

EcoEtruxure™
Innovation At Every Level



Acti9 Isobar P

Active Safety System

Catalogue 2022

se.com/uk

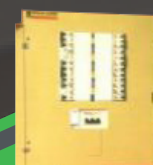
Life Is On

Schneider
Electric

Acti9 Isobar P

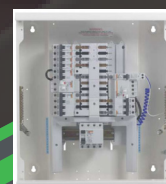
Innovation

Multi9 Isobar



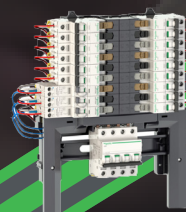
1990

Isobar 4C



2005

Acti9 Isobar



2013

Acti9 Isobar P

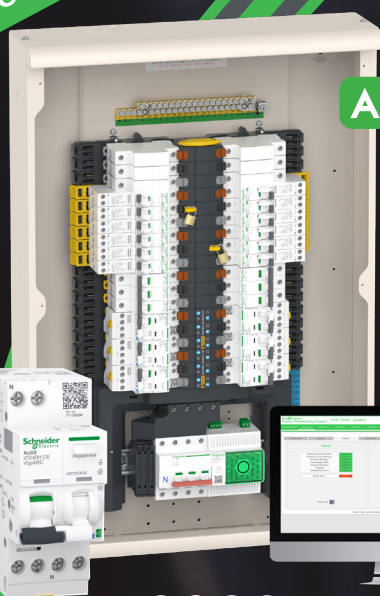


PoN

2018

New

Acti9 Isobar P



ACTIVE

2022

Active Safety System

The new Acti9 Isobar P - Active distribution boards integrate Active AFDD and Plug on Neutral RCBOs offering unparalleled reliability, safety and simplified installation solutions.

INNOVATION supporting five pillars:

- Efficiency
- Safety
- Remote everything
- Resilience
- Sustainability

Integrated Arc Fault protection devices help in complying to latest regulatory standards

BS7671 18th Edition Amendment 2

Applications for Arc Fault Detection Devices with regulation 421.1.7



Higher Risk Residential Buildings (HRRB)



Houses in Multiple Occupation (HMO)



Purpose-built student accommodation



Care homes

For all other locations, the use of AFDD is recommended.



An electrical arc fault occurs when there is a damage in the insulation of a wire due to gradual wear and tear. Electrical arcs get formed through these damaged surfaces which spread gradually damaging the insulation even further, eventually resulting in fire.

Such small arcs can not be detected by traditional protection devices and need specialized devices called "Arc Fault Protection Devices (AFDD)". These devices trip and break the circuit open as soon as they detect arc. With inbuilt connectivity along with AFDD in all-in-one "Acti9 Active", the protection is further reinforced as an alarm is triggered as soon as AFDD trips thereby alerting professionals to take suitable action.

Situations that can damage cable insulation causing arcs



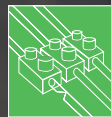
Power supply cord subjected to excessive forces (by furniture or a position)



Ageing of cables and protective devices



Power supply cord defective following inappropriate or excessively numerous operations



Cables weakened at connection



Power sockets in poor condition



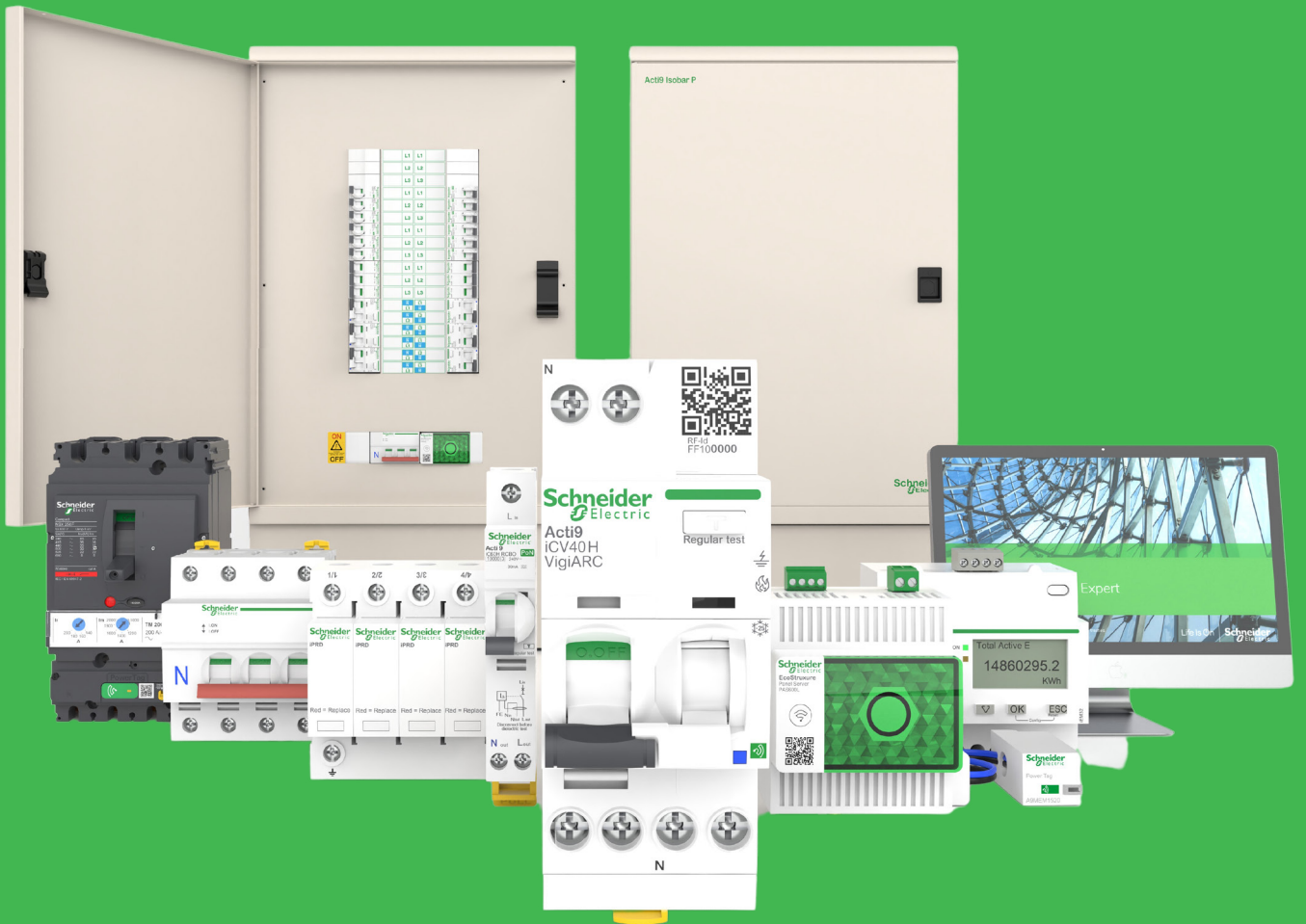
Accidental damage to a cable



Loose connections



Cable damaged by the environment, UV, vibrations, moisture, rodents and power sockets in poor condition



Active Safety System

Make Active Safety Your New Standard

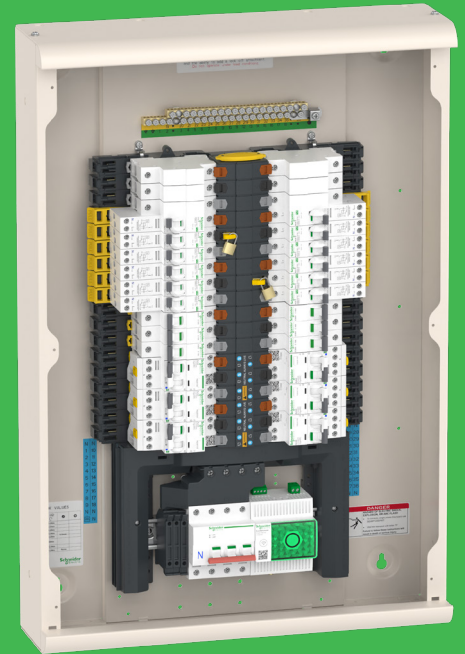
Acti9 Isobar P Distribution boards



The evolution of low voltage electrical distribution continues with the demands for reliability, enhanced safety, cost reduction and connectivity ever increasing.

Through market leading innovations for over a quarter of a century, Isobar distribution boards have enabled this evolution and offered new levels of performance.

- 1st outgoing way disconnect feature
- 1st integrated neutral switching function
- 1st integrated incoming metering functions
- 1st integrated innovative Plug On Neutral distribution system
- Integration of AFDD into the Three phase distribution board
- Enhance safety with the Integration of an all-in-one Active AFDD into three phase distribution board



ACTIVE All-in-one device with Connectivity

Active Safety System - with advanced notifications, diagnostics, analytics, and a compact integrated device.

An Active Safety System gives business owners and maintenance personnel greater control over their building's electrical health and, in turn, enhances service continuity.



PoN Acti9 PoN RCBOs

The Plug On Neutral & Functional Earth RCBOs bring innovation for Quick and easy installation, benefits include:

- Time saving due to the quick and simple plug-on technology
- Fast and efficient due to absence of functional Neutral and Earth wires to unravel and straighten
- No need to cut, dress or terminate any functional wires



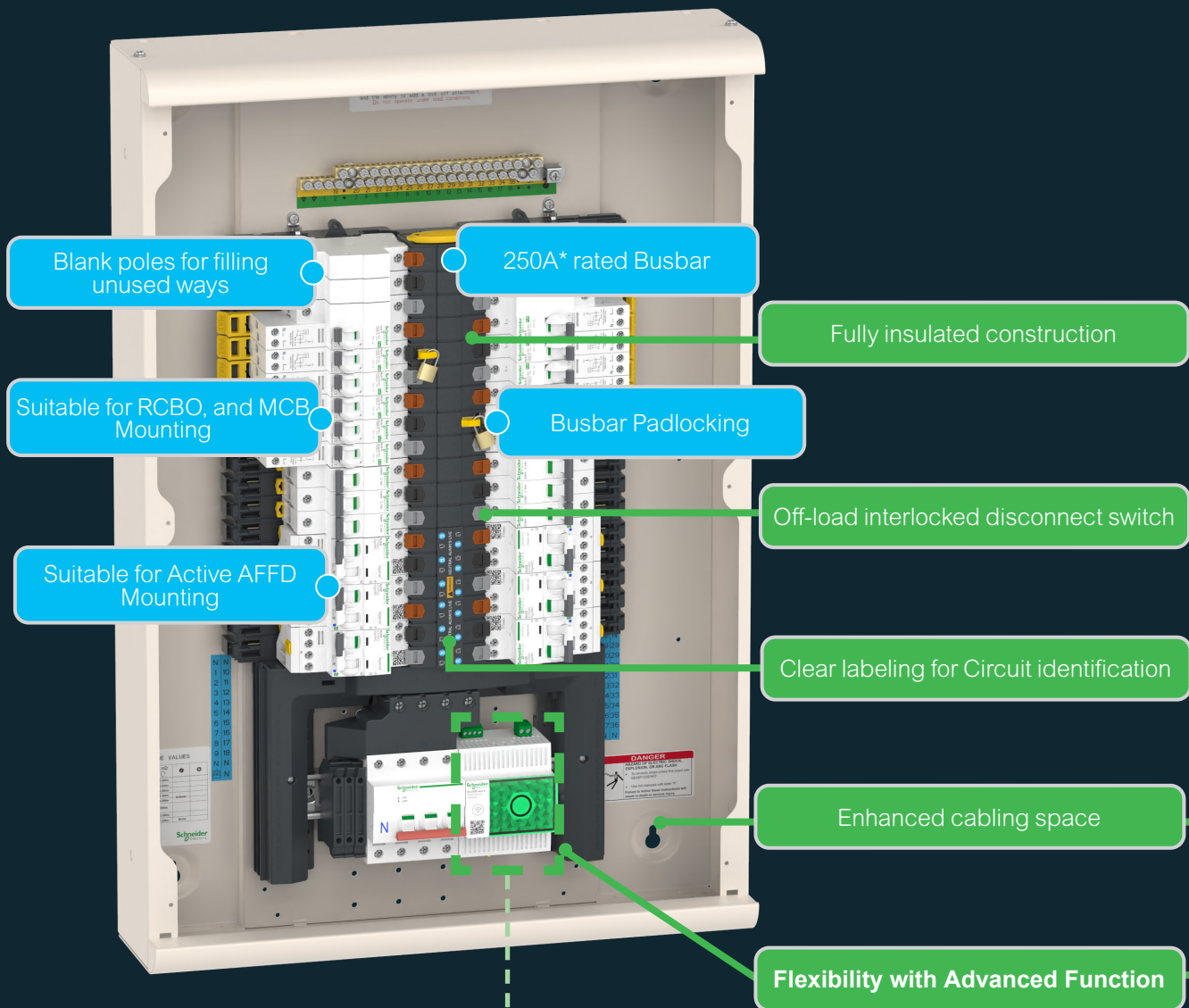


Acti9 Isobar P

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Introducing Active Distribution Boards



Surge Protection Device

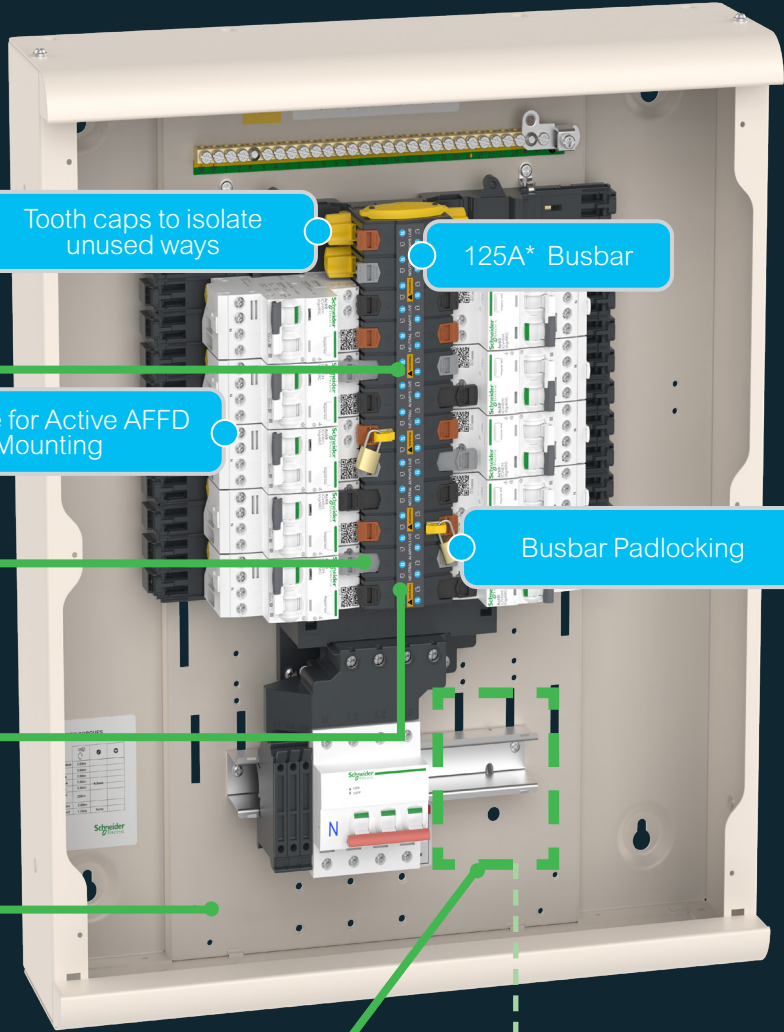


Energy Meter



Gateway

Active HYBRID Distribution board



Tooth caps to isolate unused ways

125A* Busbar

Suitable for Active AFFD Mounting

Busbar Padlocking



Energy Meter



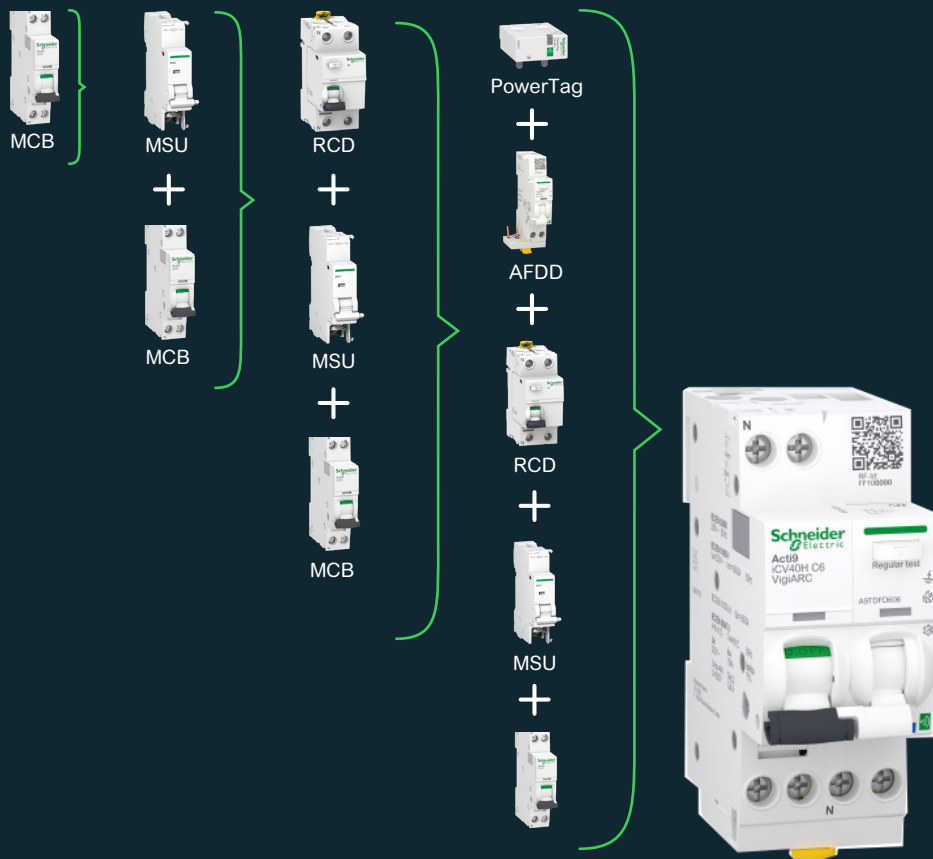
Gateway

Active STANDALONE Distribution board

* For typical assembly configuration ratings (I_{nA}) with incomers fitted consult customer care

Introducing an All-in-One protection device

A core part of the Active Safety System, the Acti9 Active with integrated residual current device (RCD), miniature circuit breaker (MCB), AFDD, and over-voltage protection delivers an exceptional level of protection for people, appliances, circuits, from fire risks – enabled by a compact all-in-one device. Available in both connected and non-connected versions, Acti9 Active supports a variety of safety and connectivity requirements.



Integrated AFDD for greater protection from arc-fault related fires



Integrated RCD for greater protection of people



Integrated MCB for short circuit and overload protection



Integrated MSU circuit protection from transient network over-voltage

Acti9 Active

All-in-one protection device

Achieving greater resiliency and reliability through Active Safety System

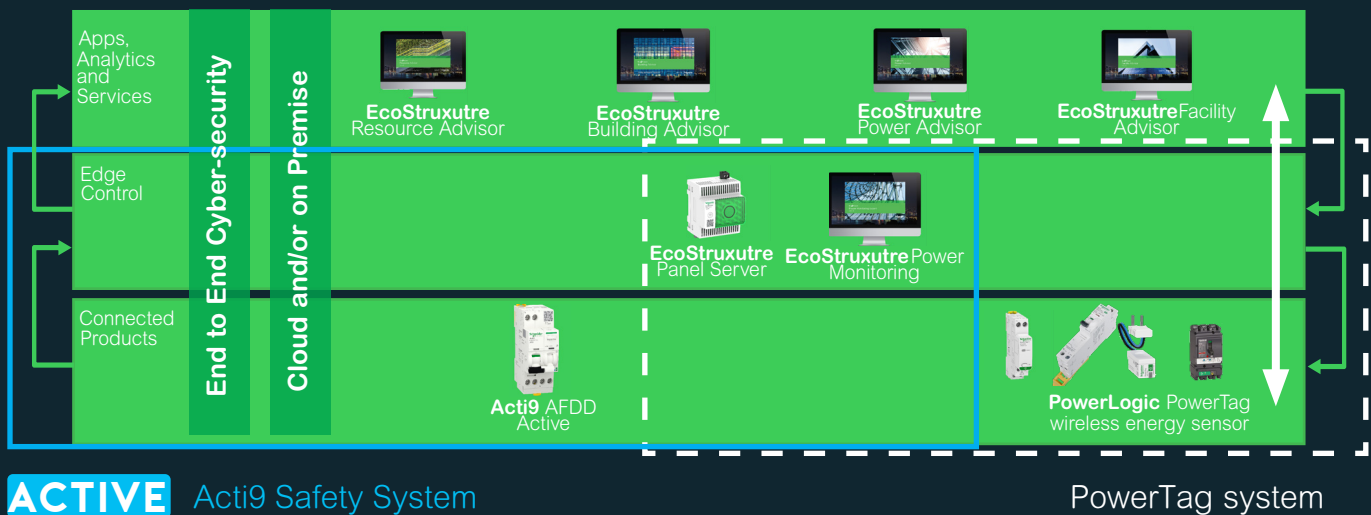
The system features Acti9 Active, an all-in-one device with integrated miniature circuit breaker (MCB), residual current device (RCD), and arc fault detection device (AFDD) that ensures comprehensive protection. The advanced protection is further enhanced by the inbuilt connectivity. With an **Active Safety System**, you're providing a solution that's future-ready, cost-efficient, and worry-reducing.



Integrate with EcoStruxure™ Power Monitoring Expert

Power Monitoring Expert (PME) simplifies management of complex power systems. It brings unique new capabilities that protect people and assets, keeps operations running, and saves time and money. As a key element in an EcoStruxure Power solution, PME takes full advantage of IoT connectivity and distributed intelligence to help maximise your uptime and operational efficiency:

- Smart alarm clustering for intuitive filtering, searching, and categorisation of alarms and events.
- Graphical timelines easily analyse alarm and event sequence, location and potential impact.
- Advanced energy visualisation - analysis tools calculate, model, forecast, and track energy performance indicators (EnPIs).
- Compliant with IEC 62443 cybersecurity standards.



To learn more visit: <https://shop.exchange.se.com/en-US/apps/60510/ecostruxure-power-monitoring-expert>

EcoStruxure Power Monitoring Expert for full visibility

EcoStruxure Power Monitoring Expert (PME) is the go-to web-app for visualizing insights, notifications, and diagnostics of an **Active Safety System**. It brings new capabilities that protect people and assets, keeps operations running, and saves time and money.

As part of EcoStruxure Power, EcoStruxure PME takes advantage of IoT connectivity and distributed intelligence to help maximize your customers' uptime, power availability, and operational efficiency. It's compliant with IEC 62443 cybersecurity standards, and provides your customers with a simple UI to see data, trends, and notifications.



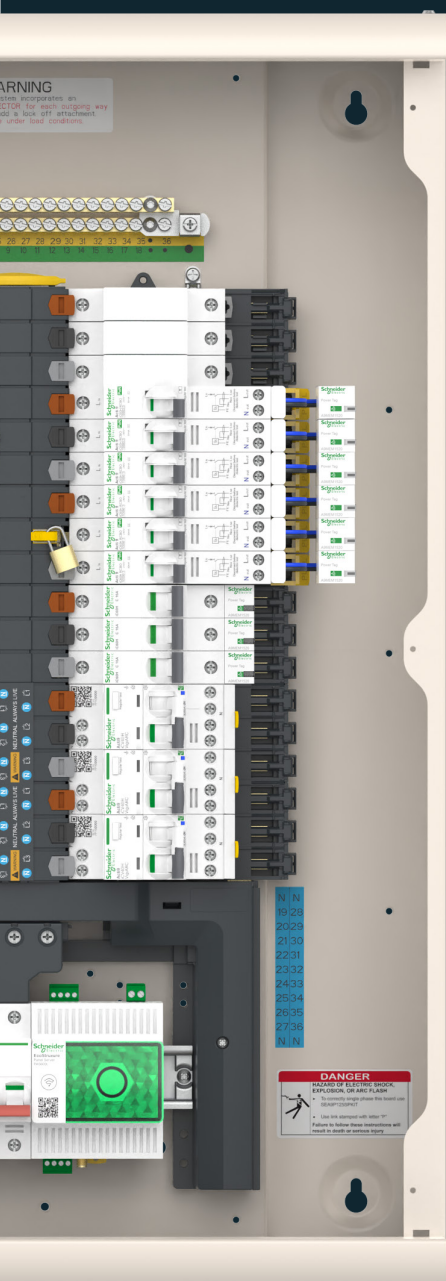
Smart alarm clustering for easy search, filter, and categorization

Graphic timelines to easily locate events and alarms, and advanced energy visualization to calculate, forecast, and track performance indicators (EnPIs)

Identification of fault type, enabling quick and effective fixes

Best-in-class connectivity in 3 steps

Acti9 Isobar P harnesses the connectivity of the Acti9 range enabling distribution boards to become smart and connected.



1



Acti9 Active AFDD

A range of devices providing advanced safety functions and in-built connectivity. They connect wirelessly to the gateway and send data to enable monitoring, diagnostics, pre-alarming, and alarming.



Acti9 RCBO + PowerTag

Enable asset management through RCBO PowerTag.

2



EcoStruxure Panel Server (Gateway)

One of the most advanced gateways for modern-day wireless systems. It's simple to commission and cost-efficient.

3

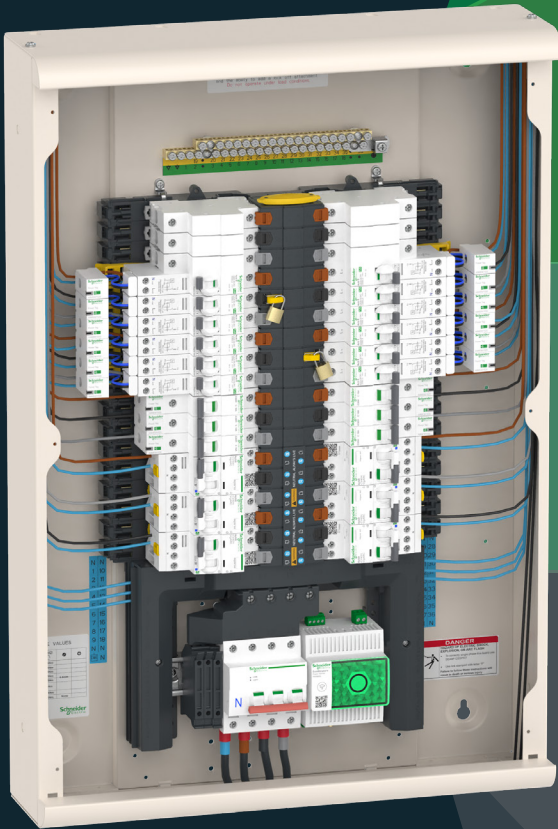


EcoStruxure Power Monitoring Expert that notifies arc detection fault

Intuitive-to-use software that aggregates installation data for greater visibility and displays actionable insights. It alerts facility managers to problems as they occur as well as to predicted issues.

Innovation Supporting five key pillars

Acti9 Isobar P - Active Safety System



Efficiency



- Optimized system with Active AFDD
- Simple, Quick and Easy to Install with PoN RCBOs
- Modular – Ready to Install distribution boards

Safety



- Safe and Reliable connections
- Fully insulated construction
- Compliant with BS EN 61439-3, UKCA

Remote everything



- Simple Wireless system
- Easy remote monitoring
- Detailed visibility at final circuits

Resilience

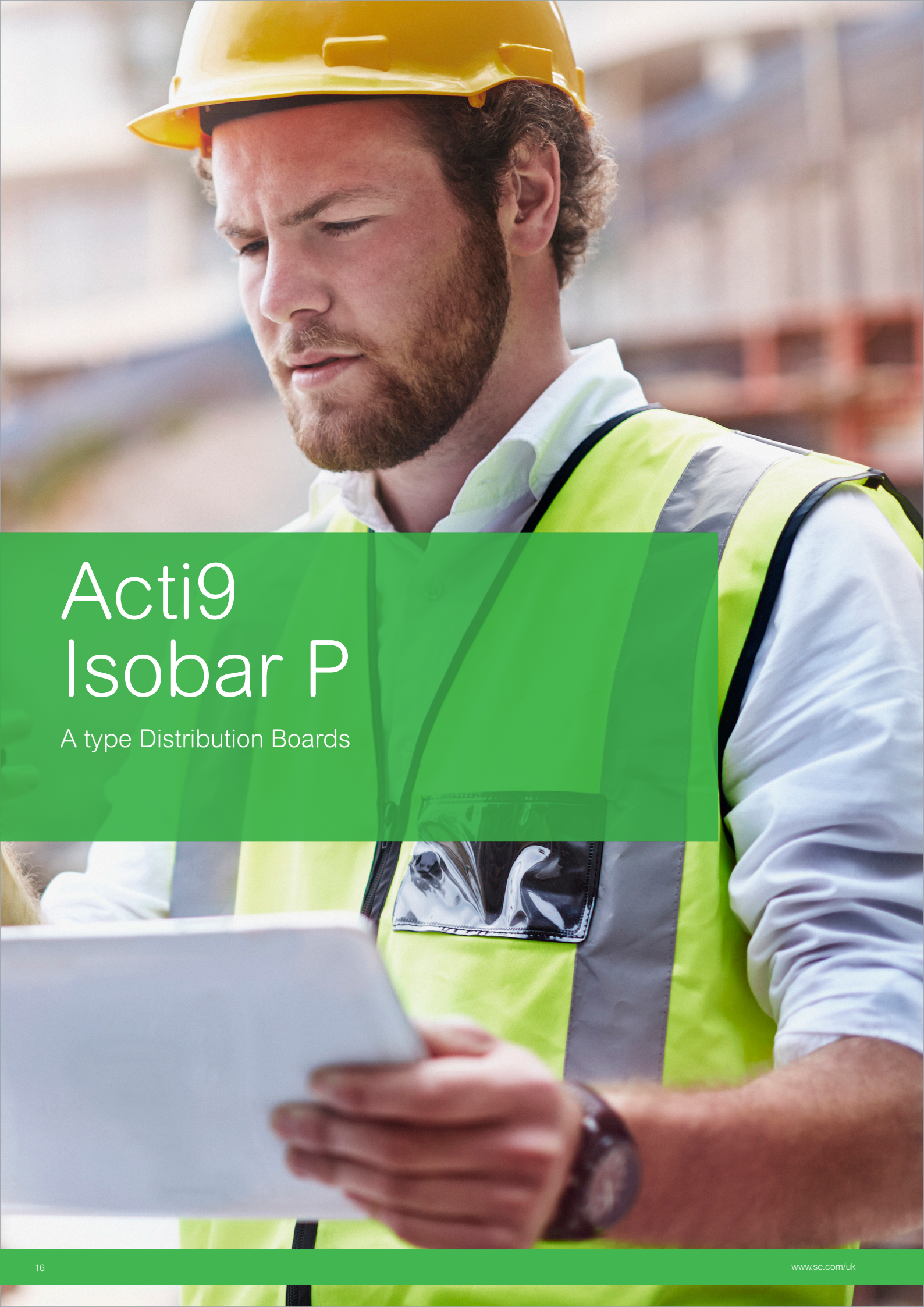


- Complete integration with circuit protection, Gateway and Power Monitoring
- Enhance Operation Resilience

Sustainable



- Meet sustainable energy targets
- Green Premium offer
- Sustainable packaging



Acti9 Isobar P

A type Distribution Boards

Single Phase Distribution

Definition

Single Phase Distribution Board – A single phase assembly containing switching or protective devices (e.g. circuit breakers and residual current devices) associated with one or more outgoing circuits fed from one or more incoming circuits, together with terminals for the neutral and circuit protective conductors. It may also include signalling and other control devices.

Key standards

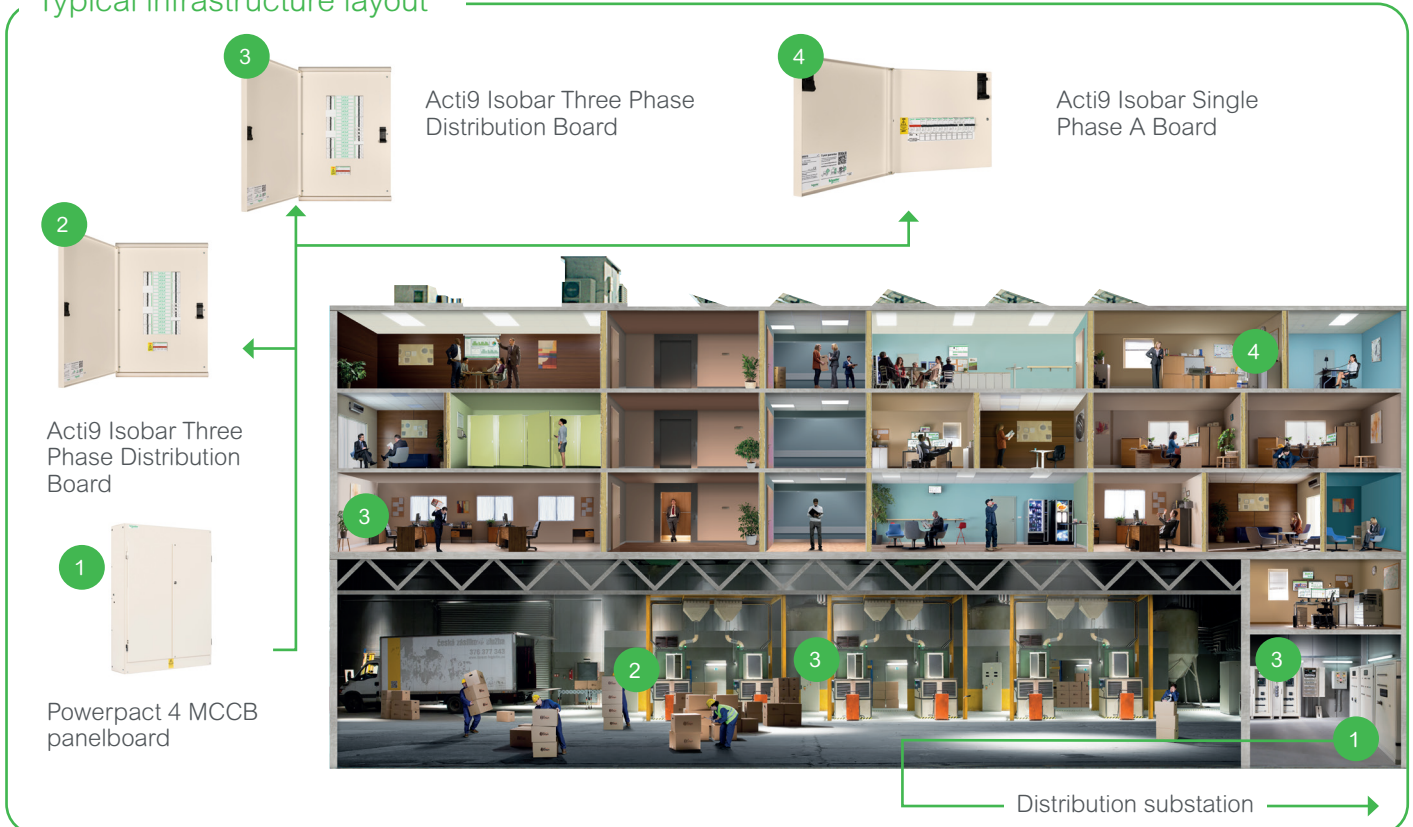
- BSEN 61439 – 3 Low Voltage Switchgear and Controlgear Assemblies
- BSEN 60898 – 1 Electrical accessories - Circuit breakers for overcurrent protection for household and similar installations - Circuit-breakers for a.c. operation
- BSEN 61009 – 1 Residual Current Circuit Breaker with Overcurrent Protection
- BSEN 61008 – 1 Specification for residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs). General rules
- BSEN 60947 - 2 Low-Voltage Switchgear and Controlgear. Circuit-breakers
- BSEN 62606 General requirements for arc fault detection devices

Applications

Final circuit single phase or single phase and neutral low voltage distribution, typical loads serviced; Lighting, Power, IT, HVAC, Critical Power.

Generally supplied by a panel board or three phase distribution board, systems are designed to ensure supply continuity “discrimination” and enhanced performance “cascading”.

Typical infrastructure layout



Acti9 Isobar single phase A type Distribution Boards (125 A)*

Standard Acti9 Isobar P 'A' Type Distribution Board

The Acti9 Isobar P Distribution Boards are suitable for standard, commercial and Industrial applications.



SEA9APN10

Part reference	No of Single Pole Ways
SEA9APN2	2
SEA9APN6	6
SEA9APN10	10
SEA9APN14	14
SEA9APN18	18
SEA9APN27	27

PoN

Multi Service Acti9 Isobar P Distribution Boards

The Acti9 Isobar P Multi Service Board has the added benefit of the inclusion of din rail modular devices if required.



SEA9APN1016MS

Part reference	No of Single Pole Ways	No of Usable Single pole Din Rails Ways
SEA9APN108MS	10	4
SEA9APN1432MS	14	16
SEA9APN616MS	6	8
SEA9APN624MS	6	12
SEA9APN148MS	14	4
SEA9APN1016MS	10	8

PoN

- Provision to mount Active AFDD devices on the din rail

Split Metered Acti9 Isobar P Distribution Boards

Acti9 isobar split metered Distribution Board for use when the metering of final circuits may be required Incoming Switch Disconnecter is included.



SEA9APN10S10

Part reference	No of Single Pole Ways	No of Single Pole Ways
SEA9APN6S6 (Inc Meter A9MEM2010)	6	6
SEA9APN10S10 (Inc Meter A9MEM2015)	10	10
SEA9APN14S14 (Inc Meter A9MEM2105)	14	14

PoN

- The split metered Board has a busbar rating of 100amps.
- The total Load for 2 rows is 50 A per row. 1 row is 40 A per Split.

* For typical assembly configuration ratings (I_{nA}) with incomers fitted consult customer care

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Acti9 Isobar and Isobar P single phase incoming devices

Switch Disconnectors



SEA91252

Part reference	Rating in amps	No of Poles
SEA91252	125 A	2

- 50 mm² cable capacity

Residual Current Circuit Breakers (Type AC)



SEA9R11291

Part Reference	Rating in amps	Rating in milliamps (mA) sensitivity
SEA9R41263	63 A	30 mA
SEA9R12263	63 A	100 mA
SEA9R44263	63 A	300 mA
SEA9R11280	80 A	30 mA
SEA9R12280	80 A	100 mA
SEA9R14280	80 A	300 mA
SEA9R15280	80 A	300 mA TD (Time Delay)
SEA9R11291	100 A	30 mA
SEA9R12291	100 A	100 mA
SEA9R14291	100 A	300 mA
SEA9R15291	100 A	300 mA TD (Time Delay)

Connections - terminals

- Single terminal top or bottom 1...35 mm² rigid
- Single terminal top or bottom 1...25 mm² flexible
- Single terminal top or bottom 1...25 mm² flexible with ferrule

Terminal Blocks - Suitable for Direct Connection



SEA9TB1252

Part Reference	Ratings in amps	No of Poles
SEA9TB1252	125 A	2

- 50 mm² cable capacity

Acti9 Active Arc Fault Detection Device



Acti9 Active is an arc fault detection device with overload, short circuit and residual current protection, which aims to reduce the risk of electrical fire.

By continuously analyzing a large number of electrical parameters, it detects the appearance of electric arcs that are responsible for starting fires. It isolates the circuit concerned which reduces flame appearance occurrence.

Regulation 421.1.7 of BS 7671: 2018 (IET Wiring Regulations 18th Edition) recommends the use of AFDD to protect against arc fault in AC final circuits. Examples of where AFDDs can be used include:

- in locations with sleeping accommodations (e.g. hotels, nursing homes, bedrooms in homes)
- in locations with risks of fire due to high quantities of flammable materials (e.g. barns, wood-working shops, stores of combustible materials)
- in locations with combustible constructional materials (e.g. wooden buildings)
- in fire propagating structures (e.g. high rise buildings)
- in locations where irreplaceable goods are housed (e.g. museums).

More specifically, the installation of Acti9 Active is highly recommended to protect circuits with highest risk of fire, such as:

- protruding cables (risk of knocks)
- outside cables (greater risk of deterioration)
- unprotected cables in secluded areas (like storage rooms)
- ageing, deteriorating wiring or wiring for which the connection boxes are inaccessible.

Acti9 Active must not be installed on circuits requiring a high level of continuity of service.

Acti9 Active is not compatible with ATEX regulations.

IEC/BS EN 62606
BS EN IEC 61009-2-1
BS EN IEC 60947-2
IEC/BS EN 60898-1

As per the above standards:

- The Acti9 Active provides a protection for final circuits against overcurrents and insulation faults (protection for people against electric shocks).
- In addition to these protections, the Acti9 Active monitors for electric arcs that occur in cables and connections, that may cause a fire. These arcs are the result of localised cable deterioration or loose connections.
- It is used for three types of situations that can result in a fire:
 - parallel arc detection: insulation problems between two live conductors that cause a resistive short-circuit, too weak to be detected by a circuit breaker and with no earth leakage to be detected by a residual current circuit breaker,
 - series arc detection: a damaged conductor or connection will cause a local rise in temperature,
 - overheating of electronic components in loads, when exposed to an overvoltage for several seconds.
- It combines the following functions:
 - circuit protection against overload and short-circuit currents (circuit breaker function),
 - protection for people against electric shocks by direct contacts and indirect contacts (30 mA),
 - protection against fire hazards by detection of abnormal electric arcs,
 - protection against load fire hazards due to slow overvoltages (network overvoltage),
 - fire hazard tripping indication via the front panel indicator,
 - tripping faults diagnosis by LED blinking in front face.
- The Acti9 Active should be installed in the place of the circuit's final protection device.
- Product is reverse feeding: it can be supplied either by the top or the bottom.

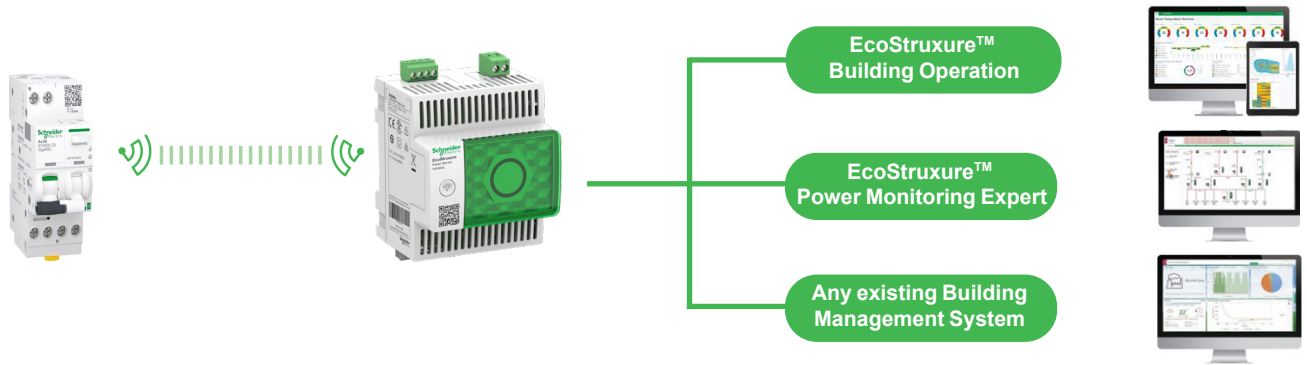
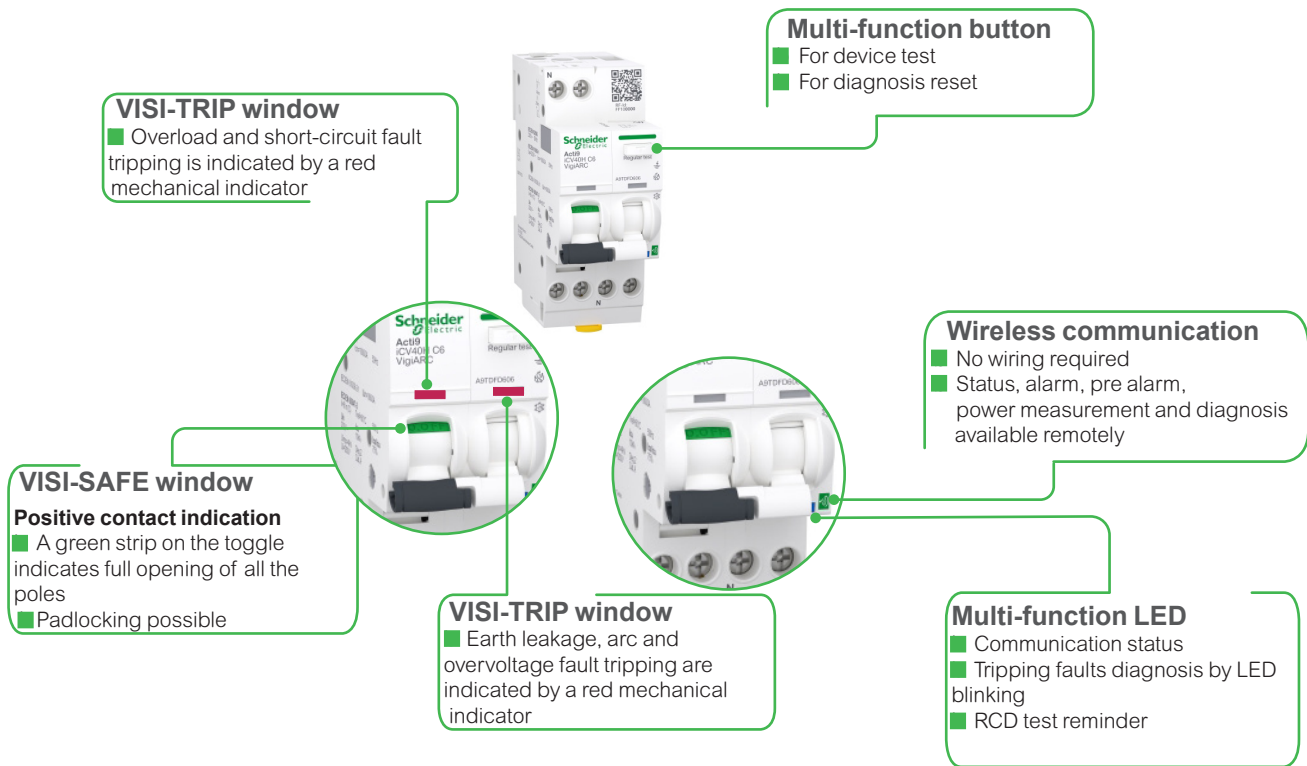
A-SI type

The A-SI type provides increased immunity from electrical interference and polluted or corrosive environments.

Wireless-communication device

- Used together with a concentrator or a gateway to collect and process the data, Acti9 Active AFDD provides circuit monitoring and diagnosis down to load level.
- Wireless-communication technology simplifies switchboard wiring and commissioning operations: no wiring is required for the Acti9 Active AFDD to communicate with the concentrator or the gateway.

Acti9 Active Arc Fault Detection Device



Acti9 Active "All-in-One" overview of available data:

- Device status (open/close/trip)
- Diagnostics: Reason for tripping (short-circuit, overload, earth leakage fault, serial arc, parallel arc, overvoltage)
- Customizable Pre-alarms (overload, earth leakage fault, overvoltage)
- Measurement: U, I, P, Power Factor, earth leakage %, internal temperature, time of use
- Protection log (date of 1st operation ON, date of last push on test button, number and reasons for tripping)
- RCD test reminder

Advanced visibility for active safety

Alarms & pre-alarms:

- Customizable thresholds for pre-alarms
- Overload
- Earth leakage
- Overvoltage



Diagnostics & analytics:

- Indication for nature of electrical fault
- Historical data
- Protection logs

Measuring & remote monitoring:

- U, I & P measuring
- Load monitoring

Advanced protection:

- Protection for people, appliances, circuit, and against fire
MCB+MSU+RCD+AFDD

C Curve



A9TDFD606

Acti9 Active, A-SI type		
C Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9TDFD606	6 A	30 mA
A9TDFD610	10 A	30 mA
A9TDFD616	16 A	30 mA
A9TDFD620	20 A	30 mA
A9TDFD625	25 A	30 mA
A9TDFD632	32 A	30 mA
Operating voltage	230 VAC	
Operating frequency	50 Hz	
Width in 9 mm modules	4	
Pole Configuration	1P+N	
Comb busbars	A9XPC624, A9X21096, A9XPCM04	

ACTIVE

Associated concentrators / gateways

EcoStruxure Panel Server



Entry	100-227V AC/DC	Available from July-2022
Universal	24V DC	PAS600L
	240V AC/DC	PAS600T
Advanced	110-277V AC/DC	PAS800
	24V DC	PAS800L
	PoE	PAS800P

Acti9 Arc Fault Detection Device - iARC



Acti9 iARC is an arc fault detection switch which aims to reduce the risk of electrical fire. By continuously analysing a large number of electrical parameters, it detects the appearance of electric arcs that are responsible for starting fires. It isolates the circuit concerned which reduces flame appearance occurrence.

Regulation 421.1.7 of BS 7671: 2018 (IET Wiring Regulations 18th Edition) recommends the use of AFDD to protect against arc fault in AC final circuits. Examples of where AFDDs can be used include:

- in locations with sleeping accommodations (e.g. hotels, nursing homes, bedrooms in homes)
 - in locations with risks of fire due to high quantities of flammable materials (e.g. barns, wood-working shops, stores of combustible materials)
 - in locations with combustible constructional materials (e.g., wooden buildings)
 - in fire propagating structures (e.g. high rise buildings)
 - in locations where irreplaceable goods are housed (e.g. museums).
- More specifically, the installation of Acti9 iARC is highly recommended to protect circuits with highest risk of fire, such as:
- protruding cables (risk of knocks)
 - outside cables (greater risk of deterioration)
 - unprotected cables in secluded areas (like storage rooms)
 - ageing, deteriorating wiring or wiring for which the connection boxes are inaccessible.

Acti9 iARC must not be installed on circuits requiring a high level of continuity of service.

Acti9 iARC is not compatible with ATEX regulations.

IEC/BS EN 62606

As per the above standard:

The arc fault detection switch Acti9 iARC monitors electric arcs that occur in cables and connections and may cause a fire. These arcs are the result of localised cable deterioration or loose connections.

- It is used for three types of situations that can result in a fire:
 - parallel arc detection: insulation problems between two live conductors that cause a resistive short-circuit, too weak to be detected by a circuit breaker and with no earth leakage that would be detected by an earth-leakage protection device,
 - series arc detection: a damaged conductor or connection will cause a local rise in temperature,
 - overheating of electronic components in loads, when exposed to an overvoltage for several seconds.
- It combines the following functions:
 - protection against fire hazards by detection of abnormal electric arcs,
 - protection against load fire hazards due to slow overvoltages (network overvoltage),
 - fire hazard tripping indication via the front panel indicator,
 - positive contact indication (green strip),
 - tripping faults diagnosis by LED blinking in front face.
- Coordinated with a MCB or a RCBO, max. 40 A, it protects Phase-Neutral circuits, in full coordination under short-circuit conditions up to a rated breaking capacity of 10,000 A
- Product is reverse feeding: it can be supplied either by the top or the bottom.

Catalogue numbers

Acti9 iARC		
	Rating 40 A (In)	A9TSB3640
Operating voltage	230 VAC	
Operating frequency	50 Hz	
Width in 9 mm modules	4	
Pole Configuration	1P+N	

Acti9 Isobar P and AFDD Arrangements

A Type multi service distribution boards provide an additional DIN rail to accommodate devices such as Contactors, SPD and AFDD.

DIN rail enclosures can also be used in addition to standard A Type distribution boards to accommodate devices such as Contactors, SPD and AFDD.

Acti9 Multi service boards or din rail Enclosure

Multi Service Boards

Acti9 Isobar P single phase
A type Multi Service boards



Part reference	No of Single Pole Ways	No of Usable Single pole Din	No of AFDD ways
SEA9APN108MS	10	4	2
SEA9APN1432MS	14	16	8
SEA9APN616MS	6	8	4
SEA9APN624MS	6	12	6
SEA9APN148MS	14	4	2
SEA9APN1016MS	10	8	4

Acti9 DIN rail Enclosure

DIN rail enclosures



Part Reference	No of Usable Single pole Din	Number of rows	Dimensions same as	No of AFDD ways
SEA9DE16	8	1	SEA9APN6	4
SEA9DE24	12	1	SEA9APN10	6
SEA9DE32	16	1	SEA9APN14	16
SEA9DE40	20	1	SEA9APN18	10
SEA9DE64	32	2	SEA9APN27	16

Acti9 iC60H PoN RCBO's 10,30 and 100 mA

Acti9 iC60H Plug-on Residual current circuit breaker with overload

B Curve



A9D56832

A Type

B Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D56806	6 A	30 mA
A9D56810	10 A	30 mA
A9D56816	16 A	30 mA
A9D56820	20 A	30 mA
A9D56825	25 A	30 mA
A9D56832	32 A	30 mA
A9D56840	40 A	30 mA
A9D56845	45 A	30 mA

PoN

C Curve



A9D01832

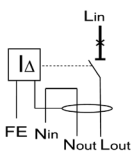
A Type

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D01806	6 A	10 mA
A9D01810	10 A	10 mA
A9D01816	16 A	10 mA
A9D01820	20 A	10 mA
A9D01825	25 A	10 mA
A9D01832	32 A	10 mA
A9D01840	40 A	10 mA
A9D01845	45 A	10 mA
<hr/>		
A9D05806	6 A	30 mA
A9D05810	10 A	30 mA
A9D05816	16 A	30 mA
A9D05820	20 A	30 mA
A9D05825	25 A	30 mA
A9D05832	32 A	30 mA
A9D05840	40 A	30 mA
A9D05845	45 A	30 mA
<hr/>		
A9D06806	6 A	100 mA
A9D06810	10 A	100 mA
A9D06816	16 A	100 mA
A9D06820	20 A	100 mA
A9D06825	25 A	100 mA
A9D06832	32 A	100 mA
A9D06840	40 A	100 mA
A9D06845	45 A	100 mA

PoN

PoN

PoN



Alternating current (AC) 50/60 Hz

Breaking capacity (Icn) according to IEC/EN 61009-1

Current Rating (In)	Voltage (Ue)	(Icn)
6 to 45 A	Ph/N 240 V	10000 A
10 to 32 A	Ph/N 110 V	10000 A

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Acti9 iC60H RCBO 10,30 and 100 mA

Acti9 iC60H Residual current circuit breaker with overload

B Curve

A Type 



A9D31832

B Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D31806	6 A	30 mA
A9D31810	10 A	30 mA
A9D31816	16 A	30 mA
A9D31820	20 A	30 mA
A9D31825	25 A	30 mA
A9D31832	32 A	30 mA
A9D31840	40 A	30 mA
A9D31845	45 A	30 mA

C Curve

A Type 



A9D10832

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D10806	6 A	10 mA
A9D10810	10 A	10 mA
A9D10816	16 A	10 mA
A9D10820	20 A	10 mA
A9D10825	25 A	10 mA
A9D10832	32 A	10mA
A9D10840	40 A	10 mA
A9D10845	45 A	10 mA
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A9D11806	6 A	30 mA
A9D11810	10 A	30 mA
A9D11816	16 A	30 mA
A9D11820	20 A	30 mA
A9D11825	25 A	30 mA
A9D11832	32 A	30 mA
A9D11840	40 A	30 mA
A9D11845	45 A	30 mA
<hr/>		
A9D12806	6 A	100 mA
A9D12810	10 A	100 mA
A9D12816	16 A	100 mA
A9D12820	20 A	100 mA
A9D12825	25 A	100 mA
A9D12832	32 A	100 mA
A9D12840	40 A	100 mA
A9D12845	45 A	100 mA

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Acti9 iC60H RCBO 110V (Ph/N) 30mA

Acti9 iC60H Residual current circuit breaker with overload

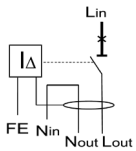
C Curve



A9D19832

A Type 

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)	Rating in volts
A9D19810	10 A	30 mA	110 V
A9D19816	16 A	30 mA	110 V
A9D19820	20 A	30 mA	110 V
A9D19825	25 A	30 mA	110 V
A9D19832	32 A	30 mA	110 V



Alternating current (AC) 50/60 Hz

Breaking capacity (Icn) according to IEC/EN 61009-1

Current Rating (In)	Voltage (Ue)	(Icn)
6 to 45 A	Ph/N 240 V	10000 A
10 to 32 A	Ph/N 110 V	10000 A

Vigi iC60 add-on residual current devices



A9V02663

Vigi iC60 add-on residual current devices						
Type Product	A Vigi iC60					Width in 9 mm modules
Auxiliaries		Without auxiliaries				
1P+N	Sensitivity	30 mA	100 mA	300 mA		
	Rating	25 A				3
		63 A	A9V02663 A9V01663*	A9V03663	A9V06663	4
Voltage rating (Ue)		230 - 240 V, 400 - 415 V Except * 110 V				
Operating frequency		50/60 Hz				



A9V51225

Vigi iC60 add-on residual current devices								
Type Product	A Vigi iC60							Width in 9 mm modules
Auxiliaries		Without auxiliaries						
2P	Sensitivity	30 mA	100 mA	300 mA	500 mA	300 mA	1000 mA	
	Rating	25 A	A9V51225	A9V22225	A9V54225	A9V26225	-	3
		63 A	A9V51263	A9V22263	A9V54263	A9V26263	A9V25263	A9V29263
Voltage rating (Ue)		230 - 240 V, 400 - 415 V						
Operating frequency		50/60 Hz						


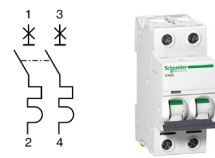


A9V61240

Vigi iC60 add-on residual current devices					
Type Product	S Vigi iC60				Width in 9 mm modules
Auxiliaries		Without auxiliaries			
2P	Sensitivity	10 mA	30 mA	300 mA	1000 mA
	Rating	25 A	A9V30225	A9V61225	-
		40 A	-	A9V61240	-
		63 A	-	A9V61263	A9V65263
Voltage rating (Ue)		230 - 240 V, 400 - 415 V			
Operating frequency		50/60 Hz			

Acti9 iC60H Circuit Breaker

Acti9 iC60H circuit breaker

Type	1P			2P		
						
Current Rating (In)	Curve			Curve		
	B	C	D	B	C	D
1 A	A9F53101	A9F54101	A9F55101	A9F53201	A9F54201	A9F55201
2 A	A9F53102	A9F54102	A9F55102	A9F53202	A9F54202	A9F55202
3 A	A9F53103	-	-	-	-	-
4 A	A9F53104	A9F54104	A9F55104	A9F53204	A9F54204	A9F55204
6 A	A9F53106	A9F54106	A9F55106	A9F53206	A9F54206	A9F55206
10 A	A9F53110	A9F54110	A9F55110	A9F53210	A9F54210	A9F55210
16 A	A9F53116	A9F54116	A9F55116	A9F53216	A9F54216	A9F55216
20 A	A9F53120	A9F54120	A9F55120	A9F53220	A9F54220	A9F55220
25 A	A9F53125	A9F54125	A9F55125	A9F53225	A9F54225	A9F55225
32 A	A9F53132	A9F54132	A9F55132	A9F53232	A9F54232	A9F55232
40 A	A9F53140	A9F54140	A9F55140	A9F53240	A9F54240	A9F55240
50 A	A9F53150	A9F54150	A9F55150	A9F53250	A9F54250	A9F55250
63 A	A9F53163	A9F54163	A9F55163	A9F53263	A9F54263	A9F55263
Width in 9-mm modules	2			4		

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

		Voltage (Ue)			
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V
Ph/N (1P)		12 to 60 V	100 to 133 V	220 to 240 V	-
Rating (In)	1 to 4 A	70 kA	70 kA	70 kA	50 kA
	6 to 40 A	42 kA	30 kA	15 kA	10 kA
	50/63 A	42 kA	-	15 kA	10 kA

Breaking capacity (Icn) according to IEC/EN 60898-1

Current Rating (In)	Voltage (Ue)	(Icn)		
1 to 63 A	Ph/Ph 400 V	10000 A		
1 to 63 A	Ph/N 230 V	10000 A		

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)			
Between +/-	12 to 48 V	72 V	100 to 133 V	220 to 250 V
Number of poles	1P		2P (in series)	3P (in series) 4P (in series)
Rating (In) 1 to 63 A	20 kA	10 kA	10 kA	20 kA 10 kA

Acti9 iID 2P B EV RCCB (DIN rail mounted)



A9Z51240

Reference	Description	Type	Rating in amps	Sensitivity rating in milliamps (mA)	Width in 9 mm modules
A9Z51225	ACTI9 iID 2P 25A 30MA B EV RCCB	EV RCCB	25 A	30 mA	8
A9Z51240	ACTI9 iID 2P 40A 30MA B EV RCCB	EV RCCB	40 A	30 mA	8

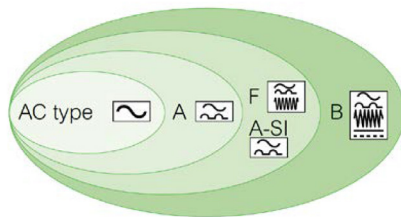
Acti9 iID 2P B-SI RCCB (DIN rail mounted)



A9Z61225

Reference	Description	Type	Rating in amps	Sensitivity rating in milliamps (mA)	Width in 9 mm modules
A9Z61225	ACTI9 iID 2P 25A 30MA B-SI RCCB	Standard	25 A	30 mA	8
A9Z61240	ACTI9 iID 2P 40A 30MA B-SI RCCB	Standard	40 A	30 mA	8
A9Z61263	ACTI9 iID 2P 63A 30MA B-SI RCCB	Standard	63 A	30 mA	8
A9Z64225	ACTI9 iID 2P 25A 300MA B-SI RCCB	Standard	25 A	300 mA	8
A9Z64240	ACTI9 iID 2P 40A 300MA B-SI RCCB	Standard	40 A	300 mA	8
A9Z64263	ACTI9 iID 2P 63A 300MA B-SI RCCB	Standard	63 A	300 mA	8

RCD types



Single-phase DIN rail mounted energy meters



A9MEM2000



A9MEM2055



A9MEM2105

Reference	Description
A9MEM2000T	iEM2000T basic energy meter, no display
A9MEM2000	iEM2000 basic energy meter
A9MEM2010	iEM2010 energy meter, kWh pulse output
A9MEM2100	iEM2100 basic energy meter
A9MEM2050	iEM2050 modular single phase power meter 230 V - 45 A with Modbus
A9MEM2055	iEM2055 modular single phase power meter 230 V - 45 A with Modbus, MID
A9MEM2105	iEM2105 energy meter, kWh pulse output with partial meter
A9MEM2110	iEM2110 energy meter, kWh and kvarh pulse outputs with two tariffs, four quadrant energy measurement, MID certified
A9MEM2135	iEM2135 energy meter, M-Bus communication, four quadrant energy measurement, two tariffs, MID certified
A9MEM2150	iEM2150 energy meter, Modbus communication, four quadrant energy measurement
A9MEM2155	iEM2155 energy meter, Modbus communication, four quadrant energy measurement, two tariffs, MID certified
A9MEM2435	iEM2435 power and energy meter, Class 1, 230 V, 100 A, M-Bus, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display
A9MEM2455	iEM2455 power and energy meter, Class 1, 230 V, 100 A, RS-485, MID, 2 tariffs, 2 pulse outputs, 4 quadrants, LCD display

iPRD surge arresters

iPRD withdrawable surge arresters allow quick replacement of damaged cartridges.

- Type 1 surge arresters meet the normative withstand capability of current wave type 10/350 µs.
- Type 2 surge arresters meet the normative withstand capability of current wave type 8/20 µs.
- Type 3 surge arresters meet the normative withstand capability of combined wave type 1.2/50 µs and 8/20 µs.



A9L65501



A9L40501



A9L20501



A9L08501

Reference	Pole Configuration	Rated discharge current (Imax)	Nominal discharge current (In)	Earthing system
iPRD65				
A9L65501	1P+N	65 kA Very high risk level (strongly exposed site)	20 kA	TT & TN-S
iPRD40				
A9L40501	1P+N	40 kA High risk level	15 kA	TT & TN-S
A9L40500	1P+N			TT & TN-S
iPRD20				
A9L20501	1P+N	20 kA Medium risk level	5 kA	TT & TN-S
A9L20500	1P+N			TT & TN-S
iPRD8				
A9L08501	1P+N	8 kA Secondary protection: placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester	2.5 kA	TT & TN-S
A9L08500	1P+N			TT & TN-S

Surge arrester/circuit breaker association			
Surge arrester	Associated circuit breaker		
	iPRD		iPRD IT
	Isc ≤ 25 kA	Isc ≤ 50 kA	Isc (IT 400 V AC) ≤ 5 kA
iPRD65	Curve C 50 A	Curve C 63 A	Curve C 25 A
iPRD40	Curve C 40 A	Curve C 63 A	Curve C 20 A
iPRD20	Curve C 20 A	Curve C 63 A	Curve C 10 A
iPRD8	Curve C 10 A	Curve C 63 A	Curve C 10 A



A9L16182

Reference	Pole Configuration	Rated discharge current (Imax)	Nominal discharge current (In)	Earthing system
iPRD1 12.5r				
A9L16182	1P	50 kA	20 kA	TN-C
A9L16282	1P+N			TT & TN-S

Surge protection kits for separate installation

Each kit is supplied with:

- iPRD surge arrester
- Correctly rated 2 pole iC60H disconnection miniature circuit breaker
- Distributed neutral bar and SEA9NKIT connection
- Insulated high IP rated enclosure with transparent cover and lock
- L1, N, E connecting cables



PRD1PN20R

Surge protection kits		
Catalogue number	Type	Number of poles
PRD1PN20R	Type 2	Surge Arrester 20 kA 1P+N
PRD1PN40	Type 2	Surge Arrester 40 kA 1P+N
PRD1PN8	Type 2	Surge Arrester 8 kA 1P+N

Acti9 Isobar P single phase Accessories

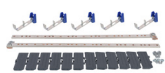
General Accessories



SEA9BL

Part Reference	Description
SEA9BL	Door Lock
SEA9PD	Padlock Kit for Door
SEA9BP	Blank Pole
SEA9BP3	Single 3 Pole filler
SEA9TB1001	100amp 1 Pole terminal block
SEA9ANWL	SP&N Labels
SEA9FCF	Pack of 24 fixing screws
SEK33	Spare keys
SESDC	Door catch

Distributed Neutral kits



SEA9NKIT -1

Part reference	Description	No of Ways
SEA9NA6	Distributed neutral kit for 6 way SP&N	6
SEA9NA10	Distributed neutral kit for 10 way SP&N	10
SEA9NA14	Distributed neutral kit for 14 way SP&N	14
SEA9NA18	Distributed neutral kit for 18 way SP&N	18
SEA9NA27	Distributed neutral kit for 27 way SP&N	27
SEA9NKIT	Phase to Neutral conversion kit (pack of 4, distributed neutral kit also required)	

• This kit allows the switching of upto 4 circuits per board and isolation of the Neutral and phase poles for 2 pole devices.

Flush Mounting Kits

Flush mounted kits are used to allow recessing of Distribution Boards into the Building structure.



SEA9AN10FK

Part Reference	Description	No of Ways	Dimensions same as
SEA9AN6FK	Flush Mounting Kit	6	SEA9APN6
SEA9AN10FK	Flush Mounting Kit	10	SEA9APN10
SEA9AN14FK	Flush Mounting Kit	14	SEA9APN14
SEA9AN18FK	Flush Mounting Kit	18	SEA9APN18

Spare Doors and covers



SEA9AN10C

Part Reference	Description
SEA9AN6C	6 Way Door and Cover
SEA9AN10C	10 Way Door and Cover
SEA9AN14C	14 Way Door and Cover
SEA9AN18C	18 Way Door and Cover
SEA9AN27C	27 Way Door and Cover

DIN rail enclosures



SEA9DE40

Part Reference	Description	Number of rows	Dimensions same as
SEA9DE16	8 SP way module enclosure	1	SEA9APN6
SEA9DE24	12 SP way module enclosure	1	SEA9APN10
SEA9DE32	16 SP way module enclosure	1	SEA9APN14
SEA9DE40	20 SP way module enclosure	1	SEA9APN18
SEA9DE64	32 SP way module enclosure	2	SEA9APN27



Acti9 Isobar

B type Distribution Boards



Three Phase Distribution

Definition

Three Phase Distribution Board – A three phase assembly containing switching or protective devices (e.g. circuit breakers, Arc fault detection devices, and residual current devices) associated with one or more outgoing circuits fed from one or more incoming circuits, together with terminals for the neutral and circuit protective conductors. It may also include signalling and other control devices.

Key standards

- BSEN 61439 – 3 Low Voltage Switchgear and Controlgear Assemblies
- BSEN 60898 – 1 Electrical accessories - Circuit breakers for overcurrent protection for household and similar installations - Circuit-breakers for a.c. operation
- BSEN 61009 – 1 Residual Current Circuit Breaker with Overcurrent Protection
- BSEN 61008 – 1 Specification for residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs). General rules
- BSEN 60947 - 2 Low-Voltage Switchgear and Controlgear: Circuit-breakers
- BSEN 62606 - General requirements for arc fault detection devices

Applications

Final circuit single phase or single phase and neutral low voltage distribution, typical loads serviced; Motors, General Power, HVAC, Critical Power.

Generally supplied by a panel board or switchboard, systems are designed to ensure supply continuity "discrimination" and enhanced performance "cascading".

Typical infrastructure layout



Isobar P Distribution boards – Selection Guide



Main characteristics		Hybrid Boards	Standalone Boards	Standard Boards	Meter Ready Boards	Split Metered	Heavy Duty
Outgoing Ways		8TPN+ 6 AFDD devices 14TPN+ 6 AFDD devices 10TPN+ 12 AFDD devices	12, 24, 36 AFDD devices	4-24 TPN Ways	6-24 TPN Ways	8+8 TPN Ways 14+8 TPN Ways 16+8 TPN Ways 18+4 TPN Ways	6-16 TPN Ways
Main Busbar Current Rating upto		250 A	125 A	250 A	125 A	250 A	125 A
Degree of protection		IP3X	IP3X	IP3X	IP3X	IP3X	IP55
Incomer options	Switch disconnectors 125 A	√	√	√	√	√	√
	Switch disconnectors 160A to 250 A	√	X	√	X	√	X
	Moulded Circuit Breakers 100 A to 250 A	√	X	√	X	√	X
	Residual Current Circuit Breakers upto 160 A	√	X	√	X	√	X
	Contactor Incomer - (270 mm extension box included)	√	√	√	X	√	X
	Terminal blocks - suitable for direct connection (250 A includes extension box)	√	X	√	X	√	X
	Dual metered extension enclosure including switch disconnector and MID meters	√	√	√	√	√	X
	Dual metered extension enclosure including circuit breakers and MID meters	√	√	√	√	√	X
Outgoers options	Active AFDD	√	√	Active AFDD can be installed using modular extension board			X
	iC60H PoN RCBO	√	X	√	√	√	√
	iC60H MCB	√	X	√	√	√	√

Isobar P Distribution boards – Selection Guide

SEA9 B PN __ 8AFD6 __

Range	Type of Board	Architecture	Rating	No of triple Poles	Options			
SEA9 (Schneider Electric Acti9)	B - Three Phase	PN - Plug on Neutral	Blank – Standard boards upto 250 A 125 – Split metered board upto 125 A 250 – Split metered board upto 250 A	<p>Standard Boards – TPN ways</p> 4 6 8 12 16 18 24	<p>Split Metered Boards – TPN ways</p> 8S8 = 8 + 8 14S8 = 14 + 8 16S8 = 16 + 8 18S4 = 18 + 4	<p>Hybrid Active AFDD Boards</p> 8AFD6 = 8TPN+ 6 Active AFDD devices 14AFD6 = 14TPN+ 6 Active AFDD devices 10AFD12 = 10TPN+ 12 Active AFDD devices	<p>Standalone Active AFDD Boards</p> 12AFD = 12 Active AFDD devices 24AFD = 24 Active AFDD devices 36AFD = 36 Active AFDD devices	M – Meter Ready HDGR – heavy duty steel HDGK – heavy duty transparent

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Acti9 Isobar P three phase B type Distribution Board*

Hybrid Active Distribution Boards

The Acti9 Isobar P Hybrid Active AFDD Distribution Boards are suitable for standard, commercial and industrial applications. It has provision to mount Active AFDDs, RCBO, MCB outgoing circuits. Option to connect incomer up to 250 A.



SEA9BPN8AFD6

Reference No	AFDD Ways	Triple Pole ways
SEA9BPN8AFD6	6	8
SEA9BPN14AFD6	6	14
SEA9BPN10AFD12	12	10

PoN + ACTIVE

Standalone Active Distribution Boards

The Acti9 Isobar P Standalone Active AFDD Distribution Boards are suitable for standard, commercial and industrial applications. It has provision to mount only Active AFDDs in outgoing circuits. Maximum incomer rating 125A.



SEA9BPNAFD12

Reference No	AFDD Ways
SEA9BPNAFD12	12
SEA9BPNAFD24	24
SEA9BPNAFD36	36

ACTIVE

Active Pan Assembly

The Acti9 Isobar P Active AFDD Pan Assembly are suitable for standard, commercial and industrial applications. It has provision to mount only Active AFDDs in outgoing circuits. Maximum incomer rating 125A.



SEA9BPNAFD24TN

Reference No	AFDD Ways
SEA9BPNAFD24TN	24
SEA9BPNAFD12TN	36

ACTIVE

• Note: Pan assemblies are for panel building only.

Standard Acti9 Isobar P 'B' Type Distribution Boards

The Acti9 Isobar P Distribution Boards are suitable for standard, commercial and Industrial applications.



SEA9BPN12

Part reference	No of Triple Pole Ways
SEA9BPN4	4
SEA9BPN6	6
SEA9BPN8	8
SEA9BPN12	12
SEA9BPN16	16
SEA9BPN18	18
SEA9BPN24	24

PoN

Meter Ready Acti9 Isobar P 'B' Type Distribution Boards

(Incoming 125A TP&N switch disconnecter included)

The Acti9 Isobar P Meter Ready Distribution Boards are suitable for standard, commercial and Industrial applications and enabled for an incoming meter connection (See 'Metering Kits' section for options).



SEA9BPN12M

Part reference	No of Triple Pole Ways
SEA9BPN6M	6
SEA9BPN8M	8
SEA9BPN12M	12
SEA9BPN16M	16
SEA9BPN18M	18
SEA9BPN24M	24

PoN

* For typical assembly configuration ratings (I_{nA}) with incomers fitted consult Customer Care

Acti9 Isobar three phase B type Distribution Board*

Split Metered Acti9 Isobar P 'B' Type Distribution Boards (busbar rating 125 A) 125 A Switch Disconnecter Fitted

The Acti9 Isobar P Split Meter Distribution Boards are suitable for standard, commercial and Industrial applications and include a 125 A Switch Disconnecter incomer and MID meters with communications (Meters included are 2 A9MEM3255).



SEA9BPN12514S8

Part reference	No of Triple Pole Ways	Upper pan assembly No of Triple Pole Ways
SEA9BPN1258S8	8	8
SEA9BPN12514S8	14	8
SEA9BPN12516S6	16	6
SEA9BPN12518S4	18	4



Split Metered Acti9 Isobar P 'B' Type Distribution Boards (busbar rating 250 A) incomer supplied separately

The Acti9 Isobar P Split Meter Distribution Boards are suitable for standard, commercial and Industrial applications and include MID meters with communications (incomer supplied separately). Refer Incomer selection section (Meters included are 2 A9MEM3255).



SEA9BPN25012S8

Part reference	No of Triple Pole Ways	Upper pan assembly No of Triple Pole Ways
SEA9BPN2508S8	8	8
SEA9BPN25014S8	14	8
SEA9BPN25016S6	16	6
SEA9BPN25018S4	18	4



Heavy duty Acti9 Isobar P 'B' Type Distribution Boards (Steel Door)

The Acti9 Isobar P Heavy Duty Distribution Board is 125 A rated and has IP55 external protection and includes a Steel door (No metering options available).



SEA9BPN12HDGR

Part reference	No of triple Pole Ways
SEA9BPN6HDGR	6
SEA9BPN8HDGR	8
SEA9BPN12HDGR	12
SEA9BPN16HDGR	16



Heavy duty Acti9 Isobar P 'B' Type Distribution Boards (Transparent Door)

The Acti9 Isobar P Heavy Duty Distribution Board is 125A rated and has IP55 external protection and includes a Transparent door (No metering options available).



SEA9BPN8HDGK

Part reference	No of triple Pole Ways
SEA9BPN6HDGK	6
SEA9BPN8HDGK	8
SEA9BPN12HDGK	12
SEA9BPN16HDGK	16



* For typical assembly configuration ratings (I_{nA}) with incomers fitted consult Customer Care

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

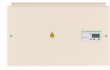
Accessories

Connectivity

Metering Kits

Metering Kits are for the addition of Incoming Metering to an Acti9 Standard Isobar / Isobar P or Meter Ready / Meter ready Isobar P Distribution Board.

The kit includes a Meter / Extension box and the type of connection.



SEA9BNKWH

Part reference	Description	Rating in amps	Connection
Metering Kit for a Standard Board			
SEA9BNKWH	MID 3 Phase kWh kit Modbus communications and Pulsed output (Includes A9MEM3255)	250 A	Via CT (Included)
SEA9BNKWHP	MID 3 Phase kWh kit Pulsed output (Includes A9MEM3210)	250 A	Via CT (Included)
SEA9BNMETE	Metering Enclosure for Standard Acti9 Isobar Boards for PM Meters (Meter not included)	250 A	Via CT (Included)
Metering Kit for a Meter Ready Board			
SEA9BN3155	MID 3 Phase kWh kit Modbus communications (Includes A9MEM3155)	63 A	Direct
SEA9BN3110	MID 3 phase kWh kit pulsed output (Includes A9MEM3110)	63 A	Direct
SEA9BN3255	MID 3 phase kWh kit modbus communications (Includes A9MEM3255)	125 A	Via CT (Included)
SEA9BN3210	MID 3 phase kWh kit pulsed output (Includes A9MEM3210)	125 A	Via CT (Included)

Isobar P – Pan Assembly with Neutral distribution

Pan assemblies - for switchboard mounting supplied with earths and neutral, phase coloured Isobar switch disconnectors



SEA9BPN4E

Reference No	No of Triple Pole Ways
SEA9BPN4E	4
SEA9BPN6E	6
SEA9BPN8E	8
SEA9BPN12E	12
SEA9BPN16E	16
SEA9BPN18E	18
SEA9BPN24E	24

PoN

- With Incomer neutral connection option and Earth bars
- Note: Pan assemblies are for panel building only

Isobar P – Pan Assembly without Neutral distribution

Pan assemblies - 3 phase without distributed neutral, supplied fitted on a mounting plate



SEA9BPN4TN

Reference No	No of Triple Pole Ways
SEA9BPN4TN	4
SEA9BPN6TN	6
SEA9BPN8TN	8
SEA9BPN12TN	12
SEA9BPN16TN	16
SEA9BPN18TN	18
SEA9BPN24TN	24

PoN

- With Incomer neutral connection option and Earth bars
- Note: Pan assemblies are for panel building only

Incoming Devices for Acti9 Isobar P Distribution Boards

Switch Disconnectors 125 A

The Acti9 Isobar 125 A incoming switch disconnectors can be incorporated directly within the distribution board.



SEA91253N

Part reference	Rating in amps	No of Poles
SEA91253N	125 A	3P+N
SEA91254	125 A	4P

• 50 mm² cable capacity

Switch Disconnectors 160 A to 250 A

The Acti9 Isobar P 160 A to 250 A incoming switch disconnectors include an extension box (400 mm height enclosure included) and are not compatible with Heavy Duty distribution boards.



SEA9PNI2504

Part Reference	Rating in amps	No of Poles
SEA9PNI1603	160 A	3P+N
SEA9PNI1604	160 A	4P
SEA9PNI2003	200 A	3P+N
SEA9PNI2004	200 A	4P
SEA9PNI2254	225 A	4P
SEA9PNI2503	250 A	3P+N
SEA9PNI2504	250 A	4P

Moulded Circuit Breakers 100 A to 250 A

The Acti9 Isobar P 100 A to 250 A incoming circuit breakers include an extension box (400 mm height enclosure included) and are not compatible with Heavy Duty distribution boards.



SEA9NCB2504SM

Part Reference	Rating in amps	No of Poles
SEA9NCB1004	100 A	3P+N
SEA9NCB1604	160 A	4P
SEA9NCB2004	200 A	3P+N
SEA9NCB2504	250 A	4P

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Residual Current Circuit Breakers up to 160 A

The Acti9 Isobar P 160 A incoming RCDs include an extension box (400 mm height enclosure included) and are not compatible with Heavy Duty distribution boards.



SEA9PNI160RCCB

Part Reference	Rating in amps	Rating in milliamps (mA) sensitivity	No of Poles
SEA9PNI160RCCB	160 A	Adjustable - 30 mA, 300 mA, 1 A, 3 A, and 10 A	4

Terminal Blocks - Suitable for Direct Connection (250 A includes extension box)

The Acti9 Isobar and Isobar P 250 A incoming terminal blocks require an extension box and are not compatible with Heavy Duty distribution boards.



SEA9PNTB2504

Part reference	Rating in amps	No of Poles
SEA9TB1254	125 A	4
SEA9PNTB2504	250 A	4

Dual Source Incomer - (270 mm extension box included)

The Acti9 Isobar Dual Source Incomer is not compatible with Heavy Duty distribution boards.



SEA9PNDI

Part reference	Rating in amps	No of Poles
SEA9PNDI	125 A	4

Contactor Incomer - (270 mm extension box included)

The Acti9 Isobar Contactor Incomer is not compatible with Heavy Duty distribution boards.



SEA9BN100CCI

Part reference	Rating in amps	No of Poles
SEA9BN100CCI	100 A	4

* Includes, 1 x 100 A 4 pole contactor, 4 pole terminal block and 4 pole 125 A switch disconnector

Dual Metered Extension Enclosure including switch disconnectors and MID meters

The Acti9 Isobar and Isobar P Dual Metered Extension Enclosure for use with standard distribution boards and is not compatible with Heavy Duty distribution boards (Meters included 2 A9MEM3255).



SEA9BNDM250SD

Part reference	Rating in amps	No of Poles
SEA9BNDM160SD	160 A	4
SEA9BNDM200SD	200 A	4
SEA9BNDM250SD	250 A	4

* Requires, 2 x 4P incomers, 2 x distribution boards and 2 x door locks

Dual Metered Extension Enclosure including circuit breakers and MID meters

The Acti9 Isobar Dual Metered Extension Enclosure for use with standard distribution boards and is not compatible with Heavy Duty distribution boards (Meters included 2 A9MEM3255).



SEA9BNDM250SD

Part reference	Rating in amps	No of Poles
SEA9BNDM160M	160 A	4
SEA9BNDM200M	200 A	4
SEA9BNDM250M	250 A	4

Incomers for 250 amp Split Metered Boards



SEA9NCB2504SM
(MCCB device only)

Part Reference	Description	Rating in amps	No of Poles
SEA9NCB1604SM	160 A 4p MCCB for 250 amp Split metered board	160 A	4
SEA9NCB2004SM	200 A 4p MCCB for 250 amp Split metered board	200 A	4
SEA9NCB2504SM	250 A 4p MCCB for 250 amp Split metered board	250 A	4
SEA9NI1604SM	160 A 4p Switch for 250 amp Split metered board	160 A	4
SEA9NI2004SM	200 A 4p Switch for 250 amp Split metered board	200 A	4
SEA9NI2504SM	250 A 4p Switch for 250 amp Split metered board	250 A	4

• Incoming device only

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Acti9 Active Arc Fault Detection Device



Acti9 Active is an arc fault detection device with overload, short circuit and residual current protection, which aims to reduce the risk of electrical fire.

By continuously analyzing a large number of electrical parameters, it detects the appearance of electric arcs that are responsible for starting fires. It isolates the circuit concerned which reduces flame appearance occurrence.

Regulation 421.1.7 of BS 7671: 2018 (IET Wiring Regulations 18th Edition) recommends the use of AFDD to protect against arc fault in AC final circuits. Examples of where AFDDs can be used include:

- in locations with sleeping accommodations (e.g. hotels, nursing homes, bedrooms in homes)
- in locations with risks of fire due to high quantities of flammable materials (e.g. barns, wood-working shops, stores of combustible materials)
- in locations with combustible constructional materials (e.g. wooden buildings)
- in fire propagating structures (e.g. high rise buildings)
- in locations where irreplaceable goods are housed (e.g. museums).

More specifically, the installation of Acti9 Active is highly recommended to protect circuits with highest risk of fire, such as:

- protruding cables (risk of knocks)
- outside cables (greater risk of deterioration)
- unprotected cables in secluded areas (like storage rooms)
- ageing, deteriorating wiring or wiring for which the connection boxes are inaccessible.

Acti9 Active must not be installed on circuits requiring a high level of continuity of service.

Acti9 Active is not compatible with ATEX regulations.

IEC/BS EN 62606 BS EN IEC 61009-2-1 BS EN IEC 60947-2 IEC/BS EN 60898-1

As per the above standards:

- The Acti9 Active provides a protection for final circuits against overcurrents and insulation faults (protection for people against electric shocks).
- In addition to these protections, the Acti9 Active monitors for electric arcs that occur in cables and connections, that may cause a fire. These arcs are the result of localised cable deterioration or loose connections.
- It is used for three types of situations that can result in a fire:
 - parallel arc detection: insulation problems between two live conductors that cause a resistive short-circuit, too weak to be detected by a circuit breaker and with no earth leakage to be detected by a residual current circuit breaker,
 - series arc detection: a damaged conductor or connection will cause a local rise in temperature,
 - overheating of electronic components in loads, when exposed to an overvoltage for several seconds.
- It combines the following functions:
 - circuit protection against overload and short-circuit currents (circuit breaker function),
 - protection for people against electric shocks by direct contacts and indirect contacts (30 mA),
 - protection against fire hazards by detection of abnormal electric arcs,
 - protection against load fire hazards due to slow overvoltages (network overvoltage),
 - fire hazard tripping indication via the front panel indicator,
 - tripping faults diagnosis by LED blinking in front face.
- The Acti9 Active should be installed in the place of the circuit's final protection device.
- Product is reverse feeding: it can be supplied either by the top or the bottom.

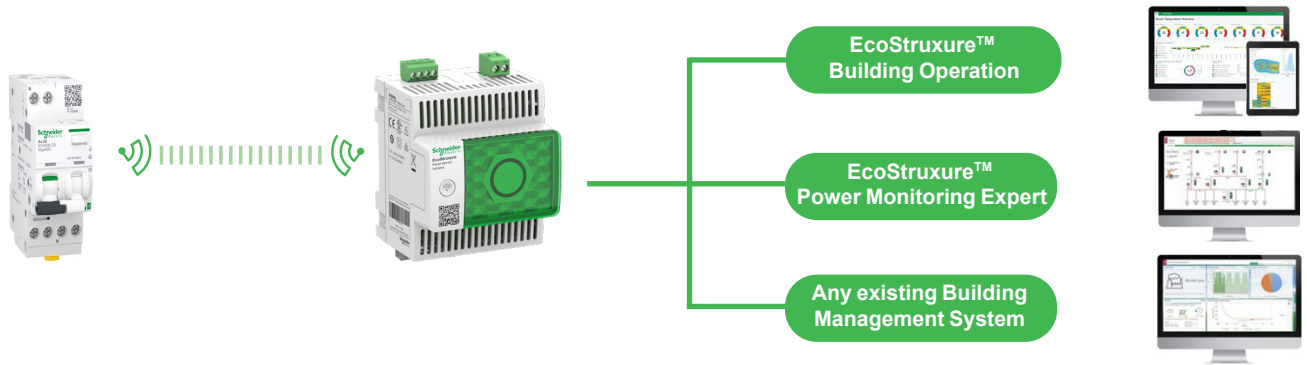
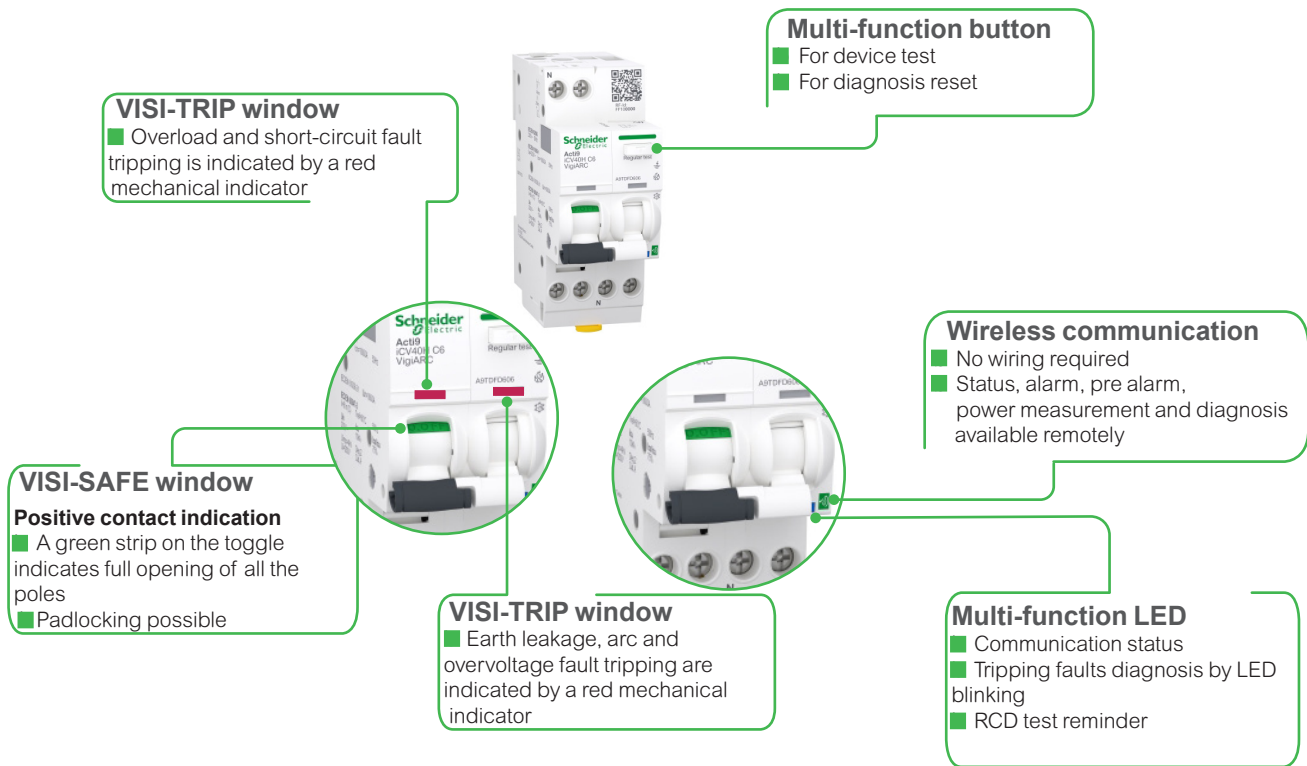
A-SI type

The A-SI type provides increased immunity from electrical interference and polluted or corrosive environments.

Wireless-communication device

- Used together with a concentrator or a gateway to collect and process the data, Acti9 Active AFDD provides circuit monitoring and diagnosis down to load level.
- Wireless-communication technology simplifies switchboard wiring and commissioning operations: no wiring is required for the Acti9 Active AFDD to communicate with the concentrator or the gateway.

Acti9 Active Arc Fault Detection Device



Acti9 Active "All-in-One" overview of available data:

- Device status (open/close/trip)
- Diagnostics: Reason for tripping (short-circuit, overload, earth leakage fault, serial arc, parallel arc, overvoltage)
- Customizable Pre-alarms (overload, earth leakage fault, overvoltage)
- Measurement: U, I, P, Power Factor, earth leakage %, internal temperature, time of use
- Protection log (date of 1st operation ON, date of last push on test button, number and reasons for tripping)
- RCD test reminder

Advanced visibility for active safety

Alarms & pre-alarms:

- Customizable thresholds for pre-alarms
- Overload
- Earth leakage
- Overvoltage



Diagnostics & analytics:

- Indication for nature of electrical fault
- Historical data
- Protection logs

Measuring & remote monitoring:

- U, I & P measuring
- Load monitoring

Advanced protection:

- Protection for people, appliances, circuit, and against fire
MCB+MSU+RCD+AFDD

C Curve



A9TDFD606

Acti9 Active, A-SI type		
C Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9TDFD606	6 A	30 mA
A9TDFD610	10 A	30 mA
A9TDFD616	16 A	30 mA
A9TDFD620	20 A	30 mA
A9TDFD625	25 A	30 mA
A9TDFD632	32 A	30 mA
Operating voltage	230 VAC	
Operating frequency	50 Hz	
Width in 9 mm modules	4	
Pole Configuration	1P+N	
Comb busbars	A9XPC624, A9X21096, A9XPCM04	

ACTIVE

Associated concentrators / gateways

EcoStruxure Panel Server



Entry	100-227V AC/DC	Available from July-2022
Universal	24V DC	PAS600L
	240V AC/DC	PAS600T
Advanced	110-277V AC/DC	PAS800
	24V DC	PAS800L
	PoE	PAS800P

Acti9 Arc Fault Detection Device - iARC



Acti9 iARC is an arc fault detection switch which aims to reduce the risk of electrical fire. By continuously analysing a large number of electrical parameters, it detects the appearance of electric arcs that are responsible for starting fires. It isolates the circuit concerned which reduces flame appearance occurrence.

Regulation 421.1.7 of BS 7671: 2018 (IET Wiring Regulations 18th Edition) recommends the use of AFDD to protect against arc fault in AC final circuits. Examples of where AFDDs can be used include:

- in locations with sleeping accommodations (e.g. hotels, nursing homes, bedrooms in homes)
 - in locations with risks of fire due to high quantities of flammable materials (e.g. barns, wood-working shops, stores of combustible materials)
 - in locations with combustible constructional materials (e.g., wooden buildings)
 - in fire propagating structures (e.g. high rise buildings)
 - in locations where irreplaceable goods are housed (e.g. museums).
- More specifically, the installation of Acti9 iARC is highly recommended to protect circuits with highest risk of fire, such as:
- protruding cables (risk of knocks)
 - outside cables (greater risk of deterioration)
 - unprotected cables in secluded areas (like storage rooms)
 - ageing, deteriorating wiring or wiring for which the connection boxes are inaccessible.

Acti9 iARC must not be installed on circuits requiring a high level of continuity of service.

Acti9 iARC is not compatible with ATEX regulations.

IEC/BS EN 62606

As per the above standard:

The arc fault detection switch Acti9 iARC monitors electric arcs that occur in cables and connections and may cause a fire. These arcs are the result of localised cable deterioration or loose connections.

- It is used for three types of situations that can result in a fire:
 - parallel arc detection: insulation problems between two live conductors that cause a resistive short-circuit, too weak to be detected by a circuit breaker and with no earth leakage that would be detected by an earth-leakage protection device,
 - series arc detection: a damaged conductor or connection will cause a local rise in temperature,
 - overheating of electronic components in loads, when exposed to an overvoltage for several seconds.
- It combines the following functions:
 - protection against fire hazards by detection of abnormal electric arcs,
 - protection against load fire hazards due to slow overvoltages (network overvoltage),
 - fire hazard tripping indication via the front panel indicator,
 - positive contact indication (green strip),
 - tripping faults diagnosis by LED blinking in front face.
- Coordinated with a MCB or a RCBO, max. 40 A, it protects Phase-Neutral circuits, in full coordination under short-circuit conditions up to a rated breaking capacity of 10,000 A
- Product is reverse feeding: it can be supplied either by the top or the bottom.

Catalogue numbers

Acti9 iARC		
Arc Fault Detection Device (AFDD) to IEC/BS EN 62606		
	Rating 40 A (In)	A9TSB3640
Operating voltage	230 VAC	
Operating frequency	50 Hz	
Width in 9 mm modules	4	
Pole Configuration	1P+N	

Acti9 Isobar P and AFDD Arrangements

Hybrid and Standalone Active distribution boards can provide AFDD ways to accommodate Active AFDD devices. Extension Enclosures can provide additional DIN rail ways to accommodate devices such as Contactors, SPD and AFDD.

Acti9 DB + Extension Enclosure

Acti9 isobar P Active Distribution Boards



Distribution Boards

Part reference	No of AFDD ways
SEA9BPN8AFD6	6
SEA9BPN14AFD6	6
SEA9BPN10AFD12	12
SEA9BPNAFD12	12
SEA9BPNAFD24	24
SEA9BPNAFD36	36

Distribution Boards

Acti9 isobar P Standard Distribution Boards



Acti9 Extension Enclosure

Top or Bottom extension enclosures (Height 270 mm)



Part reference	Description	No of Rows	Total 18 mm SP Ways	No of AFDD ways
SEA9BNEX034N	DIN rail extension box	1	17	8

Or Side extension enclosures



Part reference
SEA9BPN4
SEA9BPN6
SEA9BPN8
SEA9BPN12
SEA9BPN16
SEA9BPN18
SEA9BPN24

Note: Please select required joining kit.

Part reference	Description	No of Rows	Total 18 mm SP Ways	Same Dimensions as:	No of AFDD ways
SEA9BN4SXS	Slotted Front Cover & Overall Door	2	34	SEA9BPN4	16
SEA9BN8SXS	Slotted Front Cover & Overall Door	2	34	SEA9BPN8	16
SEA9BN12SXS	Slotted Front Cover & Overall Door	3	51	SEA9BPN12	24
SEA9BN16SXS	Slotted Front Cover & Overall Door	4	68	SEA9BPN16	32
SEA9BN24SXS	Slotted Front Cover & Overall Door	5	85	SEA9BPN24	40
SEA9BN4SXP	Plain Front Cover & Overall Door	2	34	SEA9BPN4	16
SEA9BN8SXP	Plain Front Cover & Overall Door	2	34	SEA9BPN8	16
SEA9BN12SXP	Plain Front Cover & Overall Door	3	51	SEA9BPN12	24
SEA9BN16SXP	Plain Front Cover & Overall Door	4	68	SEA9BPN16	32
SEA9BN24SXP	Plain Front Cover & Overall Door	5	85	SEA9BPN24	40

Acti9 iC60H PoN RCBO's 10,30 and 100 mA

Acti9 iC60H Plug-on Residual Current Circuit Breaker with Overload

B Curve



A9D56806

A type

B Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D56806	6 A	30 mA
A9D56810	10 A	30 mA
A9D56816	16 A	30 mA
A9D56820	20 A	30 mA
A9D56825	25 A	30 mA
A9D56832	32 A	30 mA
A9D56840	40 A	30 mA
A9D56845	45 A	30 mA

PoN

C Curve



A9D01806

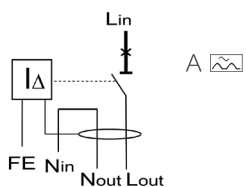
A type

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D01806	6 A	10 mA
A9D01810	10 A	10 mA
A9D01816	16 A	10 mA
A9D01820	20 A	10 mA
A9D01825	25 A	10 mA
A9D01832	32 A	10 mA
A9D01840	40 A	10 mA
A9D01845	45 A	10 mA
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A9D05806	6 A	30 mA
A9D05810	10 A	30 mA
A9D05816	16 A	30 mA
A9D05820	20 A	30 mA
A9D05825	25 A	30 mA
A9D05832	32 A	30 mA
A9D05840	40 A	30 mA
A9D05845	45 A	30 mA
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A9D06806	6 A	100 mA
A9D06810	10 A	100 mA
A9D06816	16 A	100 mA
A9D06820	20 A	100 mA
A9D06825	25 A	100 mA
A9D06832	32 A	100 mA
A9D06840	40 A	100 mA
A9D06845	45 A	100 mA

PoN

PoN

PoN



Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC/EN 61009-1		
Current Rating (In)	Voltage (Ue)	(Icn)
6 to 45 A	Ph/N 240 V	10000 A

Acti9 iC60H RCBO's 10,30 and 100 mA

Acti9 iC60H Residual Current Circuit Breaker with Overload

B Curve



A type

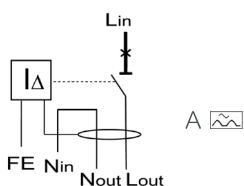
B Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D31806	6 A	30 mA
A9D31810	10 A	30 mA
A9D31816	16 A	30 mA
A9D31820	20 A	30 mA
A9D31825	25 A	30 mA
A9D31832	32 A	30 mA
A9D31840	40 A	30 mA
A9D31845	45 A	30 mA

C Curve



A type

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)
A9D10806	6 A	10 mA
A9D10810	10 A	10 mA
A9D10816	16 A	10 mA
A9D10820	20 A	10 mA
A9D10825	25 A	10 mA
A9D10832	32 A	10 mA
A9D10840	40 A	10 mA
A9D10845	45 A	10 mA
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A9D11806	6 A	30 mA
A9D11810	10 A	30 mA
A9D11816	16 A	30 mA
A9D11820	20 A	30 mA
A9D11825	25 A	30 mA
A9D11832	32 A	30 mA
A9D11840	40 A	30 mA
A9D11845	45 A	30 mA
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A9D12806	6 A	100 mA
A9D12810	10 A	100 mA
A9D12816	16 A	100 mA
A9D12820	20 A	100 mA
A9D12825	25 A	100 mA
A9D12832	32 A	100 mA
A9D12840	40 A	100 mA
A9D12845	45 A	100 mA



Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC/EN 61009-1		
Current Rating (In)	Voltage (Ue)	(Icn)
6 to 45 A	Ph/N 240 V	10000 A

Acti9 iC60H RCBO 110 V (Ph/N) 30 mA

Acti9 iC60H Residual Current Circuit Breaker with Overload



A9D19832

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)	Rating in volts
A9D19810	10 A	30 mA	110 V
A9D19816	16 A	30 mA	110 V
A9D19820	20 A	30 mA	110 V
A9D19825	25 A	30 mA	110 V
A9D19832	32 A	30 mA	110 V

Alternating current (AC) 50/60 Hz

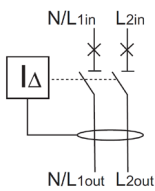
Breaking capacity (Icn) according to IEC/EN 61009-1

Current Rating (In)	Voltage (Ue)	(Icn)
10 to 32 A	Ph/N 110 V	10000 A



A9D19210

C Curve	Rating in amps	Sensitivity rating in milliamps (mA)	Rating in volts
A9D19210	10 A	30 mA	110 V
A9D19216	16 A	30 mA	110 V
A9D19220	20 A	30 mA	110 V
A9D19225	25 A	30 mA	110 V
A9D19232	32 A	30 mA	110 V
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A9D11210	10 A	30 mA	240 V
A9D11216	16 A	30 mA	240 V
A9D11220	20 A	30 mA	240 V
A9D11225	25 A	30 mA	240 V
A9D11232	32 A	30 mA	240 V
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A9D51210	10 A	300 mA	240 V
A9D51216	16 A	300 mA	240 V
A9D51220	20 A	300 mA	240 V
A9D51225	25 A	300 mA	240 V
A9D51232	32 A	300 mA	240 V


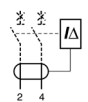


A9V02663

Vigi iC60 add-on residual current devices						
Type Product	A Vigi iC60					Width in 9 mm modules
Auxiliaries			Without auxiliaries			
1P+N		Sensitivity	30 mA	100 mA	300 mA	
	Rating	25 A	-	-	-	3
		63 A	A9V02663 A9V01663*	A9V03663	A9V06663	
3P+N		Sensitivity	30 mA	100 mA	300 mA	
	Rating	63 A	A9V02763	-	A9V06763	6
Voltage rating (Ue)			230 - 240 V, 400 - 415 V Except * 110 V			
Operating frequency			Except * 110 V			




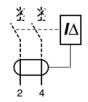
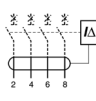
A9V51225

Vigi iC60 add-on residual current devices										
Type Product	 Vigi iC60								Width in 9 mm modules	
Auxiliaries			Without auxiliaries							
2P	Sensitivity	30 mA	100 mA	300 mA	500 mA	300 m/s	1000 m/s			
	Rating	25 A	A9V51225	A9V22225	A9V54225	A9V26225	-	-	3	
	Rating	63 A	A9V51263	A9V22263	A9V54263	A9V26263	A9V25263	A9V29263	4	
	Sensitivity	30 mA	100 mA	300 mA	500 mA	300 m/s	1000 m/s			
4P	Rating	25 A	A9V51425	A9V22425	A9V54425	A9V26425	-	-		
	Rating	63 A	A9V51463	A9V22463	A9V54463	A9V26463	A9V25463	A9V29463	6	
Voltage rating (Ue)			230 - 240 V, 400 - 415 V							7
Operating frequency			50/60 Hz							

Vigi iC60 add-on residual current devices (SI type)



A9V30225


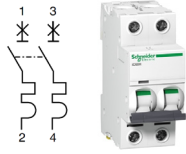
Vigi iC60 add-on residual current devices										
Type Product	 SI Vigi iC60								Width in 9 mm modules	
Auxiliaries			Without auxiliaries							
2P	Sensitivity	10 mA	30 mA	300 m/s	1000 m/s					
		Rating	25 A	A9V30225	A9V61225	-	-	-	3	
		40 A	-	A9V61240	-	-	-	-	4	
63 A	-	A9V61263	A9V65263	A9V39263				4		
4P	Sensitivity	10 mA	30 mA	300 m/s	1000 m/s					
		Rating	25 A	-	A9V61425	-	-	-	6	
		40 A	-	A9V61440	-	-	-	-	7	
		63 A	-	A9V61463	A9V65463	A9V39463			7	
Voltage rating (Ue)			230 - 240 V, 400 - 415 V							
Operating frequency			50/60 Hz							

Acti9 iC60H Circuit Breaker

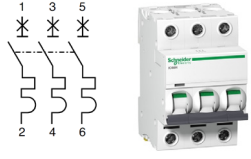
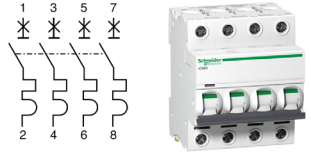
A9 F 54 1 32

Range	Family	Code	Internal code	Poles	Code	Rating (A)	Code
Acti 9 (A9)	iID	R		1P	1	1	01
	Vigi iC60	V		2P	2	2	02
	iC60	F		3P	3	3	03
	iK60	K		4P	4	4	04
	Auxiliaries and accessories	A		6	06		
	Switches	S		8	08		
	Reflex iC60	C		10	10		
			16	16			
			20	20			
			25	25			
			32	32			
			40	40			
			50	50			
			63	63			

Acti9 iC60H circuit breaker

Type	1P			2P		
						
Current rating (In)	Curve			Curve		
	B	C	D	B	C	D
1 A	A9F53101	A9F54101	A9F55101	A9F53201	A9F54201	A9F55201
2 A	A9F53102	A9F54102	A9F55102	A9F53202	A9F54202	A9F55202
3 A	A9F53103	-	-	-	-	-
4 A	A9F53104	A9F54104	A9F55104	A9F53204	A9F54204	A9F55204
6 A	A9F53106	A9F54106	A9F55106	A9F53206	A9F54206	A9F55206
10 A	A9F53110	A9F54110	A9F55110	A9F53210	A9F54210	A9F55210
16 A	A9F53116	A9F54116	A9F55116	A9F53216	A9F54216	A9F55216
20 A	A9F53120	A9F54120	A9F55120	A9F53220	A9F54220	A9F55220
25 A	A9F53125	A9F54125	A9F55125	A9F53225	A9F54225	A9F55225
32 A	A9F53132	A9F54132	A9F55132	A9F53232	A9F54232	A9F55232
40 A	A9F53140	A9F54140	A9F55140	A9F53240	A9F54240	A9F55240
50 A	A9F53150	A9F54150	A9F55150	A9F53250	A9F54250	A9F55250
63 A	A9F53163	A9F54163	A9F55163	A9F53263	A9F54263	A9F55263
Width in 9-mm modules	2			4		

Distribution Board Incomer **Outgoing Devices** Complimentary Devices Accessories Connectivity

Type		3P			4P		
							
Current rating (In)		Curve			Curve		
		B	C	D	B	C	D
1 A		A9F53301	A9F54301	A9F55301	A9F53401	A9F54401	A9F55401
2 A		A9F53302	A9F54302	A9F55302	A9F53402	A9F54402	A9F55402
3 A		-	-	-	-	-	-
4 A		A9F53304	A9F54304	A9F55304	A9F53404	A9F54404	A9F55404
6 A		A9F53306	A9F54306	A9F55306	A9F53406	A9F54406	A9F55406
10 A		A9F53310	A9F54310	A9F55310	A9F53410	A9F54410	A9F55410
16 A		A9F53316	A9F54316	A9F55316	A9F53416	A9F54416	A9F55416
20 A		A9F53320	A9F54320	A9F55320	A9F53420	A9F54420	A9F55420
25 A		A9F53325	A9F54325	A9F55325	A9F53425	A9F54425	A9F55425
32 A		A9F53332	A9F54332	A9F55332	A9F53432	A9F54432	A9F55432
40 A		A9F53340	A9F54340	A9F55340	A9F53440	A9F54440	A9F55440
50 A		A9F53350	A9F54350	A9F55350	A9F53450	A9F54450	A9F55450
63 A		A9F53363	A9F54363	A9F55363	A9F53463	A9F54463	A9F55463
Width in 9-mm modules		6			8		

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

		Voltage (Ue)			
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V
Ph/N (1P)		12 to 60 V	100 to 133 V	220 to 240 V	-
Rating (In)	1 to 4 A	70 kA	70 kA	70 kA	50 kA
	6 to 40 A	42 kA	30 kA	15 kA	10 kA
	50/63 A	42 kA	-	15 kA	10 kA

Breaking capacity (Icn) according to IEC/EN 60898-1

Current Rating (In)		Voltage (Ue)	(Icn)		
1 to 63 A		Ph/Ph 400 V	10000 A		
1 to 63 A		Ph/N 230 V	10000 A		

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)				
Between +/-	12 to 48 V	72 V	100 to 133 V		220 to 250 V
Number of poles	1P		2P (in series)	3P (in series)	4P (in series)
Rating (In) 1 to 63 A	20 kA	10 kA	10 kA	20 kA	10 kA

Complimentary Devices (DIN rail mounted)

Acti9 iID 2P B EV RCCB



A9Z51225

Reference	Description	Type	Rating in amps	Sensitivity rating in milliamps (mA)	Width in 9 mm modules
A9Z51225	ACT19 iID 2P 25A 30MA B EV RCCB	EV RCCB	25 A	30 mA	8
A9Z51240	ACT19 iID 2P 40A 30MA B EV RCCB	EV RCCB	40 A	30 mA	8

Acti9 iID 4P B EV RCCB



A9Z51440

Reference	Description	Type	Rating in amps	Sensitivity rating in milliamps (mA)	Width in 9 mm modules
A9Z51440	ACT19 iID 4P 40A 30MA B EV RCCB	EV RCCB	40 A	30 mA	8
A9Z51463	ACT19 iID 4P 63A 30MA B EV RCCB	EV RCCB	63 A	30 mA	8

Acti9 iID 2P B-SI RCCB



A9Z61225

Reference	Description	Type	Rating in amps	Sensitivity rating in milliamps (mA)	Width in 9 mm modules
A9Z61225	ACT19 iID 2P 25A 30MA B-SI RCCB	Standard	25 A	30 mA	8
A9Z61240	ACT19 iID 2P 40A 30MA B-SI RCCB	Standard	40 A	30 mA	8
A9Z61263	ACT19 iID 2P 63A 30MA B-SI RCCB	Standard	63 A	30 mA	8
A9Z64225	ACT19 iID 2P 25A 300MA B-SI RCCB	Standard	25 A	300 mA	8
A9Z64240	ACT19 iID 2P 40A 300MA B-SI RCCB	Standard	40 A	300 mA	8
A9Z64263	ACT19 iID 2P 63A 300MA B-SI RCCB	Standard	63 A	300 mA	8

Acti9 iID 4P B-SI RCCB



A9Z61425

Reference	Description	Type	Rating in amps	Sensitivity rating in milliamps (mA)	Width in 9 mm modules
A9Z61425	ACT19 iID 4P 25A 30MA B-SI RCCB	Standard	25 A	30 mA	8
A9Z61440	ACT19 iID 4P 40A 30MA B-SI RCCB	Standard	40 A	30 mA	8
A9Z61463	ACT19 iID 4P 63A 30MA B-SI RCCB	Standard	63 A	30 mA	8
A9Z61480	ACT19 iID 4P 80A 30MA B-SI RCCB	Standard	80 A	30 mA	8
A9Z64425	ACT19 iID 4P 25A 300MA B-SI RCCB	Standard	25 A	300 mA	8
A9Z64440	ACT19 iID 4P 40A 300MA B-SI RCCB	Standard	40 A	300 mA	8
A9Z64463	ACT19 iID 4P 63A 300MA B-SI RCCB	Standard	63 A	300 mA	8
A9Z64480	ACT19 iID 4P 80A 300MA B-SI RCCB	Standard	80 A	300 mA	8
A9Z65440	ACT19 iID 4P 40A 300SMA B-SI RCCB	Standard	40 A	300 mA	8
A9Z65463	ACT19 iID 4P 63A 300SMA B-SI RCCB	Standard	63 A	300 mA	8
A9Z65480	ACT19 iID 4P 80A 300SMA B-SI RCCB	Standard	80 A	300 mA	8
A9Z66440	ACT19 iID 4P 40A 500MA B-SI RCCB	Standard	40 A	500 mA	8
A9Z66463	ACT19 iID 4P 63A 500MA B-SI RCCB	Standard	63 A	500 mA	8
A9Z66480	ACT19 iID 4P 80A 500MA B-SI RCCB	Standard	80 A	500 mA	8

iCT 3P+N Contactor

Provides an optimized solution with desynchronized and reinforced contacts for head of group lighting applications.



A9C24740

Reference	Description	Ratings (In)	
		AC7a	AC7b
A9C24740	A9 iCT 40 A 3PN 4NO 230/240 VAC 50 HZ	40 A	15 A
A9C22740	A9 iCT 40 A 3PN 4NC 230/240 VAC 50 HZ	40 A	15 A
A9C24763	A9 iCT 63 A 3PN 4NO 230/240 VAC 50 HZ	63 A	20 A
A9C22763	A9 iCT 63 A 3PN 4NC 230/240 VAC 50 HZ	63 A	20 A

3-phase DIN rail mounted energy meters

DIN rail, 3-phase energy meters for monitoring distribution panels



A9MEM3155



A9MEM3255



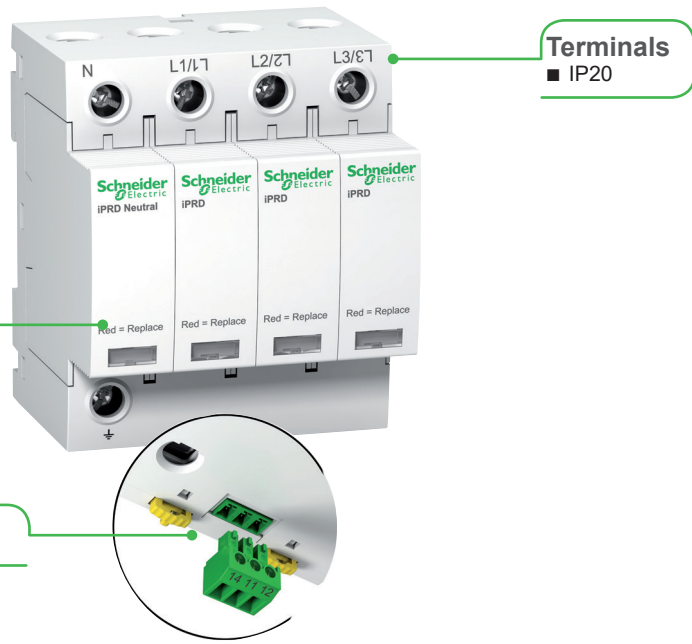
A9MEM3355

Description	Reference
A9MEM3100	iEM3100 basic energy meter
A9MEM3110	iEM3110 energy meter with pulse output
A9MEM3115	iEM3115 multi-tariff energy meter
A9MEM3135	iEM3135 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port
A9MEM3150	iEM3150 energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3155	iEM3155 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3165	iEM3165 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3175	iEM3175 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port
A9MEM3200	iEM3200 basic energy meter
A9MEM3210	iEM3210 energy meter with pulse output
A9MEM3215	iEM3215 multi-tariff energy meter
A9MEM3235	iEM3235 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port
A9MEM3250	iEM3250 energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3255	iEM3255 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port
A9MEM3265	iEM3265 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3275	iEM3275 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port
A9MEM3300	iEM3300 basic energy meter
A9MEM3310	iEM3310 energy meter with pulse output
A9MEM3335	iEM3335 advanced multi-tariff energy meter & electrical parameter plus M-Bus comm port
A9MEM3350	iEM3350 energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3355	iEM3355 advanced multi-tariff energy meter & electrical parameter plus Modbus RS485 comm port
A9MEM3365	iEM3365 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3375	iEM3375 advanced multi-tariff energy meter & electrical parameter plus LON TP/FT-10 comm port
A9MEM3455	iEM3455 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3465	iEM3465 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port
A9MEM3555	iEM3555 advanced multi-tariff energy meter & electrical parameter plus Modbus RS-485 comm port
A9MEM3565	iEM3565 advanced multi-tariff energy meter & electrical parameter plus BACnet MS/TP comm port

iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters

PB 1102281-80
iPRD surge arresters



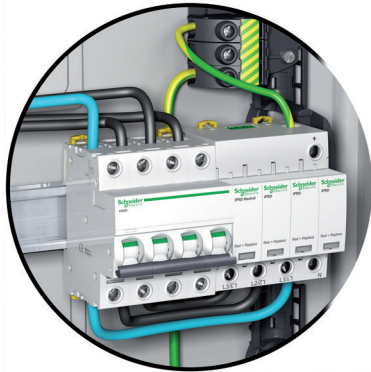
Terminals
■ IP20

Satisfactory operation indication
■ By mechanical indicator
□ white: operating
□ red: cartridge must be replaced

■ Transfer to Acti 9 Smartlink

Connection iPRD surge arrester with its short circuit disconnecter

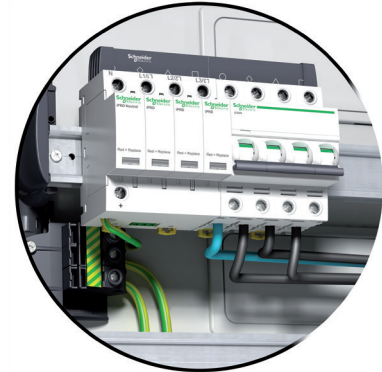
TT / TN-S
Power supply through the top
Connection with cables



Surge arrester iPRD 3P+N + iC60N 3P+N

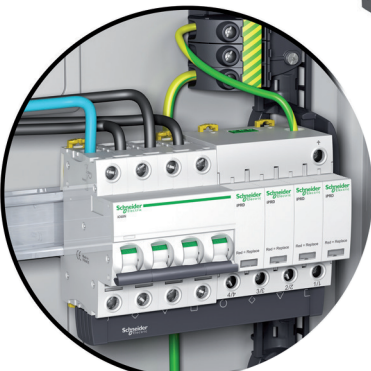
Reversible
■ The surge arrester base can be turned over to allow the phase/neutral/earth cables to enter through either the top or the bottom

TT / TN-S
Power supply through the bottom
Connection with comb busbar



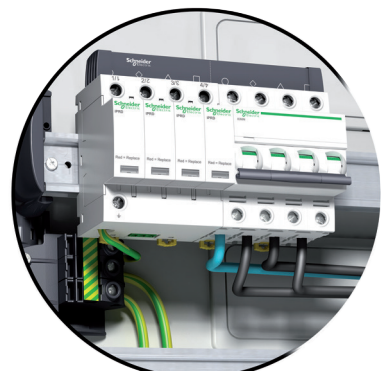
Surge arrester iPRD 3P+N + iC60N 3P+N

IT/TNC-S with neutral
Power supply through the top
Connection with comb busbar

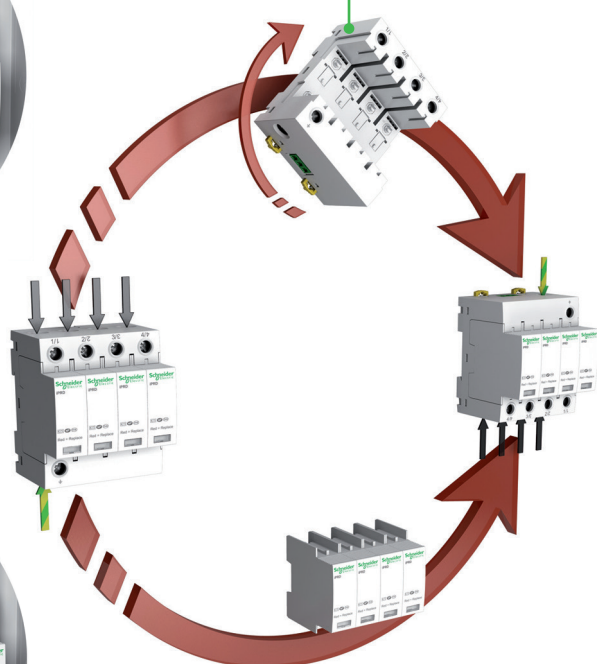


Surge arrester iPRD 4P + iC60N 4P

IT/TNC-S with neutral
Power supply through the bottom
Connection with comb busbar



Surge arrester iPRD 4P + iC60N 4P



iPRD surge arresters

iPRD withdrawable surge arresters allow quick replacement of damaged cartridges.

- Type 1 surge arresters meet the normative withstand capability of current wave type 10/350 µs.
- Type 2 surge arresters meet the normative withstand capability of current wave type 8/20 µs.
- Type 3 surge arresters meet the normative withstand capability of combined wave type 1.2/50 µs and 8/20 µs.



A9L65601



A9L40600



A9L20601



A9L08601



A9L16382

Reference	Pole Configuration	Rated discharge current (I _{max})	Nominal discharge current (I _n)	Earthing system
iPRD65				
A9L65601	3P+N	65 kA Very high risk level (strongly exposed site)	20 kA	TT & TN-S
iPRD40				
A9L40600	3P+N	40 kA High risk level	15 kA	TT & TN-S
A9L40401	4P			TN-C-S
iPRD20				
A9L20601	3P+N	20 kA Medium risk level	5 kA	TT & TN-S
A9L20600	3P+N			TT & TN-S
iPRD8				
A9L08601	3P+N	8 kA Secondary protection: placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester	2.5 kA	TT & TN-S
A9L08600	3P+N			TT & TN-S

Surge arrester/circuit breaker association			
Surge arrester	Associated circuit breaker		
	iPRD		iPRD IT
	I _{sc} ≤ 25 kA	I _{sc} ≤ 50 kA	I _{sc} (IT 400 V AC) ≤ 5 kA
iPRD65	Curve C 50 A	Curve C 63 A	Curve C 25 A
iPRD40	Curve C 40 A	Curve C 63 A	Curve C 20 A
iPRD20	Curve C 20 A	Curve C 63 A	Curve C 10 A
iPRD8	Curve C 10 A	Curve C 63 A	Curve C 10 A

Reference	Pole Configuration	Rated discharge current (I _{max})	Nominal discharge current (I _n)	Earthing system
iPRD1 12.5r				
A9L16382	3P	50 kA	20 kA	TN-C
A9L16482	3P+N			TT & TN-S

Surge protection kits for separate installation

Each kit is supplied with:

- iPRD surge arrester
- Correctly rated 4 pole iC60H disconnection miniature circuit breaker
- Distributed neutral bar and SEA9NKIT connection
- Insulated high IP rated enclosure with transparent cover and lock
- L1, L2, L3, N, E connecting cables



PRD3PN40R

Surge protection kits		
Catalogue number	Type	Number of poles
PRD3PN40	Type 2	Surge Arrester 40 kA 3P+N
PRD3PN40R	Type 2	Surge Arrester 40 kA 3P+N
PRD3PN65R	Type 2	Surge Arrester 65 kA 3P+N
PRD3PN8	Type 2	Surge Arrester 8 kA 3P+N

Timers, Time and Twilight switches (DIN rail mounted)

Time Switches - Digital



CCT15441

Part Number	Description
CCT15441	IHP 1C w (45 mm)
CCT15443	IHP 2C w (45 mm)
CCT15551	IHP+ 1C SMARTw (45 mm)
CCT15553	IHP+ 2C SMARTw (45 mm)
CCT15854	IHP 1C 18 mm Digital Timer
CCT15838	IHP+ 1C 18 mm Digital Timer
CCT15910	ITA 1C 36 mm Digital Timer Yearly
CCT15940	ITA 1C 36 mm Digital Timer Yearly

Time Switches - Mechanical



CCT15338

Part Number	Description
CCT15338	IH 60m 1C 54 mm Mech Timer
CCT16364	IH 24h 1C 54 mm Mech Timer
CCT15365	IH 24h 1C Res 54 mm Mech Timer
15337	IH 24h 2C Res 54 mm Mech Timer
15366	IH 24h7d 1+1C Res 54 mm Mech Timer
CCT15367	IH 7d 1C Res 54 mm Mech Timer
15335	IH 24h 1C 18 mm Mech Timer
15336	IH 24h 1C Res 18 mm Mech Timer
15331	IH 7d 1C Res 18 mm Mech Timer

Timers



CCT15232

Part Number	Description
15363	MIN time switch 1-7 mins (delayed off)
CCT15232	MINs timer 0.5 - 20 min
CCT15233	MINp delay off timer 50% warning
CCT15234	MINt off warning, impulse relay
15359	MIN timer terminal shield

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Twilight Switches



CCT15494

Part Number	Description
CCT15494	IC100kp+ 1C SMART
CCT15495	IC100kp+ 2C SMART
CCT15225	IC Astro 1C SMART
CCT15245	IC Astro 2C SMART
CCT15482	IC100
CCT15285	IC2000d indoor (18 mm)
CCT15369	IC2000d outdoor (18 mm)
CCT15483	IC2000p+

Accessories



CCT15262

Part Number	Description
CCT15262	Indoor analogue light sensor cell
CCT15263	O/door analogue light sensor cell
CCT15260	Digital add-on sensor (external)
CCT15261	Digital build-in sensor (switch board)
CCT15860	IHP+ key programming tool - PC
CCT15861	IHP+ programming key
CCT15950	ITA programming tool
CCT15955	ITA programming key
CCT15970	ITA GPS Antenna

Acti9 Isobar P three phase accessories

General accessories

Reference No	Description	Hybrid Active Boards	Standalone Active Boards	Standard Boards/ Meter ready Boards/Split metered	Heavy duty Borads	Extension Enclosure and others
SEA9XPH114	Active AFDD Comb Busbar 1P+N, 14 outgoing modules, 100A	X	X	X	X	√
SEA9XPH312	Active AFDD Comb Busbar 3P+N, 12 outgoing modules, 100A	X	X	X	X	√
SEA9PNBOOTS	Active AFDD Enclosure Pan Tooth Cap, Set of 20	√	√	√	√	X
SEA9PN2WL	Active AFDD Enclosure Way Labels - 24 ways	√*	√	X	X	X
SEA9P125SPKIT	B Board 125A Single phasing kit 4 pole*	√	√	√	√	X
SEA9250SPEV	B Board 250A Single phasing kit 4 pole	√	X	√	X	X
SEA9BL	Isobar P - Door Lock	√	√	√	√	√
SEA9PD	Isobar P - Padlock Kit for Door	√	√	√	√	√
SELACK	15mm padlock common key	√	√	√	√	√
SELADK	15mm padlock different key	√	√	√	√	√
SEA9BP	DIN Rail mounted Blank Pole - 1P	√*	X	√	√	√
SEA9BP3	Blank Pole filler 3 Modules	√	√	√	√	√
SEA9TB1001	Terminal Block 100A 1P	√*	X	√	√	√
SEA9BNWL	TP&N label - 24 ways	√*	X	√	√	X
SEA9NEK1	Extra earth terminal bar 14 holes	√	√	√	√	√
SEA9NEK2	Extra earth terminal bar 20 holes	√	√	√	√	√
SEA9NEK3	Extra earth terminal bar 26 holes	√	√	√	√	√
SEA9BN63SPL	Split Load kit 63amp	√	√	√	X	X
SEA9BNSJKN	B Board side joining kit	√	√	√	X	√
SEA9BNTJKB	B Board Top/bottom kit replacing gland plate	√	√	√	X	√
SEA9BNTJKA	Top / Bottom joining kit for Enclosure>Extension>Enclosure	√	√	√	X	√
SEA9BNTJKN	B Board Joining Kit for Top / Bottom	√	√	√	X	√
SEA9BNBCE25	Clean Earth B Board 25 Holes	√	√	√	√	√
SEA9BNC	Isobar P - B Board Neutral Shroud (Spare)	√	X	√	√	X
SEA9ISOKEY	Isobar P - Pack of 5 Disconnecter switch Keys	√	√	√	√	X
SEA9BGPEXN	Gland Plate for B Board Extension	√	√	√	X	√
SEA9FCF	Pack of 24 fixing screws for Isobar P distribution boards	√	√	√	√	√
SEA9BNGPN	B board top/bottom gland	√	√	√	X	√
SEA9BNGPNKO	B board top/bottom gland with knockouts	√	√	√	X	√
SEA9BNSGPN	B board Slotted gland plate	√	√	√	X	√
SEA9ISOPLA	Isobar Slider padlock attachment	√	√	√	X	X
SEK33	Isobar P - Spare key	√	√	√	X	√
SESDC	Isobar P - Spare door catch	√	√	√	X	√



SEA9250SPEV



SEA9BL



SEA9BP



SEA9ISOPLA



SEA9BP3



SEA9BNSJKN



SEA9BNTJKB



SEA9BNTJKA



SEA9BNTJKN



29370

Accessories for devices

Reference No	Description	AFDD	RCBO	MCB	MCCB-NSX
SEA9LA	Pack of 3 padlock attachment for MCB & AFDD	√	X	√	X
A9A27049	Pack of 10 padlock attachment for RCBO	X	√	X	X
29370	Pack of 3 padlock for NSX toggle OFF position	X	X	X	√

*Refer to Instruction Sheet for more details or contact customer care.

Distributed neutral kits



SEA9NA27

Part Reference	Description	No of Ways
SEA9NB4	Distributed neutral kit for 4 way TP&N	4
SEA9NB6	Distributed neutral kit for 6 way TP&N	6
SEA9NB8	Distributed neutral kit for 8 way TP&N	8
SEA9NB12	Distributed neutral kit for 12 way TP&N	12
SEA9NB16	Distributed neutral kit for 18 way TP&N	18
SEA9NB24	Distributed neutral kit for 24 way TP&N	24
SEA9NKIT	Phase to Neutral coversion kit (pack of 4)	

- These kits allow you to distribute and control the neutral through the board for 4 outgoing circuits.
- Note : These kits are not compatible on Active AFDD distribution boards

Top or bottom extension enclosures (height 270 mm)

For use with Acti9 Isobar P B Type distribution boards, used for additional wiring space or to house din rail mounted equipment



SEA9BNEX034N

Part Reference	Description
SEA9BNEXN	Plain front cover for additional wiring space
SEA9BNEX034N	Mounting of DIN devices, overall door and cutout for 17x18 mm poles
SEA9BNEXA14N	Single phase add on distribution Board 14 ways

- Select joining kits when adding extension enclosures to main distribution board.

Side extension enclosures



SEA9BN4SXS

Part reference	Description	No of Rows	Total 18mm SP Ways	Same Dimensions as:
SEA9BN4SXS	Slotted Front Cover & Overall Door	2	34	SEA9BPN4
SEA9BN8SXS	Slotted Front Cover & Overall Door	2	34	SEA9BPN8
SEA9BN12SXS	Slotted Front Cover & Overall Door	3	51	SEA9BPN12
SEA9BN16SXS	Slotted Front Cover & Overall Door	4	68	SEA9BPN16
SEA9BN24SXS	Slotted Front Cover & Overall Door	5	85	SEA9BPN24
SEA9BN4SXP	Plain Front Cover & Overall Door	2	34	SEA9BPN4
SEA9BN8SXP	Plain Front Cover & Overall Door	2	34	SEA9BPN8
SEA9BN12SXP	Plain Front Cover & Overall Door	3	51	SEA9BPN12
SEA9BN16SXP	Plain Front Cover & Overall Door	4	68	SEA9BPN16
SEA9BN24SXP	Plain Front Cover & Overall Door	5	85	SEA9BPN24

- Select joining kits (SEA9BNSJKN or SEA9BNTJKN) when adding extension enclosures to main distribution board.

Acti 9 Isobar P Connected Products

Connect you Acti9 Isobar and Isobar P distribution board using wireless connectivity to see the power and optimise the use of your assets with Facility Expert our simple on-line services platform.

Acti9 iC60H RCBO Powertag wireless sensors

Rated at 63A it assembles on to Acti9 iC60 RCBOs optimising asset management through real time monitoring and alarming of V, I, P, PF and loss of voltage.



A9MEM1563

Part Reference	Type	Type of mounting
A9MEM1563	1PN	Bottom of RCBO

Acti9 iC60H Powertag wireless sensors

Rated at 63A it assembles on to Acti9 iC60 mcbcs optimising asset management through real time monitoring and alarming of V, I, PF, kWh and loss of voltage.



A9MEM1520

Part Reference	Type	Type of mounting
A9MEM1520	Acti9 Powertag 1PN	Top or bottom of mcb
A9MEM1521	Acti9 Powertag 1P+N	Top of mcb
A9MEM1522	Acti9 Powertag 1P+N	Bottom of mcb
A9MEM1540	Acti9 Powertag 3P Max 63 A	Top or bottom of mcb
A9MEM1541	Acti9 Powertag 3P+N	Top of mcb
A9MEM1542	Acti9 Powertag 3P+N	Bottom of mcb

Acti9 Isobar Ready to Install Powertag extension kit

Compatible with all three phase distribution boards it contains an SiD Din Smartlink wireless concentrator, power and neutral reference terminals and Ethernet connection. It has wireless connectivity for up to 20 Powertag wireless energy sensors.



A9PTGEXTNP

Part Reference	Description
A9PTGEXTNP	Wireless connectivity for up to 20 Powertag
A9PTGEXTNPHD	Wireless connectivity for up to 100 PowerTag

- Includes 270 mm extension enclosure to fit top or bottom of distribution board.

Acti9 Isobar Ready to install Powertag retrofit side extension kit

Capable of retrofit adaptation to all Acti9 Isobar three phase distribution boards it contains an SiD Din Smartlink wireless concentrator, power and neutral reference terminals and Ethernet connection. It has wireless connectivity for up to 20 Powertag wireless energy sensors.



A9PTGRK

Part Reference	Description
A9PTGRK	Wireless connectivity for up to 20 Powertag

- Includes extension enclosure of width of 135 mm and height of 323 mm to fit side of distribution board

Distribution Board

Incomer

Outgoing Devices

Complimentary Devices

Accessories

Connectivity

Acti 9 Isobar P Connected Products

Acti9 Isobar three phase distribution board Powertag for incomers

Rated at 250A or 630A the Compact NSX PowerTag wireless energy sensor assembles on to the bottom of a 3P or 4P MCCB (100A to 250A) or switch disconnecter (160A to 250A) optimising asset management through monitoring and alarming of V, I, P, PF and loss of voltage.



LV434021

Part Reference	Description
LV434020	250A NSX MCCB PowerTag 3P
LV434021	250A NSX MCCB PowerTag 3P+N

Acti9 Isobar distribution board Gateway

Compatible with all distribution boards, the Gateway has wireless connectivity for up to 100 PowerTag wireless energy sensors.



A9XMWA20



PAS600L

Part Reference	Description
A9XMWD20	PowerTag Link RF to IP gateway
A9XMWD100	PowerTag Link HD RF to IP gateway
PAS600L	Panel Server - Universal wireless, concentrator modbus gateway 24 V DC
PAS600T	Panel Server - Universal wireless, concentrator modbus gateway 110-240 V AC/DC
PAS800	Panel Server Advanced with 100-277 V AC/DC power supply
PAS800L	Panel Server Advanced with 24 V DC power supply
PAS800P	Panel Server Advanced with PoE power supply

Acti9 PowerTag digital I/O modules

These wireless input/output modules allow circuit control and status monitoring. Designed for use in commercial and building applications, they quickly and easily turn your distribution board into a connected panel.



A9XMC1D3

Part Reference	Description
A9XMC1D3	PowerTag C IO 230 V
A9XMC2D3	PowerTag 2DI 230 V

Acti9 Isobar P Technical Data



Acti9 Isobar P A type distribution boards

BS EN 61439-3 | IEC 61439-3

- Acti9 Isobar is a complete range of single-phase distribution boards for commercial and industrial applications
- Any outgoing way can be converted to switch the Neutral
- Fully type tested conditional short circuit rating of 16 kA to BS EN 61439-3
- High performance MCB 10 kA BS EN 60898 15 kA BS EN 60947-2 in B, C or D curve single and double pole
- 125 A busbar rating*
- Isobar disconnection to BS EN 60947-3 ensuring unused outgoing ways are isolated
- Option of switching outgoing neutral on all boards using distributed neutral kit
- Terminal block for feeding up to 100 A
- Range of incomers: switch disconnectors, Residual Current Devices, terminal blocks
- Single pole wireless RCBO
- Single pole wired RCBO
- Active AFDD
- Full IP2X internal shrouding
- Full range of device accessories and auxiliaries
- Knockouts for cable gland and conduit mixed to suit the installation needs without loss of space
- Split metering options
- Connectivity with MCB and RCBO single phase wireless energy sensors
- Connectivity with all-in-one AFDD

Technical data Standard, Multi service, Split load, Dual incomer, Split metered Acti9 Isobar



Main characteristics		Type A type distribution boards		
Main Busbar Current Rating (In)		125 A		
Rated operational voltage (Ue)		110 V ; 230/240 V		
Rated frequency		50/60 Hz		
Rated Insulation voltage (Ui)		500 V		
Rated impulse withstand voltage (Uimp)		6 kV		
Rated Conditional Short circuit Current Rating (Icc)		10 kA*		
Pollution degree		3		
Degree of protection		IP3X External , Door closed		
		IP2X Internal		
Endurance (O-C) Isobar switch disconnector		3000		
Overvoltage category		IV		
Operating temperature*		-35 to +70 °C		
Storage teperature		-40 to +80 °C		
Connections				
Rating in amp	Tightening torque	Copper lugs	Cables bare	Device
125 A	3.5 Nm	■	50 mm ²	DIN switch disconnector
125 A	3.5 Nm	■	50 mm ²	Terminal block
100 A	3.5 Nm	■	35 mm ²	RCCB

* For typical assembly configuration ratings (I_{nA}) with incomers fitted consult us

Acti9 Isobar P B type distribution boards

BS EN 61439-3 | IEC 61439-3

- Acti9 Isobar P distribution board is a three phase distribution boards for commercial and industrial applications
- Fully type tested conditional short circuit rating up to 25 kA to BS EN 61439-3
- Up to 250 A busbar rating*
- Any outgoing way can be converted to switch the Neutral in Standard, Meter ready , Split metered & Heavy duty Board
- Isobar disconnection to BS EN 60947-3 ensuring unused outgoing ways are isolated
- Terminal block for feeding up to 100 A for outgoing ways
- Range of incomers: switch disconnectors, residual current devices, terminal blocks, MCCB
- Range of outgoers :
 - All in One AFDDs with inbuilt connectivity
 - PoN RCBOs for quick and easier installations
 - High performance MCB
- Full IP2X internal shrouding Isobar P
- Full range of device accessories and auxiliaries
- Knockouts for cable gland and conduit mixed to suit the installation needs without loss of space
- Removable insulated pan assembly
- Fully shrouded neutral
- Split neutral bars
- Removable gland plates
- Optional metering, dual supply and contactor on incoming
- Metered extension enclosures
- Connectivity with MCB, RCBO, AFDD and MCCB Powertag wireless energy sensors

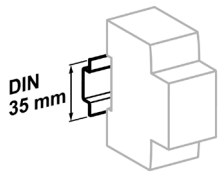
Technical data : Acti9 Isobar P distribution boards



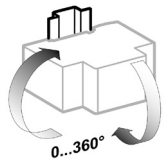
Main characteristics	Hybrid Active AFDD Boards	Standalone Active AFDD Boards	Standard , meter ready, split metered Boards	Heavy Duty Boards
Main Busbar Current Rating (In)	250 A	125 A	250 A (125A for Meter Ready)	125 A
Rated operational voltage (Ue)	230/240 V ; 400V/415 V	230/240 V ; 400V/415 V	230/240 V ; 400V/415 V	230/240 V ; 400V/415 V
Rated frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated Insulation voltage (Ui)	500 V	500 V	500 V	500 V
Rated impulse withstand voltage (Uimp)	6 kV	6 kV	6 kV	6 kV
Busbar Short circuit Withstand Rating at 230/240V ; 400V/415V UnConditional (Icw)	25 kA/100 ms	25 kA/100 ms	25 kA/100 ms	25 kA/100 ms
	17 kA/200 ms	17 kA/200 ms	17 kA/200 ms	17 kA/200 ms
Rated Conditional Short circuit Current Rating (Icc)	25 kA*	16 kA*	25 kA*	25 kA*
Pollution degree	3	3	3	3
Degree of protection	IP3X External , Door closed	IP3X External , Door closed	IP3X External , Door closed	IP55 External , Door closed
	IP2X Internal	IP2X Internal	IP2X Internal	IP2X Internal
Mechanical Endurance (O-C) Isobar off-load switch	3000	3000	3000	3000
Overvoltage category	IV	IV	IV	IV
Operating temperature*	-35 to +70 °C	-35 to +70 °C	-35 to +70 °C	-35 to +70 °C
Storage temperature	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C

* For typical assembly configuration ratings (I_{nA}) with incomers fitted consult us

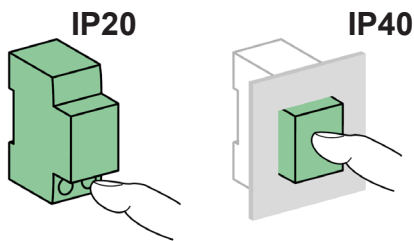
Acti9 Active Arc Fault Detection Device



Clip on DIN rail 35 mm.



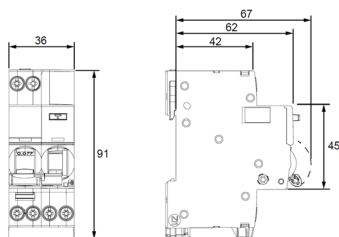
Indifferent position of installation.



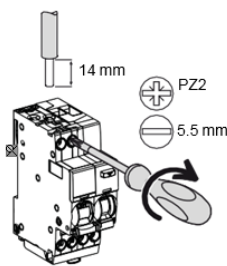
Technical data

Main characteristics						
Tripping time/arc current value with $U_n = 230\text{ V AC}$ (to IEC/BS EN 62606)	Arc current	2.5 A	5 A	10 A	16 A	40 A
	Max. operating time	1 s	0.5 s	0.25 s	0.15 s	0.12 s
Overvoltage time limits	Voltage (V AC)	255	275	300	350	400
	Max. operating time	No tripping	15 s	5 s	0.75 s	0.20 s
	Min. non-response time		3 s	1 s	0.25 s	0.07 s
Insulation voltage (U_i)		250 V AC				
Starting current I_{st}		100 mA				
According to BS EN IEC 61009-2-1						
Limitation class		3				
Rated breaking capacity (I_{cn})		10,000 A				
Service breaking capacity (I_{cs})		100 % I_{cn}				
Rated breaking and making capacity on a single pole (I_{cn1})		3000 A				
Magnetic tripping		C curve	5 to 10 In			
8/20 μs impulse withstand without tripping		A-SI type	3 kA			
Behaviour in case of voltage drop			Residual current protection down to 0 V according to BS EN IEC 61009-2-1 § 3.3.8			
Operating temperature		30 °C				
According to BS EN IEC 60947-2						
Rated impulse withstand voltage (U_{imp})		4 kV				
Breaking capacity (I_{cu})		10 kA				
Service breaking capacity (I_{cs})		$\leq 25\text{ A}$	75 % I_{cu}			
		32 A	50 % I_{cu}			
Magnetic tripping		C curve	8 In $\pm 20\%$			
Operating temperature		50 °C				
Degree of pollution		2				
Radio-frequency communication						
ISM band 2.4 GHz		2.4 GHz to 2.4835 GHz				
Channels		As per IEEE 802.15.4	11 to 26			
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm			
Maximum transmission time		< 5 ms				
Channel occupancy		Messages sent every	5 seconds minimum			
Additional characteristics						
Degree of protection		Unit alone	IP20			
		Unit in a modular enclosure	IP40 Insulation class II			
Endurance (O-C)		Electrical $\leq 25\text{ A}$	20,000 cycles			
		32 A	10,000 cycles			
		Mechanical	20,000 cycles			
Operating temperature			-25 to +60 °C			
Storage temperature		-40 to +85 °C				
Tropicalization (to IEC/BS EN 62606)		Severity B (to IEC/BS EN 60068-2-30) during 28 days				

Dimensions (mm)



Connection



Tightening torque	Copper cables only	
	Rigid	Flexible or with ferrule
2 N.m		
	1 x 1 to 16 mm ²	1 x 1 to 10 mm ²

Weight (g)

Arc fault detection device	
Type	Acti9 Active
1P+N	220

Acti9 Arc Fault Detection Device - iARC

VISI-TRIP window

- Arc and overvoltage fault tripping are indicated by a red mechanical indicator

Multi-function button

- For device test
- For diagnosis reset

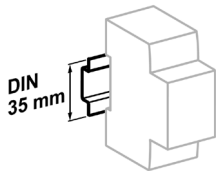
VISI-SAFE window

Positive contact indication

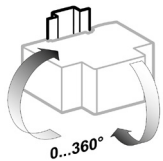
- A green strip on the toggle indicates full opening of all the poles
- Padlocking possible

Diagnosis LED

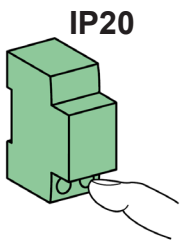
- Tripping faults diagnosis by LED



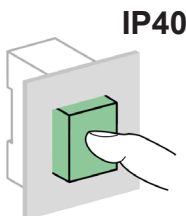
Clip on DIN rail 35 mm.



Indifferent position of installation.

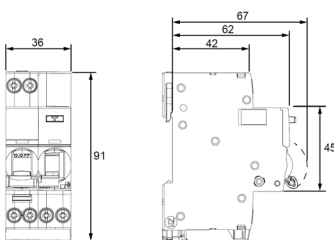


IP20



IP40

Dimensions (mm)



Technical data

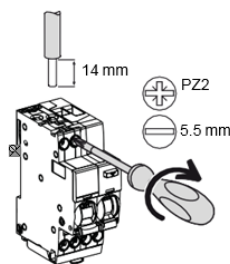
Main characteristics

Tripping time/arc current value with $U_n = 230 \text{ V AC}$ (to IEC/BS EN 62606)	Arc current	2.5 A	5 A	10 A	16 A	40 A
	Max. operating time	1 s	0.5 s	0.25 s	0.15 s	0.12 s
Overvoltage time limits	Voltage (V AC)	255	275	300	350	400
	Max. operating time	No tripping	15 s	5 s	0.75 s	0.20 s
	Min. non-response time		3 s	1 s	0.25 s	0.07 s
Insulation voltage (U_i)		250 VAC				
Degree of pollution		2				
Rated impulse withstand voltage (U_{imp})		4 kV				
Rated making and breaking capacity (I_m)		500 A				
One pole rated making and breaking capacity (I_{m1})		500 A				
Overvoltage category		III				
Coordinated with an upstream circuit breaker	Max. rating	40 A				
	Curve	B or C				
	Rated breaking capacity	Up to 10,000 A				

Additional characteristics

Degree of protection	Unit alone	IP20
	Unit in a modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical $\leq 25 \text{ A}$	20,000 cycles
	40 A	10,000 cycles
	Mechanical	20,000 cycles
Operating temperature		-25 to +60 °C
Storage temperature		-40 to +85 °C
Tropicalization (to IEC/BS EN 62606)		Severity B (to IEC/BS EN 60068-2-30) during 28 days

Connection



Tightening torque	Copper cables only	
	Rigid	Flexible or with ferrule
2 N.m	1 x 1 to 16 mm ²	1 x 1 to 10 mm ²

Weight (g)

Arc fault detection device	
Type	Acti9 iARC
1P+N	210

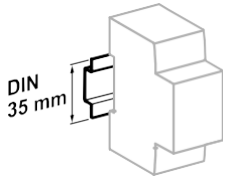
Acti9 iC60H circuit breakers (curve B, C, D)



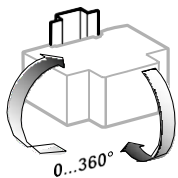
Increased product service life thanks to:

- Overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage)
- High performance limitation (see limitation curves)
- Fast closing independent of the speed of actuation of the toggle
- Remote indication, open/closed/tripped, by optional auxiliary contacts
- Top or bottom electrical feeding

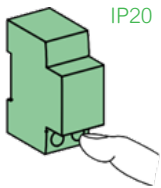
Acti9 iC60H circuit breakers (curve B, C, D)



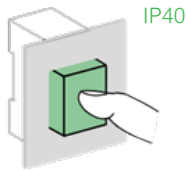
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20

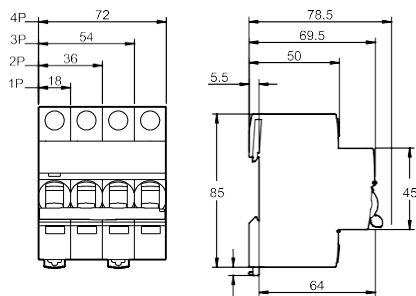


IP40

Technical data

Main characteristics		
According to IEC/EN 60947-2		
Insulation voltage (Ui)	500 VAC	
Pollution degree	3	
Rated impulse withstand voltage (Uimp)	6 kV	
Thermal tripping	Reference temperature	50 °C
Magnetic tripping	B curve	4 In ± 20 %
	C curve	8 In ± 20 %
	D curve	12 In ± 20 %
Utilization category	A	
According to IEC/EN 60898-1		
Limitation class	3	
Rated making and breaking capacity of an individual pole (Icn1)	Icn1 = Icn	
Additional characteristics		
Breaking capacity under 1 pole with IT 380-415 V isolated neutral system (case of double fault)	40 A	4 kA
	50/63 A	3 kA
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40 Insulation classe II
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)	IV	
Operating temperature	-35 to +70 °C	
Storage temperature	-40 to +85 °C	
Tropicalization (IEC 60068-1)	Treatment 2 (relative humidity 95 % to 55 °C)	

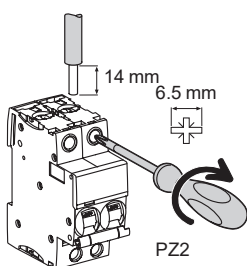
Dimensions (mm)



Weight (g)

Circuit breaker	
Type	iC60H
1P	125
2P	250
3P	375
4P	500

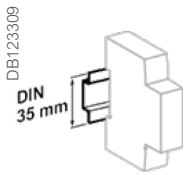
Connection



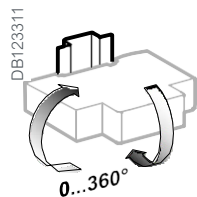
Rating	Tightening torque	Without accessory		With accessories			
		Copper cables Rigid	Copper cables Flexible or with ferrule	50 mm ² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal Rigid cables	Multi-cables terminal Flexible cables
1 to 25 A	2 N.m	DB122945	DB122946	DB122935	DB116789	DB116787	-
32 to 63 A	3.5 N.m	1 to 25 mm ²	1 to 16 mm ²	-	Ø 5 mm	-	-
		1 to 35 mm ²	1 to 25 mm ²	50 mm ²		3 x 16 mm ²	3 x 10 mm ²

Acti9 iC60H PoN RCBO 10, 30 and 100 mA

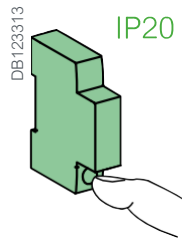
IEC 61009-1, IEC 61009-2-2, BS EN 61009-1 Type A 



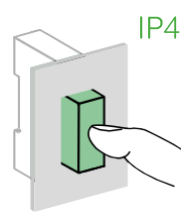
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

Weight (g)

iC60 RCBO	
iC60H PoN RCBO	156

VISI-TRIP window

■ Fault tripping is indicated by a red mechanical indicator on the front face

■ Test push-button

■ Strong FE blade

Positive contact indication

■ The presence of the green strip guarantees physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety

■ Robust neutral jaw

■ Padlocking device

■ Autolock locking clip

- Increased product service life thanks to fast closing independent of the speed of actuation of the toggle
- Remote indication, open/closed/tripped, by optional auxiliary contacts

Acti9 iC60H PoN RCBO 10, 30 and 100 mA

IEC 61009-1, IEC 61009-2-2, BS EN 61009-1 Type A 

The single-phase iC60H RCBO PoN's self-contained residual current device carries out complete protection of final circuits:

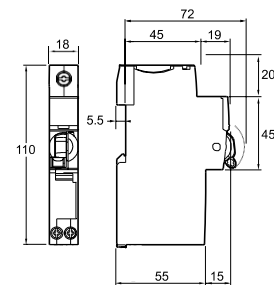
- Protection against short-circuits and cable overloads.
- Protection of persons against electric shock by direct contact (10, 30 mA sensitivities).
- Protection of persons against electric shock by indirect contact (100 mA sensitivity).
- Protection of equipment against fires set by leakage currents (100 mA sensitivity).
- The neutral is not interrupted when the device is tripped. Hence iC60H RCBO PoN can be used on most circuits, except for the ones operating under TT or IT earthing systems.
- iC60H RCBO PoN device carries out a quick and reliable plug on installation with FE blade and Neutral jaw.

Main characteristics		iC60H PON RCBO
Insulation voltage (Ui)		400 V AC
Rated impulse withstand voltage (Uimp)		4 kV
Rated residual operating current (IΔn)		10, 30, 100 mA
Magnetic tripping	B Curve	Between 3 and 5 in
	C curve	Between 5 and 10 in
Thermal tripping	Reference temperature	50 °C
Limitation class		3
Surge current withstand (8/20 μs) without tripping		250 A
Rated nominal breaking capacity (Icn)		10,000 A
Phase/earth rated residual breaking and making capacity (IΔm)		7,500 A

Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC 61009-1		
		Voltage (Ue)
Ph/N		240 V
Rating (In)	6 to 45 A	10000 A

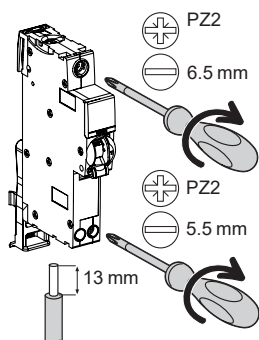
Additional characteristics		
Plug-on functional earth and neutral connection		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40 Insulation class II
Endurance (O-C)	Electrical	5,000 cycles
	Mechanical	20,000 cycles
Operating temperature		-15 to +60 °C
Storage temperature		-40 to +85 °C
Tropicalization		Treatment 2 (relative humidity: 95 % at 55 °C)



Dimensions (mm)



iC60H RCBO

Connection



Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible
Lin	6 to 45 A	3.5 N.m 2 N.m		
L out and N out			1 to 25 mm ²	1 to 16 mm ²
			1 to 16 mm ²	1 to 10 mm ²

Acti9 iC60H RCBO 10, 30 and 100 mA

IEC 61009-1, IEC 61009-2-2, BS EN 61009-1 Type A



The single phase iC60H RCBO's self contained Residual Current Device carries out complete protection of final circuits:

- Protection against short circuits and cable overloads
- Protection of persons against electric shock by direct contact (10, 30 mA sensitivities),
- Protection of persons against electric shock by indirect contact (100 mA sensitivity),
- Protection of equipment against fires set by leakage currents (100 mA sensitivity).
- The neutral is not interrupted when the device is tripped. Hence iC60H RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems when the neutral needs to be isolated.
- Increased product service life thanks to fast closing independent of the speed of actuation of the toggle.
- Remote indication, open/closed/tripped, by optional auxiliary contacts.



Insulated terminals IP20

Visi-Trip Window
Fault tripping is indicated by a red mechanical indicator on the front face

Positive contact indication

The presence of the green strip indicates physical opening of the contacts and allows operations to be performed on the downstream circuit with complete protection

Test push-button

Padlocking device



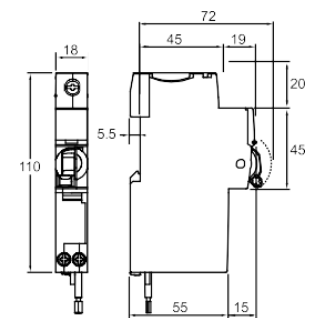
Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC 61009-1		
	Voltage (Ue)	
Ph/N	110 V	240 V
Rating (In)	6 to 45 A	10000 A

Technical data

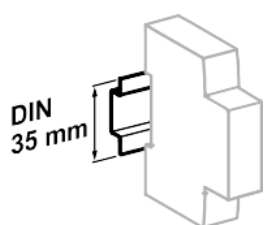
Main characteristics		iC60H RCBO
Insulation voltage (Ui)		400 VAC
Rated impulse withstand voltage (Uimp)		4 kV
Rated residual operating current (IΔn)		10, 30, 100 mA
Thermal tripping	Reference temperature	50 °C
Limitation class		3
Surge current withstand (8/20 μs) without tripping		250 A
Rated nominal breaking capacity (Icn)		10,000 A
Phase/earth rated residual breaking and making capacity (IΔm)		7,500 A
Additional characteristics		
Degree of protection	Device only	IP20
	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	5,000 cycles
	Mechanical	20,000 cycles
Operating temperature		-15 to +60 °C
Storage temperature		-40 to +85 °C
Tropicalization		Treatment 2 (relative humidity: 95 % at 55 °C)

• Please refer Connection table from iC60H PON RCBO for Torque and Cable connections details

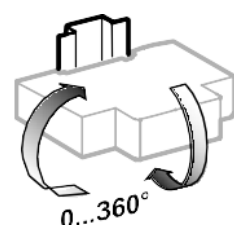
Dimensions (mm)



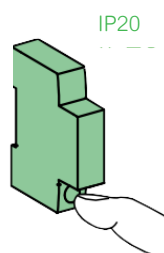
iC60H RCBO



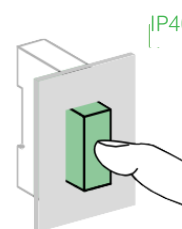
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

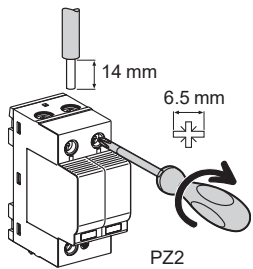
Weight (g)

iC60 RCBO	
iC60H RCBO	205

iPRD surge arresters

Type 2 or 3 LV withdrawable surge arresters

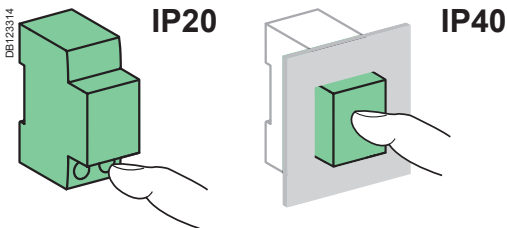
Connection iPRD surge arresters



Type	Tightening torque	Copper cables	
		Rigid	Flexible or with ferrule
iPRD	3.5 N.m	2.5 to 25 mm ²	4 to 16 mm ²

Technical data iPRD surge arresters

Main characteristics	iPRD	iPRD IT	
Operating frequency	50/60 Hz		
Operating voltage (U _e)	230/400 V AC ±10 %		
Permanent operating current (I _c)	< 1 mA		
Response time	< 25 ns		
Short circuit current rating (I _{sc})	50 kA (50 Hz)	-	
Short circuit current rating (I _{sc}), case of double fault	-	5 kA (50 Hz)	
Temporary overvoltage withstand (U _T)	U _T (L-N) U _T (L-PE)	337 V AC / 5 s 442 V AC / 120 min	337 V AC / 5 s
Temporary overvoltage	U _T (N-PE)	1200 V AC / 200 ms	1455 V AC / 200 ms
Safe failure mode (U _T)	U _T (L-PE)	1455 V AC / 200 ms	1455 V AC / 200 ms
Ground residual current (I _{FE})	I _{FE} (L-PE) I _{FE} (N-PE)	600 µA for 1P, 2P, 3P, 4P	-
Satisfactory operation indication:	White	In operation	
by mechanical indicator	Red	Cartridge must be replaced	
Remote indication of satisfactory operation		By contact NO, NC 250 V / 0.25 A	
Additional characteristics			
Degree of protection (IEC 60529)	Device only Device in modular enclosure	IP20 (built-in) IP40	
Operating temperature		-25 to +60°C	
Storage temperature		-40 to +85°C	
Humidity range		5 % to 95 %	
Type of connection terminals		Tunnel terminals, 2.5 to 35 mm ²	
Standards		IEC 61643-11: 2011 T2 , T3 and EN 61643-11: 2012 Type 2, Type 3	



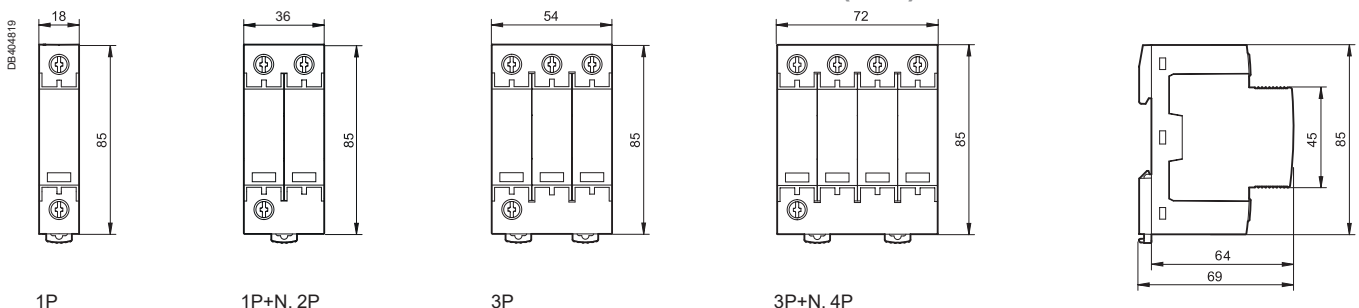
Weight (g)

Surge arrester	
Type	iPRD
1P	119
1P+N, 2P	220
3P	340
3P+N, 4P	450

Surge arrester/circuit breaker association

Surge arrester	Associated circuit breaker		iPRD IT
	iPRD		
	Isc y 25 kA	Isc y 50 kA	Isc (IT 400 V AC) y 5 kA
iPRD65	Curve C 50 A	Curve C 63 A	Curve C 25 A
iPRD40	Curve C 40 A	Curve C 63 A	Curve C 20 A
iPRD20	Curve C 20 A	Curve C 63 A	Curve C 10 A
iPRD8	Curve C 10 A	Curve C 63 A	Curve C 10 A

iPRD dimensions (mm)

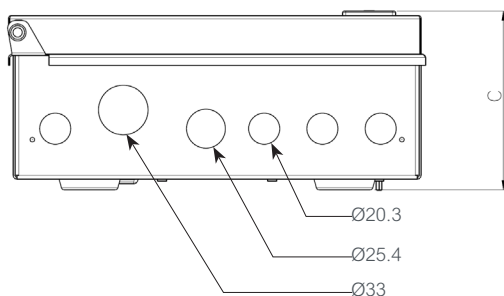
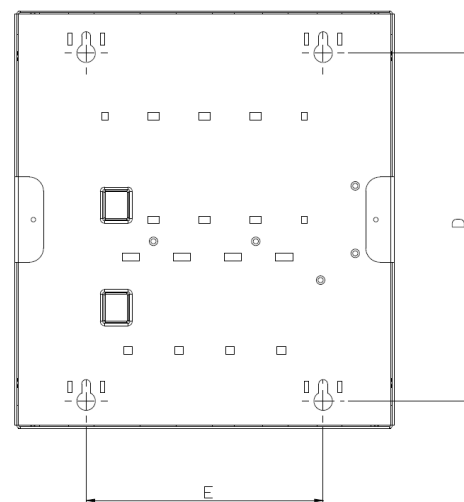
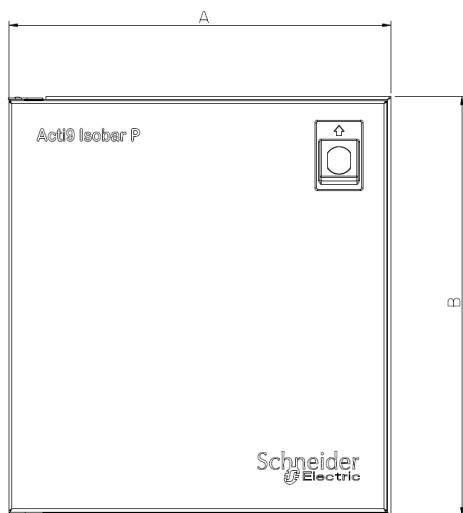


Acti9 Isobar P
dimension

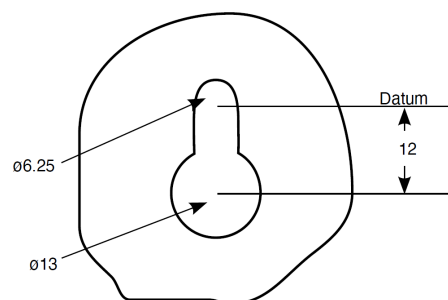


Acti9 Isobar A type Distribution Boards

Part number	A	B	C	D	E
SEA9APN2	200	300	117	245	114.8
SEA9APN6	273	300	117	245	166.8
SEA9APN10	345	300	117	245	238.8
SEA9APN14, SEA9APN616MS, SEA9APN108MS	417	300	117	245	310.8
SEA9APN18,SEA9APN6S6, SEA9APN624MS, SEA9APN1016MS, SEA9APN148MS	489	300	117	245	382.8
SEA9APN27, SEA9APN10S10, SEA9APN1432MS	417	570	117	515	310.8
SEA9APN14S14	470	700	140	602	380



Key hole slot dimensions



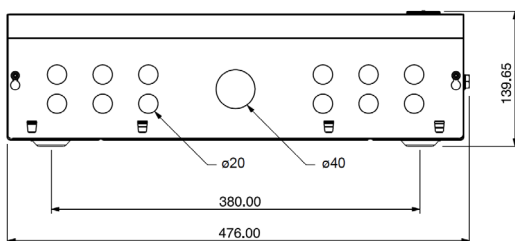
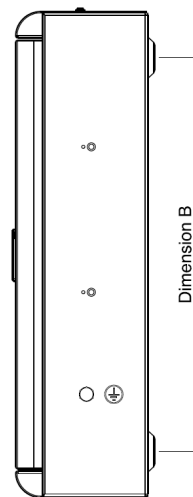
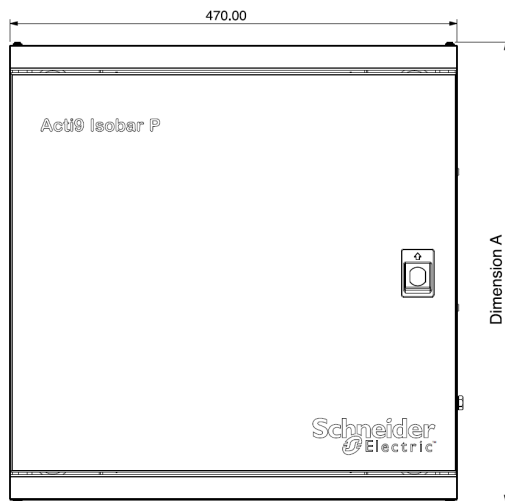
Acti9 Isobar B type Distribution Boards

Active AFDD Distribution Boards

Part number	A	B	Weight
SEA9BPNAFD12	538 mm	440 mm	11.2 Kg
SEA9BPN8AFD6	700 mm	602 mm	15.5 Kg
SEA9BPNAFD24	808 mm	710 mm	17.0 Kg
SEA9BPN14AFD6	862 mm	764 mm	18.2 Kg
SEA9BPN10AFD12	862 mm	764 mm	18.4 Kg
SEA9BPNAFD36	1024 mm	926 mm	22.8 Kg

Standard and Meter ready Board

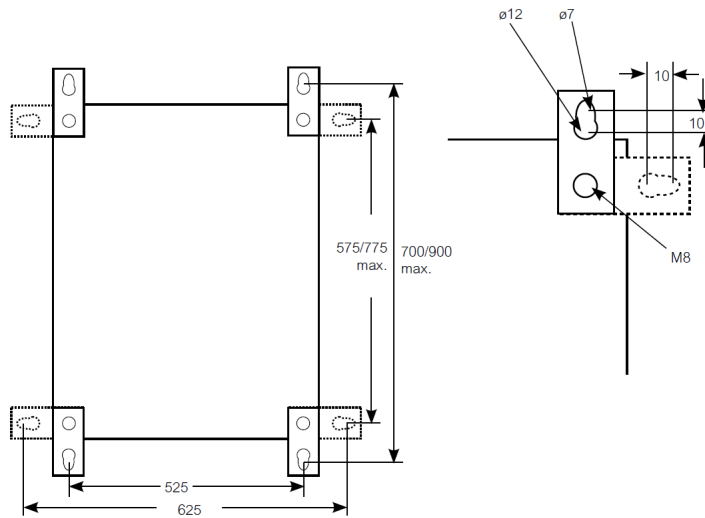
Part number	A	B	Weight
SEA9BPN4, SEA9BPN6, SEA9BPN6M	484 mm	386 mm	10.5 Kg
SEA9BPN8, SEA9BPN8M	538 mm	440 mm	11.0 Kg
SEA9BPN12, SEA9BPN12M	700 mm	602 mm	13.5 Kg
SEA9BPN16, SEA9BPN16M	808 mm	710 mm	16.0 Kg
SEA9BPN18, SEA9BPN18M	862 mm	764 mm	16.2 Kg
SEA9BPN24, SEA9BPN24M	1024 mm	926 mm	22.0 Kg



Heavy duty Distribution Board (125 A)

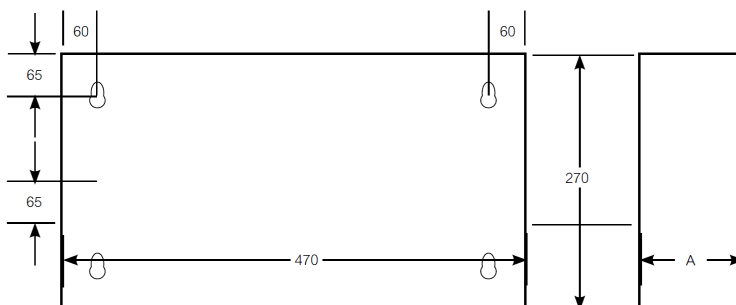
Part number	Number of TP ways	Dimensions (mm)			Weight
		Height	Width	Depth	
SEA9BPN6HDGK/G-R	6	650	600	290*	32.4 Kg
SEA9BPN8HDGK/G-R	8	650	600	290*	32.9 Kg
SEA9BPN12HDGK/G-R	12	850	600	290*	40.1 Kg
SEA9BPN16HDGK/G-R	16	850	600	290*	41.4 Kg

* Denotes the maximum depth dimensions with key fitted.



B board extension box enclosures	
Part number	A
SEA9BNEXN	124
SEA9BNEX034N	140
SEA9BNKWH	124
SEA9BNEXA14N	140
SEA9BN100CCI	140
SEA9PNDSI	124

* Not compatible with HDGR and HDGK heavy duty distribution board



Acti9 Isobar P - B Board metering

Dual metering extension enclosure

Part number	Dimensions (mm)			Weight
	Height	Width	Depth	
SEA9BNDM160SD	745	1147	139	22 Kg
SEA9BNDM200SD	745	1147	139	22 Kg
SEA9BNDM250SD	745	1147	139	22 Kg
SEA9BNDM160M	745	1147	139	22 Kg
SEA9BNDM200M	745	1147	139	22 Kg
SEA9BNDM250M	745	1147	139	22 Kg

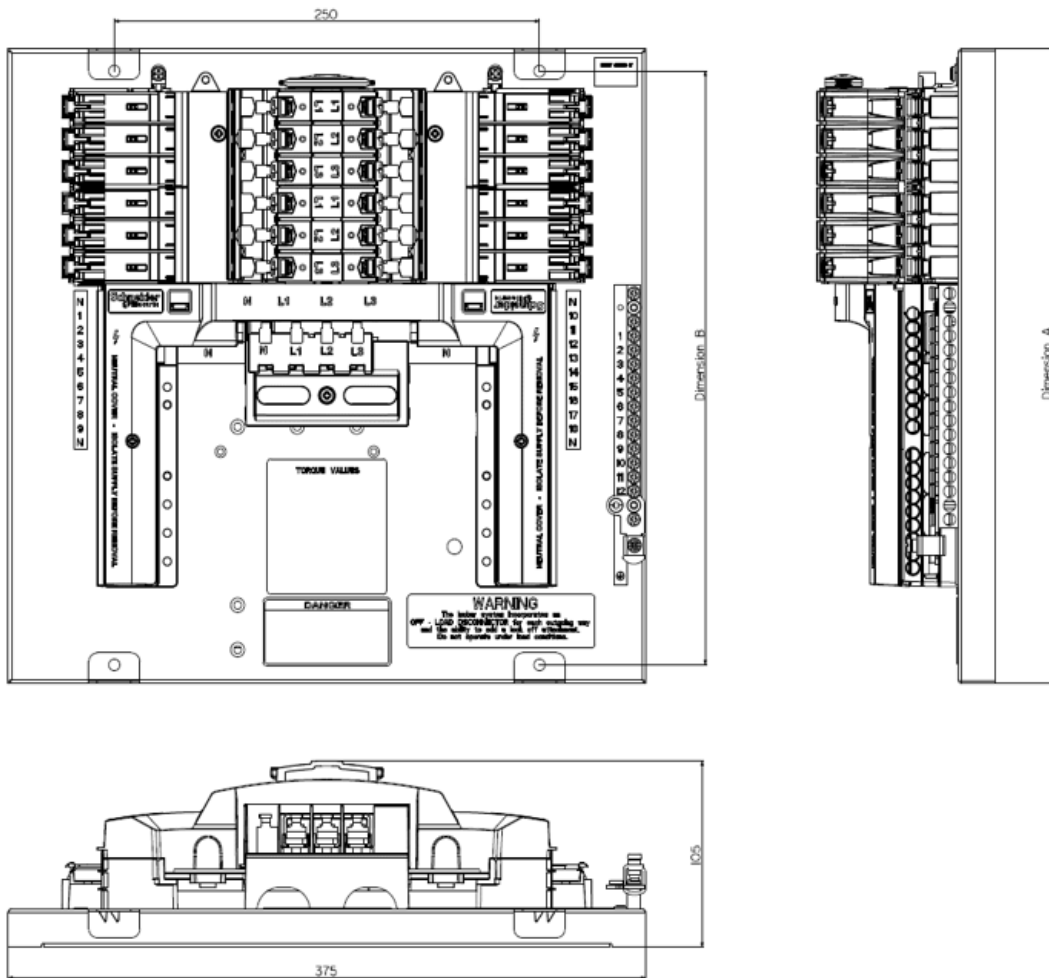
Split metered Distribution Boards

Part number	Dimensions (mm)			Weight
	Height	Width	Depth	
SEA9BPN1258S8	1294	470	139	28 Kg
SEA9BPN12514S8	1294	470	139	28 Kg
SEA9BPN12516S6	1294	470	139	28 Kg
SEA9BPN12518S4	1294	470	139	28 Kg
SEA9BPN2508S8	1694	470	139	32 Kg
SEA9BPN25014S8	1694	470	139	32 Kg
SEA9BPN25016S6	1694	470	139	32 Kg
SEA9BPN25018S4	1694	470	139	32 Kg

Isobar P – Pan Assembly

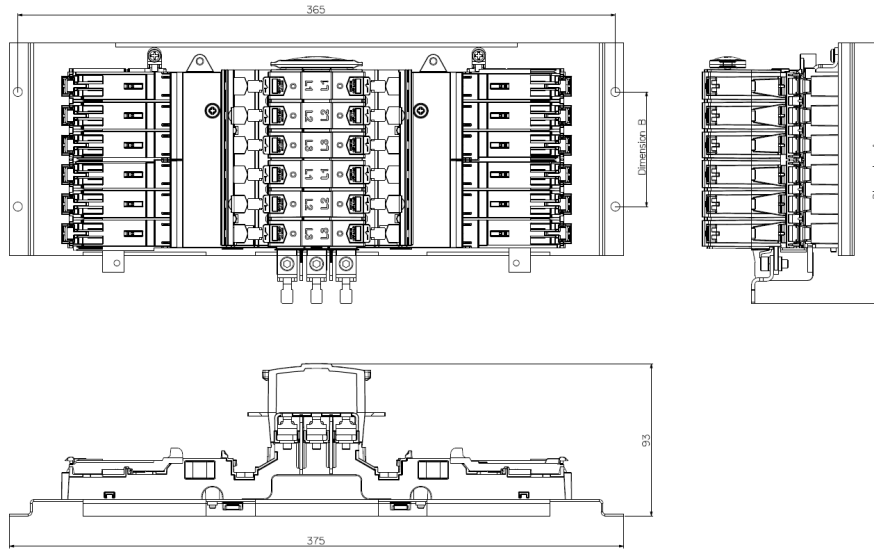
Pan Assembly with Neutral distribution

Part number	A	B	Weight
SEA9BPN4E	356 mm	333 mm	2.64 Kg
SEA9BPN6E	421 mm	400 mm	3.21 Kg
SEA9BPN8E	471 mm	450 mm	3.78 Kg
SEA9BPN12E	571 mm	550 mm	4.92 Kg
SEA9BPN16E	681 mm	650 mm	6.16 Kg
SEA9BPN18E	746 mm	725 mm	6.78 Kg
SEA9BPN24E	896 mm	875 mm	8.49 Kg



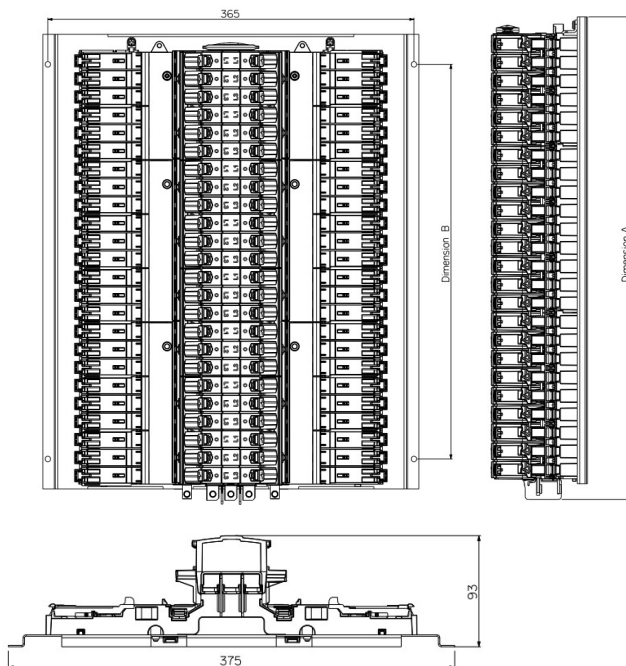
Pan Assembly without Neutral distribution

Part number	A	B	Weight
SEA9BPN4TN	159 mm	70 mm	1.18 Kg
SEA9BPN6TN	213 mm	124 mm	1.75 Kg
SEA9BPN8TN	267 mm	178 mm	2.32 Kg
SEA9BPN12TN	375 mm	286 mm	3.46 Kg
SEA9BPN16TN	429 mm	340 mm	4.60 Kg
SEA9BPN18TN	483 mm	394 mm	5.27 Kg
SEA9BPN24TN	699 mm	610 mm	6.88 Kg



Active AFDD Pan Assembly

Part number	A	B	Weight
SEA9BPNAFD24TN	469 mm	394 mm	5.2 Kg
SEA9BPNAFD36TN	685 mm	610 mm	10.3 Kg





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