950FJ
Non extendable	1 function NE D/B	51194950FH
	2 functions NE D/B-I	51194950FG
	3 functions NE I-D/B-I	51194950FA
	4 functions NE D/B-I-D/B-I	51194950FE
	4 functions NE I-I-D/B-I	51194950FC
After nov. the 1st 2011 for mo	torized inter-fuse handset	
Extendable to the right	1 function Motorized Q	S1A57088
	2/3 function Motorized Q	S1A57089
Extendable to the left	1 function Motorized Q	S1A57087
	2/3 functions Motorized Q	S1A57090
Extendable to the right and	1 function Motorized Q	S1A57088
to the left	2/3 functions Motorized Q	S1A57090
	3 functions Motorized Q	S1A57091
Non extendable	1 function Motorized Q	S1A57087
	2/3 functions Motorized Q	S1A57089
For motorized D/B circuit bre	eaker	
Extendable to the right	1 function RE/DE Motorized D/B	S1A57069
	2/3 functions NE/RE Motorized D/B	S1A57070
Extendable to the left	1 function NE/LE Motorized D/B	S1A57068
	2/3 functions LE/DE Motorized D/B	S1A57071
Extendable to the right and	1 function RE/DE Motorized D/B	S1A57069
to the left	2/3 functions LE/DE Motorized D/B	S1A57071
	3 functions Motorized D/B	S1A57072
Non extendable	1 function NE/LE Motorized D/B	S1A57068
	2/3 functions NE/RE Motorized D/B	S1A57070
Pressure switch		
Digital Pressure switch kit 0.2	bar	(1)



Fuse equipment			Commercial reference
Сар			
Fuse			
Substitution Q	Cap function kit	With striker	51191957FE
		Without striker	51191957FF
Solefuse Q	Fuse function	With striker	51191957FH
			51191957FG
Lower contact cap			1796877F
Fuse socket			
Fusarc fuse with striker	292 mm	Pluggable socket	51192898FE
		Unpluggable socket	51192898FG
	442 mm	Pluggable socket	51192898FD
		Unpluggable socket	51192898FF
Solefuse fuse with striker	442 mm	Pluggable socket	51192898FB
		Unpluggable socket	51192898FC
Solefuse fuse w/o striker	442 mm	Pluggable socket	51192898FA
		Unpluggable socket	51192898FH

⁽¹⁾ consult your local sales.

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RM6

Spare parts list













Top of the cubicle		Commercial reference
Hood		
1 function length	464 mm	BBV12207
	564 mm	BBV12210
2 functions length	821 mm	BBV12212
2+ functions length	1046 mm	AAV81666
3 functions length	1178 mm	BBV12214
3+ functions length	1526 mm	AAV81494
4 functions length	1611 mm	BBV12215

Maintenance & tools	Commercial reference
Voltage presence indicator VPIS	
V1-V1	51191954FA
V1-V2 (15 -20 kV ERDF)	EMS58431
V1-V2 (8.8 - 23 kV)	EMS58438
V2-V2 / V3-V3	VPI62421

Earth disconnector	Commercial reference
Earth finger injection finger for cable testing	51191957FB

References can be ordered by sending an email to your sales representative.

RM6 Spare parts list

R1 Type Locking		
Function	I RONIS	51008258FA
	I PROFALUX	51008259FA
Manual function	B RONIS	51192729FA
	B PROFALUX	51192730FA
Motorized function	B RONIS	51193017FA
	B PROFALUX	51193018FA
R1 T Type Locking		
Function D RM6+ /	2 RONIS	51194144FA
function B/D RM6	2 PROFALUX	51194145FA
Motorized function	B/D RONIS	51194146FA
	B/D PROFALUX	51194147FA
R2 Type Locking		
Function	I RONIS	51008260FA
	I PROFALUX	51008261FA
Manual function	B RONIS	51192731FA
	B PROFALUX	51192732FA
Motorized function	B RONIS	51193019FA
	B PROFALUX	51193020FA
R6 Type Locking		
Function	P/Q RONIS	51008262FA
	P/Q PROFALUX	51008263FA
Manual function	D RONIS	51192733FA
	D PROFALUX	51192734FA
Motorized function	D RONIS	51193021FA
	D PROFALUX	51193022FA
R7 Type Locking		
Function	P/Q RONIS	51008264FA
	P/Q PROFALUX	51008265FA
Manual function	D RONIS	51192735FA
	D PROFALUX	51192736FA
Motorized function	D RONIS	51193023FA
	D PROFALUX	51193024FA
R8 Type Locking		
Function	P/Q RONIS	51008266FA
	P/Q PROFALUX	51008260FA 51008267FA
Manual function	D RONIS	510002017A 51192737FA
addi ranotioti	D PROFALUX	51192738FA
Motorized function	D RONIS	51193025FA
	D PROFALUX	51193026FA

References can be ordered by sending an email to your sales representative.

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Medium Voltage / Low Voltage Transformer

7	Medium Voltage Switchgear PIX Standard	34 37 38 52
8	MV/LV Transformers Minera – Oil immersed	
****	Low Voltage Switchboards Okken C- Prisma C- BlokSeT C-	7
Ĭ	Circuit Breaker HWX Medium Voltage vacuum circuit breaker	.88 .9(
ф	Components Medium Voltage Instrument Transformer E-1 Medium Voltage Fuses E-1	02
PaC	Protection and Control Sepam Protection Relays F-1 MiCOM Protection Relays F-1	

Minera & Trihal

Oil-Immersed Transformer up to 3.15 MVA - 36 kV Resin cast transformer up to 15 MVA - 36 kV Part of **SeT** Series

Ground-mounted oil-immersed or dry transforme. Three-phase units for underground distribution networks.

Main technical charac	Oil transformer	Minera		
	Oil transformer	Millera		
Rated power	50 kVA to 3.15 MVA	50 kVA to 3.15 MVA		
Rated insulation level	Up to 36 kV<	Up to 36 kV		
Rated frequency	50 Hz or 60 Hz	50 Hz or 60 Hz		
Type of cooling	ONAN, ONAF or KNAN	ONAN, ONAF or KNAN		
Voltage regulation	Off-circuit tap changer (DETC)	Off-circuit tap changer (DETC)		
High Efficiency Transformer	Conventional losses	High efficiency ranges		
Ecodesign	Not applicable	EN 50588-1		
Location	Indoor / outdoor	Indoor / outdoor		
Options	Not available - Compact design (Slimtrim rang - Breathing or sealed type - Standard or low noise levels - Biodegradable vegetable oil - A wide variety of accessories			
Digitalization	Not available	- DGPT - DMCR (Detection, Measurement,		

Control Relay)

	Dry transformer	Trihal			
Rated power	100 kVA to 15 MVA	100 kVA to 15 MVA			
Rated insulation level	Up to 36 kV	Up to 36 kV			
Rated Frequency	50 Hz or 60 Hz	50 Hz or 60 Hz			
MV windings	Not available	Encapsulated in cast resin			
Thermal insulation	Not available	Class F			
Safety and reliability	Not available	 - IEC 60076-11 and IEC 60076-16 - E3 Environment test - C2 or C3 Climate Test - F1 Fire Behaviour - ≤ 5pC Special test for partial discharge - Silicone free 			
Cooling	Naturally cooled or air forced	Naturally cooled or air forced			
Location	Indoor / outdoor	Indoor			
IP .	Up to 44	Up to 44			
Hazard proof	Not available	Self extinguishing			
Ecodesign	Not available	EU 548-2014 - EN 50588-1			
Digitalization	Without or analogic basic protection	Digital asset management enabler Alarming Diagnosis Modbus RS communication			

Associated Services by badge level

Transformers		Authorized Services reseller	Certified EcoXpert partner			
			Power Upgrade		Power Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Manufacturer	\odot			\odot	
EcoFit™ Life Extension Essential	Sensors TH110, CL110	\bigcirc			\bigcirc	\bigcirc

Associated devices



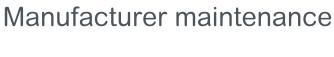




Available to Resell



Available to Resell and Perform



Medium Voltage / Low Voltage Transformers

Description		Commercial reference
Standard working hours		
Manufacturer Maintenance	Minera	FSM2061
	Trihal Time 1	FSM2191
Prodiag Oil	Distribution	FSM201411
	Power Transformer	FSM201421



Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering ProDiag Fuse during maintenance in a public holidays: FSM201311 + FSM20034. For Pro-Diag applicable ranges please refer to Schneider Electric representative.



Prepaired EcoFit™ Life Extension Essential

Description		Commercial reference
Generic kit for LV MV Tra	nsformer offer	<u>'</u>
Generic Kit for ED	3 TH110 sensors	FSR43334
	6 TH110 sensors	FSR43335
	9 TH110 sensors	FSR43336
	12 TH110 sensors	FSR43337
	15 TH110 sensors	FSR43338
	18 TH110 sensors	FSR43339
	21 TH110 sensors	FSR43340
	33 TH110 sensors	FSR43343
Accessories		
Ferromagnetic Ribbon		EMS59441

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Low Voltage Switchboards

	Medium Voltage Switchgear PIX Standard PIX MV PIX Roll on the floor SM6 FLUOKIT RM6	A-34 A-37 A-39 A-52
8	MV/LV Transformers Minera – Oil immersed Trihal – Cast resin	
****	Low Voltage Switchboards Okken Prisma Blok SeT	C-7
Ĭ	Circuit Breaker HWX Medium Voltage vacuum circuit breaker EVOLIS Medium Voltage vacuum circuit breaker SF MV SF6 circuit breaker MasterPacT NT NW Low voltage circuit breaker ComPacT C801 ComPacT NS Low voltage circuit breaker	D-88 D-90 D-91
ф	Components Medium Voltage Instrument Transformer Medium Voltage Fuses	
P&C	Protection and Control Sepam Protection Relays MiCOM Protection Relays	

Okken

Original brand: Schneider Electric Part of **SeT** Series



ComPact and powerful Okken switchboards answer the needs of the most demanding motor control and power distribution applications.

Combining continuity of supply and performant operational services.

Main technical characteristics				
	MasterPacT NT-NW	MasterPacT MTZ		
Rated operational voltage (V AC 50/60 Hz) Ue	690 V	690 V		
Rated current (A) In 40° C	600-6300 A	600-6300 A		
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	42-150 kA	42-150 kA		

Associated Services by badge level

Okken		Authorized Services reseller	Certified EcoXpert partner			
			Power L	Jpgrade	Power S	Services
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Manufacturer	\odot	\odot		\odot	
EcoFit™ Life Extension Advanced	MasterPacT	\odot	\odot	\odot	\odot	\bigcirc
EcoFit™ Life Extension Essential	Sensors TH110, CL110	\odot	\odot	\bigcirc	\odot	\bigcirc



Prisma P

Panel building system for floor-standing switchboards, up to 4000 A supplied Part of **SeT** Series



Prisma P functional system, in conformity with IEC 61439-1&2 standards, can be used for all types of low voltage electrical switchboards up to 4000 A. It integrates Schneider Electric offerings, ensuring electrical, mechanical and communication features.

Electrical characteristics		
Complying with standards IEC 62208 and EN 62208		
Rated insulation level of main busbars 1000 V		
InA	4000 A	
Rated peak withstand current lpk	220 kÂ	
Rated short-time withstand current lcw	100 kA rms / 1 second	
Frequency	50/60 Hz	
Voltage Ue	690 V under conditions	

Associated Services by badge level

		Authorized Services reseller	Certified EcoXpert partner			
			Power l	Jpgrade	Power S	Services
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Manufacturer	\odot	\bigcirc		\bigcirc	
EcoFit™ Life Extension Advanced MasterPacT		\odot	\bigcirc	\bigcirc	\bigcirc	\bigcirc
EcoFit™ Life Extension Essential Sensors TH110, CL110		\odot	\bigcirc	\bigcirc	\bigcirc	\bigcirc



Blok**SeT**

Low voltage switchboards for power distribution and motor control up to 7000 A

Part of **SeT** Series



BlokSeT is low voltage switchboard for power distribution and motor control up to 7000 A, manufactured by Schneider Electric or our licensed partners, with great safety, reliability, dependability, and intelligence.

Associated Services by badge level

		Authorized Services reseller	Certified EcoXpert partner			
			Power l	Jpgrade	Power S	Services
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Manufacturer	\odot	\bigcirc		\bigcirc	
EcoFit™ Life Extension Advanced	d MasterPacT	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
EcoFit™ Life Extension Essential	Sensors TH110, CL110	\odot	\bigcirc	\bigcirc	\bigcirc	\bigcirc





Low Voltage Switchboards

Okken, Primsa, Blok**SeT**

Manufacturer maintenance
Part of **SeT** Series

Description	Commercial reference
Manufacturer Maintenance LV switchboard Okken, BlokSeT, Prisma P Time 1	FSM21501

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering Manufacturer Maintenance LV switchboard Okken, BlokSeT, Prisma P Time 1, During public holydays: FSM21501 + FSM20034.

For Pro-Diag applicable ranges please refer to Schneider Electric representative.

For EcoFit™ MasterPacT NT NW Low voltage circuit breaker and ComPacT C801 ComPacT NS Low voltage circuit breaker

• Please refer to the pages dedicated to Circuit Breaker and Switches

Okken, Prisma BlokSeT EcoFit™ Life Extension Essential

Description		Commercial reference
Generic kit for Low Voltage Switch	hboards offer	
Generic Kit for ED	3 TH110 sensors	FSR43334
	6 TH110 sensors	FSR43335
	9 TH110 sensors	FSR43336
	12 TH110 sensors	FSR43337
	15 TH110 sensors	FSR43338
	18 TH110 sensors	FSR43339
	21 TH110 sensors	FSR43340
	33 TH110 sensors	FSR43343
Accessories		
Ferromagnetic Ribbon		EMS59441
PowerLogic HeatTag smart sensor	r, cable overheating detection	SMT10020



Prepaired EcoFit[™] Life Extension Essential



Circuit Breaker

	Medium Voltage Switchgear PIX Standard PIX MV PIX Roll on the floor SM6 FLUOKIT RM6	A-34 A-37 A-39 A-52
8	MV/LV Transformers Minera – Oil immersed Trihal – Cast resin	
* * * * * * * * * * * * * * * * * * *	Low Voltage Switchboards Okken Prisma Blok SeT	C-77
Ĭ	Circuit Breaker HWX Medium Voltage vacuum circuit breaker EVOLIS Medium Voltage vacuum circuit breaker SF MV SF6 circuit breaker MasterPacT NT NW Low voltage circuit breaker ComPacT C801 ComPacT NS Low voltage circuit breaker	D-88 D-90 D-91
ф	Components Medium Voltage Instrument Transformer Medium Voltage Fuses	E-102 E-109
PaC	Protection and Control Sepam Protection Relays MiCOM Protection Relays	

Circuit Breaker www.se.com

HWX switchgear, replace HWX Circuit Breaker with HVX Medium Voltage Vacuum circuit breaker up to 12 kV 3150 A

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HVX Rof (2000, 2500 & 3150 Amps)



HVX Rof (800 & 1250 Amps)



Rated voltage	12 kV	17.5 kV
Rated power frequency withstand voltage	28 kV	38 kV
Rated lightning impulse withstand voltage (BIL)	75 kV	95 kV
Rated frequency	50/60 Hz	50/60 Hz
Rated current	Up to 2 500 A	Up to 2 500 A
Rated short time current (3 s)	Up to 31.5 kA	Up to 31.5 kA
Making current	Up to 82 kA	Up to 82 kA
Breaking current (Isc)	Up to 31.5 kA	Up to 31.5 kA
Classification	E2 M2	E2 M2
Operating sequence	O-0.3 s-CO - 3 min-COC2	O-0.3 s-CO - 3 min-COC2
Capacitive switching class	Cable charging & single capacitor bank	Cable charging & single capacitor bank
N°. of switching operations at Isc	100	100

www.se.com Circuit Breaker

HWX switchgear, replace HWX Circuit Breaker with HVX Medium Voltage Vacuum circuit breaker up to 12 kV 3150 A



Breaking Technology	Vacuum	Vacuum					
Rated Voltage Ur (kV)	Up to 12	Up to 12	Up to 12				
Surge withstand voltage Up (kV)	75	75	75				
Nominal frequency (Hz)	50	50	50				
Rated current Ir (A)	Up to 3150	Up to 3150	Up to 3150				
Short circuit current Isc (kA)	Up to 40	Up to 40	Up to 40				
Short circuit duration Tk (s)	3	3	3				
Switching sequence	O-0.3 s-CO - 3 min-CO	O-0.3 s-CO - 3 min-CO	O-0.3 s-CO - 3 min-CO				
Closing time (ms)	40	40	40				
Openin time (ms)	25-45	25-45	25-45				
Number of switching operations	10000	10000	10000				
Ambient temperature (°C)	-25 / +40	-25 / +40	-25 / +40				

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HVX Rof 2000, 2500 & 3150 A

Spare parts





Available to Resell

Available to Resell and Perform

Description		Commercial reference
Isolating Contact		
ŭ .	2000 A loolating Contact 2000 A v24	VDRK00031-03
Finger Type Tulip Type	2000 A Isolating Contact 2000 A x24 (48 fingers) 2500 A Tulip 2500 A x6	ST451-010-255
типр туре	(82 fingers) 3150 A Tulip A61202000R1300 6 VDR	A61202000R1300
	IN58 x6	7.01202000111000
Equipped Arms Assembly		
Stem Top	2000 A x3	VDRK00030-01
Stem Bottom	2000 A x3	VDRK00029-01
Stem Top and Bottom	2500 A x6	DRCN02550-02
	3150 A x6	DRCN02551-03
Vacuum Interrupter Assembl	у	
Vacuum bottle sub Assembly	12 kV-40 kA-2000 A x3	VDRK00011-02
	12 kV-40 kA-2500 A x3	VDRK00011-03
	12 kV-40 kA-3150 A x3	VDRK00011-04
Floor Rolling Trolley		
Breaker floor Rolling Wheel x4		MVIK00025-01
Axle for Wheel axle x4		MVIK00066-01
Scrap Earthing Assembly Ear	thing	MVIG00143-01
Racking Trolley Arrangement		
Racking Trolley Assembly		VDRG00199-01
Mechanism		
Primary Shaft		AGSH36730-12
Bearing Block		AGSH30411-02_S
Spur Gear		VDRP00020-01 S
Operation Counter		VDRP00021-01
		VDRP00022-01
Ramphook Glide		AGSH30469-01
Main Gear	(DikA) 0	AGSH30270-02
Cam Disc	(Right) x3	AGSH30276-01
0 14/ 1	(Left) x2	AGSH30277-01
Cam Washer		AGSH30305-01
Closing/Tripping Coil		
24-30 V DC x2		AGSH31484-01
48 V DC x2		AGSH31483-01
110 V DC x2		AGSH31482-01
220 V DC x2		AGSH31481-01
Undervoltage Coil		
Magnet Installation	24 V DC	AGSH34286-01L
	48 V DC	AGSH34286-02L
	60 V DC	AGSH34286-03L
	110 V DC	AGSH34286-04L
	125 V DC / 100-110 V AC	AGSH34286-05L
	220 V DC / 230 V AC	AGSH34286-06L
Spring Charging Motor		
Motor	110 V AC/DC	AGSH33019-01
Motor KPL	220 V AC/DC	AGSH33020-01
Insulator Assembly		
Drive Insulator x3		VDRK00037-01
Housing 12 kV Insulating		DRC006259-01
Limit Switch Assembly		DRCN03377-01_S
Shutter Actuating Cam x2		VDRK00084-02
IP Sheet Assembly Equiped		(1)
Auxiliary Switch		
Auxiliary Switch		
S11		AGSH32000-05

⁽¹⁾ Consult your sale representative.

Circuit Breaker

HVX Rof 800 & 1250 A Spare parts

Available to Resell Ava

Available to Resell and Perform

Description			Commercial reference
Busbar			
Finger Type	Up to 1250 A x12		VDRK00327-01
Busbar	60 x 10 mm	For Top Stem x3	VDRK00004-01
		For Bottom Stem x3	VDRK00001-01
	60 x 15 mm	For Top Stem x3	DRCN03490-03
		For Bottom Stem x3	VDRK00017-01
nsulating Hood for Botton	m Arm x3		DRC007667-01
Vacuum Interrupter Asse	embly		
12 kV-40 kA - 800 A & 12			VDRK00011-01
Floor Rolling Trolley			
Breaker floor Rolling Whe	el vA		MVIA00054-01
Axle For Wheel x4	661 A4		MVIK00066-01
Scrap Earthing Assembly	,		MVIG00143-01
			WV1G00143-01
Racking Trolley Arrange			\/DD000400.04
Racking Trolley Assembly	/ 600 mm		VDRG00199-01
Mechanism			
Primary Shaft			AGSH36730-12
Bearing Block			AGSH30411-02_S
Spur Gear			VDRP00020-01_S
Operation Counter			VDRP00021-01
Ramphook			VDRP00022-01
Glide			AGSH30469-01
Main Gear			AGSH30270-02
Cam Disc	(Right) x3		AGSH30276-01
	(Left) x2		AGSH30277-01
Cam Washer			AGSH30305-01
Closing/Tripping Coil			
24-30 V DC x2			AGSH31484-01
48 V DC x2			AGSH31483-01
Magnet x2	110 V DC		AGSH31482-01
	220 V DC		AGSH31481-01
Undervoltage Coil			
24 V DC			AGSH34286-01L
48 V DC			AGSH34286-02L
60 V DC			AGSH34286-03L
110 V DC			AGSH34286-04L
125 V DC / 100-110 V AC	:		AGSH34286-05L
220 V DC / 230 V AC	<u> </u>		AGSH34286-06L
Spring Charging Motor			7,661161266 662
110 V AC/DC			AGSH33010 01
			AGSH33019-01
220 V AC/DC KPL			AGSH33020-01
Insulator Assembly			
Drive Insulator x3			VDRK00037-01
Housing 12 kV			DRC006260-01
Limit Switch Assembly			DRCN03377-01_S
Shutter Actuating Cam x2	2		VDRK00072-01
IP Sheet Assembly			(1)
Auxiliary Switch			
S11			AGSH32000-05
S12			AGSH32000-01

⁽¹⁾ Consult your sale representative.

Circuit Breaker

HWX O, C & S

Spare parts





Available to Resell

Available to Resell and Perform

Description		Commercial reference
Vacuum Contactor Unit		
Magnet Core x2		MST37S4010100PL
Magnet Core Shim x2		MBC37S4011900BL
Push On Spring x2		MSP37S4010400PL
Spring Seat x2		MST37S4011600PL
Spring Support Post x2		MST37S4015700PL
Spring Adjuster x2		MST37S4015800PL
Special Lock Nut x2		MST37S4015900PL
Coil "O" Ring x2		MPL37S4011500FN
Coil Washer x2		MSH37S4011300PL
Location Disc	Upper x3	MPL37S4016400FN
Location Disc	Lower x3	MPL37S4016500FN
Hingo Unibol v2	Lower x3	MBR37S4016300FN
Hinge Unibal x3		
Unibal Clamp Plate x6		MSH37S4011100PL
Hinge Unibal Bearing x2		MST37S4016200FN
Stop Screw Assembly		MST37S4011000PL
Armature Stop Pad		MPL37S4011200FN
Armature Moulding		MSM37S1000300FN
Insert x2		MBC37S4041900MC
Tapped Plate x2		MST37S4016000PL
Terminal Board Moulding		MSM37S2000100FN
Mounting Tray		MSH37S3010100PL
Main Frame Moulding		MSM37S1000200FN
Armature Plate		MST37S3010300PL
TQ Auxiliary Switch	L/H-4NO + 4NC	MOC37S2000200FN
	R/H-4NO + 4NC	MOC37S2000300FN
	L/H-6NO + 6NC	SLWI00090-04
	R/H-6NO + 6NC	SLWI00090-03
Operating Coil	24-35 V DC x2	ECU37S6730200FN
	110 V DC	ECU37S4040600FN
	220 V DC	ECU37S4040700FN
GP6 Resistor Type	GP6/15-24-35 V DC	ECU37SGP6-1500FN
71	GP6/30-110 V DC	ECU37S4040200FN
	GP6/35-220 V DC	ECU37S4046600FN
Latch-In-Mechanism	With 110 V DC coil	DRCN01586-02
Edition in Meditalilem	With 220 V DC coil	DRCN01586-01
	Coil 110 V DC/220 V DC	MV262420
Vacuum Interrunter Type C6R	Assembly With Stud, Flex & Contact Block	SPR37SASS0000FN_S
Flex Connection 400 A x3	Assembly With Stud, Flex & Contact Block	MCU37S0105M00PL
Adaptor Block x3		MCU37S0106M00PL
		MCU37S0153M00PL
Connection Block - Lower x3		
HT Brass Stud x3		MBC37S4075200MC
Rear Connection x9		SLWI00021-01
Kit and Carriage Assembly		
Isolating Contact	800 A - Finger Type x6	MHU39S0523600FN
	800 A - Flat Type x9	MVIK00190-01
Lower Terminal Moulding (Suit	able For 1 Pair Finger Contact)	SLWD00029-01 *
Fuse Trip Mechanism	For HWX-Old	MVU25S3550800SA
Assembly (W/o Limit Switch)	For HWX-S	MVIK00671-01
Top Guide Roller		MVIB00455-01
Breaker Wheel - Nylon x4		MVIA00054-01
Shutter for Racking Shaft with	For HWC-S	MVIJ00016-01
Tripping link (with latch)	For HWC-C	MVIJ00016-01
Interlock Handle		MVIJ00028-01
Push to Trip Knob (RED) Asser	mblv- With Spring & Housing	SPR39SASS0001FN_S
On-Off Indicator		MVIK00293-01
On On maleator		IVI V II \UU\Z\U-U I

^(*) Refer note sheet for Minimum Order Quantity.







Available to Resell and Perform

Circuit Breaker HWX O, C & S Spare parts

Description		Commercial reference
Secondary Plug & Socket Co	omponents	
Plug & Socket Assembly	32 Pin	MHU39S0042400FN
	64 Pin	MHU39S00196200FN
Interlock Assembly Compone	nts for Secondary Plug & Socket	MKT39S0001000CM
HT Chamber Arrangement (r	mention panel serial no.)	
3-Phase	Busbar Spout for HWC-Old	MEP-39-38627 *
1-Phase	Circuit Spout for HWC-Old x3	MEP-25-35555 *
	Circuit Spout for R/Y/B Phase-HWC-S x3	MEP-39-A0227201 *
	Busbar Spout for R/B Phase-HWC-S x2	MEP-39-A0227001 *
	Busbar Spout for Y Phase-HWC-S	MEP-39-A0227101 *
Busbar Support Insulator	25 KA	MEP-27-30370B *
	40 KA	MEP-39-A0147901
Racking, Shutter and Earthin	g Arrangement *	
Racking Screw	For HWC-Old	MVIK00064-01
	For HWC-S	MVIK00367-02
Racking Arrangement Assly	For HWX-C (660 W)	MVIK00296-01
	For HWX-C (860 W)	MVIK00296-02
Racking Nut -	20 mm DIA Racking	MBC-39-32417
	30 dia	MNM-39-A0115701
Earthing Socket		MVIK00139-01
Earthing Nut PLUG		MVIK00023-01
Electronic Card	24 V-60 V DC (Imported)	DRC003817-01 *
	110 V-220 V DC (Imported)	DRC003817-02
Wirring Harness	For CBX for PIX- ROF Application	VDRK00260-01
	For CBX for HWC Application	VDRK00258-0
Other		
Limit Switch-1NO+1NC - Serv	vice/Test Position	ESW-B-AAA00-001
Rectifier Monoblock		ERC-A-A00CC-001
Thermostat For Space Heater		ETH-E-B0000-001
Space Heater		EHT-A-AA000-001

^(*) Refer note sheet for Minimum Order Quantity.

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Circuit Breaker www.se.com

Evolis and EvoPact HVX Assembled Pole

Medium Voltage Vacuum Circuit Breaker up to 24 kV Part of **Pact** Series





Medium Voltage vacuum circuit-breaker for fixed or withdrawable in cradle applications

Phase to phase				145 ו	mm		
Rated voltage	Ur	kV 50/60 Hz		7.2		12	
Insulation level	Ud	kV 50 Hz 1 min. (1)		20		28	
power frequency withstandlightning impulse withstand	Up	kV peak		60		75	
Rated current	Ir	A	630				
			1250				
			1600 (2)	-	-	-	-
			2500 ⁽²⁾	-	-	-	-
Short circuit current	Isc	kA		25	31.5	25	31.5
Short time withstand current	lk/tk	kA/3 s		25	31.5	25	31.5
Short-circuit making current	lp	kA peak	50 Hz	63	79	63	79
_			60 Hz	65	82	65	82



Main electrical characteristics according to IEC 62271-100: 2012-09

Data di valta su	I I a	LAZ	40	4.7	0.4	
Rated voltage	Ur	kV	12	17	24	
Rated power frequency withstand voltage	Ud	kV	28 (1)	38	50	
Rated lightening impulse withstand voltage	Up	kV	75	95	125	
Rated frequency	f	Hz	50/60	50/60	50/60	
Rated short circuit breaking current	Isc	kA	25-31.5-40-50	25-31.5-40-50	25-31.5	
Rated short circuit making current @ 50 Hz	lp	kA	2.5 lsc	2.5 lsc	2.5 lsc	
Rated short circuit making current @ 60 Hz	lp	kA	2.6 lsc	2.6 lsc	2.6 lsc	
Rated duration of short circuit	tk	S	3	3	3	
Operating sequence			O-0.3 s-CO - 3 min-CO			
			O-0.3 min-CO			
			O-0.3 s-CO - 1	5 s-CO		
Opening time		ms	30-60	30/60	30/60	
Arcing time		ms	≤ 15	≤ 15	≤ 15	
Closing time		ms	40-70	40-70	40-70	
Service temperature		°C	-25 to +40	-25 to +40	-25 to +40	
Mechanical endurance			M2	M2	M2	
Electrical endurance			E2	E2 (2)	E2 (2)	
Line charging breaking current		Α	10	10	10 (3)	
			C2	C2	C2	
Cable charging brealing current		А	25	31.5	31.5 (3)	
			C2	C2	C2	
Single capacitor bank and back-to-back capaci	itar bank brou	alvina conocitu	(2)	(2)	(2)	

- (1) Please contact Schneider Electric for GOST performance.
- (2) Please contact Schneider Electric.
- (3) Only applicable for 25 kA 630 A / 1250 A.

Associated Services by badge level

Evolis and EvoPact HVX		VX	Authorized Services reseller	Certified EcoXpert partner			
				Power Upgrade		Power Services	
	Service category	Service type	Resell	Resell	Perform	Resell	Perform
	Maintenance	Certified					\bigcirc
		Manufacturer	\bigcirc			\bigcirc	
	Spare part	Spare part list					\bigcirc

Associated devices



Download EvoPact HVX catalog











www.se.com Circuit Breaker

VA and VAA Assembled Pole

Medium Voltage Vacuum Circuit Breaker up to 24 kV

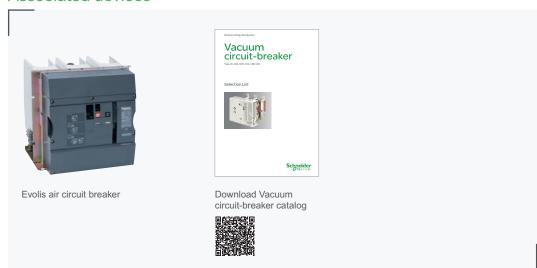


VA and VAA vacuum circuit breakers are front-mounted switches for application in medium-voltage indoor switchgear. They can be fixed installations in switchgear or can be mounted on a switchgear truck, a drawing-unit truck or a drawing unit.

Voltage designation and insulating ability within the		Rated voltage	ated voltage Rated lightning impulse withstand voltage	
Type desi	gnation	kV	kV	kV
VA	12	4.76	60	19
		7.2	60	20
		12	75	28
		13.8	95	38
	17	15	95	38
		17.5	95	38
VAA	24	15.4	110	50

Associated Services by badge level

Evolis and EvoPact HVX		Authorized Services reseller	Certified EcoXpert partner			
			Power	Upgrade	Power Service	
Service category	Service type	Resell	Resell	Perform	Resell	Perform
Maintenance	Certified					\odot
	Manufacturer	\odot			\bigcirc	
Spare part	Spare part list					\bigcirc



^{*} Spare part are in consultation mode. A selector is available, please consult your sales representative.

SF

Medium Voltage SF6 Circuit Breakers up to 40.5 kV Part of **Pact** Series





Range of circuit-breakers fixed switchgear, left or right MV connection, side or front operating mechanism MV circuit-breakers up to 40.5 kV

SF1															
Rated voltage	Ur	kV 50/60 Hz		12	17.5			24				36			
Insulation level	Ud	kV 50 Hz 1 mir)	28	38			50				70			
power frequency withstandlightning impulse withstand	Up	kV peak		75	95			75				170			
Rated current	lr	А	400	-	-		-			-	-				
			630												
			1250	-											
Short circuit current	Isc	kA		25	12.5	20	25	12.5	16	20	25	12.5	16	20	25
Short time withstand current	lk/tk	kA/3 s		25	12.5	20	25	12.5	16	20	25	12.5	16	20	25
Short-circuit making current	lp	kA peak	50 Hz	62.5	31.3	62.5	62.5	31.3	40	50	62.5	31.3	40	50	62.5
			60 Hz	65	32.5	65	65	32.5	41.6	52	65	32.5	41.6	52	65

SF Set											
Rated voltage	Ur	kV 50/60 Hz		12	17.5			24			
Insulation level	Ud	kV 50 Hz 1 mir	1	28	38			50			
power frequency withstandlightning impulse withstand	Up	kV peak		75	95			125			
Rated current	lr	Α	400	-	-		-			-	-
			630								•
			1250	-	-	-	-	-	-	-	-
Short circuit current	Isc	kA		25	12.5	20	25	12.5	16	20	25
Short time withstand current	lk/tk	kA/3 s		25	12.5	20	25	12.5	16	20	25
Short-circuit making current	lp	kA peak	50 Hz	62.5	31.3	50	62.5	31.3	40	50	62.5
			60 Hz	65	32.5	52	65	32.5	41.6	52	65

SF 2											
Rated voltage	Ur	kV 50/60 Hz		24				36			40.5
Insulation level	Ud	kV 50 Hz 1 mir	1	50				70			85
power frequency withstandlightning impulse withstand	Up	kV peak		125				170			185
Rated current	lr	А	630	-	-			-			-
			1250	-	-			-			-
			2500								
			3150	-	-	-		-	-		-
Short circuit current	Isc	kA		12.5	25	31.5	40	25	31.5	40	31.5
Short time withstand current	lk/tk	kA/3 s		12.5	25	31.5	40	25	31.5	40	31.5
Short-circuit making current	lр	kA peak	50 Hz	31.3	63	79	100	62.5	79	100	78.8
			60 Hz	32.5	65	82	104	65	82	104	81.9

Associated Services by badge level

SF		Authorized Services reseller	Certified EcoXpert partner				
			Power	Upgrade	Power 9	Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform	
Maintenance	Certified					\bigcirc	
	Manufacturer	\odot			\bigcirc		
Spare part	Spare part list					\odot	

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MasterPacT NT-NW with MasterPacT MTZ

Modernization EcoFit[™] Life Extension Advanced - Low Voltage
Part of **Pact** Series



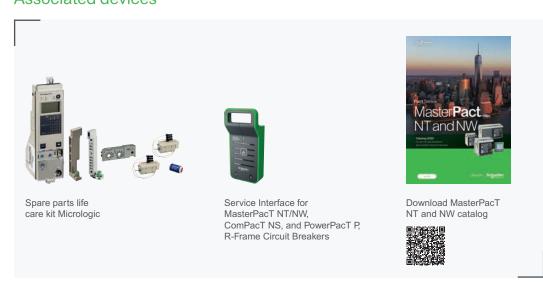
Master**PacT™** NT/NW Universal Power Circuit Breakers are designed to protect electrical systems from damage caused by overloads, short circuits and equipment ground faults.

All MasterPacT circuit breakers are designed to open and close a circuit manually, and to open the circuit automatically at a predetermined overcurrent setting.

Main technical characteristics					
	MasterPacT NT-NW	MasterPacT MTZ			
Rated operational voltage (V AC 50/60 Hz) Ue	690 V	690 V			
Rated current (A) In 40°C	600-6300 A	600-6300 A			
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	42-150 kA	42-150 kA			

Associated Services by badge level

MasterPacT MTZ		Authorized Services reseller	Certified EcoXpert partner				
			Power l	Jpgrade	Power S	Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform	
Maintenance	Manufacturer	\odot	\odot		\bigcirc		
EcoFit [™] Life extension Advanced LV	MasterPacT	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
Spare part	Life care kit	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	



MasterPacT NT-NW

Manufacturer maintenance MasterPacT NT-NW Execution tools



Available to Resell





Description			Commercial reference
Standard working hours			
Maintenance & ProDiag Trip Unit MasterPacT Circuit-Breaker	Withdrawable	08-32 T1	FSM202111
		40-63 T1	FSM202121
	Fixed	08-32	FSM202151
		40-63	FSM202161
Maintenance &	Withdrawable	08-32	FSM202211
ProDiag Trip Unit		40-63	FSM202221
MasterPacT Switch	Fixed	08-32	FSM202251
		40-63	FSM202261
Prodiag Breaker			FSM201511
Prodiag Cluster			FSM201711

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering Maintenance & ProDiag Trip Unit MasterPacT Switch Fixed 40-63 FSM202261 During public holydays: FSM202261 + FSM20034

For Pro-Diag applicable ranges please refer to Schneider Electric representative.









www.se.com Circuit Breaker



Available to Resell

Modernization EcoFit™ Life Extension Advanced MasterPacT M with MasterPacT NW

MasterPacT NT-NW

Description				Commercial reference
ECOFIT MasterPacT NW	800 A H1	3P	Advanced	FSREMKNW08H13PA
Masterkit withdrawal			Basic	FSREMKNW08H13PB
		4P	Advanced	FSREMKNW08H14PA
			Basic	FSREMKNW08H14PB
	800 A H2	3P	Advanced	FSREMKNW08H23PA
	00071112	O1	Basic	FSREMKNW08H23PB
		4P	Advanced	FSREMKNW08H24PA
		41	Basic	FSREMKNW08H24PB
	1000 A H1	3P	Advanced	FSREMKNW10H13PA
	1000 A 111	OI .	Basic	FSREMKNW10H13PB
		4P	Advanced	FSREMKNW10H14PA
		41		
	1000 A LIO	20	Basic	FSREMKNW10H14PB
	1000 A H2	3P	Advanced	FSREMKNW10H23PA
		15	Basic	FSREMKNW10H23PB
		4P	Advanced	FSREMKNW10H24PA
	1050 4 114	0.0	Basic	FSREMKNW10H24PB
	1250 A H1	3P	Advanced	FSREMKNW12H13PA
			Basic	FSREMKNW12H13PB
		4P	Advanced	FSREMKNW12H14PA
			Basic	FSREMKNW12H14PB
	1250 A H2	3P	Advanced	FSREMKNW12H23PA
			Basic	FSREMKNW12H23PB
		4P	Advanced	FSREMKNW12H24PA
			Basic	FSREMKNW12H24PB
	1600 A H1	3P	Advanced	FSREMKNW16H13PA
			Basic	FSREMKNW16H13PB
		4P	Advanced	FSREMKNW16H14PA
			Basic	FSREMKNW16H14PB
	1600 A H2	3P	Advanced	FSREMKNW16H23PA
			Basic	FSREMKNW16H23PB
		4P	Advanced	FSREMKNW16H24PA
			Basic	FSREMKNW16H24PB
	2000 A H1	3P	Advanced	FSREMKNW20H13PA
			Basic	FSREMKNW20H13PB
		4P	Advanced	FSREMKNW20H14PA
			Basic	FSREMKNW20H14PB
	2000 A H2	3P	Advanced	FSREMKNW20H23PA
	200071112	O1	Basic	FSREMKNW20H23PB
		4P	Advanced	FSREMKNW20H24PA
		71	Basic	FSREMKNW20H24PB
	2500 A H1	3P	Advanced	FSREMKNW25H13PA
	2300 A 111	SF	Basic	
		4P		FSREMKNW25H13PB
		46	Advanced	FSREMKNW25H14PA
	0500 A LI0	20	Basic	FSREMKNW25H14PB
	2500 A H2	3P	Advanced	FSREMKNW25H23PA
		40	Basic	FSREMKNW25H23PB
		4P	Advanced	FSREMKNW25H24PA
			Basic	FSREMKNW25H24PB
	3200 A H1	3P	Advanced	FSREMKNW32H13PA
			Basic	FSREMKNW32H13PB
		4P	Advanced	FSREMKNW32H14PA
			Basic	FSREMKNW32H14PB
	3200 A H2	3P	Advanced	FSREMKNW32H23PA
			Basic	FSREMKNW32H23PB

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Circuit Breaker www.se.com

MasterPacT NT-NW

Modernization EcoFit™ Life Extension Advanced MasterPacT M with MasterPacT NW









				Available to Resell and Perform
Description				Commercial reference
ECOFIT MasterPacT NW	3200 A H2	4P	Advanced	FSREMKNW32H24PA
Masterkit withdrawal			Basic	FSREMKNW32H24PB
ECOFIT MasterPacT NW	800 A H1	3P	Advanced	FSREPPNW08H13PA
olug and play withdrawal			Basic	FSREPPNW08H13PB
		4P	Advanced	FSREPPNW08H14PA
			Basic	FSREPPNW08H14PB
	800 A H2	3P	Advanced	FSREPPNW08H23PA
	00071112	01	Basic	FSREPPNW08H23PB
		4P	Advanced	FSREPPNW08H24PA
			Basic	FSREPPNW08H24PB
	1000 A H1	3P	Advanced	FSREPPNW10H13PA
	100071111	01	Basic	FSREPPNW10H13PB
		4P	Advanced	FSREPPNW10H14PA
		41	Basic	FSREPPNW10H14PB
	1000 A H2	3P	Advanced	FSREPPNW10H23PA
	1000 A 112	JI	Basic	FSREPPNW10H23PB
		4P	Advanced	FSREPPNW10H24PA
		4P	Basic	
	4050 A 114	20		FSREPPNW10H24PB
	1250 A H1	3P	Advanced	FSREPPNW12H13PA
		45	Basic	FSREPPNW12H13PB
		4P	Advanced	FSREPPNW12H14PA
			Basic	FSREPPNW12H14PB
	1250 A H2	3P	Advanced	FSREPPNW12H23PA
			Basic	FSREPPNW12H23PB
		4P	Advanced	FSREPPNW12H24PA
			Basic	FSREPPNW12H24PB
	1600 A H1	3P	Advanced	FSREPPNW16H13PA
			Basic	FSREPPNW16H13PB
		4P	Advanced	FSREPPNW16H14PA
			Basic	FSREPPNW16H14PB
	1600 A H2	3P	Advanced	FSREPPNW16H23PA
			Basic	FSREPPNW16H23PB
		4P	Advanced	FSREPPNW16H24PA
			Basic	FSREPPNW16H24PB
	2000 A H1	3P	Advanced	FSREPPNW20H13PA
			Basic	FSREPPNW20H13PB
		4P	Advanced	FSREPPNW20H14PA
			Basic	FSREPPNW20H14PB
	2000 A H2	3P	Advanced	FSREPPNW20H23PA
			Basic	FSREPPNW20H23PB
		4P	Advanced	FSREPPNW20H24PA
			Basic	FSREPPNW20H24PB
	2500 A H1	3P	Advanced	FSREPPNW25H13PA
			Basic	FSREPPNW25H13PB
		4P	Advanced	FSREPPNW25H14PA
			Basic	FSREPPNW25H14PB
	2500 A H2	3P	Advanced	FSREPPNW25H23PA
			Basic	FSREPPNW25H23PB
		4P	Advanced	FSREPPNW25H24PA
			Basic	FSREPPNW25H24PB
	3200 A H1	3P	Advanced	FSREPPNW32H13PA
	0200 A 111	OI.	Basic	FSREPPNW32H13PB
		4P	Advanced	
		417		FSREPPNW32H14PA
	2200 4 110	20	Basic	FSREPPNW32H14PB
	3200 A H2	3P	Advanced	FSREPPNW32H23PA
		45	Basic	FSREPPNW32H23PB
		4P	Advanced	FSREPPNW32H24PA

Basic

FSREPPNW32H24PB

Circuit Breaker

MasterPacT NT-NW Spare Parts Micrologic unit MasterPacT NT-NW

Available to Resell and Perform





Description			Commercial reference
Spare parts life care kit			
MasterPacT NT10H1	ML2A 041Ir-StdMX/XF	130 V AC	SPKNTLC2AB2SXD
		240 V AC	SPKNTLC2AB2SXA
	ML2E 041Ir-StdMX/XF	130 V AC	SPKNTLC2EB2SXD
		240 V AC	SPKNTLC2EB2SXA
	ML5A 041Ir-StdMX/XF	130 V AC	SPKNTLC5AB2SXD
		240 V AC	SPKNTLC5AB2SXA
	ML5E 041Ir-StdMX/XF	130 V AC	SPKNTLC5EB2SXD
		240 V AC	SPKNTLC5EB2SXA
MasterPacT NT12H1	ML2A 041Ir-StdMX/XF	130 V AC	SPKNTLC2AC2SXD
		240 V AC	SPKNTLC2AC2SXA
	ML2E 041Ir-StdMX/XF	130 V AC	SPKNTLC2EC2SXD
		240 V AC	SPKNTLC2EC2SXA
	ML5A 041Ir-StdMX/XF	130 V AC	SPKNTLC5AC2SXD
		240 V AC	SPKNTLC5AC2SXA
	ML5E 041Ir-StdMX/XF	130 V AC	SPKNTLC5EC2SXD
		240 V AC	SPKNTLC5EC2SXA



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Master**PacT** NT-NW

Spare Parts

Micrologic Unit MasterPacT NT-NW





Available to Resell and Perform

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Description			Commercial reference
Spare parts life care kit			
MasterPacT NW10N1	ML2A 041Ir-StdMX/XF	130 V AC	SPKNWLC2AB1SXD
Waddin adr 1444 for the	WILLY COTT. THE STATE OF THE	240 V AC	SPKNWLC2AB1SXA
	ML2E 041Ir-StdMX/XF	130 V AC	SPKNWLC2EB1SXD
		240 V AC	SPKNWLC2EB1SXA
	ML5A 041Ir-StdMX/XF	130 V AC	SPKNWLC5AB1SXD
		240 V AC	SPKNWLC5AB1SXA
	ML5E 041Ir-StdMX/XF	130 V AC	SPKNWLC5EB1SXD
		240 V AC	SPKNWLC5EB1SXA
MasterPacT NW10H1	ML2A 041Ir-StdMX/XF	130 V AC	SPKNWLC2AB2SXD
		240 V AC	SPKNWLC2AB2SXA
	ML2E 041Ir-StdMX/XF	130 V AC	SPKNWLC2EB2SXD
		240 V AC	SPKNWLC2EB2SXA
	ML5A 041Ir-StdMX/XF	130 V AC	SPKNWLC5AB2SXD
		240 V AC	SPKNWLC5AB2SXA
	ML5E 041Ir-StdMX/XF	130 V AC	SPKNWLC5EB2SXD
		240 V AC	SPKNWLC5EB2SXA
MasterPacT NW12N1	ML2A 041Ir-StdMX/XF	130 V AC	SPKNWLC2AC1SXD
		240 V AC	SPKNWLC2AC1SXA
	ML2E 041Ir-StdMX/XF	130 V AC	SPKNWLC2EC1SXD
		240 V AC	SPKNWLC2EC1SXA
	ML5A 041Ir-StdMX/XF	130 V AC	SPKNWLC5AC1SXD
		240 V AC	SPKNWLC5AC1SXA
	ML5E 041Ir-StdMX/XF	130 V AC	SPKNWLC5EC1SXD
		240 V AC	SPKNWLC5EC1SXA
MasterPac I NW12H1	ML2A 041Ir-StdMX/XF	130 V AC	SPKNWLC2AC2SXD
		240 V AC	SPKNWLC2AC2SXA
	ML2E 041Ir-StdMX/XF	130 V AC	SPKNWLC2EC2SXD
lasterPacT NW12H1	MI SA OA AL OLINAVIVE	240 V AC	SPKNWLC2EC2SXA
	ML5A 041Ir-StdMX/XF	130 V AC	SPKNWLC5AC2SXD
	MUSE OF THE OF THE WAY	240 V AC	SPKNWLC5AC2SXA
	ML5E 041Ir-StdMX/XF	130 V AC	SPKNWLC5EC2SXD
MootorDooT NIW/46NI4	MI 2A 04 11 CtallAV/VE	240 V AC	SPKNWLC5EC2SXA
WasterPact INW folk i	ML2A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2AD1SXD
	ML2E 04 1Ir-StdMX/XF	240 V AC 130 V AC	SPKNWLC2AD1SXA SPKNWLC2ED1SXD
	WILZE 04 TII-StulWAAF	240 V AC	SPKNWLC2ED13AD SPKNWLC2ED1SXA
	ML5A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2LD13AA SPKNWLC5AD1SXD
	WESA 64 TII-StatWAA	240 V AC	SPKNWLC5AD1SXA
	ML5E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5ED1SXD
	WESE 64 TII-Staw/VXI	240 V AC	SPKNWLC5ED1SXA
MasterPacT NW16H1	ML2A 04., 1Ir-StdMX/XF	130 V AC	SPKNWLC2AD2SXD
Widotoli doi 1444 form	WEZ/ COT THE STANDARY	240 V AC	SPKNWLC2AD2SXA
	ML2E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2ED2SXD
	meee om modamin.	240 V AC	SPKNWLC2ED2SXA
	ML5A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5AD2SXD
		240 V AC	SPKNWLC5AD2SXA
	ML5E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5ED2SXD
		240 V AC	SPKNWLC5ED2SXA
MasterPacT NW20N1	ML2A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2AE1SXD
		240 V AC	SPKNWLC2AE1SXA
	ML2E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2EE1SXD
		240 V AC	SPKNWLC2EE1SXA
	ML5A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5AE1SXD
		240 V AC	SPKNWLC5AE1SXA
	ML5E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5EE1SXD
		240 V AC	SPKNWLC5EE1SXA
MasterPacT NW20H1	ML2A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2AE2SXD
		240 V AC	SPKNWLC2AE2SXA
	ML2E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC2EE2SXD
		240 V AC	SPKNWLC2EE2SXA
	ML5A 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5AE2SXD
		240 V AC	SPKNWLC5AE2SXA
	ML5E 04 1Ir-StdMX/XF	130 V AC	SPKNWLC5EE2SXD
		240 V AC	SPKNWLC5EE2SXA

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ComPacT C801 - C1251 with ComPacT NS800 - NS1250 Modernization EcoFit™ Life Extension Advanced - Low Voltage Part of PacT Series

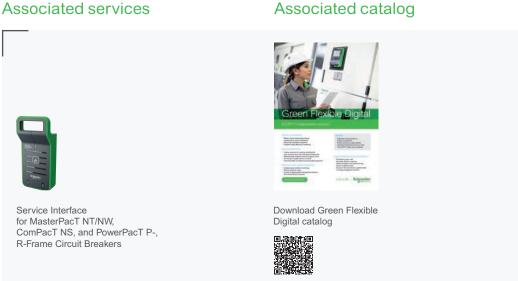


The ComPacT NS NA switch disconnector provides high performance in a convenient size. It is suitable both as an incomer or as a feeder for manual or remote electrical installation operation.

Main technical characteristics								
	ComPacT C801 - C1251	ComPacT NS800 - NS1250						
Rated operational voltage (V AC 50/60Hz) Ue	690 V	690 V						
Rated current (A) In 40°C	800-61250 A	800-1250 A						
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	50-150 kA	50-150 kA						

Associated Services by badge level

ComPacT	Authorized Services reseller		Certified EcoXpert partner				
			Power	Jpgrade	Power 9	Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform	
Maintenance	Manufacturer	\bigcirc	\bigcirc		\bigcirc		
EcoFit™ Life extension Advanced LV	ComPacT	\odot	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
Spare part Life care kit		\bigcirc		\odot	\odot	\bigcirc	









ComPacT C801

Manufacturer maintenance - Execution tools



Available to Resell





Description			Commercial reference
Standard working hours			
Manufacturer Maintenance	Trip Unit Compact superior	Withdrawable	FSM203111
& ProDiag	to 630 A	Fixed Time 1	FSM203151

Maintenance scheduling upgrade out of working hours	Commercial reference
PM Upgrade Time 2	FSM20032
PM Upgrade Time 3	FSM20033
PM Upgrade Time 4	FSM20034

Example of ordering Manufacturer Maintenance & ProDiag Trip Unit Compact Superior to 630 Fixed Time 1 During public holydays: FSM203151 + FSM20034.

For Pro-Diag applicable ranges please refer to Schneider Electric representative.







Circuit Breaker





Available to Resell and Perform

ComPacT C801 - C1251 with ComPacT NS800 - NS1250

EcoFit™ Life Extension Advanced - Modernization

Co-PERFORM modernization with a Specialized technician from Schneider Electric



Description			Commercial reference
Co-performance with certified	P&P 3P	·	(*)
•		Labor time 1 and 3	(*)
		Labor time 3	(*)
	P&P 4P		(*)
		Labor time 2	(*)
		Labor time 3	(*)
	Kit 3P		(*)
		Labor time 2	(*)
		Labor time 3	(*)
	Kit 4P		(*)
		Labor time 2	(*)
		Labor time 3	(*)
	P&P 3P	Labor time 1	(*)
		Labor time 2	(*)
		Labor time 3	(*)
	P&P 4P	Labor time 1	(*)
		Labor time 2	(*)
		Labor time 3	(*)
	Kit 3P	Labor time 1	(*)
	Kit 4P	Labor time 1	(*)

Labor time 1: standard working days.

Labor time 2: overtime. Labor time 3: public holidays.

(*) For ordering consult us.

В

C

D

Е

Circuit Breaker www.se.com

ComPacT C801 - C1251 with ComPacT NS800 - NS1250

EcoFit™ Life Extension Advanced









Available to Resell Available to Resell and Perform





Description				Commercial reference			
Standard Hours							
ECOFIT ComPacT Kit fixed	800 A N1	3P		FSRECKNS800N13PA			
		4P		FSRECKNS800N14PA			
	1000 A N1	3P		FSRECKNS1000N13PA			
		4P		FSRECKNS1000N14PA			
	1250 A N1	3P		FSRECKNS1200N13PA			
		4P		FSRECKNS1200N14PA			
ECOFIT ComPacT PP WD	800 A N1	3P	Advanced	FSREPPNS800N13PA			
			Basic	FSREPPNS800N13PB			
		4P	Advanced	FSREPPNS800N14PA			
			Basic	FSREPPNS800N14PB			
	1000 A N1	3P	Advanced	FSREPPNS1000N13PA			
			Basic	FSREPPNS1000N13PB			
		4P	Advanced	FSREPPNS1000N14PA			
			Basic	FSREPPNS1000N14PB			
	1250 A N1	3P	Advanced	FSREPPNS1200N13PA			
			Basic	FSREPPNS1200N13PB			
		4P	Advanced	FSREPPNS1200N14PA			
			Basic	FSREPPNS1200N14PB			

Labor time1						
Installation Tests Commissioning (Standard Hours)						
ECOFIT ComPacT Kit fixed	3P	FSRECKITINSTALL3P				
	4P	FSRECKITINSTALL4P				
ECOFIT ComPacT PP WD	3P	FSRECCINSTALL3P				
	4P	FSRECCINSTALL4P				

Labor time 2							
Installation Tests Commissioning (Extra Hours 1)							
ECOFIT ComPacT Kit fixed	3P	FSRECKITINST3PEH1					
	4P	FSRECKITINST4PEH1					
ECOFIT ComPacT PP WD	3P	FSRECCINST3PEH1					
	4P	FSRECCINST4PEH1					

Labor time 3							
Installation Tests Commissioning (Extra	Hours 2)						
ECOFIT ComPacT Kit fixed	3P	FSRECKITINST3PEH2					
	4P	FSRECKITINST4PEH2					
ECOFIT ComPacT PP WD	3P	FSRECCINST3PEH2					
	4P	FSRECCINST4PEH2					

Labor time1: standard working days.

Labor time 2: overtime. Labor time 3: public holidays.

Components

—	Medium Voltage Switchgear PIX Standard	A-34 A-37 A-39 A-52
8	MV/LV Transformers Minera – Oil immersed Trihal – Cast resin	
****	Low Voltage Switchboards Okken Prisma Blok SeT	C-77
Ĭ,	Circuit Breaker HWX Medium Voltage vacuum circuit breaker EVOLIS Medium Voltage vacuum circuit breaker SF MV SF6 circuit breaker MasterPacT NT NW Low voltage circuit breaker ComPacT C801 ComPacT NS Low voltage circuit breaker	D-88 D-90 D-91
ф	Components Medium Voltage Instrument Transformer Medium Voltage Fuses	E-102 E-109
PaC	Protection and Control Sepam Protection Relays MiCOM Protection Relays	

Components www.se.com

Indoor instrument transformers up to 40.5 kV for SM6 24 & 36

Medium Voltage

Comprehensive ranges of Current transformers and Voltage transformers designed for voltages from 0.72 kV to 36 kV and rated currents from 5 A to 4000 A.

Synthesis table by unit

		Units	5												
		QMC	CVM	DM1-A	DM1-D DMVL-D DM1M	DM1-W	DM2	GBC-A GBC-B	DMVL-A	DMV-A DMV-D	IMC	DM1-A DM1-D	DM1-W DM1-Z	GBC-A GBC-B	DMV-A DMV-D
				630 A								1250 A			
	Type 1			-	-	-	-	-	-	-	-	-	-	-	-
	Type 2	-	-	-	-	-	-	-	-			-	-	-	-
	Туре 3	-	-	-	-	-	-	-	-	-	-				
	Type 4	-	-							-	-	-	-	-	-
CT	Type 5	-	-	(*)	-	-	-	(*)	-	-	-	-	-	-	-
	LPCT Type 1	-	•	•	-	•	-	-	-	-	-	-	-	-	-
	LPCT type 3	-	-	-	•	-	-	-	-	-	-	-	-	-	-

^(*) Please, consult us.

Current Transformer type 1

- Characteristics according to IEC standard 61869-2
- · Single primary winding
- Double secondary winding for measurement and protectio

Short-time v	withstan	d curren	t Ith (k/	4)					
I1n (A)		10	20	30	50	75	100	150	200
Ith (kA)		1.2	2.4	3.6	6	10	10	10	10
t (s)		1							
Measurement	5 A	15 VA - cla	ss 0.5				·		
and protection		2.5 VA - 5F	20						

Current Transformer type 2

- Characteristics according to IEC standard 61869-2
- Single primary winding
- Double secondary winding for measurement and protection

Short-time w	Short-time withstand current Ith (kA)								
I1n (A)		50	100	200	400	600			
Ith (kA)		25							
t (s)		1							
Measurement	5 A	10 VA - class 0.5	15 VA - class 0.5						
and protection		2.5 VA - 5P20	2.5 VA - 5P20	5 VA - 5P20	5 VA - 5P20	7.5 VA - 5P20			















www.se.com Components

Indoor instrument transformers up to 40.5 kV for SM6 24 & 36

Medium Voltage



Current Transformer type 3

- Characteristics according to IEC standard 61869-2
- Single primary winding
- Double secondary winding for measurement and protection

Short-time v	withstar	nd current l	th (kA)		
I1n (A)		1000 1	250		
Ith (kA)		25			
t (s)		1			
Measurement	1 A	30 VA - class (0.5		
and protection		10 VA - 5P20			
	5 A	30 VA - class (0.5		
		10 VA - 5P20			



Current Transformer type 4

- Characteristics according to IEC standard 61869-2
- Single primary winding
- Double secondary winding for measurement and protection

Short-time v	withstar	d current It	h (kA)				
I1n (A)		10/20	20/40	50/100	100/200	200/400	300/600
Ith (kA)		5	12.5	12.5/21*	12.5/25*	12.5/25*	25
t (s)		1	0.8	1			
Measurement	1 A	1 VA - 10P30					
and protection	5 A	15 VA - class 0	1.5				
		5 VA - 5P10		5 VA - 5P15			

^(*) For 5 A protection.



Current Transformer type 5

- Characteristics according to IEC standard 61869-2
- Single or double primary winding
- Up to 3 secondary windings (for measure and/or for protection)
- Rated highest voltage 7.2 12 17.5 24 kV
- Rated primary current up to 630 A (for SM6 cubicles)
- Secondary currents 5 A or 1 A
- Version with one secondary winding
- · Version with two secondary windings
- Version with three secondary windings

Short-time v	vithstan	nd current It	h (kA)				
I1n (A)		50/100	100/200	200/400	100/200	300/600	
Ith (kA)		14.5	25	25	12.5/25*	25	
t (s)		1					
Measurement	5 A	30 VA - class 0	.5				
and protection		5 VA - 5P15	7.5 VA - 5P15				
		7.5 VA - 5P10	15 VA - 5P10				







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Indoor instrument transformers up to 40.5 kV for SM6 24 & 36

Medium Voltage





Low Power Current Transformer LPCT type 1

- Characteristics according to IEC standard 60044-8
- Large primary current range
- Direct output voltage for measurement and protection
- RJ45-8 pts secondary connector
- Insulation level 0.72 kV
- Internal diameter 130 mm

Minimum rated primary current	5 A
Rated nominal primary current	100 A
Rated extended primary current	1250 A
Rated nominal secondary output	22.5 mV
Accuracy class for measurement	0.5
Accuracy class for protection	5P
Accuracy limit factor	250
Rated short time thermal current	25 kA 1 s
Highest voltage (Um)	0.72 kV
Rated power-frequency withstand	3 kV



Low Power Current Transformer LPCT type 3

- Characteristics according to IEC standard 60044-8
- Large primary current range
- Direct output voltage for measurement and protection
- RJ45-8 pts secondary connector
- Insulation level 24 kV

Minimum rated primary current	5 A
Rated nominal primary current	100 A
Rated extended primary current	1250 A
Rated nominal secondary output	22.5 mV
Accuracy class for measurement	0.5
Accuracy class for protection	5P
Accuracy limit factor	400
Rated short time thermal current	40 kA 1 s
Highest voltage (Um)	24 kV
Rated power-frequency withstand	50 kV

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Indoor instrument transformers up to 40.5 kV for SM6 24 & 36





Current Transformer for DM1-A, DM1-D, DM2, IMC, GBC-A, and GBC-B units

- Characteristics according to IEC standard 61869-2
- Single primary winding
- Double secondary winding for measurement and protection

Short-time v	withstan	d currer	t Ith (kA)				
I1n (A)		50/100	75/150	100/200	150/300	200/400	300/600	1000/1250
Ith (kA)		16/20						25
t (s)		1						1
Measurement	5 A	7.5 VA - 15 VA - class 0.5						30 VA - class 0.5
and protection		2.5 VA - 5	VA - 5P20					10 VA - 5P20



Current Transformer for DM1-A, DM1-D, and DM2 units

- Characteristics according to IEC standard 61869-2
- Single primary winding
- Double secondary winding for measurement and protection

Short-time v	Short-time withstand current Ith (kA)						
I1n (A)		1000/1250					
Ith (kA)		40					
t (s)		1					
Measurement	5 A	30 VA - class 0.5 - Fs < 10					
and protection		10 VA - 5P20					



Low Power Current Transformer (LPCT) for DM1-A units, SM6-36

- Characteristics according to IEC standard 60044-8
- Large primary current range
- Direct output voltage for measurement and protection
- RJ45-8 pts secondary connector
- Insulation level 0.72 kV
- Internal diameter 130 or 190 mm
- In SM6-36, LPCT Type 1 can be used for 630 A, LPCT Type 2 can be used up to 1250 A

	LPCT Type 1	LPCT Type 2	
Minimum rated primary current	5 A	5 A	
Rated extended primary current	1250 A	2500 A	
Secondary output	22.5 mV - 100 A	22.5 mV - 100 A	
Accuracy class for measurement	0.5	0.5	
Accuracy class for protection	5P	5P	
Accuracy limit factor	250	400	
Rated short time thermal current	25 kA 1 s	40 kA 1 s	
Highest voltage (Um)	0.72 kV	0.72 kV	
Rated power-frequency withstand	3 kV	3 kV	

Components

Indoor instrument transformers up to 40.5 kV for SM6 24 & 36

Medium Voltage

Α

Synthesis table by unit

		Units	5											
		CM	CVM	DM1-A	DM1-D DMVL-D	DM1-W	DM2	GBC-A DM1M	GBC-B	DMVL-A	DMV-A	DMV-D	CM2	TM
				630 A								1250 A		
	Type 1		-					•			-	-	-	-
	Type 2	-	•	-	-	-	-	-	-	-		•	-	-
	Туре 3	-	-	-	-	-	-	•		-	-	-		-
VT	phase- earth fuse protected	-	-	-	-	-	-	•	•	-	-	-	-	-
	phase-	-	-	-	-	-	-	-	-	-	-	-	-	
	phase	-		-	-	-	-	-	-	-	-	-	-	-



Type 1 Voltage Transformer (phase-to-earth) 50 or 60 Hz

• Characteristics according to IEC standard 61869-3.

Rated voltage (kV)	24			
Primary voltage (kV)	10/√3	15/√3	15-20/√3	20/√3
Secondary voltage (V)	100/√3			
Thermal power (VA)	250			
Accuracy class	0.5			
Rated output for single primary winding (VA)	30	30		30
Rated output for double primary winding (VA)			30-50	

Type 2 Voltage Transformer (phase-to-earth) 50 or 60 Hz

• Characteristics according to IEC standard 61869-3.

Rated voltage (kV)	17.5	
Primary voltage (kV)	10/√3	15/√3
Secondary voltage (V)	100/√3	
Thermal power (VA)	250	
Accuracy class	0.5	
Rated output for single primary winding (VA)	30	30



Type 3 Voltage Transformer (phase-to-phase) 50 or 60 Hz

• Characteristics according to IEC standard 61869-3.

Rated voltage (kV)	24			
Primary voltage (kV)	10	15	20	
Secondary voltage (V)	100			
Thermal power (VA)	500			
Accuracy class	0.5			
Rated output for single primary winding (VA)	50			

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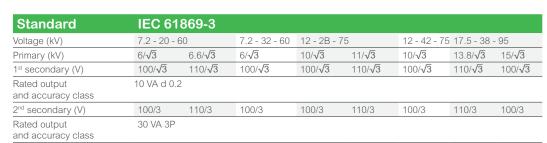
Indoor instrument transformers up to 40.5 kV for RM6 Medium Voltage

Metering Components

Phase-to-earth screened voltage transformer, placed behind the cables.

Fully protected in harsh environments, it does not require any fuse protection.

A flexible connection to the front T-type cable plugs can be easily disconnected for commissioning tests.





Ring-type current transformer used in a core unit.

- · Compact dimensions for easy installation
- Cost-effective compared to standard MV block CTs.

Rated & Insulation Voltage (kV)	0.72/3			
Thermal withstand	25 kA x 2s			
Transformation ratio	100/5	200/5	400/5	600/5
Rated output with class 0.2S Fs 5 (VA)	5			







Components

Indoor instrument transformers selection table for PIX Roll on the Floor

Medium Voltage





Wound (Block) type CT





Window type CT





Line VT with Fuse (on rear side)

Panel width	Current Rating	CTs per phase	CT type	Line VT on rear side	Line VT on CB truck	Earthing switch	N° of cables per phase	Panel depth
(mm)							(max.)	(mm)
600	800 A 1250 A	1	Wound (Block)	Yes	No	Yes	2	2150
600	800 A 1250 A	1	Wound (Block)	No	Yes	No	2	1650
600	800 A 1250 A	2	Wound (Block)	Yes	No	Yes	3	2150
600	800 A 1250 A	2	Wound (Block)	No	Yes	No	3	2150
800	2000 A 2500 A	1	Window	Yes	No	Yes	3	2150
800	2000 A 2500 A	1	Window	No	Yes	No	3	1650
800	2000 A 2500 A	2	Window	Yes	No	Yes	6	2650
800	2000 A 2500 A	2	Window	No	Yes	No	6	2150





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Fuses Transformer protection Medium Voltage



Fuse ratings for SM6 protection units such as PM, QM, QMB and QMC depend, among other things, on the following criteria:

- Service voltage
- Transformer rating
- Fuse technology (manufacturer).

Different types of fuses with medium loaded striker may be installed:

- Solefuse fuses as per standard UTE NCF 64.210
- Fusarc CF fuses as per IEC 60.282.1 recommendation and dimensions are related to DIN 43.625 standard.

For fuse-switch combination unit type QM, QMB, QMC, refer only to the selection table and reference list of fuses. For all other type of fuses, consult us.

Example: for the protection of a 400 kVA transformer at 10 kV, select either Solefuse fuses rated 43 A or Fusarc CF fuses rated 50 A.

Fuse selection table

The color code is linked to the rated voltage of the fuse

• Rating in A - no overload at -5°C < t < 40°C, ≤1000 m altitude.

Type of fuse Service voltage (kV)		sforme	_	(kVA) 125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	Rated voltage (kV
Solefuse (UTE NF	C stai	ndard	s 13.10	00.64.	210)													
5.5	6.3	16	31.5	31.5	63	63	63	63	63									
10	6.3	6.3	16	16	31.5	31.5	31.5	63	63	63	63							7.2
15	6.3	6.3	16	16	16	16	16	43	43	43	43	43	63					
20	6.3	6.3	6.3	6.3	16	16	16	16	43	43	43	43	43	63				24
Solefuse (general	case	, UTE	NFC st	andar	d 13.2	200)												
3.3	16	16	31.5	31.5	31.5	63	63	100	100									
5.5	6.3	16	16	31.5	31.5	63	63	63	80	80	100	125						7.2
6.6	6.3	16	16	16	31.5	31.5	43	43	63	80	100	125	125					-
10	6.3	6.3	16	16	16	31.5	31.5	31.5	43	43	63	80	80	100				12
13.8	6.3	6.3	6.3	16	16	16	16	31.5	31.5	31.5	43	63	63	80				- 17.5
15	6.3	6.3	16	16	16	16	16	31.5	31.5	31.5	43	43	63	80				17.5
20	6.3	6.3	6.3	6.3	16	16	16	16	31.5	31.5	31.5	43	43	63				- 24
22	6.3	6.3	6.3	6.3	16	16	16	16	16	31.5	31.5	31.5	43	43	63			24
usarc CF and SIE	3A (1)	(gene	eral cas	se for	QM, Q	MB ar	nd QM	C cub	icle ac	cordi	ng to l	IEC 62	271-1	05)				
3.3	16	25	40	50	50	80	80	100	125	125	160 (1) 200 (1)					
5	10	16	31.5	40	40	50	63	80	80	125	125	160 (1)					
5.5	10	16	31.5	31.5	40	50	50	63	80	100	125	125	160 (1) 160 (1))			7.2
6	10	16	25	31.5	40	50	50	63	80	80	125	125	160 (1) 160 (1))			
6.6	10	16	25	31.5	40	50	50	63	80	80	100	125	125	160 (1)				
10	6.3	10	16	20	25	31.5	40	50	50	63	80	80	100	100		200 (1)		- 12
11	6.3	10	16	20	25	25	31.5	40	50	50	63	80	100	100	125 (1	160 (1))	
13.8	6.3	10	16	16	20	25	31.5	31.5	40	50	50	63	80	80	100 (1	125 (1)	125 (1	17.5
15	6.3	10	10	16	16	20	25	31.5	40	50	50	63	80	80	100 (1) 125 (1)	125 (1)
20	6.3	6.3	10	10	16	16	25	25	31.5	40	40	50	50	63	80	100 (1)	125 (1	24
22	6.3	6.3	10	10	10	16	20	25	25	31.5	40	40	50	50	80	80	100 (1)
usarc CF for dry	type	transf	ormers	(2)														
30					10		10	16	20	25	31.5	31.5	50	50	63	63		-
31.5					10		10	16	20	25	25	31.5	50	50	63	63		- 36
33					6.3		10	16	20	25	25	31.5	40	50	50	63		-
34.5					6.3		10	16	20	25	25	31.5	40	50	50	63		
usarc CF oil imm	ersec	type	transf	ormer														
30					10		10	16	20	25	31.5	31.5	40	40	50	63		-
31.5					10		10	16	20	25	31.5	31.5	40	40	50	63		- 36
33					10		10	16	20	25	25	31.5	31.5	40	40	50		-
34.5					10		10	16	20	25	25	31.5	31.5	40	40	50		

⁽¹⁾ SIBA fuses.

Please consult us for overloads and operation over 40°C for France Transfo oil immersed type transformers.

⁽²⁾ This selection table has been prepared according to the technical characteristics of France Transfo. The characteristics of transformers and fuses may change according to manufactures and standards.

Protection and Control

	Medium Voltage Switchgear PIX Standard PIX MV PIX Roll on the floor SM6 FLUOKIT RM6	A-34 A-37 A-39 A-52
8	MV/LV Transformers Minera – Oil immersed Trihal – Cast resin	
* * * * * * * * * *	Low Voltage Switchboards Okken Prisma Blok SeT	C-77
X Z	Circuit Breaker HWX Medium Voltage vacuum circuit breaker EVOLIS Medium Voltage vacuum circuit breaker SF MV SF6 circuit breaker MasterPacT NT NW Low voltage circuit breaker ComPacT C801 ComPacT NS Low voltage circuit breaker	D-88 D-90 D-91
ф	Components Medium Voltage Instrument Transformer Medium Voltage Fuses	
P&C	Protection and Control Sepam Protection Relays MiCOM Protection Relays	

111

Sepam, MiCOM - Protection Relays for standard and usual applications or complex Distribution Systems Medium Voltage





Part of PowerLogic

Sepam series offers digital current or voltage protection for standard to complex distribution systems, each one dedicated to a single application.



Part of PowerLogic

A trusted name in protection relays worldwide; our Easergy MiCOM series contains all the applications you need for MV, HV and EHV protection. High-performance protection functions, Ethernet communication and Cyber security makes this range ready for modern challenges.



Associated Services by badge level

		Authorized Services reseller	Certified EcoXpert partner				
			Power L	Jpgrade	Power S	Services	
Service category	Service type	Resell	Resell	Perform	Resell	Perform	
EcoFit™ Life extension Advanced	Protection relays	\bigcirc			\odot	\bigcirc	

А

В

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