

Acti9 Isobar B type distribution boards



BS EN 61439-3

IEC 61439-3

- Acti9 Isobar is a complete range of single and 3 phase
- distribution boards for commercial and industrial
- applications
- Standard distribution boards up to 24 ways
- Meter ready distribution boards up to 24 ways
- Split metered distribution boards up to 22 ways
- Any outgoing way can be converted to switch the Neutral

Alternating current (AC) 50Hz

withstand	230/240v	400v	415v
conditional	25kA	25kA	25kA
unconditional	25kA/50mS	25kA/50mS	25kA/50mS
	17kA/200mS	17kA/200mS	17kA/200mS

Direct current (DC)

	24v	48v	
unconditional	25kA/50mS	25kA/50mS	

Catalogue numbers

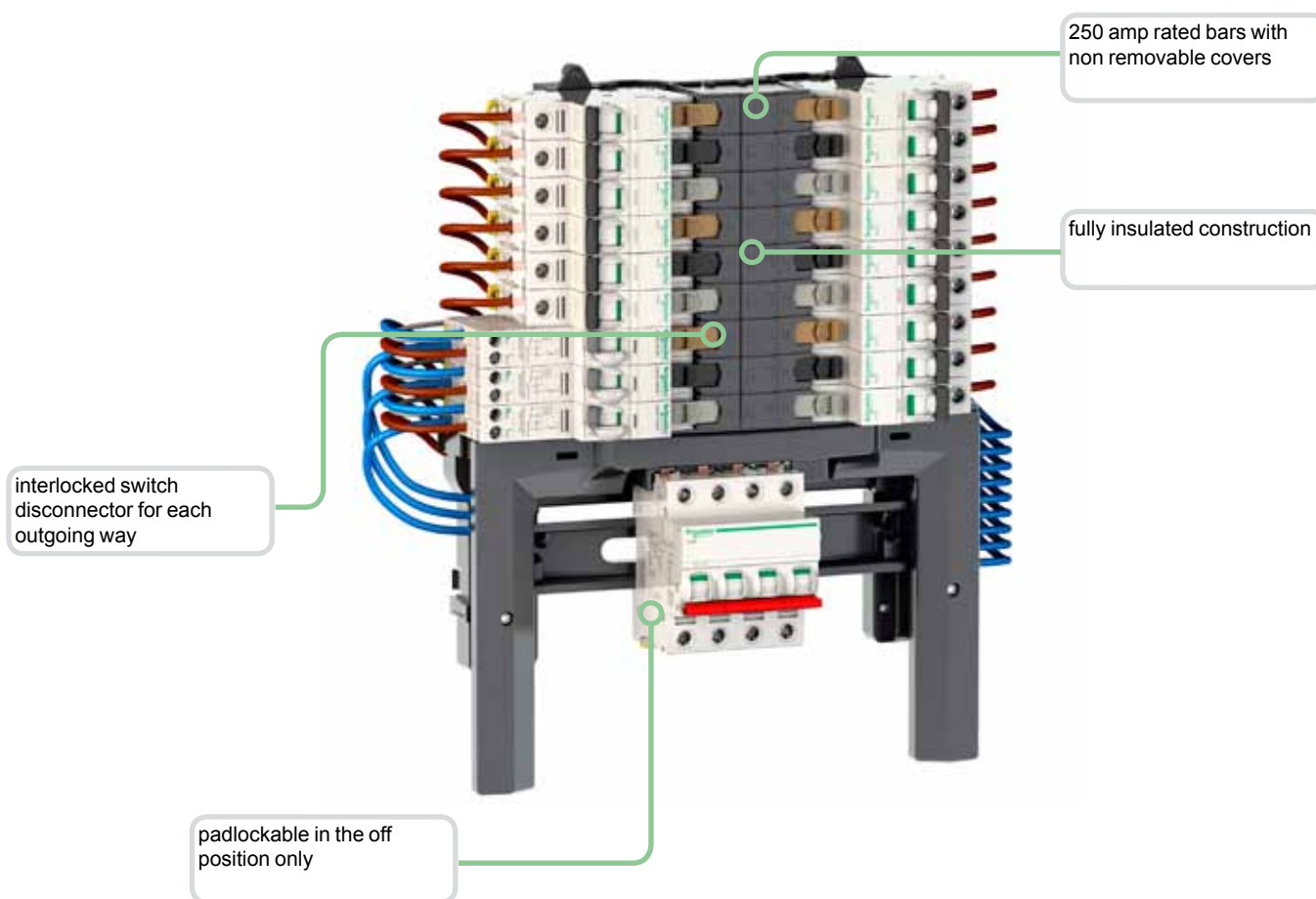
Acti9 Isobar Standard distribution boards busbar rating 250amp

	No of TP ways	No of SP ways	No of DP ways
SEA9BN4	4	12	6
SEA9BN6	6	18	9
SEA9BN8	8	24	12
SEA9BN12	12	36	18
SEA9BN16	16	48	24
SEA9BN18	18	54	26
SEA9BN24	24	72	36

Acti9 Isobar Meter ready distribution boards busbar rating 250amp

	No of TP ways	No of SP ways	No of DP ways
SEA9BN6M	6	18	9
SEA9BN8M	8	24	12
SEA9BN12M	12	36	18
SEA9BN16M	16	48	24
SEA9BN18M	18	54	26
SEA9BN24M	24	72	36

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Acti9 Isobar Split metered* distribution boards busbar rating 125 amp

	lower pan assembly No of TP ways	No of SP ways	upper pan assembly No of TP ways	No of SP ways
SEA9BN1254S8	6	18	8	24
SEA9BN1258S8	8	24	8	24
SEA9BN12512S8	14	42	8	24
SEA9BN12514S6	16	48	6	18
SEA9BN12516S4	18	54	4	12

Acti9 Isobar Split metered* distribution boards busbar rating 250 amp

	lower pan assembly No of TP ways	No of SP ways	upper pan assembly No of TP ways	No of SP ways
SEA9BN2504S8	6	18	8	24
SEA9BN2508S8	8	24	8	24
SEA9BN25012S8	14	42	8	24
SEA9BN25014S6	16	48	6	18
SEA9BN25016S4	18	54	4	12

*MID 3 Phase kWh kit Modbus communications and pulsed output

Metering kits				
Acti9 Standard distribution boards			rating (A)	connection
SEA9BNKWH	MID 3 Phase kWh kit Modbus communications and pulsed output	height 270 (mm)	250	via CT
SEA9BNKWHP	MID 3 Phase kWh kit pulsed output	height 270 (mm)	250	via CT
SEA9BNMETE	Metering enclosure for standard Acti9 Isobar boards	height 270 (mm)	250	via CT
Acti9 Meter ready distribution boards			rating (A)	connection
SEA9BN3155	MID 3 Phase kWh kit Modbus communications and pulsed output	integral	63	direct
SEA9BN3110	MID 3 Phase kWh kit pulsed output	integral	63	direct
SEA9BN3255	MID 3 Phase kWh kit Modbus communications and pulsed output	height 135 (mm)	125	via CT
SEA9BN3210	MID 3 Phase kWh kit pulsed output	height 135 (mm)	125	via CT

Connections

Rating	Copper lugs	Bare cables	Device
125 amp	18	50mm	DIN switch disconnecter/Terminal block
		70mm with spreader connection	DIN switch disconnecter
160 -250 amp	95mm	185mm with cable clamps	Interpact Switch Disconnecter
	95mm	185mm with cable clamps	NSX Moulded case circuit breaker
	120 mm		Terminal block

Technical data Standard, Meter ready, Split metered Acti9 Isobar

Main characteristics		230/240v	400v	415v
Withstand	conditional	25kA	25kA	25kA
	unconditional	25kA/50mS	25kA/50mS	25kA/50mS
		17kA/200mS	17kA/200mS	17kA/200mS
insulation voltage (Ui)		500vAC	500vAC	500vAC
Pollution degree		3	3	3
Rated impulse withstand voltage (Uimp)		6kV	6kV	6kV
Current rating (A)	direct connection	125/250	6kV	6kV
	Switch disconnector	125	DIN mounted Power switch Interpact	
		160-200-250		
	MCCB	100-160-200-225-250		
Degree of protection (IEC 60529)		External IP30 or IP55 Internal IP20		
Endurance (O-C) Isobar switch disconnecter		3000		
Overvoltage category		IV		
Operating temperature		-35 to +70°C		
Storage teperature		-40 to +80°C		

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Main characteristics Acti9 Isobar IP55

According to BE EN 61439-3		230/240v	400v	415v
Withstand	conditional	25kA	25kA	25kA
	unconditional	25kA/50mS	25kA/50mS	25kA/50mS
		17kA/200mS	17kA/200mS	17kA/200mS
insulation voltage (Ui)		500vAC		
Pollution degree		3		
Rated impulse withstand voltage (Uimp)		6kV		
Current rating (A)		100A		
Degree of protection (IEC 60529)		External IP30 or IP55 Internal IP20		
Endurance (O-C) Isobar switch disconnecter		3000		
Overvoltage category		IV		
Operating temperature		-35 to +70°C		
Storage teperature		-40 to +80°C		

Catalogue numbers

Acti9 Isobar Standard IP55 distribution boards busbar rating 125amp steel door

	No of TP ways	No of SP ways	No of DP ways
SEA9BN6HDGR	6	18	9
SEA9BN8HDGR	8	24	12
SEA9BN12HDGR	12	36	18
SEA9BN16HDGR	16	48	24

Acti9 Isobar Standard IP55 distribution boards busbar rating 125amp transparent door

	No of TP ways	No of SP ways	No of DP ways
SEA9BN6HDGK	6	18	9
SEA9BN8HDGK	8	24	12
SEA9BN12HDGK	12	36	18
SEA9BN16HDGK	16	48	24

Weight (kG) - Dimensions (mm)

Standard	Meter ready	Split load	kG	Height	width	depth
4 way	■	■	9	484	470	139
6 way	6 way	■	10.5	484	470	138
8 way	6 way	■	11	538	470	138
12 way	12 way	■	13.5	700	470	139
16 way	16 way	■	16	808	470	139
18 way	18 way	■	16.2	862	470	139
24 way	24 way	■	22	1024		139
■	■	all versions	28	1294	470	139
250 amp incoming section			4	400	470	130
IP55			kG	Height	width	depth
6 way		■	32.4	650	600	330
8 way		■	32.9	650	600	330
12 way		■	40.1	800	600	330
16 way		■	41.4	800	600	330

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Incommers							
Switch disconnecter		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA91253N		125	3P+N	Int	Int	Int	Int
SEA91254		125	4	Int	Int	Int	Int
SEA9NI1603		160	3P+N	Ext	Ext	Ext	■
SEA9NI1604		160	4	Ext	Ext	Ext	■
SEA9NI2003		200	3P+N	Ext	Ext	Ext	■
SEA9NI2004		200	4	Ext	Ext	Ext	■
SEA9NI2254		225	4	Ext	Ext	Ext	■
SEA9NI2503		250	3P+N	Ext	Ext	Ext	■
SEA9NI2504		250	4	Ext	Ext	Ext	n ■
Moulded Case Circuit Breaker		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA9NCB1004		70-100	4	Ext	Ext	Ext	■
SEA9NCB1604		112-160	4	Ext	Ext	Ext	■
SEA9NCB2004		140-200	4	Ext	Ext	Ext	■
SEA9NCB2504		175-250	4	Ext	Ext	Ext	■
Residual current circuit breaker sensitivity (mA)		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
A9R41463	30	63	4	Int	Int	Int	Int
A9R12463	100	63	4	Int	Int	Int	Int
A9R44463	300	63	4	Int	Int	Int	Int
A9R15463	300/time delayed	63	4	Int	Int	Int	Int
A9R11480	30	80	4	Int	Int	Int	Int
A9R14491	300	100	4	Int	Int	Int	Int
A9R15491	300/time delayed	100	4	Int	Int	Int	Int
SEA9NI160RCCB	adjustable	160	■	Ext	Ext	Ext	■
Terminals for direct connection		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA9TB1254		125	4	Int	Int	Int	Int
SEA9NTB2504		250	4	Ext	Ext	Ext	■
Dual source incomer		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA9NDSI	*270mm enclosure	125	4	Ext	Ext	Ext	■
Contactor incomer		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA9BN100CCI	*270mm enclosure	100	4	Ext	Ext	Ext	■
Dual metered extension enclosure		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA9BNDM160SD	Interpact SD	160	4	Ext	■	■	■
SEA9BNDM200SD	Interpact SD	200	4	Ext	■	■	■
SEA9BNDM250SD	Interpact SD	250	4	Ext	■	■	■
SEA9BNDM160M	NSX MCCB	160	4	Ext	■	■	■
SEA9BNDM200M	NSX MCCB	200	4	Ext	■	■	■
SEA9BNDM250M	NSX MCCB	250	4	Ext	■	■	■
*MID 3 Phase kWh kit Modbus communications and pulsed output							
Single phasing kits		rating (A)	no of poles	Standard	Meter ready	Split metered	IP55
SEA9125SPEV		125	4	Int	Int	Int	Int
SEA9250SPEV		250	4	Int	Int	Int	Int

Int= Internal to the distribution board
Ext = in 400mm high extension enclosures
■ = not applicable

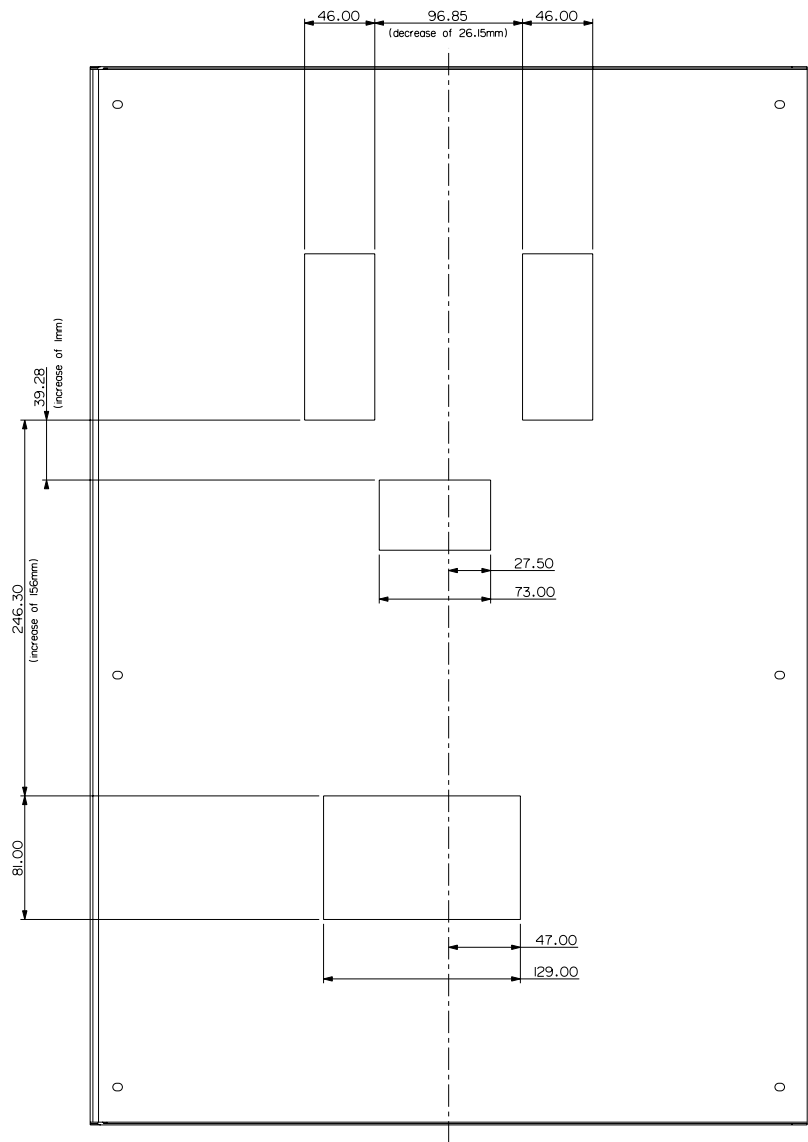
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Top or Bottom Extension enclosures height 270 (mm)		not applicable		
Switch disconnect	Description			
SEA9BNEXN	plain front cover for additional wiring space			
SEA9BNEX034N	mounting of DIN devices, overall door and cutout for 17 x 18mm poles			
SEA9BNEXA15N	single phase add on distribution board 15 way			
Side Extension enclosures				
Reference	Description	No of rows	total 18mm SP ways	dimensions
SEA9N4SXS	Slotted front cover + overall door	2	34	SEA9BN4
SEA9N8SXS	Slotted front cover + overall door	2	34	SEA9BN8
SEA9N12SXS	Slotted front cover + overall door	3	51	SEA9NB12
SEA9N16SXS	Slotted front cover + overall door	4	68	SEA9NB16
SEA9N24SXS	Slotted front cover + overall door	5	85	SEA9NB24
SEA9N4SXP	Plain front cover+ overall door	2	34	SEA9BN4
SEA9N8SXP	Plain front cover+ overall door	2	34	SEA9BN8
SEA9N12SXP	Plain front cover+ overall door	3	51	SEA9NB12
SEA9N16SXP	Plain front cover+ overall door	4	68	SEA9NB16
SEA9N24SXP	Plain front cover+ overall door	5	85	SEA9NB24
Accessories				
Reference	Description	Reference	Description	
SEA9BL	Door lock	SEA9NB4	Distributed neut'I for 4 way TP+N	
SEA9PD	Padlock kit for door	SEA9NB6	Distributed neut'I for 6 way TP+N	
SEA9NEK1	Extra earth terminal bar 14 hole	SEA9NB8	Distributed neut'I for 8 way TP+N	
SEA9NEK2	Extra earth terminal bar 20 hole	SEA9NB12	Distrib'd neut'I for 12 way TP+N	
SEA9NEK3	Extra earth terminal 26 hole	SEA9NB16	Distrib'd neut'I for 16 way TP+N	
		SEA9NB18	Distrib'd neut'I for 18 way TP+N	
SEA9BN63SPL	split load lit 63 amp	SEA9NB24	Distrib'd neut'I for 24 way TP+N	
SEA9BNSJKN	Side joining kit	SEA9NKIT	Phase to neutral conversion kit (pack 4)	
SEA9BNTJKA	Top/bottom joining kit for enc/ext/enc			
SEA9BNTJKB	Top bottom kit replacing gland plate			
SEA9BNTJKN	Joining kit B board top/bottom			
SEA9BP	Blank pole			
SEA9BP25	Pack of 25 x 5 pole filler			
SEA9BP5	single 5 pole filler			
SEA9TB1001	100 amp terminal block 1 pole			
SEA9BNBCE7	clean earth B boards 7 hole			
SEA9BNBCE13	clean earth B boards 13 hole			
SEA9BNBCE25	Clean earth B boards 25 hole			
SEA9BNWL	TP&N LABELS			

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Pan assemblies - 3 phase without distributed neutral, supplied without mounting plate	
Reference	Description
SEA9BN4PS	Pan Assembly 4 way TP&N
SEA9BN6PS	Pan Assembly 6 way TP&N
SEA9BN8PS	Pan Assembly 8 way TP&N
SEA9BN12PS	Pan Assembly 12 way TP&N
SEA9BN16PS	Pan Assembly 16 way TP&N
SEA9BN18PS	Pan Assembly 18 way TP&N
SEA9BN24PS	Pan Assembly 24 way TP&N
Pan assemblies - replacement for Acti9 Isobar and Isobar 4c distribution boards	
Reference	Description
SEA9BN4P	B board replacement pan assembly
SEA9BN6P	B board replacement pan assembly
SEA9BN8P	B board replacement pan assembly
SEA9BN12P	B board replacement pan assembly
SEA9BN16P	B board replacement pan assembly
SEA9BN18P	B board replacement pan assembly
SEA9BN24P	b board replacement pan assembly
Pan assemblies - for switchboard mounting supplied with earths and neutral, phase coloured Isobar switch disconnectors	
Reference	Description
SEA9BN4E	pan assembly 4 way TP+ earth and neutral
SEA9BN6E	pan assembly 6 way TP+ earth and neutral
SEA9BN8E	pan assembly 8 way TP+ earth and neutral
SEA9BN12E	pan assembly 12 way TP+ earth and neutral
SEA9BN16E	pan assembly 16 way TP+ earth and neutral
SEA9BN18E	pan assembly 18 way TP+ earth and neutral
SEA9BN24E	pan assembly 24 way TP+ earth and neutral
Pan assemblies - for switchboard mounting supplied with earths and neutral, black Isobar switch disconnectors	
Reference	Description
SEA9BN4PEV	pan assembly 4 way TP+ earth and neutral
SEA9BN6PEV	pan assembly 6 way TP+ earth and neutral
SEA9BN8PEV	pan assembly 8 way TP+ earth and neutral
SEA9BN12PEV	pan assembly 12 way TP+ earth and neutral
SEA9BN16PEV	pan assembly 16 way TP+ earth and neutral
SEA9BN18PEV	pan assembly 18 way TP+ earth and neutral
SEA9BN24PEV	pan assembly 24 way TP+ earth and neutral
Pan assemblies - 3 phase without distributed neutral, supplied fitted on a mounting plate	
Reference	Description
SEA9BN4TN	4 TP&N way panel fixing pan assm
SEA9BN6TN	6 TP&N way panel fixing pan assm
SEA9BN8TN	8 TP&N way panel fixing pan assm
SEA9BN12TN	12 TP&N way panel fixing pan assm
SEA9BN16TN	16 TP&N way panel fixing pan assm
SEA9BN18TN	18 TP&N way panel fixing pan assm
SEA9BN24TN	24 TP&N way panel fixing pan assm

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Pan assemblies - accessories	
Reference	Description
SEA9BINCKIT	250 amp incoming terminal block