



EcoFit™ Life Extension Advanced for MasterPact M

Upgrade Solutions from MasterPact M to MasterPact MTZ

Catalogue 2023

Life Is On

Schneider
Electric



Discover the EcoFit™ web selector
<https://www.se.com/ww/en/ecofit-selector/#/ww/en/tools/ecofit-selector>



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Step into a new low-carbon and digital reality

EcoFit™ is our approach to modernize the electrical, critical power, cooling and automation systems that keep your business running while strengthening your environmental credentials. It equips your business with high-performance, digital electrical technologies and meaningful participation in the circular economy.

Supported by our qualified services experts, you give new life to your aging equipment with low-carbon footprint solutions.

Schneider Electric helps you make the right choice to revitalize your aging systems to balance between controlling the costs to maintain your installations and keep them running at peak performance.



Up to
25%

Our ambition is to help **extend the lifetime** of your asset by up to 25% with advanced monitoring and maintenance to reduce the installation carbon footprint.



Up to
90%

of savings by **replacing only the core components** of your electrical equipment and avoiding manufacturing new products, saving water, raw materials and CO2.

Map your business for an increased safety

Discover EcoConsult™ Actionable Insights for your Assets and Systems.

Your business continuity rely on the health of your electrical and automation systems. You deserve the best consultants for your safety, resiliency, efficiency and sustainability.

Get hold of the Schneider Electric Consultants who can help you evaluate and map your electrical and automation assets and systems with best-in-class Software & Digital technologies.

se.com/ecoconsult



EcoFit™

Circularity & Repairability Services

A responsible approach using **circularity** and **repairability** to maximize your resiliency, efficiency and safety while minimizing waste for the Planet

EcoFit™ 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™ – to let your business do the right thing while prospering in the new reality.

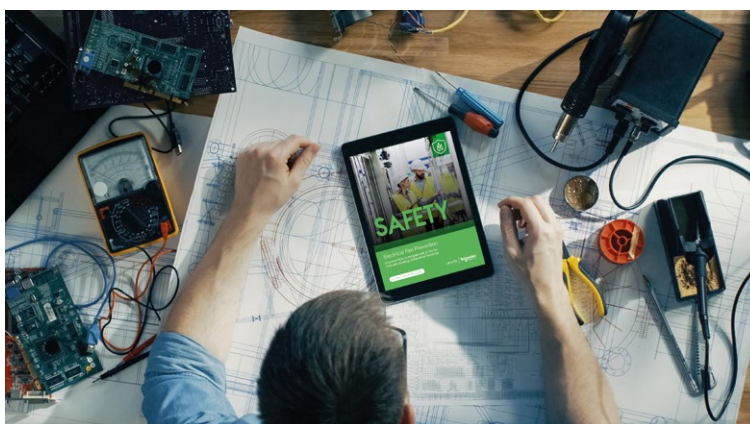


Spare Parts management is a key component towards Repairability

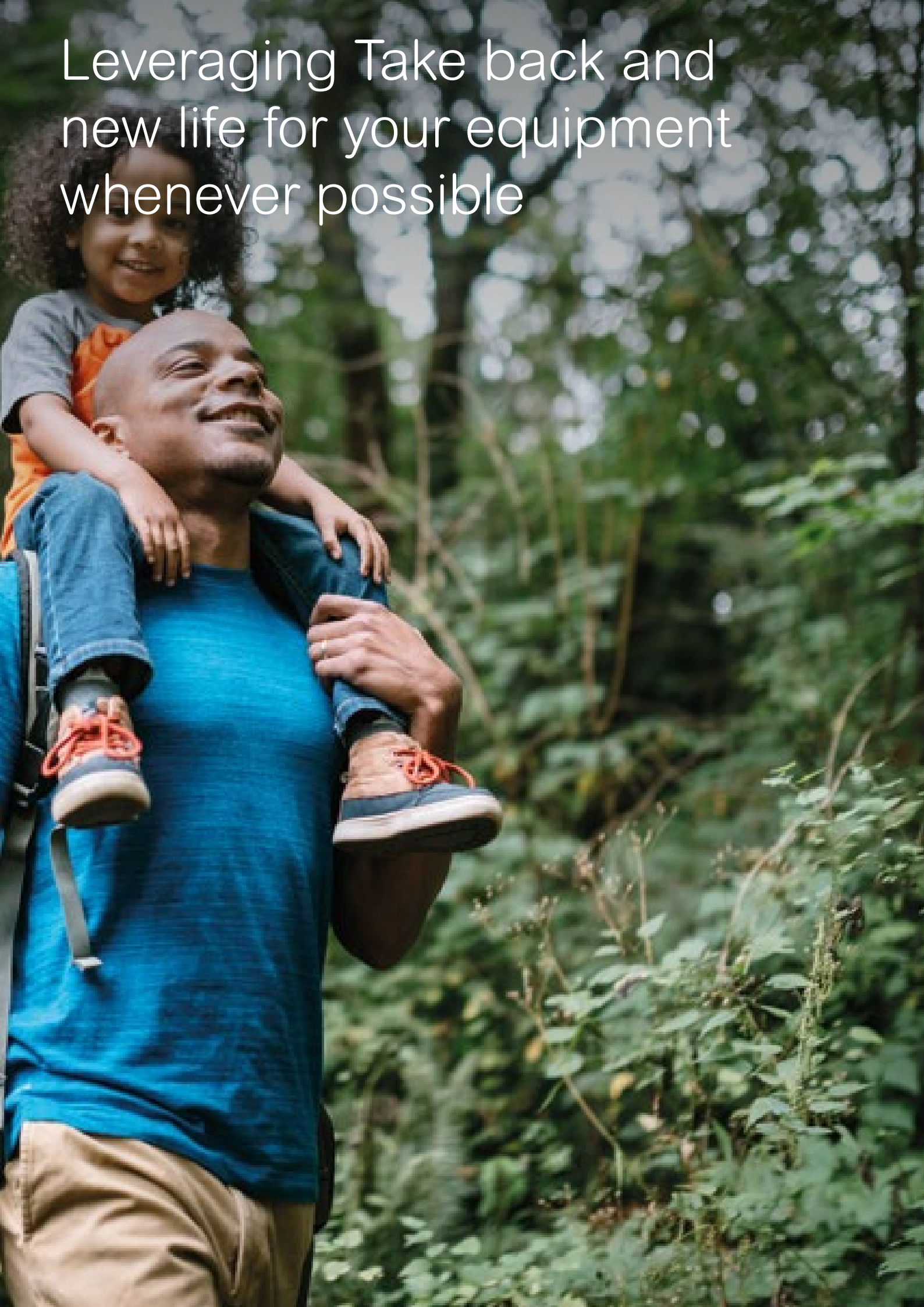
Managing and maintaining spare parts is crucial to optimize your products' longevity.

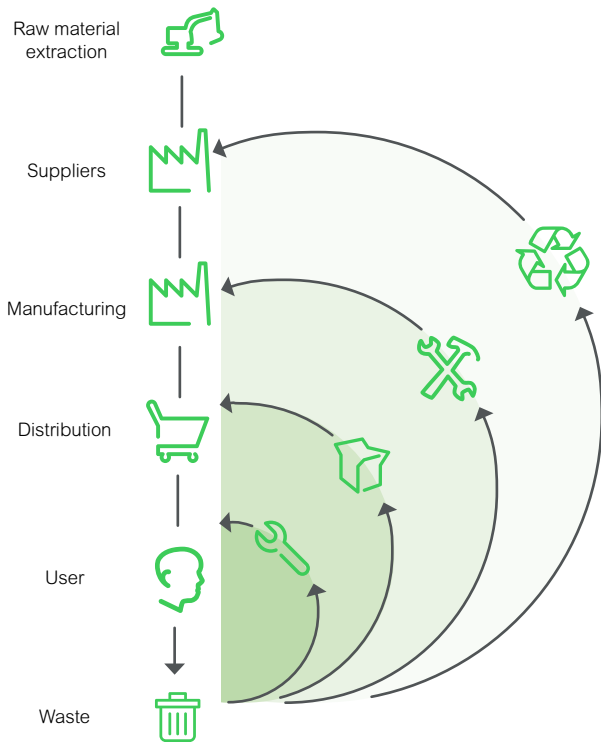
Find out how Schneider Electric can help ensure you have the right spare part at the right time.

[se.com/services](https://www.se.com/services)



Leveraging Take back and
new life for your equipment
whenever possible





What's Take back?

A win-win approach: with our Take Back solutions, we collect all your equipment, not limited to the Schneider Electric brand, to help you lower your footprint while helping the Planet.

Purchase new life equipment

By leveraging more recycled, re-using and enhancing existing raw materials, step into the new low carbon reality.

Make the most of our resources by purchasing a new life equipment, which has been refurbished to perfect working condition and minimize waste for the Planet.

1

TAKE BACK
We **collect** all your equipment, not limited to Schneider Electric brand

REFURBISHED
Circular Certified Offer for maximising re-use of assets

Schneider Electric
Circular Certified

8,000
tons of batteries collected globally for recycling in 2020.

SF6 Recovery

Transport, recycling or destruction certificate for traceability

2

NEW LIFE
We **recycle** your equipment and components, including recovering SF6 gas.



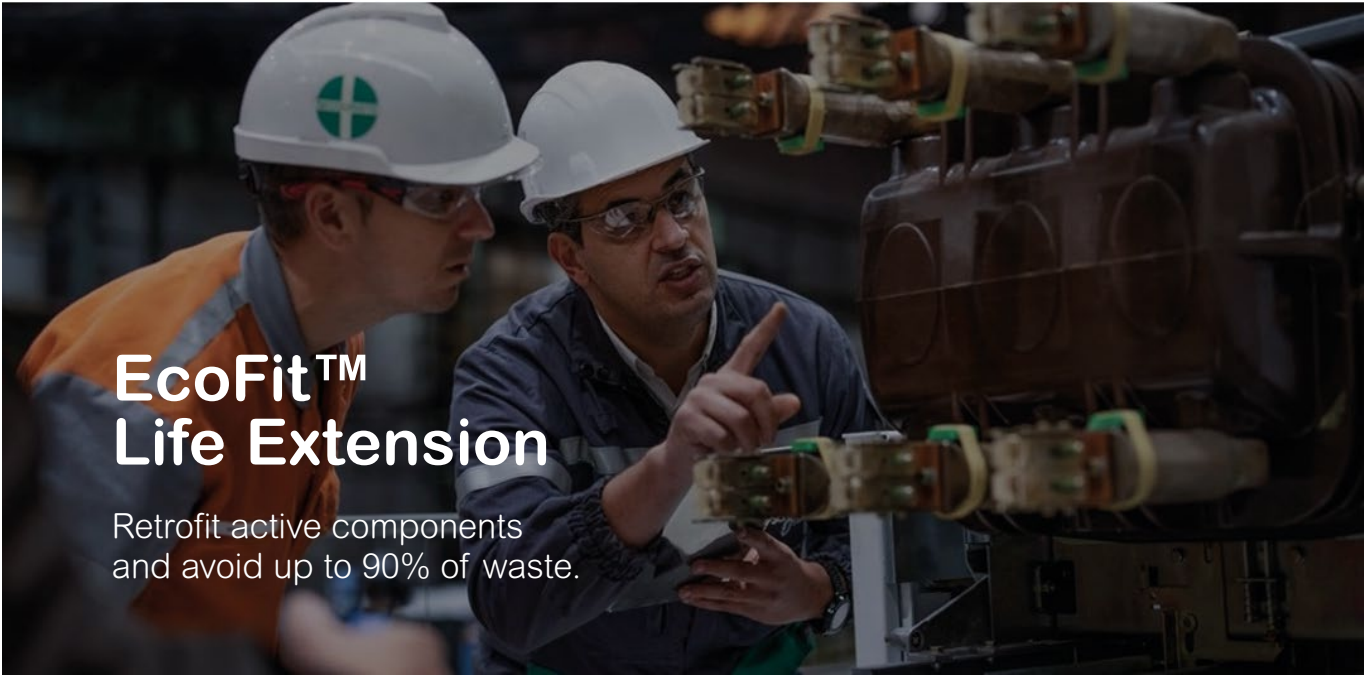
Ready to accelerate your
decarbonization journey?



Protect your business and accelerate your decarbonization journey with EcoFit™

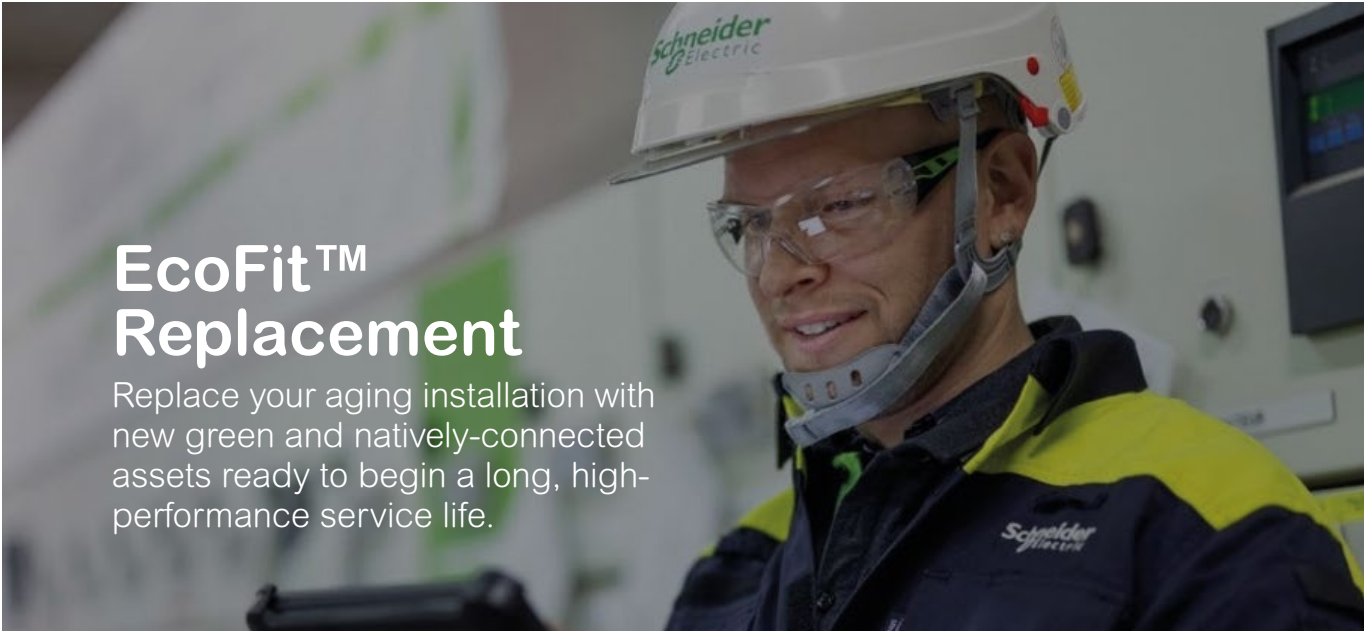
Supported by our qualified services experts, give new life to your aging equipment with low-carbon footprint solutions.

Schneider Electric helps you make the right choice to revitalize your aging systems to balance between controlling the costs to maintain your installations and keep them running at peak performance.



EcoFit™ Life Extension

Retrofit active components and avoid up to 90% of waste.



EcoFit™ Replacement

Replace your aging installation with new green and natively-connected assets ready to begin a long, high-performance service life.

EcoFit™ Life Extension

Extend the life of your equipment by connecting it with sensors or by replacing only the core components.

EcoFit™ Life Extension helps revitalizing your aging systems to balance between controlling the costs to maintain your installations and keep them running at peak performance.

2 sets of upgrade services that smartly fit your needs, enhance your equipment with connectivity and help you make the most out of what you have.



Essential

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 his life.

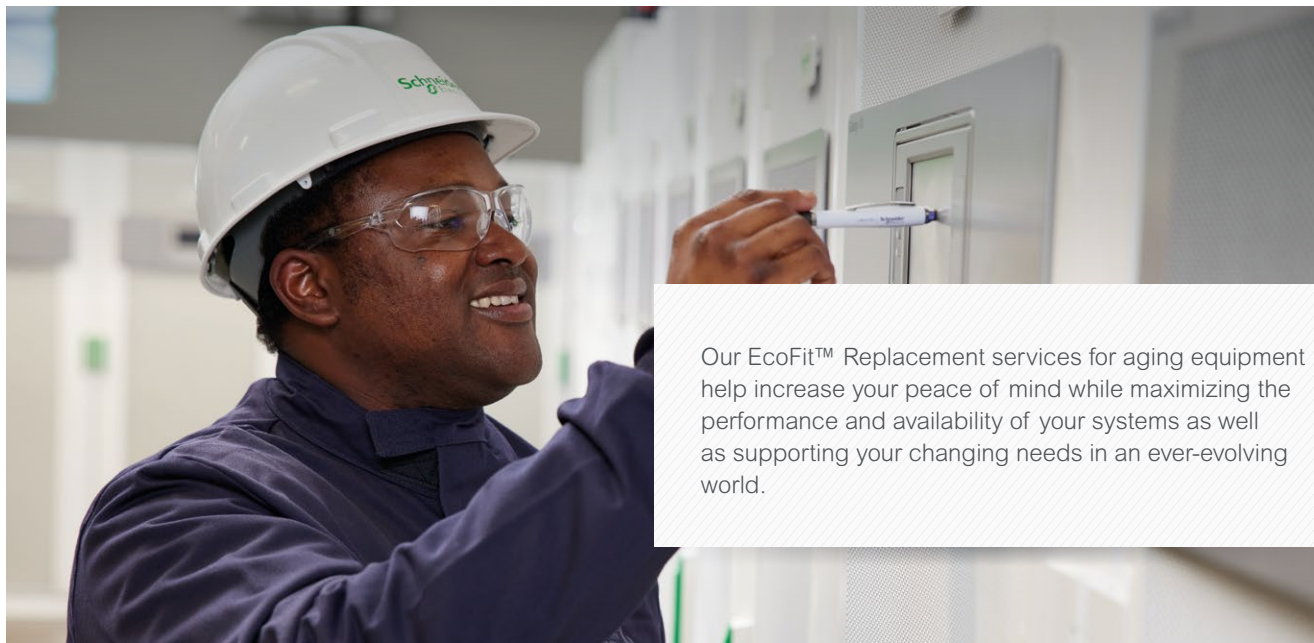
Advanced

Preserve your legacy investment and extend the lifespan of your equipment to help you reduce your CO2 footprint. Retrofit the core components of your equipment with the latest, environmentally-friendly technology to help ensure your equipment keeps running like new while complying with new standards.



EcoFit™ Replacement

Maintain your business continuity with the latest efficient and sustainable innovations and replace your aging installation with new green and natively-connected assets ready to begin a long, high-performance service life.



Our EcoFit™ Replacement services for aging equipment help increase your peace of mind while maximizing the performance and availability of your systems as well as supporting your changing needs in an ever-evolving world.



Help to minimize downtime potential risks.



Optimized total cost of ownership with a more energy-efficient solution.



Help reduce maintenance and service costs, over equipment lifetime.



What to do with your obsolete equipment?

Consider our Take Back* solution: we collect your equipment to help you lower your footprint that comes from buying a brand new one and it directly helps the Planet too!

Schneider Electric
expertise



A lifelong partner



Our common values

- Quality
- Safety
- Professionalism

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

6 200

services people in more than

88

countries

5%

of sales devoted to R&D

More than

115 000

EcoFit™ in services/delivered in
various business segments

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!



EcoFit™ Plan

We combine a complete modernization of your equipment together with our most innovative services plan in a single annual subscription.

se.com/services

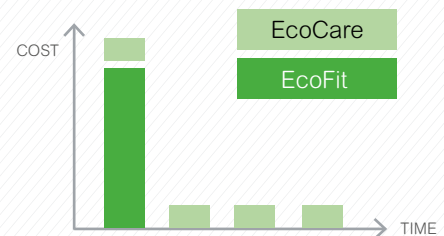
You aging equipment are putting your business resiliency at risks and your budget are not allowing you to invest right now into a modernization.

We introduce EcoFit Plan, to help you doing today what cannot wait any longer

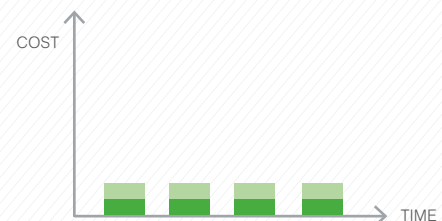
We combine a complete modernization of your equipment together with our most innovative services plan in a single annual subscription.

- EcoFit, Circularity & Reparability Services, for the modernization of your equipment.
- EcoCare Membership, exclusive access to our experts, 24/7 remote monitoring of your assets by Schneider Electric Experts and exclusive members rates and benefits on all other services.
- Combined in a single annual subscription: you own the asset and you spread out the cost throughout 3 to 7 years.

INSTEAD OF:



TRY THIS:



Your digital transformation



EcoStruxure™ Power Digitization program for Electrical Distribution

EcoStruxure™ Power Digitization program is the best way to provide an improved visibility on an existing electrical distribution system.

Wireless smart humidity or temperature sensors as well as power meters or numerical protection devices, offer a fast, seamless and cost-effective way to digitize and monitor your LV and MV assets.

On premise or Cloud based centralized information with our EcoStruxure Power Monitoring Expert software provides strategic information relative to Power Reliability, Energy Efficiency and Asset Management of your system.



EcoCare Membership



EcoCare Membership

Next Generation Services Membership

With EcoCare membership, we offer the **depth of our expertise** combined with **innovative digital capabilities** across the **equipment lifecycle**.

As EcoCare member, you have a **trusted expert by your side**, who has comprehensive knowledge of the unique systems that power your business, so that you can **minimize downtime, maximize operational efficiency, safety**, and contribute to a **smaller carbon footprint**.

From the first day a customer's **equipment is installed**, a dedicated **customer success management team** becomes the go-to coach orchestrating teams of **remote, on-site services experts** and partners. EcoCare members unlock the full potential of your **connectable products** and your digital twins, so that our experts can **proactively monitor 24/7, support, maintain, fix, advice and empower your team**. EcoCare also gives you access to **exclusive, faster response times on-site intervention, discounts on spare parts** and more.



Overview



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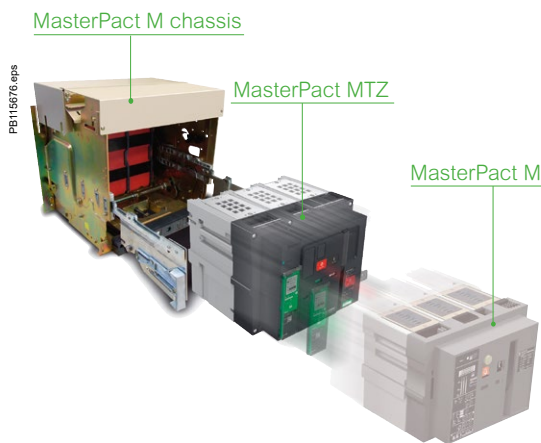
EcoFit™ Life Extension Advanced - Plug & Play

A

The Plug & Play solution lets you retrofit the latest generation of MasterPact MTZ circuit breakers in the existing MasterPact M chassis.

The standard MasterPact MTZ is adapted in the factory for installation in a MasterPact M chassis.

More than just a replacement... EcoFit™ Life Extension Advanced - Plug & Play solution brings all the benefits of the MasterPact MTZ range, including the advanced features of Micrologic X control units.



EcoFit™ Life Extension Advanced - Plug & Play applications

- Drawout circuit breakers.
- 800 to 3200 A.
- All performance levels except for L1.
- Communication: Consult Schneider Electric specialist to support and upgrade current installation with latest communicating solution. Connected and disconnected positions of the chassis (CE and CD switches) are not available for communication
- EcoFit™ Life Extension Advanced - MasterPact Plug & Play does not cover 1000 V and DC applications nor MasterPact MTZ with corrosion protection or other specific MasterPact M such as H1 3S, H1 NGP.
- EcoFit™ Life Extension Advanced - MasterPact Plug & Play can not be used if the MasterPact M chassis is equipped with a test position switch (CT) solution and/or with the 24 supplementary auxiliary contacts (OFSUP block)

Rating	Fixed	Withdrawable
6300A		
4000A		
3200A		Plug & Play solutions
800A		

Temperature Derating

The table below indicates for MasterPact M, the maximum current rating, for each connection type, as a function of the ambient temperature around the circuit breaker and the busbars.

The same temperature derating applies to the EcoFit™ Life Extension Advanced - Plug & Play solution.

MasterPact M			M08N/H	M10N/H	M12N	M12H	M16N/H	M20N/H	M25N/H	M32H
Version	Connection	T °C								
Drawout	Front or rear horizontal	40	800	1000	1250	1250	1600	2000	2500	3150
		45	800	1000	1250	1250	1600	2000	2500	3080
		50	800	1000	1250	1250	1600	2000	2430	3000
		55	800	1000	1250	1250	1600	2000	2350	2900
		60	800	1000	1250	1250	1550	1900	2250	2800
		40	800	1000	1250	1250	1600	2000	2500	3200
	Rear vertical	45	800	1000	1250	1250	1600	2000	2500	3200
		50	800	1000	1250	1250	1600	2000	2500	3100
		55	800	1000	1250	1250	1600	2000	2500	3000
		60	800	1000	1250	1250	1550	1900	2400	2900

A Plug & Play solution can only be implemented with MasterPact M chassis in full working order, please see section A-9 for details.

EcoFit™ Life Extension Advanced - Plug & Play

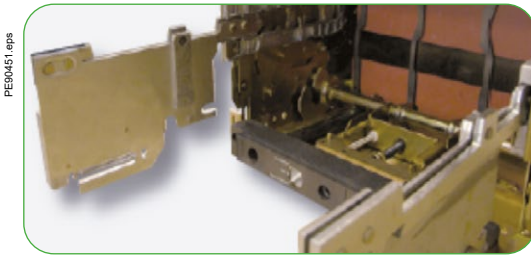
Overview - How to choose?

A

Installation in 2 steps by qualified personnel

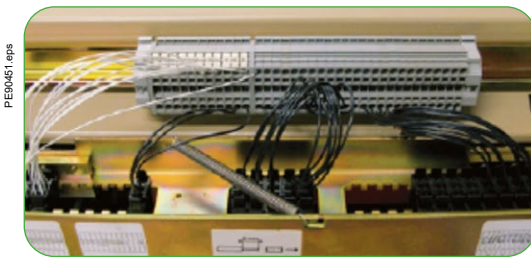
- The original MasterPact M chassis is first modified to receive the Plug & Play device.
- The factory-adapted Plug & Play MasterPact MTZ is then installed in the modified MasterPact M chassis.

On-site retrofit operations are easy to implement



1. Replacement of the original drawer side plates

Two new side plates are installed in place of the original plates on the MasterPact M chassis.



2. Replacement of the the auxiliary wiring connector plate

MasterPact MTZ functions are pre-wired.

The required functions may be connected on-site using the supplied wiring instructions.

- The switchboard door requires no modifications.
- The original escutcheon and cutout are used for the new device.
- The only modifications required are the replacement of the drawer side plates and the auxiliary wiring connector plate.
- These changes make it impossible to install a MasterPact M or standard MasterPact MTZ in the modified chassis, only a factory-adapted Plug & Play MasterPact MTZ can be installed.



- The Plug & Play solutions modernise MasterPact M circuit breakers with very short on-site servicing times. It is also ideal for switchboards installed in small rooms with no rear access.
- The combination of a MasterPact M chassis and a MasterPact MTZ circuit breaker has been factory tested, in particular for temperature rise and breaking capacity.
- **The Plug & Play MasterPact MTZ complies with standard IEC 60947-2.**

EcoFit™ Life Extension Advanced - Masterkit

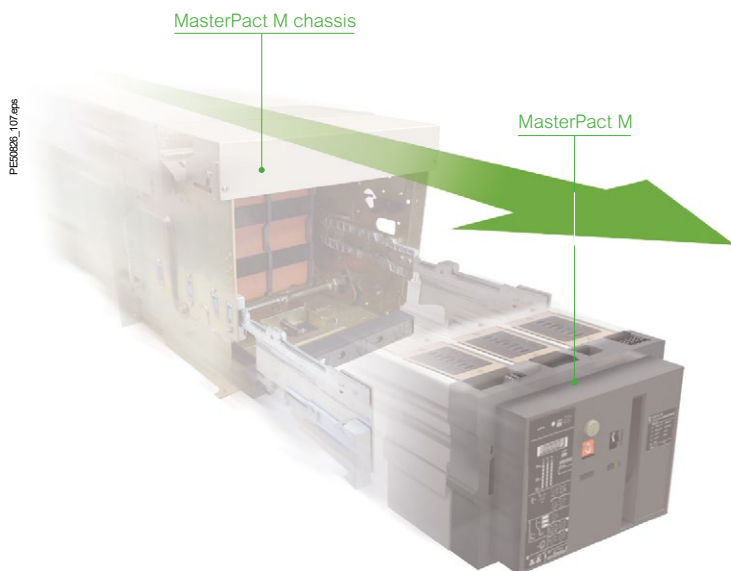
A

EcoFit™ Life Extension Advanced - Masterkit brings the characteristics and functions of the MasterPact MTZ range, whatever the rating and performance level of the MasterPact M device. This solution is recommended for high performance levels to upgrade your installation. The EcoFit™ Life Extension Advanced - Masterkit solution is designed to replace a MasterPact M circuit breaker by the latest MasterPact MTZ generation. More than just a replacement...EcoFit™ Life Extension Advanced - Masterkit solution brings the benefits of the MasterPact MTZ range, including the advanced features of Micrologic X control units.

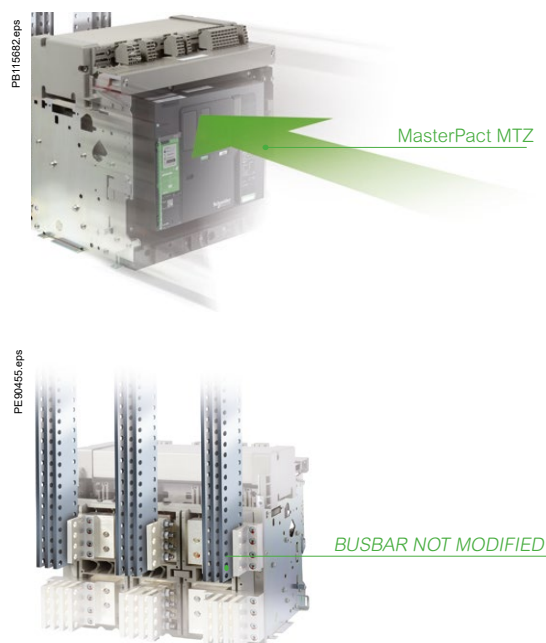
EcoFit™ Life Extension Advanced - Masterkit advantages

- No modification of power circuit connections required.
- No modification of the escutcheon or cutouts required (up to M32).
- Tested and validated connection systems to bring full performance in terms of breaking capacity and temperature rise.

1. Removal



2. Replacement



EcoFit™ Life Extension Advanced - Masterkit brings all the benefits of the enhanced features of MasterPact MTZ circuit breakers and accessories. The installation requires access to the busbars.

- Once upgraded, the switchboard is fully compatible with the MasterPact MTZ range, opening the door to circuit-breaker interchangeability.
- Installation down-time is reduced because there is no need to modify the busbars.*
- **The EcoFit™ Life Extension Advanced - Masterkit complies with standard IEC 60947-2.**

EcoFit™ Life Extension Advanced - Masterkit applications

Can be used for both fixed and drawout devices with rear connections only.

- For fixed devices, the MasterPact MTZ comes with connections that enable the replacement of the former circuit breaker without the modification of the busbars.
- For drawout device, the new chassis is equipped with special connections that replicate the connection points on the old MasterPact M chassis.

EcoFit™ Life Extension Advanced - Masterkit solutions do not cover neither 1000V and DC applications nor ratings higher than M32 4P with Neutral on right side and M20L 4P with Neutral on right side or other specific MasterPact M such as H1 3S, H1 NPG. Consult Schneider Electric services (Grenoble EcoFit™ center).

EcoFit™ Life Extension Advanced - Masterkit solutions are not suitable for MasterPact with corrosion protection.

Rating	Fixed	Withdrawable
6300 A [1]	Masterkit solutions	
4000 A		
3200 A [2]		
800 A		

[1] For 5000A: version 3P fixed only; for 6300A drawout horizontal connections: consult us.

[2] For L1: only drawout version for M08 to M20.

* Refer to table page A-5 (Overlapping of busbar connections)

EcoFit™ Life Extension Advanced - Masterkit

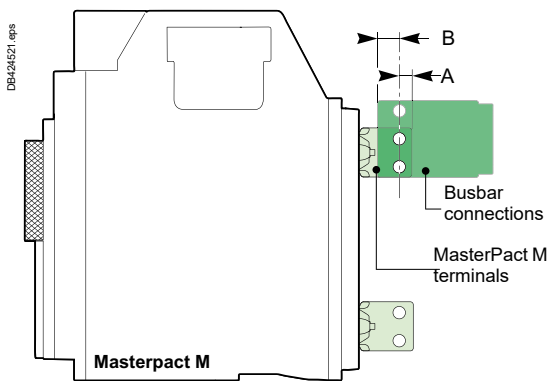
Temperature derating

The table below indicates for MasterPact M, the maximum current rating, for each connection type, as a function of the ambient temperature around the circuit breaker and the busbars.

The same temperature derating applies to the EcoFit™ Life Extension Advanced - Masterkit solution [3].

MasterPact M			M08	M08	M10	M10	M12	M12	M16	M16	M20	M20	M25	M32	M40	M50	M63
			N/H	L	N/H	L	N/H	L	N/H	L	N/H	L	N/H	H	H	H	H
Version	Connection	T °C															
Drawout	Front or rear horizontal	40	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2500	3150	3800	5000	
		45	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2500	3080	3650	4750	
		50	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2430	3000	3500	4500	
		55	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2350	2900	3300	4250	
		60	800	800	1000	1000	1250	1250	1550	1500	1900	1900	2250	2800	3100	4000	
		40	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2500	3200	4000	5000	6300
	Rear vertical	45	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2500	3200	3800	5000	6000
		50	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2500	3100	3600	5000	5700
		55	800	800	1000	1000	1250	1250	1600	1600	2000	2000	2500	3000	3400	5000	5400
		60	800	800	1000	1000	1250	1250	1550	1600	1900	1900	2400	2900	3200	4700	5100
Fixed	Front or rear horizontal	40	800		1000		1250		1600		2000		2500	3200	4000	5000	
		45	800		1000		1250		1600		2000		2500	3200	4000	5000	
		50	800		1000		1250		1600		2000		2500	3200	4000	5000	
		55	800		1000		1250		1600		2000		2500	3200	3900	5000	
		60	800		1000		1250		1600		2000		2500	3100	3800	5000	
		40	800		1000		1250		1600		2000		2500	3200	4000	5000	
	Rear vertical	45	800		1000		1250		1600		2000		2500	3200	4000	5000	
		50	800		1000		1250		1600		2000		2500	3200	4000	5000	
		55	800		1000		1250		1600		2000		2500	3200	4000	5000	
		60	800		1000		1250		1600		2000		2500	3100	3900	5000	

[3] For M40 fixed and drawout versions, Masterkit solution is limited to 3200A at 35°C, 3160A at 45°C and 2960A at 55°C.



Overlapping of busbar connections

Check the overlapping dimension of the power busbars of the MasterPact M. If dimension is higher than B, Masterkit can not be used unless busbars are modified.

Type of replacement	Dimensions			
	A	B (Maximum)	A	B (Maximum)
M08-40 with MTZ2				
Fixed 3-pole and 4-pole			Drawout 3-pole and 4-pole	
M08-16 / MTZ2 08-16 Vertical Rear connections	12.5mm	35mm	12.5mm	35mm
M20-25 / MTZ2 20-25 Vertical Rear connections	12.5mm	30mm	12.5mm	30mm
M32 / MTZ2 32 Vertical Rear connections	15mm	15mm	15mm	15mm
M40 / MTZ2 40 Vertical Rear connections	15mm	35mm	15mm	35mm
M08-16 / MTZ2 08-16 Horizontal Rear connections	17mm	17mm	12.5mm	17mm
M20-25 / MTZ2 20-25 Horizontal Rear connections	18mm	22mm (Upstream) 15mm (Downstream)	12.5mm	22mm (Upstream) 15mm (Downstream)
M32 / MTZ2 32 Horizontal Rear connections	15mm	15mm	15mm	16mm
M40 / MTZ2 40 Horizontal Rear connections	15mm	17mm	15mm	17mm

M50-63 with MTZ3				
Fixed 3-pole			Drawout 3-pole and 4-pole	
M50 / MTZ3 50 Vertical Rear connections	15mm	35mm	15mm	35mm
M50 / MTZ3 50 Horizontal Rear connections	15mm	17mm	15mm	29mm
M63 / MTZ3 63 Vertical Rear connections	Na	Na	15mm	35mm

Energy Efficiency and Energy Management

A

As energy costs increase and more stringent greenhouse gas emission regulations are introduced, it is essential to find ways to reduce energy consumption.

Plug & Play, Masterkit solutions using MasterPact MTZ with Micrologic X, bring you more

Measurement

Energy management is the challenge of present & future generations. To meet this requirement Micrologic X incorporates all the measuring functions of a power meter including **Energy Class 1 accuracy** third-party certified.

Diagnostics & Maintenance

Optimal continuity of services as well as extended life of equipment is one of customers main concerns. For that purpose **Micrologic X integrates new extended diagnosis** and assistance to maintenance.

Protection

Improvement of the reliability of Micrologic X, dual settings and additional facilities **increase the performance and the flexibility** of low voltage systems of protection.



14 Optional digital modules to digitally customize Micrologic X. Optional digital modules can be purchased through GoDigital, open

24/7

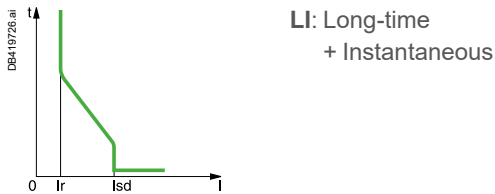
Communication

It is now usual to make available most of the information processed by a Protection Control Unit, locally for network operation and maintenance, and remotely for higher functions of control, monitoring, energy efficiency and assets management.

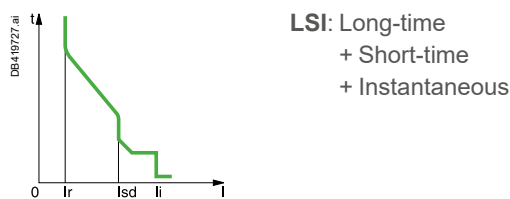
To comply with this requirement Micrologic X, **incorporates several channels of communication, including Ethernet and wireless communication facilities.**

Energy Efficiency and Energy Management

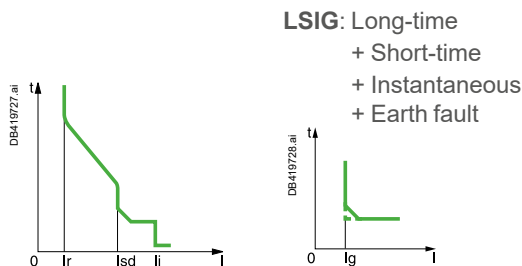
> Protection for Micrologic 2.0X



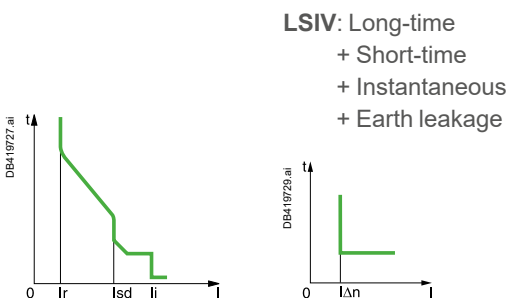
... Micrologic 5.0X



... Micrologic 6.0X



... Micrologic 7.0X



> Additional features of protections

Along with the LSIGV protections, new additional features and facilities allow to improve the protection performance of a system when difficulties are met such as low values of the short circuit current or the need to limit the thermal constraints to the equipment: dual setting, fine setting, zone selective interlock, fast tripping.

> Measurement

Micrologic X measures all electrical parameters of an electrical network: Currents, voltages, frequency, power, energy power factor, current and power demand.

Min/Max and average values are calculated for most of the parameters. Optional digital modules allow the measurement of energy per phase, and to perform wave form capture.

> Diagnostics & Maintenance

Diagnostic features are intended to limit the risk of power interruptions and to re-energize the installation as quickly as possible after a trip.

They provide warnings and messages to help the user in scheduling both preventive and predictive maintenance, and device replacement.

> Communication

New generation Micrologic X incorporates wireless technology (Bluetooth and NFC) that allow to get most of the critical information (protection, measurements, diagnostics and maintenance) inside your mobile device by means of MasterPact MTZ mobile App.

Alternatively, MasterPact MTZ can be equipped with Ethernet communication through either IFE module or the new embedded EIFE that includes embedded webpages.

> Optional digital modules

As an option fourteen digital modules are available on Schneider Electric WEB Site. They can be downloaded 24/7 to upgrade Micrologic X.

EcoFit™ Life Extension Advanced - Plug & Play^[1] or Masterkit solutions using MasterPact MTZ with Micrologic X: Go digital and take advantage of Schneider Electric Services throughout the product lifecycle, thanks to the native connectivity of MasterPact MTZ.

- Leverage MasterPact MTZ data and intelligence to implement Services actions relating Maintenance, Remote Facility Management, Asset Management and Energy Management.
- Native connectivity of MasterPact MTZ integrated into the Smart Panels architecture generates remote data collection, enabling Services including:
- Maintenance planning with Facility Hero, the digital maintenance log book
- Facility management with Facility Insights
- Condition Base Maintenance with permanent equipment monitoring, to define the right moment to maintain.
- Asset management & Alarm management, to improve facility operation management.
- Energy Efficiency & Power Quality management, to optimize energy costs, assets utilization and facility operations.

^[1] EcoFit™ Life Extension Advanced - Plug & Play does not offer the EIFE interface: connected and disconnected positions of the chassis (CE and CD switches) are not available.

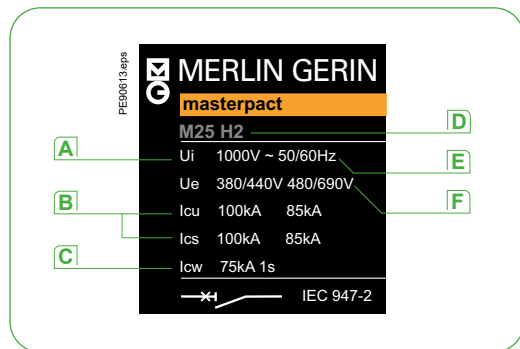


Note: Please refer to the MasterPact MTZ catalogue for more details.

How to choose?

MasterPact Substitution Guide

A



Identification of the device to be replaced

- A** Rated insulation voltage.
- B** Breaking capacity.
- C** Short time withstand.
- D** Type of breaker.
- E** Rated frequency.
- F** Rated operational voltage.

Selection of the replacement device

Circuit breaker (I_{cu} 220/440 V)									
Original MasterPact M circuit breaker frame size 3P/4P	Replacement MasterPact MTZ circuit breaker frame size 3P/4P	Original MasterPact M circuit breaker type	Replacement MasterPact MTZ circuit breaker type	Original MasterPact M circuit breaker type	Replacement MasterPact MTZ circuit breaker type	Original MasterPact M circuit breaker type	Replacement MasterPact MTZ circuit breaker type	Original MasterPact M circuit breaker type	Replacement MasterPact MTZ circuit breaker type
M08	MTZ2 08	N1 (40 kA)	N1 (42 kA)	H1 (65 kA)	H1 (66 kA)	H2 (100 kA)	H2 (100 kA)	L1 (130 kA) [2]	L1 (150 kA)
M10	MTZ2 10	N1 (40 kA)	N1 (42 kA)	H1 (65 kA)	H1 (66 kA)	H2 (100 kA)	H2 (100 kA)	L1 (130 kA) [2]	L1 (150 kA)
M12	MTZ2 12	N1 (40 kA)	N1 (42 kA)	H1 (65 kA)	H1 (66 kA)	H2 (100 kA)	H2 (100 kA)	L1 (130 kA) [2]	L1 (150 kA)
M16	MTZ2 16	N1 (40 kA)	N1 (42 kA)	H1 (65 kA)	H1 (66 kA)	H2 (100 kA)	H2 (100 kA)	L1 (130 kA) [2]	L1 (150 kA)
M20	MTZ2 20	N1 (55 kA)	H1 (66 kA)	H1 (75 kA)	H2 (100 kA) [1]	H2 (100 kA)	H2 (100 kA)	L1 (130 kA) [2]	L1 (150 kA)
M25	MTZ2 25	N1 (55 kA)	H1 (66 kA)	H1 (75 kA)	H2 (100 kA) [1]	H2 (100 kA)	H2 (100 kA)	-	-
M32	MTZ2 32	-	-	H1 (75 kA)	H2 (100 kA) [1]	H2 (100 kA)	H2 (100 kA)	-	-
M40	MTZ2 40	-	-	H1 (75 kA)	H2 (100 kA) [1]	H2 (100 kA)	H2 (100 kA)	-	-
M50	MTZ3 50	-	-	H1(100kA)	H1 (100 kA)	H2 (150 kA)	H2 (150 kA)	-	-
M63	MTZ3 63	-	-	H1(100kA)	H1 (100 kA)	H2 (150 kA)	H2 (150 kA)	-	-

[1] Or H1 if $I_{sc} < 66$ kA.

[2] L type only with Masterkit solution.

Switch-disconnector (I_{cw} kA rms 1s AC 50/60Hz)							
Original MasterPact M switch-disconnector frame size 3P/4P	Replacement MasterPact MTZ switch-disconnector frame size 3P/4P	Original MasterPact M switch-disconnector type	Replacement MasterPact MTZ switch-disconnector type	Original MasterPact M switch-disconnector type	Replacement MasterPact MTZ switch-disconnector type	Original MasterPact M switch-disconnector type	Replacement MasterPact MTZ switch-disconnector type
M08	MTZ2 08	NI (30 kA)	NA (42 kA)	HI (50 kA)	HA (66 kA)	HF (50 kA)	HF (85 kA)
M10	MTZ2 10	NI (30 kA)	NA (42 kA)	HI (50 kA)	HA (66 kA)	HF (50 kA)	HF (85 kA)
M12	MTZ2 12	NI (30 kA)	NA (42 kA)	HI (50 kA)	HA (66 kA)	HF (50 kA)	HF (85 kA)
M16	MTZ2 16	NI (30 kA)	NA (42 kA)	HI (50 kA)	HA (66 kA)	HF (50 kA)	HF (85 kA)
M20	MTZ2 20	NI (55 kA)	HA (66 kA)	HI (75 kA)	HF (85 kA)	HF (75 kA)	HF (85 kA)
M25	MTZ2 25	NI (55 kA)	HA (66 kA)	HI (75 kA)	HF (85 kA)	HF (75 kA)	HF (85 kA)
M32	MTZ2 32	-	-	HI (75 kA)	HF (85 kA)	HF (75 kA)	HF (85 kA)
M40	MTZ2 40	-	-	HI (75 kA)	HF (85 kA)	HF (75 kA)	HF (85 kA)
M50	MTZ3 50	-	-	HI(100kA)	-	HF (100 kA)	-
M63	MTZ3 63	-	-	HI(100kA)	-	HF (100 kA)	-

Overview - How to choose?

How to choose?

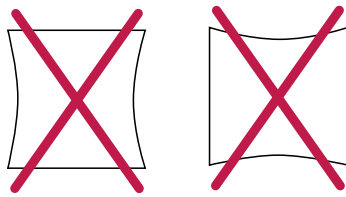
MasterPact Substitution Guide

EcoFit™ Life Extension Advanced - Plug & Play solution requires MasterPact M chassis in full working order. If the chassis is bent or damaged, a Plug & Play solution is not possible and the Masterkit solution must be used.

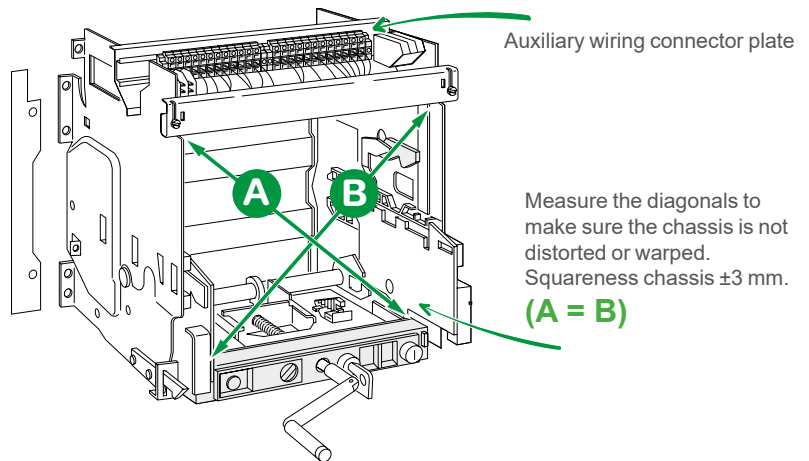
A

Before ordering a Plug & Play solution, check the condition of the chassis as indicated below.

Check visually for any deformed parts (e.g. inward or outward bulges)



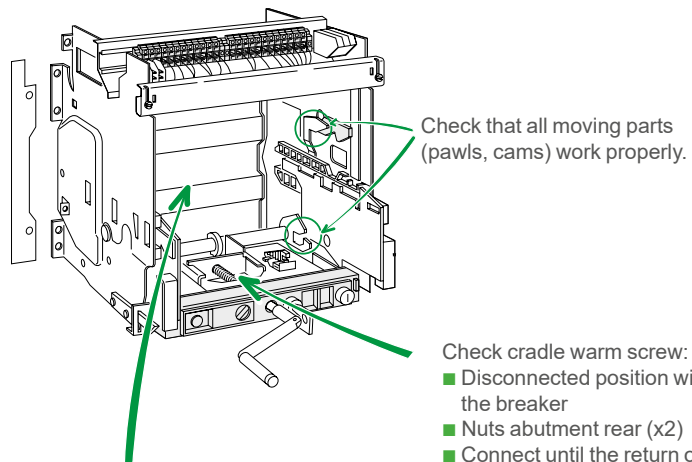
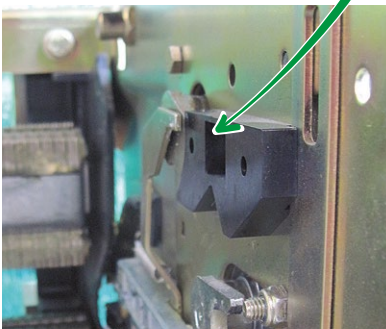
Note: Make sure there are no visible cracks on the chassis.



Carry out a racking test (in and out) 3 times without the circuit breaker and check the movement of:

- the safety shutters,
- the auxiliary wiring connector plate,
- the drawer side plates.

Check for any bent or distorted parts that could hinder insertion of the MasterPact circuit breaker.



Check the contact clusters. If they are in good condition, clean and lubricate them. If not, replace them.

Schneider Electric has developed dedicated diagnostic tool (ProDiag Cluster) to check clusters condition

Check cradle warm screw:

- Disconnected position without the breaker
- Nuts abutment rear (x2)
- Connect until the return of the hook
- Crank to remain => One turn + ¼ maximum
- Nuts abutment intermediate (x2)
- If not ok => Make adjustment.

Visual inspection

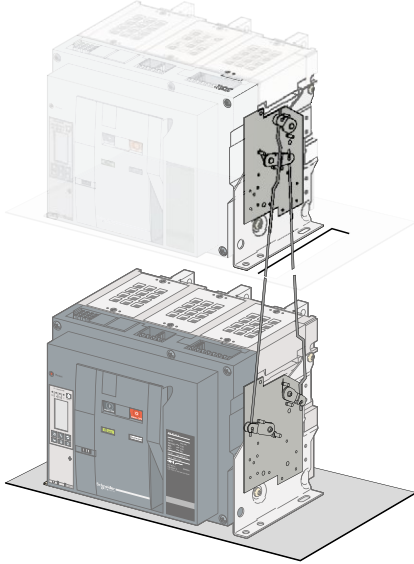
Check overall condition. Look for visible cracks.

How to choose?

MasterPact Substitution Guide

A

Source Changeover



Mechanical Interlocking

Mechanical Interlocking for Source Changeover

When replacing a MasterPact M using a Masterkit solution (fixed or drawout):

- Mechanical interlocking between MasterPact M and MTZ devices is forbidden.
- Both MasterPact M devices must be replaced as well as the corresponding interlocking system.

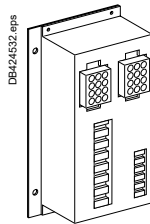
When replacing a MasterPact M **using a Plug & Play solution** (drawout):

- Mechanical interlocking is carried out on the MasterPact M chassis.
- A MasterPact M may interlocked with a Plug & Play device if indicated when ordering.

The Plug&Play breaker must be equipped with an interlocking cam for mechanical interlock (reference = EF548613).



BA controller



IVE unit

Electrical Interlocking for Source Changeover

- Electrical interlocking is possible between MasterPact M and MTZ devices.
- The same components are used, i.e. IVE unit, BA and UA automatic controllers.

MasterPact M With External Neutral Current Sensor

3-Pole Breakers Equipped With External Neutral Current Sensor

When replacing a MasterPact M by a MasterPact MTZ using a Plug & Play or Masterkit solution:

- The current transformer used with the STR control unit is not compatible with Micrologic control units
- A new current transformer compatible with MasterPact MTZ must be added.

This requires total disconnection of the busbars prior to working on the external CT.

- In case of distribution network with several circuit breakers with ground fault protection, change all circuit breakers and their external CT's.

Overview - How to choose?

How to choose?

Control Unit Substitution Guide

A

Identify The Control Unit

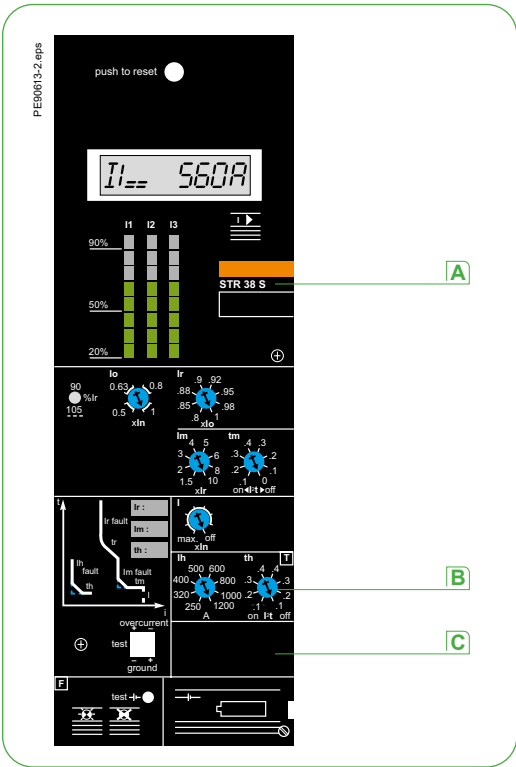
- A** D: standard protection / S: selective protection / U: universal protection
- B** T: earth-fault protection.
- C** R: load monitoring.

Selection Of The Control Unit

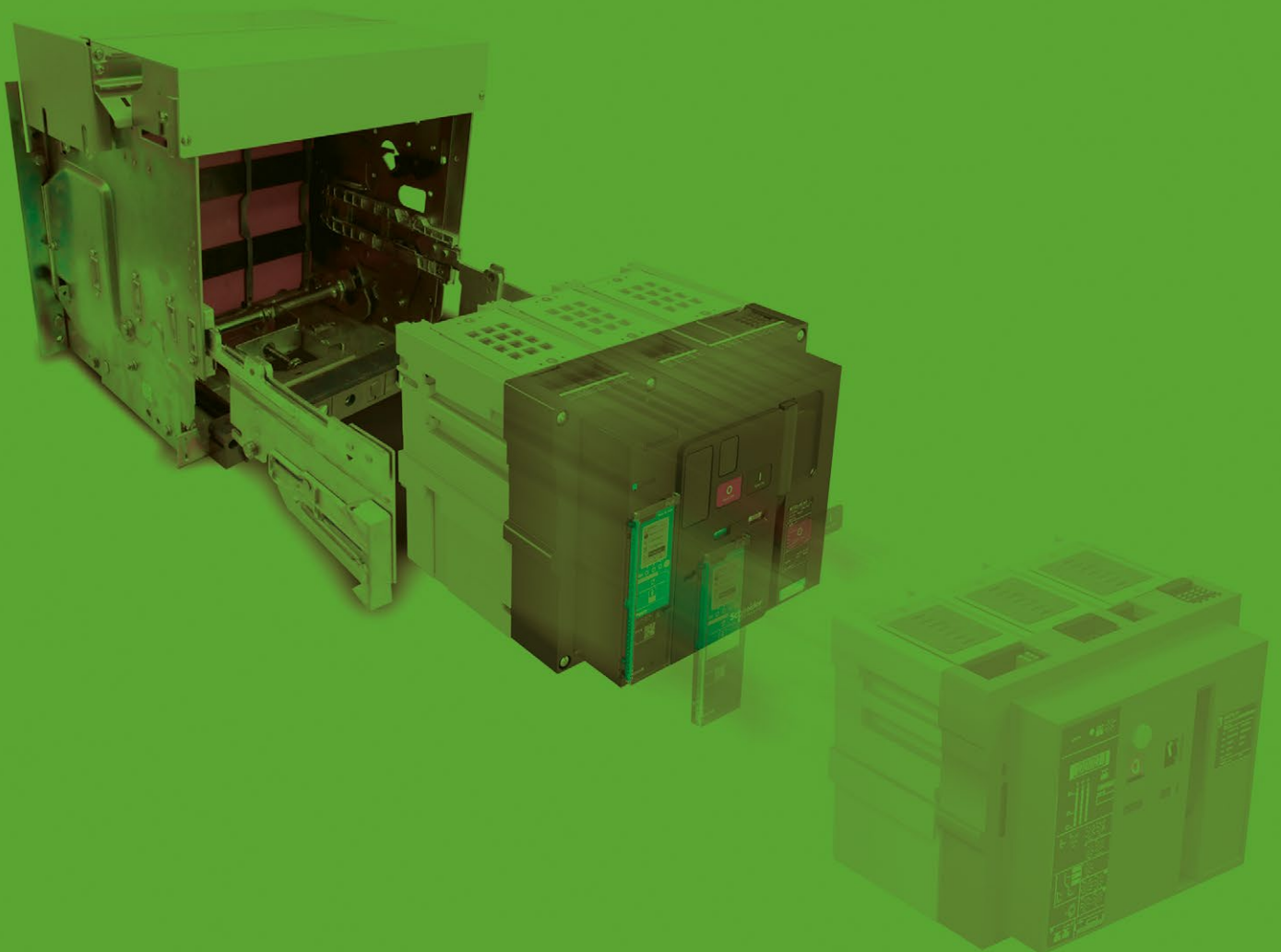
The table below shows some possible choices between the obsolete STR and Micrologic control units.

MasterPact MTZ control units				
Micrologic X				
MasterPact M control units	2.0	5.0	6.0	7.0
STR28D	☒			
STR38S		☒	☒	☒
STR58U		☒	☒	☒
STR68U		☒	☒	☒

Note: Please refer to the MasterPact MTZ catalogue for more details.



PLUG & PLAY



EcoFit™ Life Extension Advanced - MasterPact M Plug & Play

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B

EcoFit™ Life Extension Advanced - Masterpact M Plug & Play Presentation

B



Order Form EcoFit™ Life Extension Advanced - Masterpact M Plug & Play

(GCR_PP_MTZ2_CB,
GCR_PP_MTZ2_SD)

To indicate your choice, check the applicable square boxes ☐
and enter the appropriate information in the rectangles

Quantity

Number of Devices

* The quantity specified here will not affect the quantity of spare parts.

Basic Configuration

MasterPact type	P&P MTZ2
Rating (3200 A max)	A
Sensor rating	A
Circuit breaker	N1, H1, H2
Switch-disconnector	HF

Micrologic X	2.0	5.0	6.0	7.0
Number of poles	3	4	4	4

[1] 4P = neutral on left. For neutral on right side, consult France Grenoble Ecofit Center

Type of equipment Drawout without chassis (moving part only) ☒

Communication

Consult Schneider Electric specialist to support and upgrade current installation with latest communicating solution

Modbus Interface	☐
Ethernet Interface + Gateway	☐
Ethernet Interface	☐
I/O Module	☐

Operation Efficiency - Signaling

OF - ON/OFF indication contacts

* 4 OF 6 A-240 V AC (10 A-240 V AC and low level for NW) is supplied as standard

Note: MasterPact Plug&Play is not suitable in case MasterPact M chassis is equipped with a test position switch (CT)

Additional 1 block of 4 OF for MTZ 2 qty
Max. 2 Blocks

SDE - "fault-trip" indication contact

* 1 SDE 6A - 240V AC is supplied as standard

Additional 1 SDE or 1 SDE Low Level
6 A-240 V AC

Programmable contacts 2 M2C contacts

PF - "ready to close" contact Low level
6 A/240 VAC

CDM - mechanical operation counter MTZ2

Operation Efficiency - Controlling

Remote Control	MCH - gear motor	V
	XF - closing voltage release	V
	XF COM - closing voltage release	V
	MX - opening voltage release	V
	MX COM - opening voltage release	V
	MN - undervoltage release	V
	MN COM - undervoltage release	V
	2nd MX- opening voltage release	V
	2nd MX COM- opening voltage release	V
	R - delay unit (non-adjustable) for 2nd MN	
	Rr - adjustable delay unit for 2nd MN	
Remote Reset after tripping	RES - electrical reset option	V
	RAR - automatic reset option	
Electrical Closing	BPFE - electrical closing pushbutton	

People and Property Safety - Locking and Interlocking

VBP - ON/OFF pushbutton locking (by transparent cover + padlocks)

OFF position locking:

VCPO - by padlocks

VSPO - by keylocks	Keylock kit (w/o keylock)	Profalux	Ronis
		Kirk	Castell
	1 keylock	Profalux	Ronis
	2 identical keylocks, 1 key	Profalux	Ronis
	2 keylocks, different keys (MTZ2)	Profalux	Ronis

Mechanical interlock (source-changeover systems)

Interlocking axle and installation kit (ref: EF548613, one per P&P)

Mismatch protection (ref EF547056)

People and Property Safety - Circuit Protection

TCE - external sensor (CT) for neutral

Single sensor & Single wire (MTZ2)

Rectangular sensor for earth-leakage protection MTZ2/3 (470 x 160 mm)

Power Availability and Reliability

VPS - Voltage power supply

AD - external power-supply module V

Digital Module

Energy per Phase	ANSI 51/N51G - Ground Fault Alarm
Power Restoration Assistant	ERMS - Energy Reducing Maintenance Settings
Individual Harmonics Analysis	ANSI 32P - Reverse Active Power Protection
Waveform Capture Trip Event	ANSI 27/59 - Under/Over Voltage Protection
Modbus Legacy Dataset	ANSI 67 - Directional Overcurrent
MasterPact Operational Assist.	ANSI 51 - IDMTL Overcurrent Protection
IEC 61850 for MasterPact MTZ	ANSI 81 - Under/Over Frequency Protection

Commonly Used Spare Parts

* If you would like to order some spare parts, kindly indicate here. Please note that spare parts will be delivered separately.

Mobile PowerPact by APC	qty
USB CABLE	qty
Transparent cover for micrologic	qty
Mini test kit	qty
Breaker ULP Cord	L = 0.3 m L = 0.6 m
	L = 1.0 m L = 2.0 m
	L = 3.0 m L = 5.0 m

ECOFIT™ - Plug & Play solution requires Masterpact M chassis in full working order. If the chassis is bent or damaged, a Plug & Play solution is not possible and the Masterkit solution must be used.

Check visually for any deformed parts (e.g. inward or outward bulges)

Before ordering a Plug & Play solution, check the condition of the chassis as indicated below.

⚠ DANGER
Electrical equipment should be installed, operated, service and maintained only by qualified personnel.

Auxiliary wiring connector plate

Measure the diagonals to make sure the chassis is not distorted or warped. Squareness chassis ±3 mm. (A = B)

Note: Make sure there are no visible cracks on the chassis.

Carry out a racking test (in and out) 3 times without the circuit breaker and check the movement of:

- the safety shutters,
- the auxiliary wiring connector plate,
- the drawer side plates.

Check that all moving parts (pawls, cams) work properly.

Check for any bent or distorted parts that could hinder insertion of the Masterpact circuit breaker.

Check cradle warm screw:

- Disconnected position without the breaker
- Nuts abutment rear (x2)
- Connect until the return of the hook
- Crank to remain ± One turn + 1/4 maximum
- Nuts abutment intermediate (x2)
- If not ok => Make adjustment.

Check the contact clusters. If they are in good condition, clean and lubricate them. If not, replace them.

Note: Refer to MasterPact Plug & Play user manual for more informations.

EcoFit™ Life Extension Advanced - Masterpact M Plug & Play

MTZ2 08 to MTZ2 32 Drawout Circuit Breakers

How to define EcoFit™ Life Extension Advanced - Plug & Play solutions?

Each MasterPact Plug & Play circuit breaker upgrade solution is described by two catalogue numbers corresponding to:
an adapted MasterPact MTZ2 circuit breaker;
a control unit.

A communication option, various auxiliaries and accessories may also be added.

Note: 4P are with neutral on the left.

For 4P with neutral on the right: please contact Grenoble ECOFIT Center.

Basic Plug & Play Circuit Breakers

Type N1

	In (A at 40°C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu	3P	4P
P&P MTZ2 08	800	42	EF598230	EF598237
P&P MTZ2 10	1000	42	EF598244	EF598251
P&P MTZ2 12	1250	42	EF598258	EF598265
P&P MTZ2 16	1600	42	EF598272	EF598279

Type H1

	In (A at 40°C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu	3P	4P
P&P MTZ2 08	800	66	EF598231	EF598238
P&P MTZ2 10	1000	66	EF598245	EF598252
P&P MTZ2 12	1250	66	EF598259	EF598266
P&P MTZ2 16	1600	66	EF598273	EF598280
P&P MTZ2 20	2000	66	EF598287	EF598294
P&P MTZ2 25	2500	66	EF598300	EF598306
P&P MTZ2 32	3200	66	EF598312	EF598317

Type H2

	In (A at 40°C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu	3P	4P
P&P MTZ2 08	800	100	EF598232	EF598239
P&P MTZ2 10	1000	100	EF598246	EF598253
P&P MTZ2 12	1250	100	EF598260	EF598267
P&P MTZ2 16	1600	100	EF598274	EF598281
P&P MTZ2 20	2000	100	EF598288	EF598295
P&P MTZ2 25	2500	100	EF598301	EF598307
P&P MTZ2 32	3200	100	EF598313	EF598318

Type HF

	In (A at 40°C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu	3P	4P
P&P MTZ2 08	800	187	EF598236	EF598243
P&P MTZ2 10	1000	187	EF598250	EF598257
P&P MTZ2 12	1250	187	EF598264	EF598271
P&P MTZ2 16	1600	187	EF598278	EF598285
P&P MTZ2 20	2000	187	EF598292	EF598299
P&P MTZ2 25	2500	187	EF598305	EF598311
P&P MTZ2 32	3200	187	EF598316	EF598321

Micrologic X Control Units

"Class1 IEC 61557-12 certified power meter"

		3P/4P
Micrologic 2.0 X	basic protection	LV848498
Micrologic 5.0 X	selective protection	LV848499
Micrologic 6.0 X	selective + earth-fault protection	LV848500
Micrologic 7.0 X	selective + earth-leakage protection	LV848362

User Manual

	3P/4P
User manuel MasterPact P&P MTZ2 08-32	EF598001

Communication Option

ULP adaptation kit	EF598005
ULP port	LV836387
IFE	Ethernet interface for LV breaker
	Ethernet interface for LV breaker and gateway
IFM Modbus interface	LV434002
I/O application module	LV434000
	LV434063

Digital Modules Option

	3P/4P
Energy per phase	LV850002
Waveform capture trip event	LV850003
Power restoration assistant	LV850004
MasterPact operation assistant	LV850005
Individual harmonics analysis	LV850006
ANSI 51N/51G - Ground fault Alarm	LV850007
ERMS - Energy Reducing Maintenance Settings	LV850009
ANSI 32P - Reverse active power protection	LV850011
ANSI 27/59 - Under/Over voltage protection	LV850012
ANSI 67 - Directional overcurrent	LV850015
ANSI 51 - IDMTL overcurrent protection	LV850037
ANSI 81 - Under/Over frequency protection	LV850013
Modbus legacy dataset	LV850045
IEC 61850 for MasterPact MTZ	LV850046

EcoFit™ Life Extension Advanced - Masterpact M Plug & Play

MTZ2 08 to MTZ2 32 Drawout Circuit Breakers

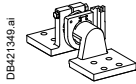
Control Units Accessories

Indication Contacts

Accessories for Micrologic X Control Units

External sensors

External sensor for earth-fault protection (TCE)

	Sensor rating	400/2000 A	LV834035SP
		1000/4000 A	LV834036SP

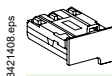
Rectangular sensor for earth-leakage protection

	470 mm x 160 mm	In max. 3200 A	LV833574SP
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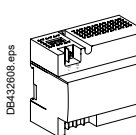
Source ground return (SGR) earth fault protection

	External sensor (SGR)	LV833579SP
	MDGF summing module	LV848891SP

Voltage power supply module (VPS) for Micrologic X

		LV850060
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External power supply module (AD)

	24/30 V DC	LV454440
	48/60 V DC	LV454441
	100/125 V DC	LV454442
	110/130 V AC	LV454443
	200/240 V AC	LV454444

Test and Commissioning Equipment

USB Cable (miniUSB/USB) for Micrologic X

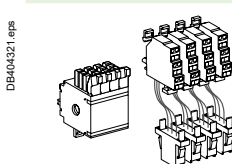
		LV850067SP
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Mobile Powerpack for Micrologic X (by APC)

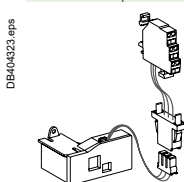
		LV850055SP
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Indication Contacts

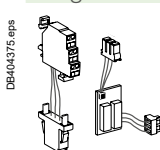
ON/OFF indication contacts (OF)

	Block of 4 changeover contacts (6 A - 240 V)	1 block (standard)
	1 additional block of 4 contacts (2 max.)	LV848468

"Fault trip" indication contacts (SDE)

	Changeover contact (6 A - 240 V)	1 (standard)
	1 additional SDE (6 A - 240 V)	LV848475
	or 1 additional low-level SDE	LV848476

Programmable contacts (programmed via Micrologic X control unit)

	2 contacts M2C (5 A - 240 V)	LV848382
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B

EcoFit™ Life Extension Advanced - Masterpact M Plug & Play

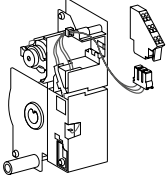
MTZ2 08 to MTZ2 32 Drawout Circuit Breakers

Remote Operation

Remote ON/OFF

Gear motor

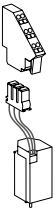
DB404316 eps



AC 50/60 Hz	48 V	MCH
	100/130 V	LV848522
	200/240 V	LV848526
	250/277 V	LV848527
	380/415 V	LV848528
	440/480 V	LV848529
DC	24/30 V	LV848530
	48/60 V	LV848521
	100/130 V	LV848522
	200/250 V	LV848523

Instantaneous voltage releases

DB404317 eps

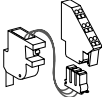


		Closing release	Opening release
Standard AC 50/60 Hz DC	24/30 V DC, 24 V AC	XF	MX
	48/60 V DC, 48 V AC	LV848481	LV848491
	100/130 V AC/DC	LV848482	LV848492
	200/250 V AC/DC	LV848483	LV848493
	277 V AC	LV848484	LV848494
	380/480 V AC	LV848485	LV848495
		LV848486	LV848496
Standard AC 50/60 Hz DC		Opening release MN	
	24/30 V DC, 24 V AC	LV848501	
	48/60 V DC, 48 V AC	LV848502	
	100/130 V AC/DC	LV848503	
	200/250 V AC/DC	LV848504	
	277 V AC	-	
	380/480 V AC	LV848506	

Remote Operation

"Ready to close" contact (1 max.)

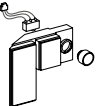
DB404318 eps



	PF
1 changeover contact (5 A - 240 V)	LV848469
1 low-level changeover contact	LV848470

Electrical closing pushbutton

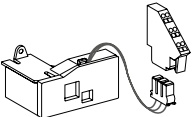
DB404319 eps



	BPFE
1 pushbutton	LV848534

Remote reset after fault trip

DB404315 eps

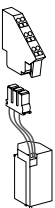


Electrical reset	RES
110/130 V AC	LV848472
220/240 V AC	LV848473
Automatic reset	RAR
Adaptation	LV847346

Remote Tripping

Instantaneous voltage release

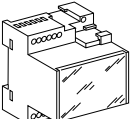
DB404317 eps



AC 50/60 Hz	24/30 V DC, 24 V AC	2nd MX
	48/60 V DC, 48 V AC	LV848511
	100/130 V AC/DC	LV848512
	200/250 V AC/DC	LV848513
	277 V AC	LV848514
	380/480 V AC	LV848515
DC		LV848516

MN delay unit

DB404320 eps



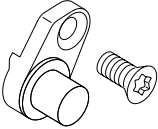
AC 50/60 Hz	48/60 V AC/DC	R (non-adjustable)	Rr (adjustable)
	100/130 V AC/DC	-	LV833680SP
	200/250 V AC/DC	LV833684SP	LV833681SP
	380/480 V AC/DC	LV833685SP	LV833682SP
DC		-	LV833683SP

EcoFit™ Life Extension Advanced - Masterpact M Plug & Play MTZ2 08 to MTZ2 32 Drawout Circuit Breakers Accessories

Mechanical Interlock

Interlocking cam for mechanical interlock

DB424622.ai



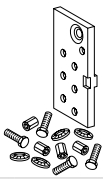
Cam and installation kit

EF548613

Mismatch Protection

Breaker rack-in mismatch protection

DB404329.eps



Accessory for breaker and chassis (VDC)

EF547056

Circuit Breaker Locking

Pushbutton locking device

DB404337.eps

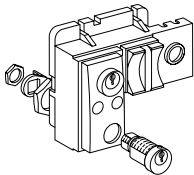


By padlocks

LV848536

OFF position locking

DB404338.eps



By padlocks

VCPO

LV848539

By Profalux keylocks

Profalux

1 lock with 1 key + adaptation kit

LV848545

2 locks 1 key + adaptation kit

LV848546

2 locks 2 different keys + adaptation kit

LV848547

By Ronis keylocks

Ronis

1 lock with 1 key + adaptation kit

LV848549

2 locks 1 key + adaptation kit

LV848550

2 locks 2 different keys + adaptation kit

LV848551

Adaptation kit
(without keylock):

adaptation kit Profalux / Ronis

LV848541SP

adaptation kit Kirk

LV848542SP

adaptation kit Castell

LV848543SP

Other Circuit Breaker Accessories

Mechanical operation counter

DB12617.eps



Operation counter CDM

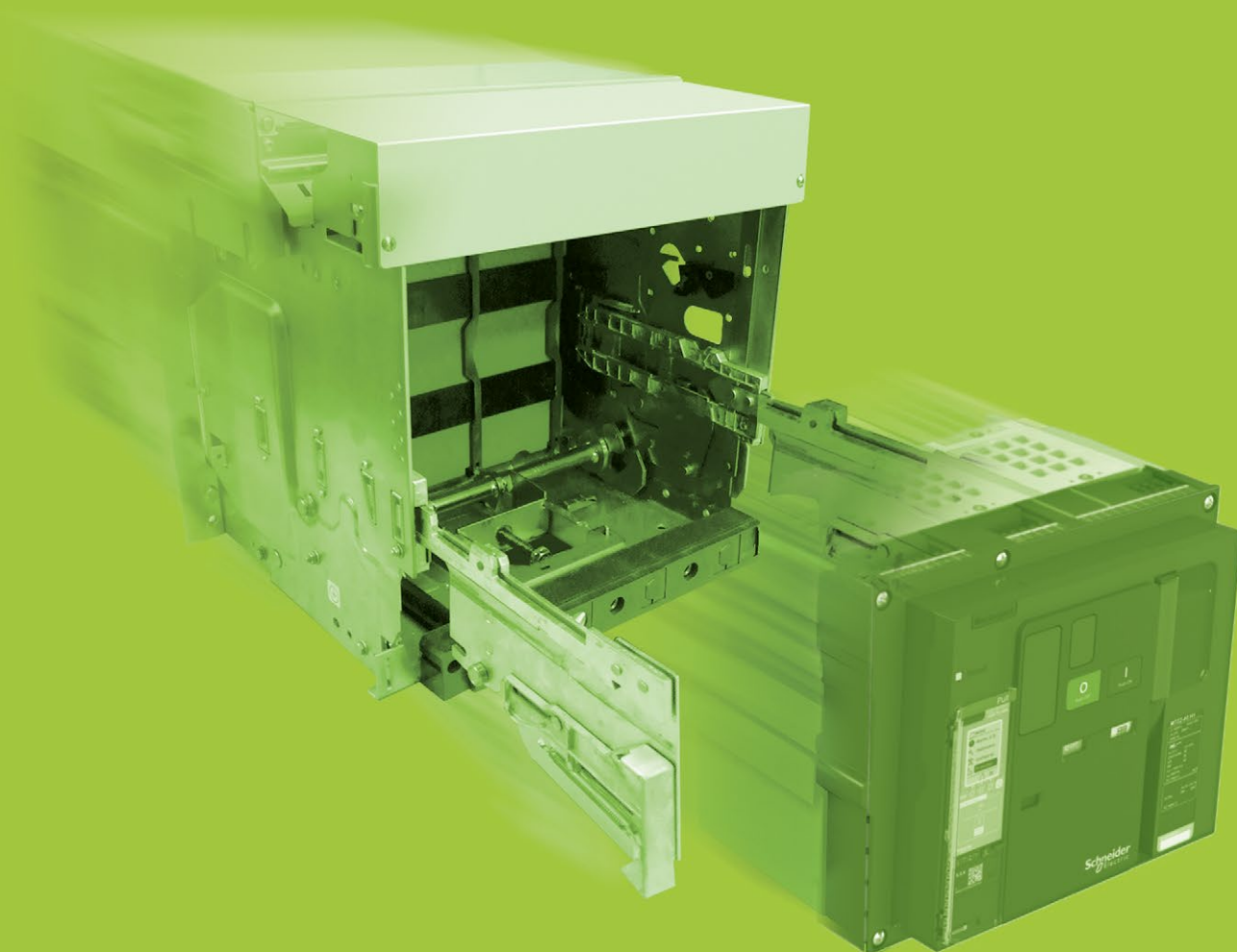
LV848535

Communication Kit

COM adaptation kit for EcoFit™ Life Extension Advanced - P&P MTZ

EF598005SP

MASTERKIT

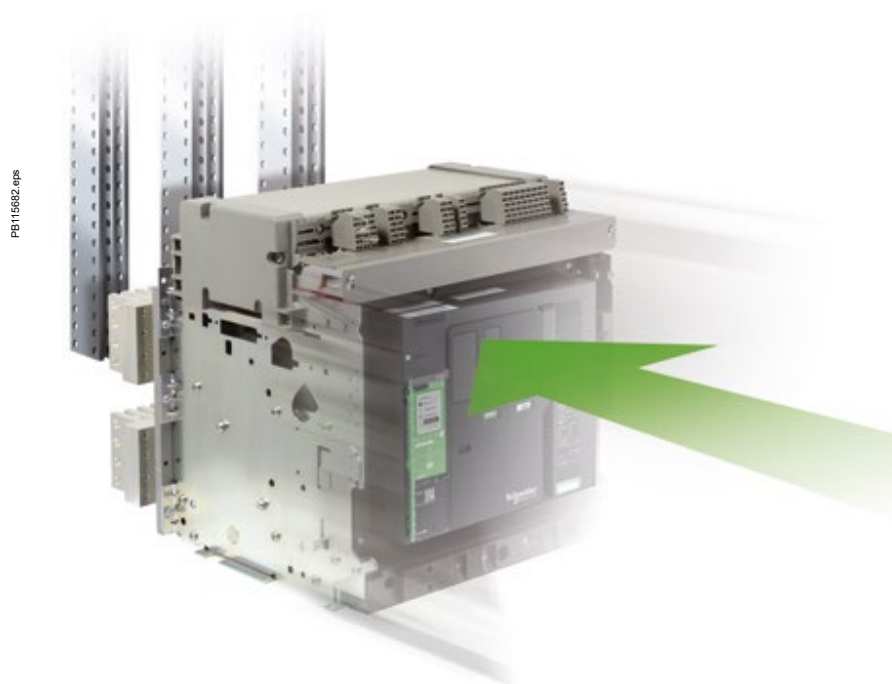
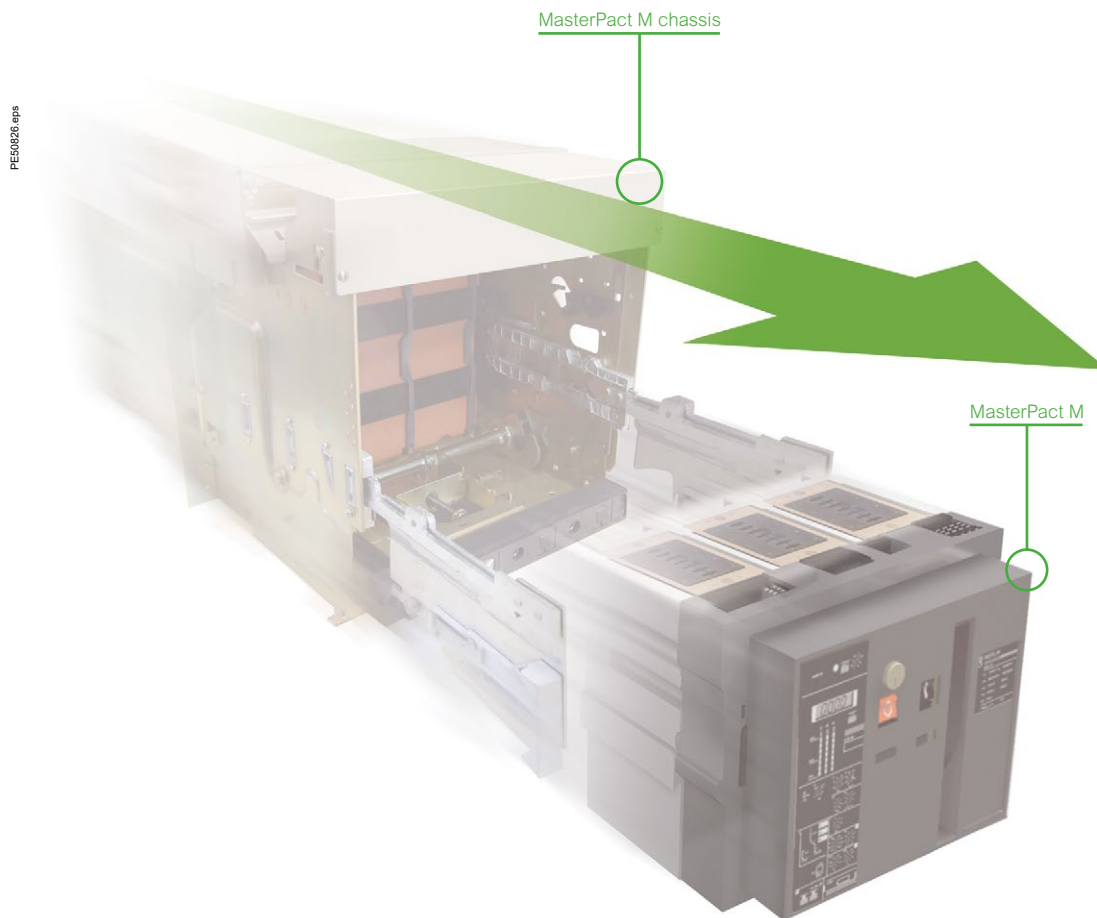


EcoFit™ Life Extension Advanced - Masterkit

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C

EcoFit™ Life Extension Advanced - Masterkit Presentation



Order Form

(GCR_MASTERKIT_MTZ2, GCR_MASTERKIT_MTZ3
GCR_MKT_MTZ2SD, GCR_MKT_MTZ3SD
GCR_MKT_MTZCHASSIS)

To indicate your choice, check the applicable square boxes
and enter the appropriate information in the rectangles

Quantity

Number of Devices
* The quantity specified here will not affect the quantity
of spare parts.

Basic Configuration

MasterPact type	MTZ2	☐	MTZ3	☐		
Rating (Masterkit 4000 A only with MTZ2)	A					
Sensor rating	A					
Circuit breaker	N1, H1, H2, L1 ☐					
[1] L1: only for M08 to M20 drawout type						
Switch-disconnector	NA, HA, HF ☐					
Micrologic	X	2.0	☐	5.0 ☐	6.0 ☐	7.0 ☐
Number of poles	3 ☐		4 ☐			
Option: neutral on right side (MTZ2 only up to 3200A)						
Type of installation	Fixed ☐					
	Drawout with chassis ☐					
	Drawout without chassis ☐					
	Chassis alone ☐					
	Chassis alone with contacts ☐					
Connection	Top	Horizontal	☐	Vertical ☐		
(rear only)	Bottom	Horizontal	☐	Vertical ☐		

* For M40 4P fixed type, no possible mix between horizontal
and vertical connections
For M63 drawout horizontal connection, consult us

Communication [2]

ULP port	☐
Ethernet Interface	☐
Ethernet Interface + Gateway	☐
Modbus Interface	☐
Drawable EIFE	☐
I/O Module	☐

[2] Consult Schneider Electric specialist to support and
upgrade current installation with latest communicating
solution

Design and Installation Simplification

Interphase barriers	MTZ2 fixed, drawable	☐
Only up to MTZ2 25	Upstream & Downstream	☐

Operation Efficiency - Signaling

OF - ON/OFF indication contacts	
* 4 OF 6 A-240 V AC (10 A-240 V AC and low level for NW) is supplied as standard	
Additional	1 block of 4 OF Max. 2 Blocks qty
EF - combined "connected/closed" contacts	
* EF is only for MTZ2/3. Total number of EF can not exceed the number of additional OF	
1 EF standard (6 A-240 V AC)	qty
1 EF low level	qty

SDE - "fault-trip" indication contact	
* 1 SDE 6A - 240V AC is supplied as standard	
Additional	1 SDE 6 A-240 V AC ☐ 1 SDE Low Level ☐
Programmable contacts	2 M2C contacts ☐
Carriage switches	
* Please refer to the catalogue for the maximum number of each carriage switch	
CE	Low Level qty 6 A - 240 V AC qty
"connected" position	
CD	Low Level qty 6 A - 240 V AC qty
"Disconnected position"	

CT - "test" position	Low Level qty 6 A - 240 V AC qty
PF - "ready to close" contact	Low level ☐ 6 A/240 V AC ☐
CDM - mechanical operation counter MTZ2/3	☐

Operation Efficiency - Controlling

Remote Control	MCH - gear motor	V ☐
	XF - closing voltage release	V ☐
	XF COM - closing voltage release	V ☐
	MX - opening voltage release	V ☐
	MX COM - opening voltage release	V ☐
	MN - undervoltage release	V ☐
	MN COM - undervoltage release	V ☐
	2nd MX - opening voltage release	V ☐
	2nd MX COM - opening voltage release	V ☐
	R - delay unit (non-adjustable) for 2nd MN	☐
	Rr - adjustable delay unit for 2nd MN	☐
Remote Reset after tripping	RES - electrical reset option	V ☐
	RAR - automatic reset option	☐
Electrical Closing	BPFE - electrical closing pushbutton	☐

People and Property Safety - Locking and Interlocking

VBP - ON/OFF pushbutton locking (by transparent cover + padlocks)				☐
OFF position locking:				
VCPO - by padlocks				
VSPO - by keylocks	Keylock kit (w/o keylock)	Profalux ☐	Ronis ☐	
	Kirk	☐	Castell ☐	
	1 keylock	Profalux ☐	Ronis ☐	
	2 identical keylocks, 1 key	Profalux ☐	Ronis ☐	
	2 keylocks, different keys (MTZ2/3)	Profalux ☐	Ronis ☐	
Chassis locking in "disconnected" position:				
VSPO - by keylocks	Keylock kit (w/o keylock)	Profalux ☐	Ronis ☐	
	Kirk	☐	Castell ☐	
	1 keylock	Profalux ☐	Ronis ☐	
	2 identical keylocks, 1 key	Profalux ☐	Ronis ☐	
	2 keylocks, different keys	Profalux ☐	Ronis ☐	
	Optional connected/disconnected/test position locking			
VPEC - door interlock	On right-hand side of chassis	☐		
	On left-hand side of chassis	☐		
VPOC - racking interlock		☐		
IPA - cable-type door interlock		☐		
VDC - mismatch protection		☐		
VIVC - shutter position indication and locking for MTZ2/3		☐		
IBPO - racking interlock between crank and OFF pushbutton for MTZ2/3		☐		

People and Property Safety - Circuit Protection

TCE - external sensor (CT) for neutral	
	Single sensor & Single wire (MTZ2/3) ☐
	Double sensor & double wire (MTZ3) ☐
TCW - external sensor for SGR protection	
Rectangular sensor for earth-leakage protection	MTZ2/3 (470 x 160 mm) ☐
PTE - external voltage connector	☐

People and Property Safety - Mechanical Protection

CDP - escutcheon MTZ2/3	☐
CP - transparent cover for escutcheon MTZ2/3	☐
OP - blanking plate for escutcheon MTZ2/3	☐
CB - auxiliary terminal shield for chassis MTZ2/3	☐

People and Property Safety - Operation Protection

KMT - grounding kit MTZ2/3	☐
Earthing switch kit for chassis	☐
DAE - automatic spring discharge before breaker removal for MTZ2/3	☐

Power Availability and Reliability

VPS - Voltage power supply	☐
AD - external power-supply module	V ☐

Digital Module

Energy per Phase	ANSI 51/N51G - Ground Fault Alarm
Power Restoration Assistant	ERMS - Energy Reducing Maintenance Settings
Individual Harmonics Analysis	ANSI 32P - Reverse Active Power Protection
Waveform Capture Trip Event	ANSI 27/59 - Under/Over Voltage Protection
Modbus Legacy Dataset	ANSI 67 - Directional Overcurrent
MasterPact Operational Assist.	ANSI 51 - IDMTL Overcurrent Protection
IEC 61850 for MasterPact MTZ	ANSI 81 - Under/Over Frequency Protection

Commonly Used Spare Parts

* If you would like to order some spare parts, kindly indicate here. Please note that spare parts will be delivered separately.	
Mobile PowerPact by APC	☐
USB CABLE	☐
Transparent cover for micrologic	☐
Display for micrologic	☐
Test kits	Mini test kit qty
FDM128	☐
Mounting accessories for FDM	☐

MTZ2 08 to MTZ3 50 Fixed Circuit Breakers

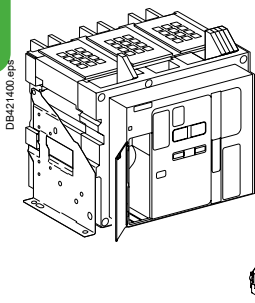
Circuit Breakers

How to define EcoFit™ Life Extension Advanced - Masterkit solutions?

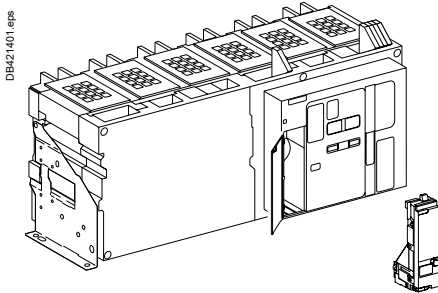
A complete Masterkit fixed circuit breaker is described by up to 8 catalogue numbers corresponding to:

- the basic MasterPact MTZ2 or MTZ3 circuit breaker
- a control unit
- top and bottom connections
- installation kit
- escutcheon for MTZ2 40 and MTZ3 50
- aux. wires strand
- power isolation kit.

A communication option, various auxiliaries and accessories may also be added.



Basic Circuit Breaker y 4000 A.



Basic Circuit Breaker u 4000 A.

[1] Select a 4P basic circuit breaker with neutral on the right [page C-21](#).

All other catalogue numbers are unchanged.

[2] Only for breaker up to 3200A

Auxiliaries and Accessories:

for fixed devices: see [page C-17](#).

for fixed or drawout devices: see [page C-17](#).

Switch-disconnector version: see [page C-19](#).

Source changeover assembly: see [page C-17](#).

Basic Circuit Breaker

Type N1

			3P	4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu		
MTZ2 08	800	42	LV848000	LV848007
MTZ2 10	1000	42	LV848014	LV848021
MTZ2 12	1250	42	LV848028	LV848035
MTZ2 16	1600	42	LV848042	LV848049

Type H1

			3P	4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu		
MTZ2 08	800	66	LV848001	LV848008
MTZ2 10	1000	66	LV848015	LV848022
MTZ2 12	1250	66	LV848029	LV848036
MTZ2 16	1600	66	LV848043	LV848050
MTZ2 20	2000	66	LV848057	LV848064
MTZ2 25	2500	66	LV848070	LV848076
MTZ2 32	3200	66	LV848082	LV848087
MTZ2 40	4000	66	LV848092	LV848097
MTZ3 50	5000	100	LV848112	-

Type H2

			3P	4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 % Icu		
MTZ2 08	800	100	LV848002	LV848009
MTZ2 10	1000	100	LV848016	LV848023
MTZ2 12	1250	100	LV848030	LV848037
MTZ2 16	1600	100	LV848044	LV848051
MTZ2 20	2000	100	LV848058	LV848065
MTZ2 25	2500	100	LV848071	LV848077
MTZ2 32	3200	100	LV848083	LV848088
MTZ2 40	4000	100	LV848093	LV848098
MTZ3 50	5000	150	LV848113	-

Option

Neutral on the right	[1]
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Micrologic X Control Unit

"Class1 IEC 61557-12 certified power meter"

		3P/4P
Micrologic 2.0 X	basic protection	LV847280
Micrologic 5.0 X	selective protection	LV847283
Micrologic 6.0 X	selective + earth-fault protection	LV847288
Micrologic 7.0 X [2]	selective + earth-leakage protection	LV847287

Digital Modules Option

	3P/4P
Energy per phase	LV850002
Waveform capture on trip event	LV850003
Power restoration assistant	LV850004
MasterPact operation assistant	LV850005
Individual harmonics analysis	LV850006
ANSI 51N/51G - Ground fault Alarm	LV850007
ERMS - Energy Reducing Maintenance settings	LV850009
ANSI 32P - Reverse active power protection	LV850011
ANSI 27/59 - Under/Over voltage protection	LV850012
ANSI 67 - Directional overcurrent	LV850015
ANSI 51 - IDMTL overcurrent protection	LV850037
ANSI 81 - Under/Over frequency protection	LV850013
Modbus legacy dataset	LV850045
IEC 61850 for MasterPact MTZ	LV850046

Communication Option

ULP Port	LV850061
IFM Modbus interface	LV434000
IFE Ethernet interface for LV breaker	LV434001
IFE Ethernet interface for LV breakers and gateway	LV434002
I/O application module	LV434063

EcoFit™ Life Extension Advanced - Masterkit

MTZ2 08 to MTZ3 50 Fixed Circuit Breakers and Fixed Switch-disconnectors

Connections

Vertical Rear Connection

Device to be replaced	Kit to be ordered	
	3P	4P
MasterPact M08 to M12		
Type N1/NI		
Top	3 x EF548952	4 x EF548952
Bottom	3 x EF548952	4 x EF548952
Type H1/H2/HI/HF		
Top	3 x EF548953	4 x EF548953
Bottom	3 x EF548953	4 x EF548953
MasterPact M16		
Type N1/NI/H1/H2/HI/HF		
Top	3 x EF548953	4 x EF548953
Bottom	3 x EF548953	4 x EF548953
MasterPact M20 and M25		
Type N1/NI/H1/H2/HI/HF		
Top	3 x EF548956	4 x EF548956
Bottom	3 x EF548956	4 x EF548956
MasterPact M32		
Type H1/H2/HI/HF		
Top	1 x EF548959	1 x EF548963
Bottom	1 x EF548959	1 x EF548963
MasterPact M40		
Type H1/H2/HI/HF		
Top	1 x EF548982	1 x EF548984 ^[1]
Bottom	1 x EF548982	included in Top ref
MasterPact M50		
Type H1/H2/HI		
Top	1 x EF548986	NA
Bottom	1 x EF548986	NA

Horizontal Rear Connection

Device to be replaced	Kit to be ordered	
	3P	4P
MasterPact M08 to M12		
Type N1/NI		
Top	3 x EF548951	4 x EF548951
Bottom	3 x EF548964	4 x EF548964
Type H1/H2/HI/HF		
Top	3 x EF548954	4 x EF548954
Bottom	3 x EF548965	4 x EF548965
MasterPact M16		
Type N1/NI/H1/H2/HI/HF		
Top	3 x EF548954	4 x EF548954
Bottom	3 x EF548965	4 x EF548965
MasterPact M20 and M25		
Type N1/NI/H1/H2/HI/HF		
Top	3 x EF548957	4 x EF548957
Bottom	3 x EF548958	4 x EF548958
MasterPact M32		
Type H1/H2/HI/HF		
Top	1 x EF548962	1 x EF548960
Bottom	1 x EF548961	1 x EF548960
MasterPact M40		
Type H1/H2/HI/HF		
Top	1 x EF548980	1 x EF548983 ^[2]
Bottom	1 x EF548981	included in Top ref
MasterPact M50		
Type H1/H2/HI		
Top	1 x EF548985	NA
Bottom	1 x EF548985	NA

^[1] Reference EF548984 includes Top and Bottom connections. For M40 no mix between EF548984 and EF548983

^[2] Reference EF548983 includes Top and Bottom connections. For M40 no mix between EF548983 and EF548984

MTZ2 08 to MTZ3 50 Fixed Circuit Breakers and Fixed Switch-disconnectors Accessories

C

Installation Kits

Device to be replaced	Kit to be ordered (includes installation guide)	
	3P	4P
MasterPact M08 to M32		
Type N1/NI/H1/H2/HI/HF		
	1 x EF599927	1 x EF599927
MasterPact M40		
Type H1/H2/HI/HF		
	1 x EF599934	1 x EF599934
MasterPact M50		
Type H1/H2/HI		
	1 x EF599935	NA

Power Isolation Kit (optional)

Device to be replaced	Kit to be ordered	
	3P	4P
MasterPact M08 to M50		
Type N1/NI/H1/H2/HI/HF		
	1 x EF548928	1 x EF548928

Auxiliaries Wires Strand

Device to be replaced	Kit to be ordered	
	3P	4P
MasterPact M08 to M50		
Type N1/NI/H1/H2/HI/HF		
	1 x EF548930 [1]	1 x EF548930 [1]

Escutcheon

	1x LV84601SP
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Installation Guide (included as standard in the installation kits)

	1x EF599100
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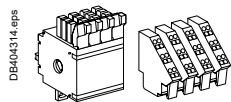
[1] Auxiliaries 24 wires strand 08/63H Fix/Do

MTZ2 08 to MTZ3 50 Fixed Circuit Breakers

Indication Contacts and Remote Operation

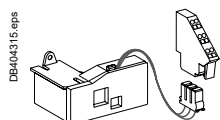
Indication Contacts

ON/OFF indication contacts (OF)



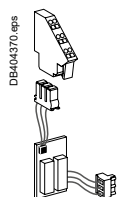
Block of 4 changeover contacts (6 A - 240 V)	1 block (standard)
1 additional block of 4 contacts (2 max.)	LV848198

"Fault trip" indication contacts (SDE)



Changeover contact (6 A - 240 V)	1 (standard)
1 additional SDE (6 A - 240 V)	LV848200
1 additional low-level SDE	LV848201

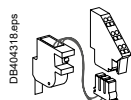
Programmable contacts (programmed via Micrologic X control unit)



2 contacts M2C (5 A - 240 V)	LV847403
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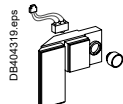
Remote Operation

"Ready to close" contact (1 max.)



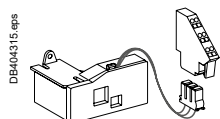
	PF
1 changeover contact (5 A - 240 V)	LV847342
1 low-level changeover contact	LV847343

Electrical closing pushbutton



	BPFE
1 pushbutton	LV848534

Remote reset after fault trip



Electrical reset	RES
110/130 V AC	LV848202
220/240 V AC	LV848203
Automatic reset	RAR
Adaptation	LV847346

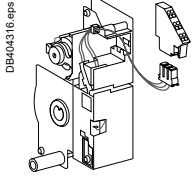
C

MTZ2 08 to MTZ3 50 Fixed Circuit Breakers

Remote Operation

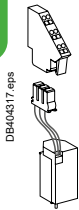
Remote ON/OFF

Gear motor



DB404316 eps	AC 50/60 Hz	48 V	MCH	
		100/130 V	LV848207	
		200/240 V	LV848211	
		250/277 V	LV848212	
		380/415 V	LV848213	
		440/480 V	LV848214	
	DC	24/30 V	LV848215	
		48/60 V	LV848206	
		100/130 V	LV848207	
		200/250 V	LV848208	

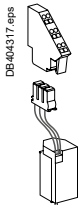
Instantaneous voltage releases



		Closing release	Opening release
Standard		XF	MX
AC 50/60 Hz	24/30 V DC, 24 V AC	LV847350	LV847360
DC	48/60 V DC, 48 V AC	LV847351	LV847361
	100/130 V AC/DC	LV847352	LV847362
	200/250 V AC/DC	LV847353	LV847363
	277 V AC	LV847354	LV847364
	380/480 V AC	LV847355	LV847365
Diagnostics & Communicating		XF diag & com	MX diag & com
AC 50/60 Hz	24/30 V DC, 24 V AC	LV847311	LV847321
DC	48/60 V DC, 48 V AC	LV847312	LV847322
	100/130 V AC/DC	LV847313	LV847323
	200/250 V AC/DC	LV847314	LV847324
	277 V AC	LV847315	LV847325
	380/480 V AC	LV847316	LV847326
		Opening release	
Standard		MN	
AC 50/60 Hz	24/30 V DC, 24 V AC	LV847380	
DC	48/60 V DC, 48 V AC	LV847381	
	100/130 V AC/DC	LV847382	
	200/250 V AC/DC	LV847383	
	380/480 V AC	LV847385	
Diagnostic		MN diag	
AC 50/60 Hz	24/30 V DC, 24 V AC	LV836700	
DC	48/60 V DC, 48 V AC	LV836701	
	100/130 V AC/DC	LV836702	
	200/250 V AC/DC	LV836703	
	380/480 V AC	LV836704	

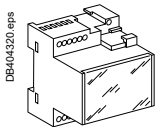
Remote Tripping

Instantaneous voltage release



DB404317 eps	AC 50/60 Hz	24/30 V DC, 24 V AC	2nd MX	
		48/60 V DC, 48 V AC	LV847370	
		100/130 V AC/DC	LV847371	
		200/250 V AC/DC	LV847372	
		277 V AC	LV847373	
		380/480 V AC	LV847374	
			LV847375	

MN delay unit



DB404320 eps	AC 50/60 Hz	48/60 V AC/DC	R (non-adjustable)	Rr (adjustable)
		100/130 V AC/DC	-	LV833680SP
		200/250 V AC/DC	LV833684SP	LV833681SP
		380/480 V AC/DC	LV833685SP	LV833682SP
			-	LV833683SP

EcoFit™ Life Extension Advanced - Masterkit

MTZ2 08 to MTZ3 63 Drawout Circuit Breakers

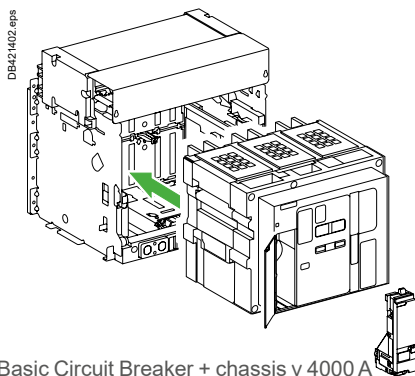
Circuit Breakers

How to define EcoFit™ Life Extension Advanced - Masterkit solutions?

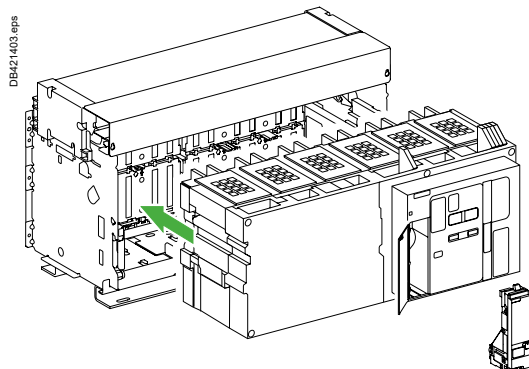
A complete Masterkit withdrawable circuit breaker is described by up to 11 catalogue numbers corresponding to:

- the basic MasterPact MTZ circuit breaker
- a control unit
- a chassis
- top and bottom connections
- installation kit
- aux wires strands
- escutcheon for MTZ2 40 and MTZ3 50/63
- power isolation kit
- riser block for MTZ2 40 4P Drawout.

A communication option, various auxiliaries and accessories may also be added.



Basic Circuit Breaker + chassis y 4000 A



Basic Circuit Breaker + chassis u 4000 A

[1] Select a 4P Basic Circuit Breaker with neutral on the right page C-21.

All other catalogue numbers are unchanged.

[2] Only for breaker up to 3200 A.

Basic Circuit Breaker

	3P	4P
Type N1		
	In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu	
MTZ2 08	800 42	LV848230 LV848237
MTZ2 10	1000 42	LV848244 LV848251
MTZ2 12	1250 42	LV848258 LV848265
MTZ2 16	1600 42	LV848272 LV848279
Type H1		
	In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu	
MTZ2 08	800 66	LV848231 LV848238
MTZ2 10	1000 66	LV848245 LV848252
MTZ2 12	1250 66	LV848259 LV848266
MTZ2 16	1600 66	LV848273 LV848280
MTZ2 20	2000 66	LV848287 LV848294
MTZ2 25	2500 66	LV848300 LV848306
MTZ2 32	3200 66	LV848312 LV848317
MTZ2 40	4000 66	LV848322 LV848327
MTZ3 50	5000 100	LV848342 LV848345
MTZ3 63	6300 100	LV848348 LV848351

Type H2		
	In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu	
MTZ2 08	800 100	LV848232 LV848239
MTZ2 10	1000 100	LV848246 LV848253
MTZ2 12	1250 100	LV848260 LV848267
MTZ2 16	1600 100	LV848274 LV848281
MTZ2 20	2000 100	LV848288 LV848295
MTZ2 25	2500 100	LV848301 LV848307
MTZ2 32	3200 100	LV848313 LV848318
MTZ2 40	4000 100	LV848323 LV848328
MTZ3 50	5000 150	LV848343 LV848346
MTZ3 63	6300 150	LV848349 LV848352

Type L1		
	In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu	
MTZ2 08	800 150	LV848233 LV848240
MTZ2 10	1000 150	LV848247 LV848254
MTZ2 12	1250 150	LV848261 LV848268
MTZ2 16	1600 150	LV848275 LV848282
MTZ2 20	2000 150	LV848290 LV848297

Option		
Neutral on the right		[1]

Micrologic X Control Unit

"Class1 IEC 61557-12 certified power meter"

		3P/4P
Micrologic 2.0 X	basic protection	LV848498
Micrologic 5.0 X	selective protection	LV848499
Micrologic 6.0 X	selective + earth-fault protection	LV848500
Micrologic 7.0 X [2]	selective + earth-leakage protection	LV848362

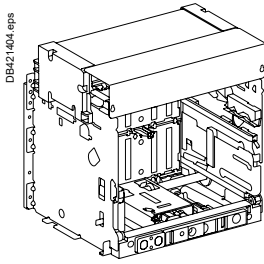
Digital Modules Option

	3P/4P
Energy per phase	LV850002
Waveform capture on trip event	LV850003
Power restoration assistant	LV850004
MasterPact operation assistant	LV850005
Individual harmonics analysis	LV850006
ANSI 51N/51G - Ground fault Alarm	LV850007
ERMS - Energy Reducing Maintenance settings	LV850009
ANSI 32P - Reverse active power protection	LV850011
ANSI 27/59 - Under/Over voltage protection	LV850012
ANSI 67 - Directional overcurrent	LV850015
ANSI 51 - IDMTL overcurrent protection	LV850037
ANSI 81 - Under/Over frequency protection	LV850013
Modbus legacy dataset	LV850045
IEC 61850 for MasterPact MTZ	LV850046

Grounding Kit

Grounding kit for MasterPact MTZ2/MTZ3 drawout	LV848559
--	----------

MTZ2 08 to MTZ3 63 Drawout Circuit Breakers Chassis



Chassis y 4000 A

Auxiliaries and accessories:

- for drawout devices: see [page C-13](#)
 - for fixed or drawout devices: see [page C-17](#).
- Switch-disconnector version: see [page C-19](#).
Source changeover assembly: see [page C-17](#).

Chassis

	3P	4P
For type N1		
1600 A	LV848392	LV848404
2000 A	LV848393	LV848405
For type H1		
800-1600 A	LV848392	LV848404
For type H2		
800-1600 A	LV848393	LV848405
For type H1/H2		
2000 A	LV848393	LV848405
2500 A	LV848394	LV848406
3200 A	LV848395	LV848407
4000 A	LV848396	LV848408
4000/6300 A	LV848397	LV848409
For type L1		
800/1600 A	LV848399	LV848411
2000 A	LV848400	LV848412

Chassis Terminal Blocks

Standard terminal blocks

Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:

- the basic device : OF1, OF2, OF3, OF4, SDE1, UC3 (UC3 for 3P chassis only, not for 4P)
- the MicroLogic control unit : UC1, UC2
- the 5 most common accessories : MN/MX2, MX1, XF, PF, MCH.

Additional terminal blocks

Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:

If the device is equipped with one or a combination of the following 5 additional accessories:

- SDE2/RES
- M2C/ESM
- PTE
- 1st additional 4 OF block
- 2nd additional 4 OF block

all the necessary chassis terminal blocks are coded by one of the part numbers below :

Chassis terminal blocks for 8 OF contacts	LV839471
Chassis terminal blocks for 4 OF contacts	LV839472
Chassis terminal block for PTE	LV839473
Chassis terminal blocks for PTE + 8 OF contacts	LV839474
Chassis terminal blocks for PTE + 4 OF contacts	LV839475
Chassis terminal block for SDE2/RES	LV839476
Chassis terminal blocks for SDE2/RES + 8 OF contacts	LV839477
Chassis terminal blocks for SDE2/RES + 4 OF contacts	LV839478
Chassis terminal blocks for PTE + SDE2/RES	LV839479
Chassis terminal blocks for PTE + SDE2/RES + 8 OF contacts	LV839480
Chassis terminal blocks for PTE + SDE2/RES + 4 OF contacts	LV839481
Chassis terminal block for M2C/ESM	LV839482
Chassis terminal blocks for M2C/ESM + 8 OF contacts	LV839483
Chassis terminal blocks for M2C/ESM + 4 OF contacts	LV839484
Chassis terminal blocks for PTE + M2C/ESM	LV839485
Chassis terminal blocks for PTE + M2C/ESM + 8 OF contacts	LV839486
Chassis terminal blocks for PTE + M2C/ESM + 4 OF contacts	LV839487
Chassis terminal blocks for SDE2/RES + M2C/ESM	LV839488
Chassis terminal blocks for SDE2/RES + M2C/ESM + 8 OF contacts	LV839489
Chassis terminal blocks for SDE2/RES + M2C/ESM + 4 OF contacts	LV839490
Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM	LV839491
Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM + 8 OF	LV839492
Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM + 4 OF	LV839493

Ethernet Communication Option

	Chassis +	Circuit breaker (ULP)
ULP port	Standard	Standard
EIFE Embedded Ethernet interface for LV breaker	LV851200	
IFE Ethernet interface for LV breaker	LV434010	
Ethernet interface for LV breakers and gateway	LV434011	
I/O application module	LV434063	

EcoFit™ Life Extension Advanced - Masterkit

MTZ2 08 to MTZ3 63 Drawout Circuit Breakers and Drawout Switch-disconnectors

Connections

Vertical Rear Connection

Device to be replaced	Connection to be ordered	
	3P	4P
MasterPact M08 to M12		
Type N1/NI		
Top	3 x EF548966	4 x EF548966
Bottom	3 x EF548966	4 x EF548966
Type H1/H2/HI/HF/L1		
Top	3 x EF548969	4 x EF548969
Bottom	3 x EF548969	4 x EF548969
MasterPact M16		
Type N1/NI/H1/H2/HI/HF/L1		
Top	3 x EF548969	4 x EF548969
Bottom	3 x EF548969	4 x EF548969
MasterPact M20 and M25		
Type N1/NI/H1/H2/HI/HF		
Top	3 x EF548970	4 x EF548970
Bottom	3 x EF548970	4 x EF548970
MasterPact M32 and M20		
Type H1/H2/HI/HF		
Top	1 x EF548974	1 x EF548978
Bottom	1 x EF548974	1 x EF548978
MasterPact M40		
Type H1/H2/HI/HF		
Top	1 x EF548989	1 x EF548992
Bottom	1 x EF548989	1 x EF548993
MasterPact M50		
Type H1/H2/HI		
Top	1 x EF548995	1 x EF548997
Bottom	1 x EF548995	1 x EF548998
MasterPact M63		
Type H1/H2/HI		
Top	1 x EF548940	1 x EF548943
Bottom	1 x EF548940	1 x EF548944

Horizontal Rear Connection

Device to be replaced	Connection to be ordered	
	3P	4P
MasterPact M08 to M12		
Type N1/NI		
Top	3 x EF548951	4 x EF548951
Bottom	3 x EF548964	4 x EF548964
Type H1/H2/HI/HF/L1		
Top	3 x EF548954	4 x EF548954
Bottom	3 x EF548965	4 x EF548965
MasterPact M16		
Type N1/NI/H1/H2/HI/HF/L1		
Top	3 x EF548954	4 x EF548954
Bottom	3 x EF548965	4 x EF548965
MasterPact M20 and M25		
Type N1/NI/H1/H2/HI/HF		
Top	3 x EF548957	4 x EF548957
Bottom	3 x EF548958	4 x EF548958
MasterPact M32 and M20 neutral on left-hand side		
Type H1/H2/HI/HF		
Top	1 x EF548973	1 x EF548976
Bottom	1 x EF548973	1 x EF548977
MasterPact M32 neutral on right-hand side		
Type H1/H2/HI/HF		
Top	1 x EF548973	1 x EF548977
Bottom	1 x EF548973	1 x EF548976
MasterPact M40		
Type H1/H2/HI/HF		
Top	1 x EF548987	1 x EF548990
Bottom	1 x EF548988	1 x EF548991
MasterPact M50		
Type H1/H2/HI		
Top	1 x EF548994	1 x EF548996
Bottom	1 x EF548994	1 x EF548996

MTZ2 08 to MTZ3 63 Drawout Circuit Breakers and Drawout Switch-disconnectors Accessories

C

Installation Kits

Device to be replaced	Kit to be ordered	4P
MasterPact M08 to M32		
Type N1/NI/H1/H2/HI/HF		
	1 x EF599927	1 x EF599927
MasterPact M40		
Type H1/H2/HI/HF		
	1 x EF599934	1 x EF599934
MasterPact M50		
Type H1/H2/HI		
	1 x EF599935	1 x EF599935
MasterPact M63		
Type H1/H2/HI		
	1 x EF599938	1 x EF599938

Riser Block

Device to be replaced	Kit to be ordered	4P
MasterPact M40		
Type H1/H2/HI/HF		
	NA	1 x EF548932

Power Isolation Kit (optional)

Device to be replaced	Kit to be ordered	4P
MasterPact M08 to M63		
Type N1/NI/H1/H2/HI/HF		
	1 x EF548928	1 x EF548928

Auxiliaries Wires Strand

Device to be replaced	Kit to be ordered	4P
MasterPact M08 to M50		
Type N1/NI/H1/H2/HI/HF		
	1 x EF548929 [1]	1 x EF548929 [1]
	1 x EF548930 [2]	1 x EF548930 [2]

Escutcheon

	1x LV848603SP
--	---------------

Installation Guide (included as standard in the installation kits)

	1x EF599100
--	-------------

[1] Auxiliaries 12 wires strand 08/63H Do

[2] Auxiliaries 24 wires strand 08/63H Fix/Do

EcoFit™ Life Extension Advanced - Masterkit

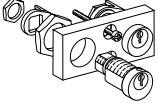
MTZ2 08 to MTZ3 63 Drawout Circuit Breakers

Chassis Locking and Accessories

Chassis Locking

"Disconnected" position locking

DB404325 eps



By padlocks

VCPO

Standard

By Profalux keylocks

Profalux

1 lock with 1 key + adaptation kit

LV848568

2 locks 1 key + adaptation kit

LV848569

2 locks 2 different keys + adaptation kit

LV848570

By Ronis keylocks

Ronis

1 lock with 1 key + adaptation kit

LV848572

2 locks 1 key + adaptation kit

LV848573

2 locks 2 different keys + adaptation kit

LV848574

Optional disconnected/test/connected position locking

LV833779

Adaptation kit

adaptation kit Profalux / Ronis

LV848564SP

(without keylock):

adaptation kit Castell

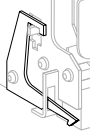
LV848565SP

adaptation kit Kirk

LV848566SP

Door interlock (1 part)

DB404326 eps



Right-hand side of chassis

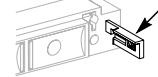
LV848579SP

Left-hand side of chassis

LV848580SP

Racking interlock

DB404327 eps



1 part

LV848582

Racking interlock between crank and OFF pushbutton

1 part

LV848585

Automatic spring discharge before breaker removal

1 part

LV848554

DB404328 eps



Breaker mismatch protection

DB404329 eps



Breaker mismatch protection VDC

LV833767SP

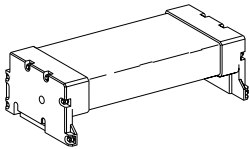
MTZ2 08 to MTZ3 63 Drawout Circuit Breakers

Chassis Locking and Accessories

Chassis Accessories

Arc chute cover

DB404330.eps

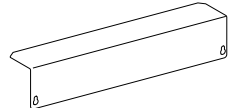


3P/4P

Standard

Auxiliary terminal shield (CB)

DB404331.eps



800/4000 A

3P

LV848595

4P

LV848596

4000/6300 A

3P

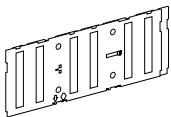
LV848597

4P

LV848598

Safety shutters + locking block

DB404332.eps



800/4000 A

3P

Standard

4P

Standard

4000/6300 A

3P

Standard

4P

Standard

Shutter locking block (for replacement)

DB404333.eps

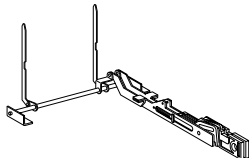


2 parts for 800/4000 A

LV848591SP

Front face shutter position indication and locking

DB404374.eps



800/4000 A

3P/4P

LV848592

4000/6300 A

3P

LV848593

4P

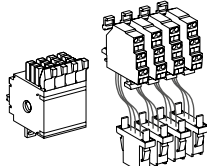
LV848594

MTZ2 08 to MTZ3 63 Drawout Circuit Breakers

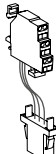
Indication Contacts and Remote Operation

Indication Contacts

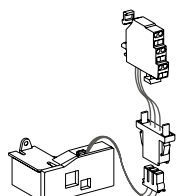
ON/OFF indication contacts (OF)

DB404321.eps		Block of 4 changeover contacts (6 A - 240 V)	1 block (standard)
		1 additional block of 4 contacts (2 max.)	LV848468

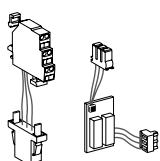
Combined closed / connected contacts for use with 1 auxiliary contact

DB404322.eps		1 contact (5 A - 240 V) (8 max.)	LV848477
		or 1 low-level contact (8 max.)	LV848478

"Fault trip" indication contacts (SDE)

DB404320.eps		Changeover contact (6 A - 240 V)	1 (standard)
		1 additional SDE (6 A - 240 V)	LV848475
		or 1 additional low-level SDE	LV848476

Programmable contacts (programmed via Micrologic X control unit)

DB404375.eps		2 contacts M2C (5 A - 240 V)	LV848382
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Carriage switches (connected / disconnected / test position)

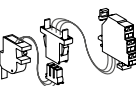
DB404324.eps		Changeover contacts (8 A - 240 V)	
		1 connected position contact (3 max.)	LV833751
		1 test position contact (3 max.)	LV833752
		1 disconnected position contact (3 max.)	LV833753
		and/or low-level changeover contacts	
		1 connected position contact (3 max.)	LV833754
		1 test position contact (3 max.)	LV833755
		1 disconnected position contact (3 max.)	LV833756
		Actuator for additional carriage switches	LV848560SP

Auxiliary terminals for chassis alone

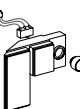
3 wire terminal (30 parts)	LV847898SP
6 wire terminal (10 parts)	LV847899SP
Jumpers (10 parts)	LV847900SP

Remote Operation

"Ready to close" contact (1 max.)

DB404379.eps			PF
		1 changeover contact (5 A - 240 V)	LV848469
		1 low-level changeover contact	LV848470

Electrical closing pushbutton

DB404319.eps		1 pushbutton	BPFE
			LV848534

Remote reset after fault trip

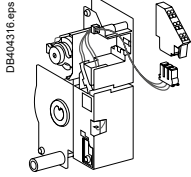
Electrical reset	RES
110/130 V AC	LV848472
220/240 V AC	LV848473
Automatic reset	RAR
Adaptation	LV847346

MTZ2 08 to MTZ3 63 Drawout Circuit Breakers

Remote Operation

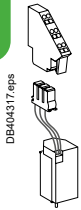
Remote ON/OFF

Gear motor



AC 50/60 Hz	48 V	MCH
	100/130 V	LV848522
	200/240 V	LV848526
	250/277 V	LV848527
	380/415 V	LV848528
	440/480 V	LV848529
DC	24/30 V	LV848530
	48/60 V	LV848521
	100/130 V	LV848522
	200/250 V	LV848523
		LV848524

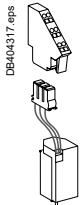
Instantaneous voltage releases



		Closing release	Opening release
Standard	AC 50/60 Hz	XF	MX
	DC	LV848481	LV848491
		LV848482	LV848492
		LV848483	LV848493
		LV848484	LV848494
		LV848485	LV848495
Diagnostic & Communicating	380/480 V AC	LV848486	LV848496
	AC 50/60 Hz	XF diag & com	MX diag & com
	DC	LV848449	LV848458
		LV848450	LV848459
		LV848451	LV848460
		LV848452	LV848461
Standard	277 V AC	LV848453	LV848462
	380/480 V AC	LV848454	LV848463
		Opening release	
	AC 50/60 Hz	MN	
	DC	LV848501	
		LV848502	
Diagnostic	100/130 V AC/DC	LV848503	
	200/250 V AC/DC	LV848504	
	380/480 V AC	LV848506	
	AC 50/60 Hz	MN diag	
	DC	LV836705	
		LV836706	
		LV836707	
		LV836708	
		LV836709	

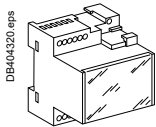
Remote Tripping

Instantaneous voltage release



AC 50/60 Hz	24/30 V DC, 24 V AC	2nd MX
	48/60 V DC, 48 V AC	LV848511
	100/130 V AC/DC	LV848512
	200/250 V AC/DC	LV848513
	277 V AC	LV848514
	380/480 V AC	LV848515
DC		LV848516

MN delay unit



AC 50/60 Hz	48/60 V AC/DC	R (non-adjustable)	Rr (adjustable)
	100/130 V AC/DC	-	LV833680SP
	200/250 V AC/DC	LV833684SP	LV833681SP
	380/480 V AC/DC	LV833685SP	LV833682SP
DC		-	LV833683SP

EcoFit™ Life Extension Advanced - Masterkit

Accessories for MTZ2 08 to MTZ3 63

Fixed and Drawout Circuit Breakers

Circuit Breaker Locking

Pushbutton locking device

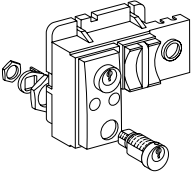
DB404337 eps



By padlocks	LV848536
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OFF position locking

DB404338 eps



By padlocks	VCPO	LV848539
By Profalux keylocks		
Profalux	1 lock with 1 key + adaptation kit	LV848545
	2 locks 1 key + adaptation kit	LV848546
	2 locks 2 different keys + adaptation kit	LV848547
By Ronis keylocks		
Ronis	1 lock with 1 key + adaptation kit	LV848549
	2 locks 1 key + adaptation kit	LV848550
	2 locks 2 different keys + adaptation kit	LV848551
Adaptation kit (without keylock):	adaptation kit Profalux / Ronis	LV848541SP
	adaptation kit Kirk	LV848542SP
	adaptation kit Castell	LV848543SP

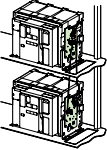
Cable-type Door Interlock

1 complete assembly for MasterPact MTZ2/MTZ3 fixed or drawout device	LV848614SP
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Mechanical Interlocking for Source Changeover

Interlocking of 2 devices using connecting rods

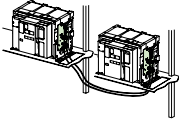
DB421405 eps



Complete assembly with 2 adaptation fixtures + rods	
1 set of 2 adaptation fixtures for MasterPact MTZ2 or MTZ3 fixed or drawout device	LV847930SP
1 set of 2 interlocking rods	LV833210SP
Note: Can be used with 1 MTZ2/3 fixed + 1 MTZ2/3 drawout.	

Interlocking of 2 devices using cables [1]

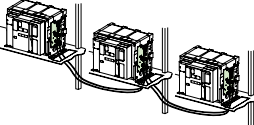
DB421406 eps



Choose 2 adaptation fixtures (1 for each device) + 1 set of cables	
1 adaptation fixture for MasterPact MTZ2/3 fixed devices	LV847926SP
1 adaptation fixture for MasterPact MTZ2/3 drawout devices	LV847926SP
1 set of 2 cables of 2.5 m	LV833209SP
[1] Can be used with any combination of MTZ, fixed or drawout devices.	

Interlocking of 3 devices using cables

DB421407 eps



Choose 1 interlocking kit (including 3 adaptation fixtures + cables)	
3 sources, only 1 device closed, fixed or drawout devices	LV848610SP
2 sources + 1 coupling, fixed or drawout devices	LV848609SP
2 normal + 1 replacement source, fixed or drawout devices	LV848608SP

Other Circuit Breaker Accessories

Mechanical operation counter

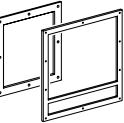
DB125617 eps



Operation counter CDM	LV848535
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Escutcheon and accessories

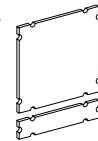
DB421415 eps



DB404340 eps



DB404341 eps



	Fixed	Drawout
Escutcheon	LV848601SP	LV848603SP
Transparent cover IP54		LV848604SP
Escutcheon blanking plate	LV848605SP	LV848605SP

Escutcheon

Cover

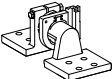
Blanking plate

Accessories for MTZ2 08 to MTZ3 63 Fixed and Drawout Circuit Breakers

Accessories for Micrologic X Control Units

External sensors

External sensor for earth-fault protection (TCE)

	Sensor rating	400/2000 A	LV834035SP
		1000/4000 A	LV834036SP
		4000/6300 A (MTZ3)	LV848182SP
	Single sensor kit	2000/6300 A	LV848904SP
	3 layer bus	2000 A	LV848905SP

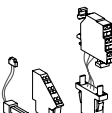
Rectangular sensor for earth-leakage protection

	470 mm x 160 mm	In max. 3200 A	LV833574SP
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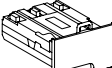
Source ground return (SGR) earth fault protection

	External sensor (SGR)		LV833579SP
	MDGF summing module		LV848891SP

Voltage measurement input (for breakers supplied via bottom terminals)

	Voltage measurement input	Fixed	LV847506
		Drawout	LV848533

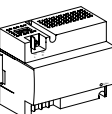
Voltage power supply module (VPS) for Micrologic X

			LV850060
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Zone Selective Interlocking option for Micrologic X

ZSI	Standard
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External power supply module (AD)

	24/30 V DC	LV54440
	48/60 V DC	LV54441
	100/125 V DC	LV54442
	110/130 V AC	LV54443
	200/240 V AC	LV54444

Test and Commissioning Equipment

USB Cable (miniUSB/USB) for MicroLogic X

		LV850067SP
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Mobile Powerpack for MicroLogic X (by APC)

		LV850055SP
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Special Settings

Sensor rating to be specified when ordering

Rating	MTZ2 08	MTZ2 10	MTZ2 12	MTZ2 16	MTZ2 20	MTZ2 25	MTZ2 32
400	■	■					
630	■						
800		■					
1000			■				
1250				■			
1600					■		
2000						■	
2500							■
3200							■
Rating	MTZ2 40	MTZ3 40	MTZ3 50	MTZ3 63			
2000	■	■					
2500	■	■	■				
3200	■	■	■	■			
4000			■	■			
5000				■			
6300							

EcoFit™ Life Extension Advanced - Masterkit

MTZ2 08 to MTZ3 50 Fixed Switch-disconnectors

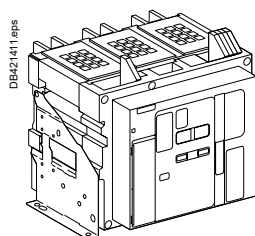
Switch-disconnectors and Connections

How to define EcoFit™ Life Extension Advanced - Masterkit solutions?

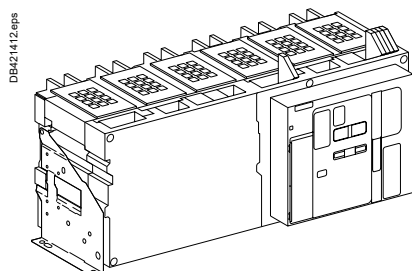
A complete Masterkit fixed switch-disconnector is described by up to 7 catalogue numbers corresponding to:

- the basic MasterPact MTZ2 or MTZ3 switch-disconnector
- top and bottom connections
- installation kit
- escutcheon for MTZ2 40 and MTZ3 50
- aux. wires strand
- power isolation kit.

A communication option, various auxiliaries and accessories may also be added.



Basic Switch-disconnector y 4000 A.



Basic Switch-disconnector u 4000 A.

Basic Switch-disconnector

Type NA				
			3P	4P
	In (A at 40 °C)	Icm (kA peak for U = 220/690 V)		
MTZ2 08	800	88	LV848004	LV848011
MTZ2 10	1000	88	LV848018	LV848025
MTZ2 12	1250	88	LV848032	LV848039
MTZ2 16	1600	88	LV848046	LV848053

Type HA				
			3P	4P
	In (A at 40 °C)	Icm (kA peak for U = 220/690 V)		
MTZ2 08	800	145	LV848005	LV848012
MTZ2 10	1000	145	LV848019	LV848026
MTZ2 12	1250	145	LV848033	LV848040
MTZ2 16	1600	145	LV848047	LV848054
MTZ2 20	2000	145	LV848061	LV848068
MTZ2 25	2500	145	LV848074	LV848080
MTZ2 32	3200	145	LV848085	LV848090
MTZ2 40	4000	145	LV848095	LV848100
MTZ3 50	5000	187	LV848114	

Type HF				
			3P	4P
	In (A at 40 °C)	Icm (kA peak for U = 220/690 V)		
MTZ2 08	800	187	LV848006	LV848013
MTZ2 10	1000	187	LV848020	LV848027
MTZ2 12	1250	187	LV848034	LV848041
MTZ2 16	1600	187	LV848048	LV848055
MTZ2 20	2000	187	LV848062	LV848069
MTZ2 25	2500	187	LV848075	LV848081
MTZ2 32	3200	187	LV848086	LV848091
MTZ2 40	4000	187	LV848096	LV848101

Connections

see page C-5

Masterkit Accessories

see page C-6

Auxiliaries and Accessories:

- for fixed devices: see page C-6
- for fixed or drawout devices: see page C-17.
- Source changeover assembly: see page C-17.

MTZ2 08 to MTZ3 63 Drawout Switch-disconnectors

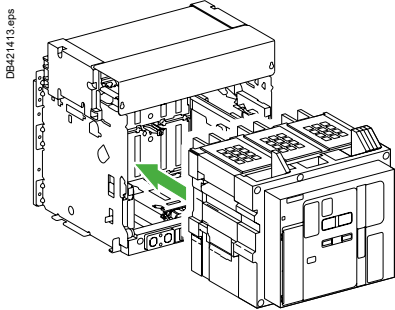
Switch-disconnectors and Connections

How to define EcoFit™ Life Extension Advanced - Masterkit solutions?

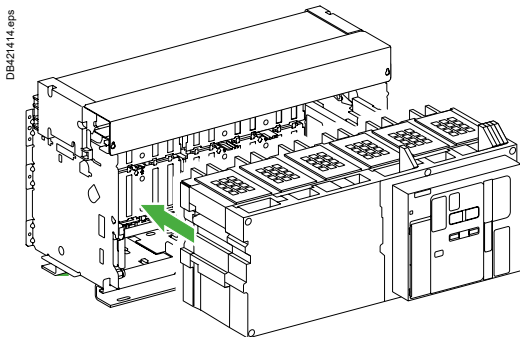
Masterkit drawout switch-disconnector is described by up to 10 catalogue numbers corresponding to:

- the basic MasterPact MTZ switch-disconnector
- a chassis
- top and bottom connections
- installation kit
- aux. wires strands
- escutcheon for MTZ2 40 and MTZ3 50/63
- power isolation kit
- riser block for MTZ2 40 4P Drawout .

A communication option, various auxiliaries and accessories may also be added.



Basic Switch-disconnector + Chassis y 4000 A.



Basic Switch-disconnector + Chassis u 4000 A.

Basic Switch-disconnector

Type NA				
	3P		4P	
	In (A at 40 °C)	Icm (kA peak for U = 220/690 V)		
MTZ2 08	800	88	LV848234	LV848241
MTZ2 10	1000	88	LV848248	LV848255
MTZ2 12	1250	88	LV848262	LV848269
MTZ2 16	1600	88	LV848276	LV848283

Type HA				
	3P		4P	
	In (A at 40 °C)	Icm (kA peak for U = 220/690 V)		
MTZ2 08	800	145	LV848235	LV848242
MTZ2 10	1000	145	LV848249	LV848256
MTZ2 12	1250	145	LV848263	LV848270
MTZ2 16	1600	145	LV848277	LV848284
MTZ2 20	2000	145	LV848291	LV848298
MTZ2 25	2500	145	LV848304	LV848310
MTZ2 32	3200	145	LV848315	LV848320
MTZ2 40	4000	145	LV848325	LV848330
MTZ3 50	5000	187	LV848344	LV848347
MTZ3 63	6300	187	LV848350	LV848353

Chassis

Type NA/HA/HF		
	3P	4P
800 - 1600 A	LV848392	LV848404

Type HA/HF/HH		
	3P	4P
2000 A	LV848393	LV848405
2500 A	LV848394	LV848406
3200 A	LV848395	LV848407
4000 A	LV848396	LV848408

Type HA		
	3P	4P
4000/6300 A (MTZ3)	LV848397	LV848409

Connections

see page C-11

Masterkit Accessories

see page C-12

Type HF				
	3P		4P	
	In (A at 40 °C)	Icm (kA peak for U = 220/690 V)		
MTZ2 08	800	187	LV848006	LV848013
MTZ2 10	1000	187	LV848020	LV848027
MTZ2 12	1250	187	LV848034	LV848041
MTZ2 16	1600	187	LV848048	LV848055
MTZ2 20	2000	187	LV848062	LV848069
MTZ2 25	2500	187	LV848075	LV848081
MTZ2 32	3200	187	LV848086	LV848091
MTZ2 40	4000	187	LV848096	LV848101

Masterkit Accessories

see page C-12

Auxiliaries and Accessories:

- for fixed devices: see [page C-12](#)
- for fixed or drawout devices: see [page C-17](#).
- Source changeover assembly: see [page C-17](#)

EcoFit™ Life Extension Advanced - Masterkit

MTZ2 08 to MTZ2 32 Circuit Breakers

with Neutral on the Right

Circuit Breakers

How to define EcoFit™ Life Extension Advanced - Masterkit solutions?

A 4 pole Masterkit circuit breaker with neutral on the right is described by the same catalogue numbers as a standard MasterPact MTZ2 4 pole one, except for the basic MasterPact MTZ2 circuit breaker, which is specific.

Fixed Circuit Breakers with Neutral on the Right

Type H1				4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 %	Icu	
MTZ2 08	800	66		LV848183
MTZ2 10	1000	66		LV848184
MTZ2 12	1250	66		LV848185
MTZ2 16	1600	66		LV848186
MTZ2 20	2000	66		LV848060
MTZ2 25	2500	66		LV848073
MTZ2 32	3200	66		LV848187

Type H2

				4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 %	Icu	
MTZ2 08	800	100		LV848177
MTZ2 10	1000	100		LV848178
MTZ2 12	1250	100		LV848179
MTZ2 16	1600	100		LV848180
MTZ2 20	2000	100		LV848067
MTZ2 25	2500	100		LV848079
MTZ2 32	3200	100		LV848181

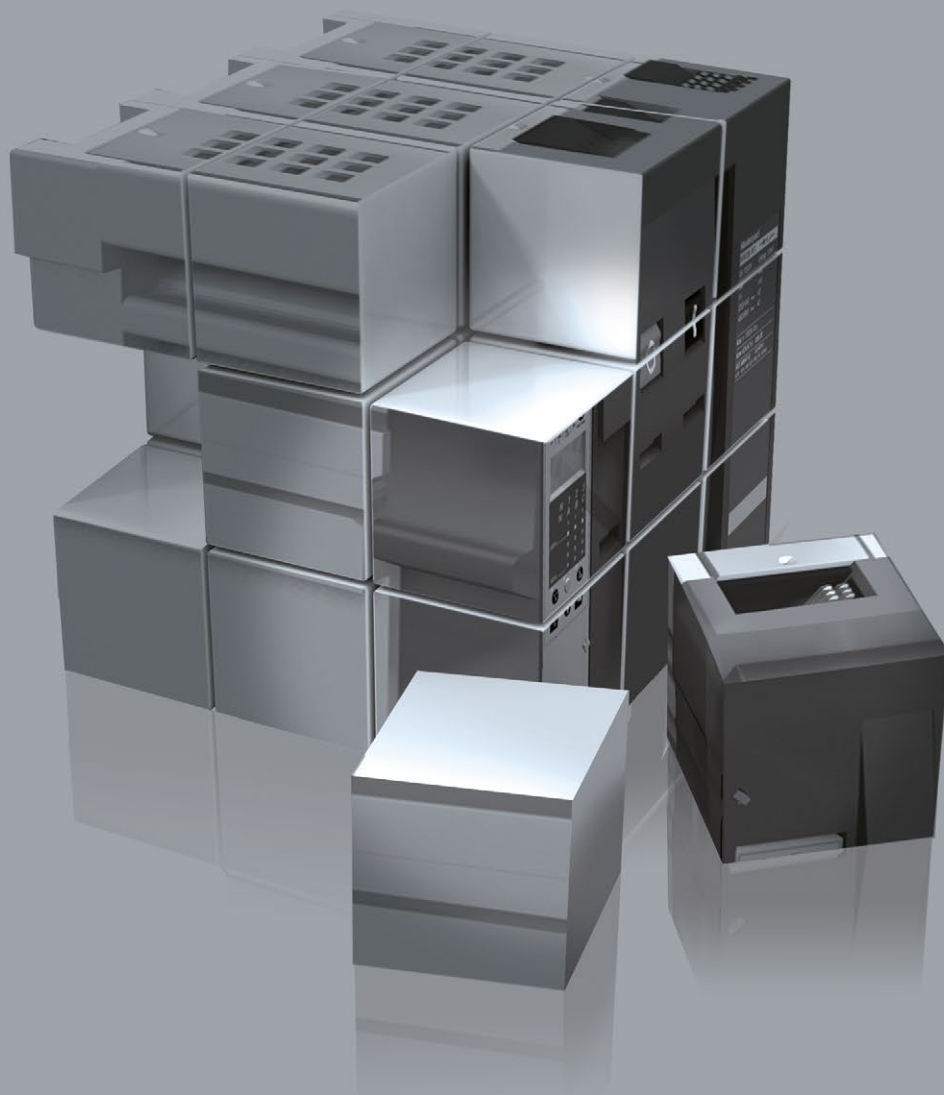
Drawout Circuit Breakers with Neutral on the Right

Type H1				4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 %	Icu	
MTZ2 08	800	66		LV848226
MTZ2 10	1000	66		LV848227
MTZ2 12	1250	66		LV848228
MTZ2 16	1600	66		LV848229
MTZ2 20	2000	66		LV848436
MTZ2 25	2500	66		LV848303
MTZ2 32	3200	66		LV848437

Type H2

				4P
	In (A at 40 °C)	Icu (kA for U = 220/440 V) - Ics = 100 %	Icu	
MTZ2 08	800	100		LV848426
MTZ2 10	1000	100		LV848427
MTZ2 12	1250	100		LV848428
MTZ2 16	1600	100		LV848429
MTZ2 20	2000	100		LV848438
MTZ2 25	2500	100		LV848309
MTZ2 32	3200	100		LV848439

APPENDIX: SPARE PARTS



Appendix: Masterpact MTZ2/3 Spare Parts

Appendix: MasterPact MTZ Spare Parts

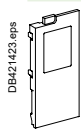
Micrologic X Control Unit, Communication Option, Accessories	D-2
Remote Operation.....	D-3
Chassis Locking and Accessories.....	D-4
Clusters.....	D-5
Circuit Breaker Locking and Accessories	D-6
Mechanical Interlocking for Source Changeover.....	D-7
Indication Contacts.....	D-8
Monitoring and Control, Ethernet Gateway	D-9

D

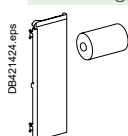
Micrologic X Control Unit, Communication Option, Accessories

Replacement Parts for Micrologic X Control Units

Micrologic X embedded display (EHMI)

	Micrologic X embedded display & wireless card	LV850054SP

Micrologic X Battery + Transparent cover

	Battery (1 part)	LV833593SP
	Transparent Cover (1 part) for Micrologic X	LV850053SP

Voltage power supply module (VPS) for Micrologic X

	Voltage power supply module (VPS) for Micrologic X	LV850060SP
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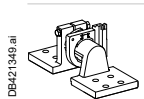
Communication Option

	EIFE	Embedded Ethernet interface for LV breaker	LV851200SP
	IFE	Ethernet interface LV breaker	LV434010
		Ethernet interface for LV breakers and gateway	LV434011
	I/O application module		LV434063
	Microswitches for MTZ2/3		LV847905SP

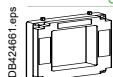
Accessories

External sensors

External sensor for earth-fault protection (TCE) / 1 part

	Sensor rating	400/2000 A	LV834035SP
		1000/4000 A	LV834036SP
		4000/6300 A (MTZ3)	LV848182SP
	Single sensor kit	2000/6300 A	LV848904
	3 layer bus	2000 A	LV848905

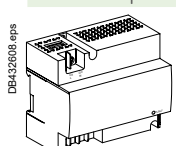
Source ground return (SGR) earth-fault protection / 1 part

	External sensor (SGR)	LV833579SP
	MDGF summing module	LV848891SP

Rectangular sensor for earth-leakage protection + Vigi cable / 1 part (up to 3200 A)

	280 mm x 115 mm	LV833573SP
	470 mm x 160 mm	LV833574SP

External power supply module (AD) / 1 part

	24-30 V DC	LV54440
	48-60 V DC	LV54441
	100-125 V DC	LV54442
	110-130 V AC	LV54443
	200-240 V AC	LV54444
	380-415 V AC	LV54445

USB Cable (miniUSB/USB) for Micrologic X / 1 part

	USB Cable (miniUSB/USB) for Micrologic X / 1 part	LV850067SP
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Mobile Powerpack for Micrologic X (by APC) / 1 part

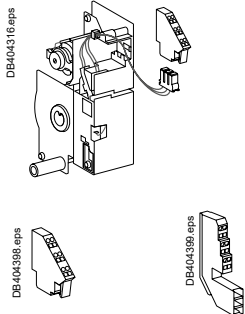
	Mobile Powerpack for Micrologic X (by APC) / 1 part	LV850055SP
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Appendix: Masterpact MTZ2/3 Spare Parts

Remote Operation

Remote Operation

Gear motor



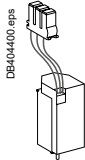
MCH (1 part)

AC 50/60 Hz	48 V	LV847889SP
	100/130 V	LV847893SP
	200/240 V	LV847894SP
	277/415 V	LV847895SP
	440/480 V	LV847896SP
	+ resistor	LV847897SP
DC	24/30 V	LV847888SP
	48/60 V	LV847889SP
	100/125 V	LV847890SP
	200/250 V	LV847891SP
		LV847899SP
Terminal block (1 part)	For fixed circuit breaker	LV847074SP
	For drawout circuit breaker	LV847849SP

Fixed.

Drawout.

Closing and opening release (XF or MX)

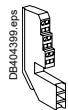


Standard coil (1 part)

AC 50/60 Hz	24/30 V DC, 24 V AC	LV833659SP
	48/60 V DC, 48 V AC	LV833660SP
DC	100/130 V AC/DC	LV833661SP
	200/250 V AC/DC	LV833662SP
	277 V AC	LV833663SP
	380/480 V AC	LV833664SP

Diagnostics & Communicating coil (1 part) [1]

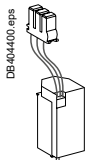
AC 50/60 Hz	24/30 V DC, 24 V AC	LV833033SP
	48/60 V DC, 48 V AC	LV833034SP
DC	100/130 V AC/DC	LV833035SP
	200/250 V AC/DC	LV833036SP
	277 V AC	LV833037SP
	380/480 V AC	LV833038SP
	Wiring kit for diag & com coil	LV847904
Terminal block (1 part)	For fixed circuit breaker	LV847074SP
	For drawout circuit breaker	LV847849SP



Fixed.

Drawout.

Undervoltage release MN

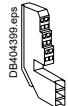


Undervoltage release (1 part)

AC 50/60 Hz	24/30 V DC, 24 V AC	LV833668SP
	48/60 V DC, 48 V AC	LV833669SP
DC	100/130 V AC/DC	LV833670SP
	200/250 V AC/DC	LV833671SP
	380/480 V AC	LV833673SP

Diagnostics coil (1 part) [1]

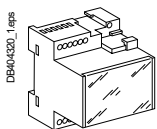
AC 50/60 Hz	24/30 V DC, 24 V AC	LV833668SP
	48/60 V DC, 48 V AC	LV833669SP
DC	100/130 V AC/DC	LV833670SP
	200/250 V AC/DC	LV833671SP
	380/480 V AC	LV833673SP
	Wiring kit for diag & com coil	LV847904
Terminal block (1 part)	For fixed circuit breaker	LV847074SP
	For drawout circuit breaker	LV847849SP



Fixed.

Drawout.

MN delay unit



MN delay unit (1 part)

		R (non-adjustable)	Rr (adjustable)
AC 50/60 Hz	48/60 V AC/DC		LV833680SP
	100/130 V AC/DC	LV833684SP	LV833681SP
DC	200/250 V AC/DC	LV833685SP	LV833682SP
	380/480 V AC/DC		LV833683SP

[1] Diagnostics & Communicating coils (MX/XF/MN) requires additionally the isolation module if isn't installed in breaker -1 module by breaker.

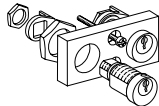
Appendix: Masterpact MTZ2/3 Spare Parts

Chassis Locking and Accessories

Chassis Locking

"Disconnected" position locking / 1 part

DB404325_1.eps



By padlocks		
	VCPO	Standard
By Profalux keylocks		
Profalux	1 lock with 1 key + adaptation kit	LV864934SP
	2 locks 1 key + adaptation kit	LV864935SP
	2 locks 2 different keys + adaptation kit	LV864936SP
1 keylock Profalux (without adaptation kit):	identical key not identified combination	LV833173SP
	identical key identified 215470 combination	LV833174SP
	identical key identified 215471 combination	LV833175SP
By Ronis keylocks		
Ronis	1 lock with 1 key + adaptation kit	LV864937SP
	2 locks 1 key + adaptation kit	LV864938SP
	2 locks 2 different keys + adaptation kit	LV864939SP
1 keylock Ronis (without adaptation kit):	identical key not identified combination	LV833189SP
	identical key identified EL24135 combination	LV833190SP
	identical key identified EL24153 combination	LV833191SP
	identical key identified EL24315 combination	LV833192SP
Adaptation kit (without keylock):	adaptation kit Profalux / Ronis	LV848564SP
	adaptation kit Kirk	LV848565SP
	adaptation kit Castell	LV848566SP

Door interlock / 1 part

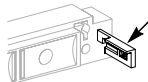
DB404326_1.eps



Right and left-hand side of chassis (VPECD or VPECG)	LV847914SP
--	------------

Racking interlock

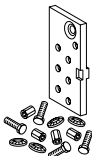
DB404327_1.eps



5 parts	LV864940SP
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Breaker mismatch protection / 1 part

DB404329_2.eps



Breaker mismatch protection (VDC)	LV833767SP
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Chassis Accessories

Auxiliary terminal shield (CB) / 1 part

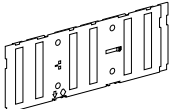
DB404331_1.eps



MTZ2 800/4000 A	3P	LV864942SP
	4P	LV848596SP
MTZ3 4000/6300 A	3P	LV848597SP
	4P	LV848598SP

Safety shutters + locking block / 1 part

DB404332_1.eps



MTZ2 800/4000 A	3P	LV848721SP
	4P	LV848723SP
MTZ3 4000/6300 A	3P	LV848722SP
	4P	LV848724SP

Shutter locking block (for replacement) / 1 part

DB404333_1.eps



2 parts for 800/4000 A	LV848591SP
------------------------	------------

Earthing Kit for Chassis

3P

4P

Types for N1/H1/NA/HA

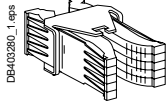
LV848433SP

LV848434SP

Note: the installation manual is enclosed.

Appendix: Masterpact MTZ2/3 Spare Parts Clusters

Clusters



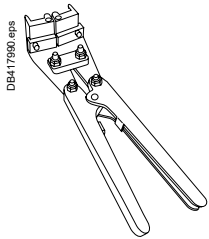
Kit of 6 disconnecting contact clusters for chassis (see table below)

LV864906SP

Table : number of clusters required for the different chassis models

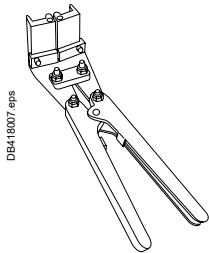
	MasterPact MTZ2/3 3P					MasterPact MTZ2/3 4P				
	N1, HA	H1, HA	H2, HF	H3	L1	N1, NA	H1, HA	H2, HF	H3	L1
MTZ2 08 to 16	12	12	12		24	16	16		32	32
MTZ2 20	24	24	24	24	42	32	32	32	56	32
MTZ2 25		24	24	24			32	32		32
MTZ2 32		36	36	36			48	48		32
MTZ2 40		42	42	42			56	56		32
MTZ3 40 to 50		72					96			56
MTZ3 63		72					96			

Note: the minimum order is 6 parts.



Set of 2 clusters fitters for 2 and 3 clusters

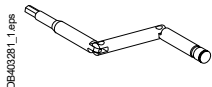
47554



Racking handle

Racking handle

LV847944SP

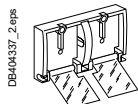


Appendix: Masterpact MTZ2/3 Spare Parts

Circuit Breaker Locking and Accessories

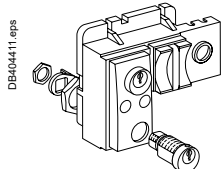
Circuit Breaker Locking

Pushbutton locking device / 1 part



By padlocks	LV848536SP
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OFF position locking / 1 part



By padlocks	LV848539SP
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By Profalux keylocks

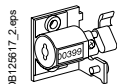
Profalux	1 lock with 1 key + adaptation kit	LV864928SP
	2 locks 1 key + adaptation kit	LV864929SP
	2 locks 2 different keys + adaptation kit	LV864930SP
1 keylock Profalux (without adaptation kit):	identical key not identified combination	LV833173SP
	identical key identified 215470 combination	LV833174SP
	identical key identified 215471 combination	LV833175SP

By Ronis keylocks

Ronis	1 lock with 1 key + adaptation kit	LV864931SP
	2 locks 1 key + adaptation kit	LV864932SP
	2 locks 2 different keys + adaptation kit	LV864933SP
1 keylock Ronis (without adaptation kit):	identical key not identified combination	LV833189SP
	identical key identified EL24135 combination	LV833190SP
	identical key identified EL24153 combination	LV833191SP
	identical key identified EL24315 combination	LV833192SP
Adaptation kit (without keylock):	adaptation kit Profalux / Ronis	LV864925SP
	adaptation kit Kirk	LV864926SP
	adaptation kit Castell	LV864927SP

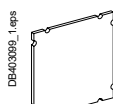
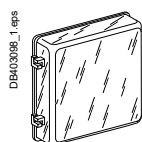
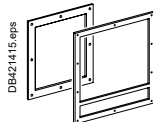
Other Circuit Breaker Accessories

Mechanical operation counter / 1 part



Operation counter CDM	LV848535SP
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Escutcheon and accessories / 1 part



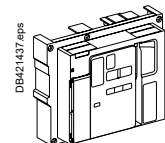
	Fixed	Drawout
Escutcheon	LV848601SP	LV848603SP
Transparent cover (IP 54)		LV848604SP
Escutcheon blanking plate	LV848605SP	LV848605SP

Escutcheon

Cover

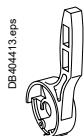
Blanking plate

Front cover (3P / 4P) / 1 part



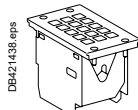
Front cover	LV847939SP
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Spring charging handle / 1 part



Spring charging handle	LV847940SP
------------------------	------------

Arc chute for MasterPact MTZ2/3 / 1 part



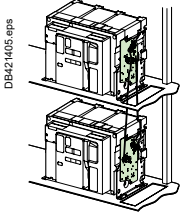
	3P	4P
Type N1/NA/HF	3 x LV847935SP	4 x LV847935SP
Type H1/H2/HA (MTZ2 08 to MTZ2 40)	3 x LV847935SP	4 x LV847935SP
Type H1/H2/HA (MTZ3 40 to MTZ3 63)	6 x LV847936SP	8 x LV847936SP
Type H3	3 x LV847936SP	4 x LV847936SP
Type H10/HA10	3 x LV847869SP	4 x LV847869SP
Type L1	3 x LV847937SP	4 x LV847937SP

Appendix: Masterpact MTZ2/3 Spare Parts

Mechanical Interlocking for Source Changeover

Mechanical Interlocking for Source Changeover

Interlocking of 2 devices using connecting rods



Choose 1 set of 2 adaptation fixtures (1 for each device) + 1 set of rods

1 set of 2 adaptation fixtures for MasterPact MTZ2 or MTZ3 fixed or drawout device

LV847930SP

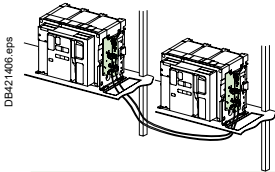
1 set of 2 interlocking rods

LV833210SP

Can be used with 1 MTZ2/3 fixed + 1 MTZ2/3 drawout.

Note: the installation manual is enclosed.

Interlocking of 2 devices using cables [1]



Choose 2 adaptation sets (1 for each device + 1 set of cables)

1 adaptation fixture for MasterPact MTZ2/3 fixed devices

LV847926SP

1 adaptation fixture for MasterPact MTZ2/3 drawout devices

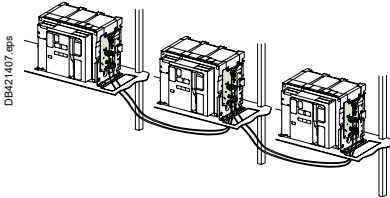
LV847926SP

1 set of 2 cables

LV833209SP

[1] Can be used with any combination of MTZ1 or MTZ2/3, fixed or drawout devices.

Interlocking of 3 devices using cables



Choose 3 adaptation (including 3 adaptation fixtures + cables)

3 sources, only 1 device closed, fixed or drawout devices

LV848610SP

2 sources + 1 coupling, fixed or drawout devices

LV848609SP

2 normal + 1 replacement source, fixed or drawout devices

LV848608SP

Cable-type Door Interlock

1 complete assembly for MasterPact MTZ2/3 fixed or drawout device

LV848614SP

Note: the installation manual is enclosed.



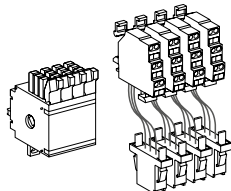
Appendix: Masterpact MTZ2/3 Spare Parts

Indication Contacts

Indication Contacts

ON/OFF indication contacts (OF) / 12 parts

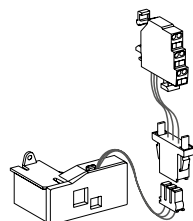
DB404321_1.eps



1 additional block of 4 contacts	LV864922SP
Wiring	For fixed circuit breaker
	For drawout circuit breaker

"Fault trip" indication contact (SDE)/ 1 part

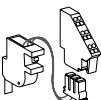
DB404323_1.eps



Changeover contact (BDE)	6 A - 240 V	LV847915SP
	Low-level	LV847916SP
Wiring	For fixed circuit breaker	LV847074SP
	For drawout circuit breaker	LV847849SP

"Ready to close" contact (1 max.) / 1 part

DB404415.eps



1 changeover contact (5 A - 240 V)	PF	LV847080SP
1 low-level changeover contact		LV847081SP
Wiring	For fixed circuit breaker	LV847074SP
	For drawout circuit breaker	LV847849SP

"Connected, disconnected, test position" indication contact (carriage switches) / 1 part

DB404324_1.eps



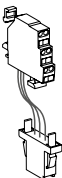
Changeover contacts	6 A - 240 V	LV833170SP
CE, CD, CT	Low-level	LV833171SP

Set of additional actuators for carriage switches / 1 set

1 set	LV848560SP
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Combined closed / connected contacts for use with 1 auxiliary contact / 1 part

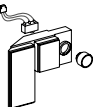
DB404322_1.eps



1 contact (5 A - 240 V)	LV848477SP
or 1 low-level contact	LV848478SP

Electrical closing pushbutton / 1 part

DB404319_1.eps



1 pushbutton	BPFE	LV848534SP
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Auxiliary terminals for chassis alone

DB404399.eps



3 wire terminal (1 part)	LV847849SP
6 wire terminal (1 part)	LV847850SP
Jumpers (10 parts)	LV847900SP

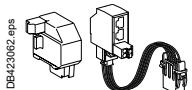
Appendix: Masterpact MTZ2/3 Spare Parts

Monitoring and Control, Ethernet Gateway

Communication Option

 DB421425.eps  DB421426.eps	EIFE	Embedded Ethernet module full spare part kit for MTZ2/3-drawout	LV851200SP
		Embedded Ethernet spare part module MTZ1/2/3-drawout	LV851001SP
 DB421427.eps  DB421428.eps	IFE	Ethernet interface LV breaker	LV434010
		Ethernet interface for LV breakers and gateway	LV434011
		Microswitches for MTZ2/3	LV847905SP
		EIFE Accessories spare part kit for MTZ2/3	LV851220SP
		I/O application module	LV434063

ULP port modules

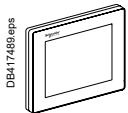
 DB423062.eps	ULP port - for MasterPact MTZ2/3 - fixed	LV850061SP
	ULP port - for MasterPact MTZ2/3 - drawout	LV850062SP

Accessories for Diagnostics & Communicating Releases

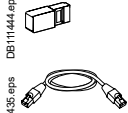
 DB421434.eps	Isolation module - for MX1/XF communicating coils	LV850056SP
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Monitoring and Control

Ethernet display module

 DB417488.eps	Switchboard front display module FDM128	LV434128
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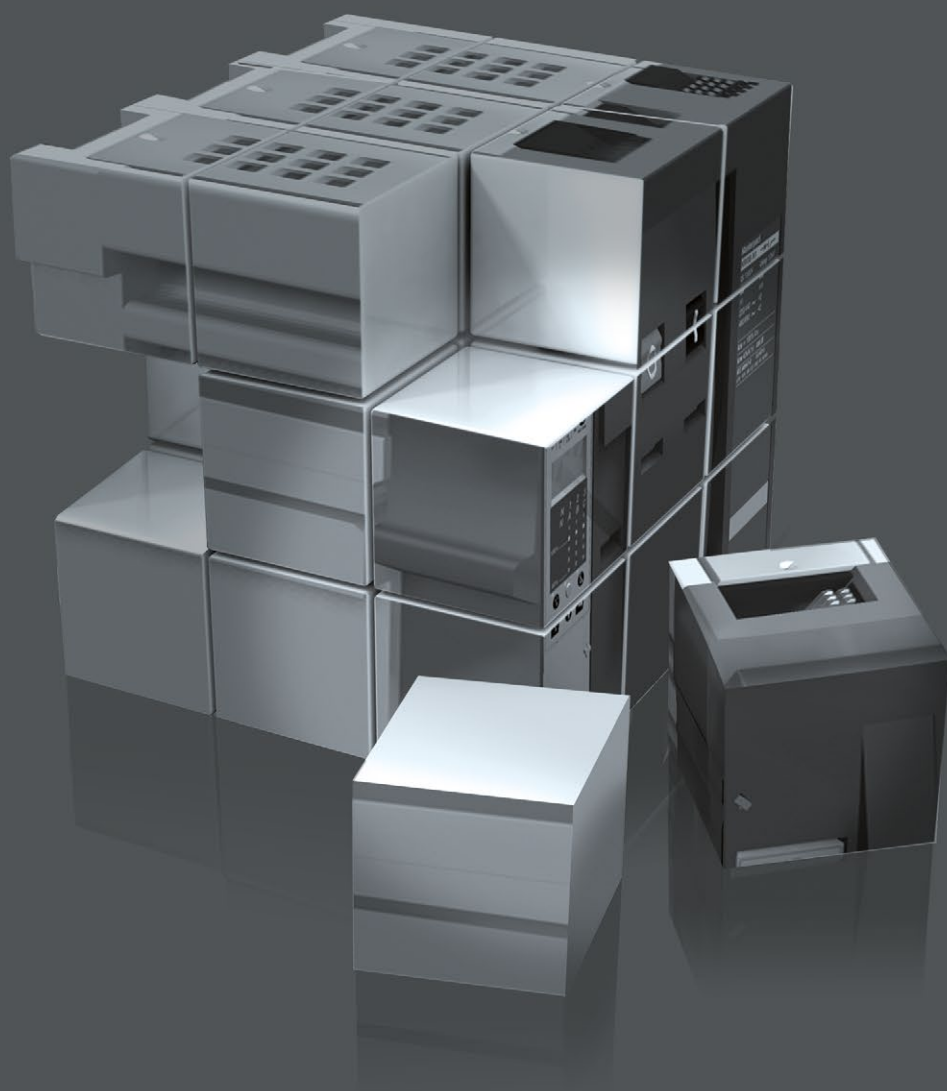
ULP wiring accessories [1]

 DB127985.eps	Breaker ULP cord L = 0.35 m	LV434195
	Breaker ULP cord L = 1.3 m	LV434196
	Breaker ULP cord L = 3 m	LV434197
 DB111440.eps	10 Modbus line terminators	VW3A8306DRC [2]
	5 RJ45 connectors female/female	TRV00870
 DB115923.eps	10 ULP line terminators	TRV00880
 DB111444.eps  DB421435.eps	10 RJ45/RJ45 male cord L = 0.3 m	TRV00803
	10 RJ45/RJ45 male cord L = 0.6 m	TRV00806
	5 RJ45/RJ45 male cord L = 1 m	TRV00810
	5 RJ45/RJ45 male cord L = 2 m	TRV00820
	5 RJ45/RJ45 male cord L = 3 m	TRV00830
	1 RJ45/RJ45 male cord L = 5 m	TRV00850

[1] For measurement display with Micrologic X.

[2] See TeSys catalogue.

APPENDIX: SPARE PARTS



Appendix: EcoFit™ Life Extension Advanced - Plug&Play Spare Parts

Appendix: EcoFit™ Life Extension Advanced - Plug&Play Spare Parts

Electrical Auxiliaries E-2

Mechanical Auxiliaries..... E-3

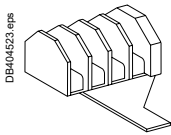
Accessories..... E-4



Appendix: EcoFit™ Life Extension Advanced - Plug&Play Spare Parts

Electrical Auxiliaries

Electrical Auxiliaries for Chassis

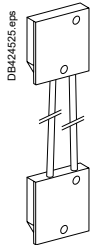
Carriage switches		
	4 connected position carriage switches CE	0685977c
	2 disconnected position carriage switches CD	0685978c

Appendix: EcoFit™ Life Extension Advanced - Plug&Play Spare Parts

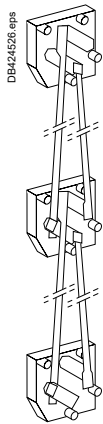
Mechanical auxiliaries

Mechanical Accessories for Chassis

Mechanical interlock for drawout version



Mechanical interlock for two circuit breakers VM2CT	0685975c
Mechanical interlock for two circuit breakers VM2CC	0685959c



Mechanical interlock for three circuit breakers	VM31CT: 2 normal + 1 emergency	0684499c
	VM32CT: 2 inputs + 1 coupling	0684498c
	VM33CT: 3 inputs	0684497c

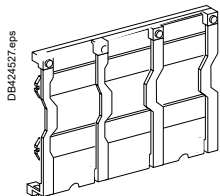
Locks

Interlocking adaptation	0690462c
Interlocking - H1/H2/HI/HF/N1/NI/LA/CC	0684991

Spring

Bolt spring	0685001
Spring with a lockable bolt	0685002

Safety shutters VO



	3P	4P
Up to 2500 A	0685946c	0685947c
3200 A	0685948c	
3200 A	Left side neutral	0685949c
	Right side neutral	068532c

Chassis

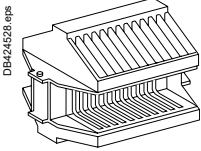
Chassis frontplate	0685633c
Position indicator kit	9012783

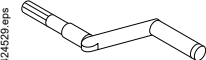
E

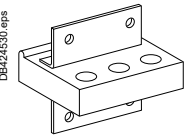
Appendix: EcoFit™ Life Extension Advanced - Plug&Play Spare Parts

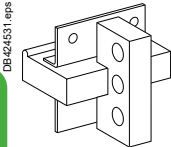
Accessories

Spares Parts for Chassis

Clusters (2P)		
	800 - 1600 AH1/H2/L1 - 1600 AN1	0685872c
	2000 - 2500 AN/H1/H2	0685874c
	2000 - 2500 AL1 - 3200A H1/H2	0685875c

Racking handle		
	Racking handle	0685631c

Horizontal terminations for drawout version (y 3200A)		
	800 - 1600 AH1/H2/L1 - 1600 AN1 (1P)	0685886c
	2000 - 2500 AN1/H1/H2 (1P)	0685887c
	3200 AH1/H2 - 2000 - 2500 AL1	3P 0685888c
		4P 0685889c

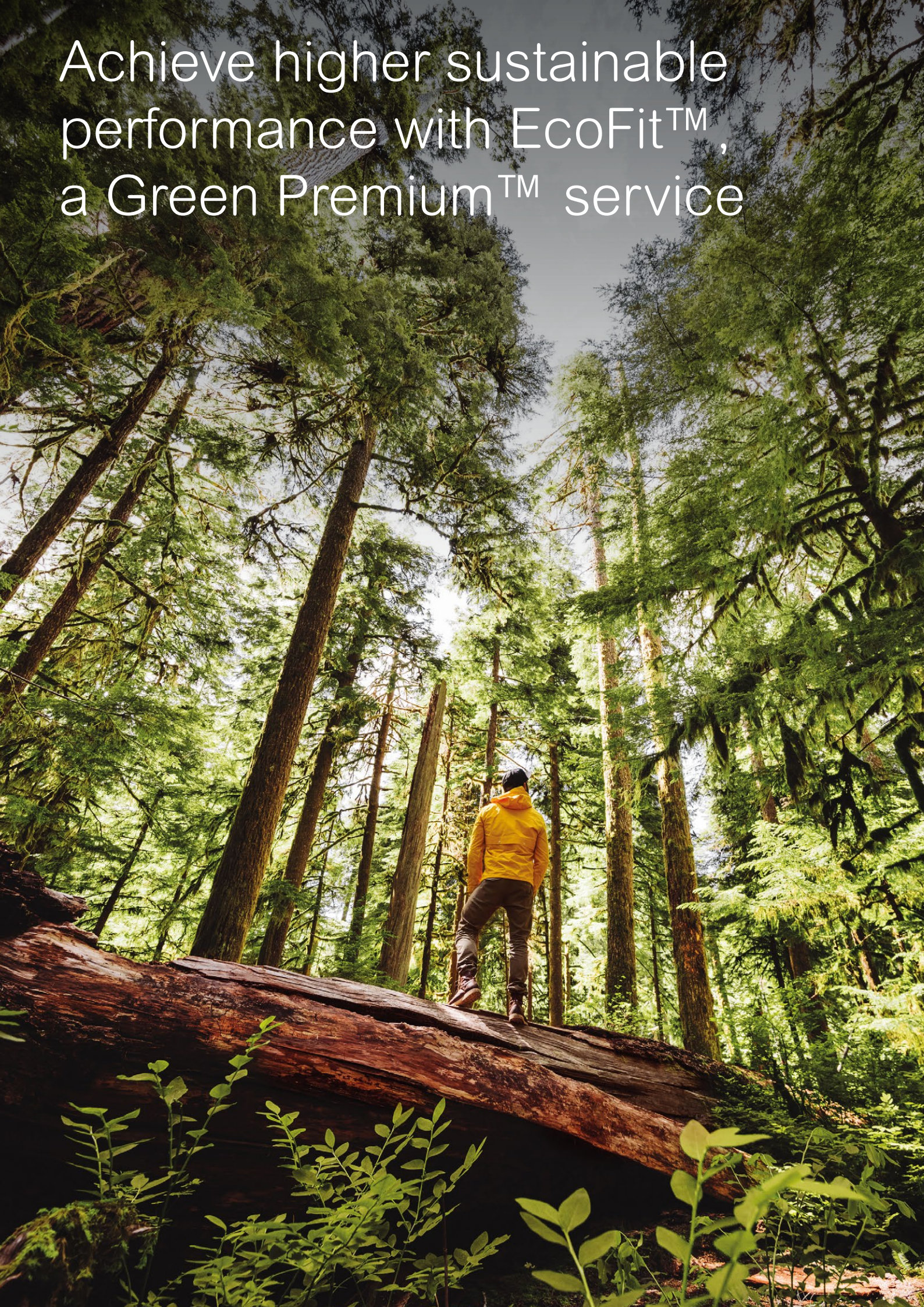
Vertical terminations for drawout version (y 3200A)		
	800 - 1600 AH1/H2/L1 - 1600 AN1 (1P)	0685895c
	2000 - 2500 AN1/H1/H2 (1P)	0685896c
	3200 AH1/H2 - 2000 - 2500 AL1	Upper 3P 0685897c
		4P 0685898c
		Lower 3P 0685899c
		4P 0685900c

Spares Parts for Plug & Play Assembly

Interlocking		
	Interlocking kit, including cam and cut-out template	EF548613

Notes

Achieve higher sustainable
performance with EcoFit™,
a Green Premium™ service



Sustainability Offers

EcoFit™ Life Extension Advanced,
a Green Premium service

MasterPacT MTZ, a Green Premium product used for EcoFit™ Life Extension Advanced service.

Green Premium stands for our commitment to deliver customer valued sustainable performance. It provides our customers with healthier products and superior transparency on material content, regulatory information and the environmental transparency on material content, regulatory information and the environmental impact of our products.

It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions. Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO₂ emissions.

We're helping our customers optimize the total cost of ownership their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacturing services.

Green Premium products are RoHS and **REACH** compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

Green Premium™ for EcoFit™ Life Extension Advanced

We're helping our customers to implement cost effective and environmentally-friendly services to retrofit their existing electrical equipment with minimal impact to their day-to-day production.



Resource performance

Our retrofit service is helping you to reduce your energy and carbon footprint. Through the modernization of active components in the electrical installation to connected products, it enables our customers to monitor and manage their energy usage. With retrofit we provide take-back services to ensure appropriate recycling of your obsolete equipment.



Circular performance

Our retrofit service is giving you an option with less environmental impact when modernizing your electrical equipment. Replacing only the active components while leaving intact the structure of the existing equipment is an efficient use of natural resources. By retrofitting you are extending the lifetime of your equipment thus optimizing the total cost of ownership of your assets.



Well-being performance

Our upgraded equipment is made with less toxic materials helping you to best protect your people from environmental risks. Our Green Premium products are RoHS and REACH compliant.



Experience the difference today at
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EcoFit™ Recover Service



Sustainability Offers

Complementing EcoFit™ Life Extension Advanced, EcoFit™ Recover Service is our environmental treatment package



98%

of a low voltage cubicle
can be recycled

Recycling of all low voltage equipment

EcoFit™ Recover Service 4 steps

- 1 > Collection of low voltage equipment from your site.
- 2 > Dismantling of the equipment. The different materials (copper, aluminium, etc.) are separated and sent to specialised recycling centres.
- 3 > A certificate of destruction is sent as proof, necessary for your environmental policies, and can contribute to your company's green image.



Get help

with raw material disposal thanks to
EcoFit™ Recover Service



EcoConsult:
Maximize your electrical system
uptime and performance



Associated Services

EcoConsult Services



Schneider Electric Services:

Your partner for electrical and automation systems operations and resiliency, and workplace safety.

Our consultants map your electrical and automation assets and systems with best-in-class Software and Digital Twin technologies to help you improve safety and resiliency of your systems.

+250

consultants Experts in power systems and automation delivering audits & systems studies.

+50

years of experience in power system studies.

+15

years. Electro intensive and sensitive sites benchmark from audit performed worldwide Patented algorithms to detect single point of failure in customer electrical distribution.

Your electrical and automation system are among the most important parts of your operation.

From assessing the existing power and automation systems to new installation design, our trusted advisors will help you identify potential safety and performance issues to reduce risks, improve resiliency and operational efficiency. We provide **actionable insights and deliver on critical business outcomes** over 4 activities:

EcoConsult Audit:

Start your assessment journey to discover the untapped efficiencies that lie into your installations.

Our Audit Service helps you in the first assessment of your installation to ensure your business is continually operating in a safe and resilient way.

EcoConsult Electrical Digital Twin:

Release the potential of Electrical Digital Twin for safe and reliable operation.

Electrical Digital Twin service is designed to create an intelligent single-line diagram and running relevant power system studies, a digital model of the electrical distribution network. Going beyond the traditional, static, paper/CAD-based electrical diagram, the digitized model includes information about the functionality of each device in the network and whole-system behavior. In this way, it enables modeling, visualization, simulation, and validation of an electrical system's performance in terms of safety, reliability, and efficiency, and managing it with a multi-year service agreement.

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Help improve operator and equipment safety.

Our consultant execute studies to help you sizing your system, defining protection coordination and implementing Arc Flash practices. Further studies can be performed to improve energy efficiency thanks to power factor and harmonic studies.

EcoConsult Design:

Enjoy the best-in-class expertise of our design consultant for your installations.

Enjoy the best in-class expertise of our design consultant to define new architectures and a modernization plan to help improving safety and meeting your business needs.

Our recommendations are provided through **mySchneider**, our **collaborative platform** for easy prioritization, follow up, design and implementation.

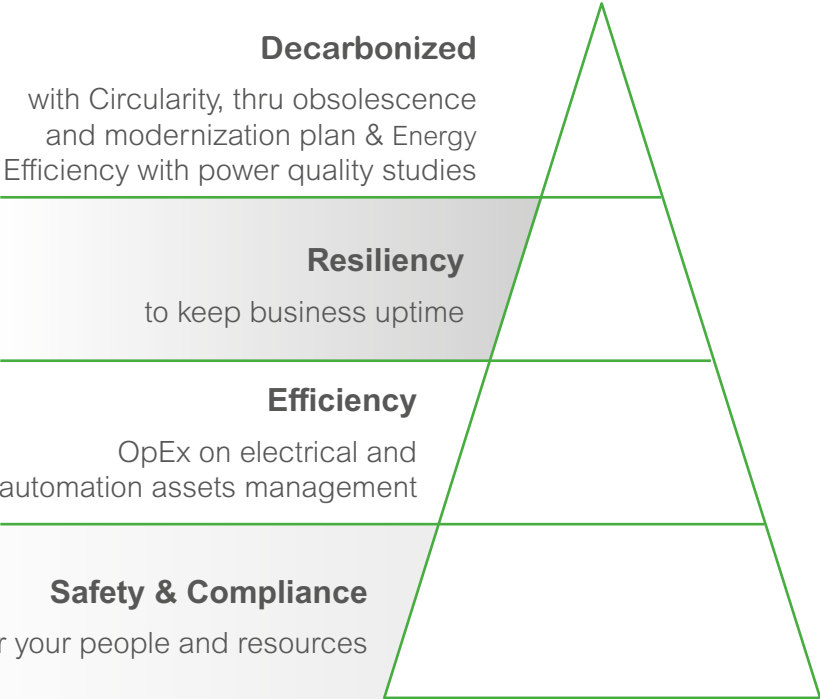
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EcoConsult - Actionable Insights

For your Assets & Systems

We provide **actionable insights** and deliver on **critical business outcomes** ranging from:



Notes

Empower your team with
training and extended reality



Associated Services

Workforce Empowerment

90% of unexpected events in a network, such as power outages, accidents, and near misses, are caused by human error!

61+

training locations worldwide

350+

expert trainers in technical & educational fields

1 400+

equipment and process specific courses to choose from

44 000+

active e-Learners

Empower your workforce with the right skills and the right information, to make them perform their job safer and faster by:

- Enable your team members to make the right decision in their daily operations and in case of unexpected events
- Protect your people
- Mitigate risks of accident
- Avoid downtime and damages
- Enhance on-site technical skills and safety level
- Save time and costs
- Manage Capex

Thanks to

EcoStruxure XR Operator Advisor Service Plan: duplicate your electrical installation in augmented, extended and virtual reality to give operators the right information needed on the field and be guided step-by-step during operation through their tablet or smartphone. Provide them access remotely to a digital modeling of the electrical installation from anywhere, allowing **easy on-boarding & training operations, remote visualization and access to expert as well as secured conditions for operating.** [Video demo.](#)

Online competency assessment and e-Learning offer: optimize your teams technical skills and safety installation performance with our e-Learning offer. Available in 19 languages and at whatever time works for you to allow fast, worldwide and multisite deployment.

Customized training courses: propose to your team some dedicated training paths and technical certification, co-built with you.

Certified trainers: benefit from technical specialists as well as experienced educators; hands-on training with full size equipment.



Modernized
equipment

Updated skills

Operational
excellence



Discover our full training offer:

<https://www.schneider-electric.com/en/work/services/training/technical-training.jsp>

EcoXperts Power Services



Associated Services

We have a wide network of certified Partners close to our end-users

With our certified Partners, we always better serve our end-users needs and expectations.

As **Trusted Partners**, they are trained by Schneider Electric Subject Matter Experts to provide best-in-class level of expertise all over the world.

They are **trained and qualified** to use and promote our tools and procedures to perform optimized intervention minimizing time on-site and impact on the business.

Our **EcoXperts** make smart recommendations, offering solutions to support business continuity and help enhance the installation's lifetime.

They modernize End Users installed base with connected assets and services, performed by Schneider Electric or certified EcoXperts.

As sought-after experts in their field, they transform data from your electrical distribution into actionable insights and give you recommendation through cloud-enabled expertise and predictive analytics.

As recognized and trusted Partner by Schneider Electric in front of an Enduser, they will be able to make recommendations, propose or perform Services to keep the Customer's installation running at the desired level of operation.



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Life Is On

Schneider
Electric

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