



Technical Submission

Project	Sunlight House, Manchester	Project Ref.	1394
Tech Sub Ref.	TS-E- 1004	Issued By	Paul Moss
Date	08/05/2024	Authorised By	David Wilson

Technical Submission	Distribution Boards	
SPECIFICATION COMPLIANCE	✓	In compliance with 4084-KIN-XX-XX-SP-E-001-T4 - 4.2.1
DEROGATIONS		
CALCULATIONS PROVIDED		

Please refer to the following data for the distribution boards to be installed on the above project

Schneider Acti9 Isobar B P - Meter ready distribution boards
Schneider Acti9 MID 3 phase Modbus communications kit
Switch disconnectors
Acti9 RCBOs
Acti9 MCBs

Information Required From	Myco
Latest Date Required	22/05/2024

Acceptance/Refusal	
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STATUS A	STATUS B	STATUS C
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Response From	
Response Date	

Product datasheet

Specifications



Acti9 IsoBar B P - meter ready distribution board - 18 Ways TP+N

Local distributor code: 405639500 SEA9BPN18M

EAN Code : 5018934007847

Main

Range	Acti9
Product name	Acti9 IsoBar P B
Product or component type	Distribution board
Device application	Distribution
Enclosure type	Standard
Door type	Overall
Provided equipment	enclosure switch-disconnector 3P + N door front cover pan assembly neutral terminal block earth terminal block earth stud blanking plate removable gland plates
Colour	Cream (RAL 9001)

Complementary

Enclosure mounting	Surface
Poles description	3P + N
[Ie] rated operational current	125 A at 220/240 V AC 125 A at 400/415 V AC
Breaking capacity	25 kA
Overvoltage category	IV
[Ui] rated insulation voltage	500 V
[Uimp] rated impulse withstand voltage	6 kV
Incomer device options	Switch disconnector - 3P + N Switch disconnector - 4P MCCB - 4P Terminal block - 4P RCCB - 4P
Protection device options at outgoing	Miniature circuit breaker (MCB) 63 A Residual current circuit breaker with overcurrent protection (RCBO) 45 A 100 mA Residual current circuit breaker with overcurrent protection (RCBO PoN) 45 A 100 mA
Number of ways	18 ways (3P)outgoer
Enclosure material	Steel

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Product datasheet

Specifications



Acti9 IsoBar B P - meter ready distribution board - 24 Ways TP+N

Local distributor code: 405639568 SEA9BPN24M

EAN Code : 5018934007892

Main

Range	Acti9
Product name	Acti9 IsoBar P B
Product or component type	Distribution board
Device application	Distribution
Enclosure type	Standard
Door type	Overall
Provided equipment	enclosure switch-disconnector 3P + N door front cover pan assembly neutral terminal block earth terminal block earth stud blanking plate removable gland plates
Colour	Cream (RAL 9001)

Complementary

Enclosure mounting	Surface
Poles description	3P + N
[Ie] rated operational current	125 A at 220/240 V AC 125 A at 400/415 V AC
Breaking capacity	25 kA
Overvoltage category	IV
[Ui] rated insulation voltage	500 V
[Uimp] rated impulse withstand voltage	6 kV
Incomer device options	Switch disconnector - 3P + N Switch disconnector - 4P MCCB - 4P Terminal block - 4P RCCB - 4P
Protection device options at outgoing	Miniature circuit breaker (MCB) 63 A Residual current circuit breaker with overcurrent protection (RCBO) 45 A 100 mA Residual current circuit breaker with overcurrent protection (RCBO PoN) 45 A 100 mA
Number of ways	24 ways (3P)outgoer
Enclosure material	Steel

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Product datasheet

Specifications



Acti9 IsoBar P A - distribution board - 27 way SP+N

Local distributor code: 405638970 SEA9APN27

EAN Code : 5018934007625

Main

Range	Acti9
Product name	Acti9 IsoBar P A
Product or component type	Distribution board
Device application	Distribution
Enclosure type	Standard
Door type	Overall
Provided equipment	Earth stud Enclosure Door Front cover Pan assembly Neutral terminal block Earth terminal block Blanking plate
Colour	Cream (RAL 9001)

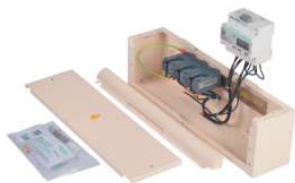
Complementary

Enclosure mounting	Surface
Poles description	1P + N
[Ie] rated operational current	125 A at 230/240 V AC
Breaking capacity	25 kA
Overvoltage category	IV
[Ui] rated insulation voltage	500 V
[Uimp] rated impulse withstand voltage	6 kV
Incomer device options	Switch disconnecter - 2P Terminal block - 2P RCCB - 2P
Protection device options at outgoing	Miniature circuit breaker (MCB) 63 A Residual current circuit breaker with overcurrent protection (RCBO) 45 A 100 mA Residual current circuit breaker with overcurrent protection (RCBO PoN) 45 A 100 mA
Number of ways	27 ways (1P) outgoing
Enclosure material	Steel
Surface treatment	Epoxy
Surface finish	Powder paint

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Product datasheet

Specifications



Acti9 DB - MID 3 Phase kWh kit Modbus communications - 125 A

Local distributor code: 399381210 SEA9BN3255

EAN Code : 5018934977621

Main

Range	Acti9
Product or component type	Metering panel kit
Accessory / separate part category	Monitoring accessory
Provided equipment	Current transformer
Bus type	Modbus

Complementary

Range compatibility	Acti 9 (Acti9 Isobar B) distribution board
[I _e] rated operational current	125 A
Height	135 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12 cm
Package 1 Width	20 cm
Package 1 Length	50 cm
Package 1 Weight	3.738 kg
Unit Type of Package 2	P12
Number of Units in Package 2	80
Package 2 Height	112 cm
Package 2 Width	100 cm
Package 2 Length	120 cm
Package 2 Weight	319.04 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

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Product datasheet

Specifications



Switch disconnecter 125A 2 Pole

Local distributor code: 396893374 SEA91252

EAN Code : 5018934966915

Main

Range	Acti9
Product or component type	Switch disconnecter
Device application	Distribution

Complementary

[Ie] rated operational current	125 A at 415 V AC
Poles description	2P
Product destination	Distribution board

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.5 cm
Package 1 Width	7.4 cm
Package 1 Length	9 cm
Package 1 Weight	166.9 g
Unit Type of Package 2	BB1
Number of Units in Package 2	6
Package 2 Height	8.5 cm
Package 2 Width	9.7 cm
Package 2 Length	21.8 cm
Package 2 Weight	1.058 kg
Unit Type of Package 3	S03
Number of Units in Package 3	66
Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	12.085 kg

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Product datasheet

Specifications



modular single phase power meter iEM2455 - 230V - 100A with communication Modbus

A9MEM2455

EAN Code: 3606482187177

Main

Range	Acti9
Family	Acti9 iEM2000
Device Short Name	iEM2455
Product Or Component Type	Energy meter

Complementary

Poles Description	1P + N
Type Of Measurement	Active and reactive energy Active and reactive power Apparent power Power factor Current Voltage Frequency
Metering Type	Active and reactive energy
Device Application	Sub billing Multi-tariff
Accuracy Class	Class 1 active energy conforming to IEC 62053-21 Class 2 reactive energy conforming to IEC 62053-23 Class B active energy conforming to EN 50470-3
Input Type	Direct input
Rated Current	100 A
Rated Voltage	230 V - 15...10 %
Network Frequency	50 Hz 60 Hz
Technology Type	Electronic
Display Type	LCD display
Sampling Rate	32 samples/cycle
Measurement Current	5...100 A
Display Digits	7
Maximum Value Measured	99999.99 kWh 999999.9 kWh
Tariff Counter	Tariff (2)
Communication Port Protocol	Modbus RTU at 1200...38400 bauds even/odd or none
Communication Port Support	Screw terminals: RS485
Local Signalling	Red LED: metering and activity 0.01, 0.1, 1, 10, 100, 1000, 2000 or 10000 p/kWh
Digital Inputs	0

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Output Voltage	5...27 V DC@100 mA
Impulse Duration	5...32 ms
Supply Voltage	195...253 V AC 50 Hz
Maximum Power Consumption In Va	1 VA at 240 V AC
Mounting Mode	Clip-on
Mounting Support	DIN rail
Connections - Terminals	Power circuit: screw clamp terminals (bottom) 1 2.5...35 mm² cable(s) Communication: screw clamp terminals (top) 1 2.5 mm² cable(s)
Standards	IEC 62052-11 IEC 62053-21 IEC 61010-1
Product Certifications	MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE

Environment

Ip Degree Of Protection	IP51 front panel: conforming to IEC 60529 IP20 casing:
Pollution Degree	2
Ambient Air Temperature For Operation	-25...55 °C
Ambient Air Temperature For Storage	-30...70 °C
Operating Altitude	< 2000 m
Relative Humidity	0...95 %
Colour	White
9 Mm Pitches	4
Width	35.8 mm
Height	96.7 mm
Depth	63 mm

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.600 cm
Package 1 Width	4.000 cm
Package 1 Length	10.000 cm
Package 1 Weight	190.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	5
Package 2 Height	7.700 cm
Package 2 Width	11.000 cm
Package 2 Length	22.000 cm
Package 2 Weight	998.000 g
Unit Type Of Package 3	S03
Number Of Units In Package 3	30

Package 3 Height	30 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	7.054 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

Well-being performance

<div><div>✓</div><div>Reach Free Of Svhc</div></div>	
<div><div>✓</div><div>Mercury Free</div></div>	
<div><div>✓</div><div>Rohs Exemption Information</div></div>	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product datasheet

Specifications



Acti9 iC60H RCBO plug on neutral - 1P+Ns - 32A - B - 10000A - 30mA - type A

Local distributor code: 405638886 A9D56832

EAN Code : 3606481369406

Main

Circuit breaker application	Distribution
Range	Acti9
Product name	Acti9 iC60 RCBO
Product or component type	Residual current breaker with overcurrent protection (RCBO)
Device short name	iC60H RCBO PoN
Poles description	1P + Ns
[In] rated current	32 A at 50 °C
Earthing system	TN
Curve code	B
Earth-leakage sensitivity	30 mA
Breaking capacity	10000 A Icn at 240 V AC 50/60 Hz conforming to IEC 61009-2-2

Complementary

Neutral position	Left
Number of protected poles	1
Device location in system	Outgoer
Network frequency	50/60 Hz
Network type	AC
Trip unit technology	Thermal-magnetic
Magnetic tripping limit	3...5 x In
[Ue] rated operational voltage	240 V AC 50/60 Hz
Residual current tripping technology	Voltage dependent
Earth-leakage protection time delay	Instantaneous
Earth-leakage protection class	Type A
[Ics] rated service breaking capacity	7500 A at 240 V AC 50/60 Hz conforming to IEC 61009-2-2
Electrical insulation class	Class II
Limitation class	3

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Product datasheet

Specifications



Acti9 iC60H 1P 10A C Miniature Circuit breaker

Local distributor code: 396790875 A9F54110

EAN Code : 3606480514722

Main

Range	Acti9
Product name	Disbo iC60
Product or component type	Miniature circuit-breaker
Device short name	iC60H
Poles description	1P
Number of protected poles	1
[In] rated current	10 A
Network type	AC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	20 kA Icu at 12...60 V DC conforming to EN/IEC 60947-2 15 kA Icu at 60...72 V DC conforming to EN/IEC 60947-2 10000 A Icn at 240 V AC 50/60 Hz conforming to EN/IEC 60898-1 42 kA Icu at 10...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 30 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2
Utilisation category	Category A conforming to EN/IEC 60947-2

Complementary

Network frequency	50/60 Hz
[Ue] rated operational voltage	240 V AC 50/60 Hz
Magnetic tripping limit	8 x In +/- 20 %
[Ics] rated service breaking capacity	21 kA 50 % conforming to EN/IEC 60947-2 - 10...60 V AC 50/60 Hz 15 kA 50 % conforming to EN/IEC 60947-2 - 100...133 V AC 50/60 Hz 7.5 kA 50 % conforming to EN/IEC 60947-2 - 220...240 V AC 50/60 Hz 7500 A 75 % conforming to EN/IEC 60898-1 - 240 V AC 50/60 Hz 20 kA 100 % conforming to EN/IEC 60947-2 - 12...48 V DC 10 kA 100 % conforming to EN/IEC 60947-2 - 72 V DC
Limitation class	3 conforming to EN/IEC 60947-2
[Ui] rated insulation voltage	500 V AC 50/60 Hz conforming to EN/IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-2
Contact position indicator	Yes
Control type	Toggle
Local signalling	Trip indicator

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Product datasheet

Specifications



Acti9 iC60H RCBO plug on neutral - 1P+N - 16A - B - 10000A - 30mA - type A

Local distributor code: 405638844 A9D56816

EAN Code : 3606481369376

Main

Circuit breaker application	Distribution
Range	Acti9
Product name	Acti9 iC60 RCBO
Product or component type	Residual current breaker with overcurrent protection (RCBO)
Device short name	iC60H RCBO PoN
Poles description	1P + Ns
[In] rated current	16 A at 50 °C
Earthing system	TN
Curve code	B
Earth-leakage sensitivity	30 mA
Breaking capacity	10000 A Icn at 240 V AC 50/60 Hz conforming to IEC 61009-2-2

Complementary

Neutral position	Left
Number of protected poles	1
Device location in system	Outgoer
Network frequency	50/60 Hz
Network type	AC
Trip unit technology	Thermal-magnetic
Magnetic tripping limit	3...5 x In
[Ue] rated operational voltage	240 V AC 50/60 Hz
Residual current tripping technology	Voltage dependent
Earth-leakage protection time delay	Instantaneous
Earth-leakage protection class	Type A
[Ics] rated service breaking capacity	7500 A at 240 V AC 50/60 Hz conforming to IEC 61009-2-2
Electrical insulation class	Class II
Limitation class	3

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Product datasheet

Specifications



Acti9 Isobar - door lock - suitable for Isoabar A & Isoabar B

Local distributor code: 396792666 SEA9BL

EAN Code : 5018934962191

Main

Range	Acti9
Product or component type	Door lock
Accessory / separate part category	Locking accessory

Complementary

Range compatibility	Acti 9 (Acti9 Isoabar A) distribution board Acti 9 (Acti9 Isoabar B) distribution board
Product destination	For door

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	8.0 cm
Package 1 Length	8.0 cm
Package 1 Weight	59.7 g
Unit Type of Package 2	S03
Number of Units in Package 2	150
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.156 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	4050
Package 3 Height	94.0 cm
Package 3 Width	90.0 cm
Package 3 Length	120.0 cm
Package 3 Weight	272.423 kg

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