











Enclosed solutions

**Bremas** offers a complete range of enclosed solutions, whose structural details, according to the highest market standards, make these products suitable for the most different applications: motor-control schemes, ON-OFF switches, change-over switches. The enclosures are made of ABS for sizes up to 63A, sizes 100-200A are made of metal-sheet. Versions with front drive or lateral lever drive are available.



- Protection degree up to IP65
- Front or Lateral lever drive
- Double insulated thermoplastic enclosures
- Terminals for 5 wires systems (3 phase+N+PE)
- Padlockable handle in "OFF" position and Cover interlock in "ON" position for the Front drive operated versions
- Trace and knock-outs to easy the wiring in the installation

**Thermoplastic enclosures**

	Type	Dimensions	Handle type	Additional Characteristics			
	<b>B95</b>	120 x 95 x 78 mm 4.72 x 3.74 x 3.07 in	Front drive. Padlockable handle in "OFF" position	ABS IP65 Double insulated	Cover interlock in "ON" position	Terminals for 5 wires systems (3 phase + N + PE)	2xM20 knock-outs on two sides, 2xPg16 on one side and on the base of the enclosure
	<b>B110</b>	125 x 110 x 78 mm 4.92 x 4.33 x 3.07 in	Front drive. Padlockable handle in "OFF" position	ABS IP65 Double insulated	Cover interlock in "ON" position	Terminals for 5 wires systems (3 phase + N + PE)	2xM20 knock-outs on two sides, 2xPg16/M20 on the lower and upper sides of the enclosure
	<b>B140</b>	140x165x80,5 mm 5.51 x 6.50 x 3.17 in	Front drive. Padlockable handle in "OFF" position	ABS IP65 Double insulated	Cover interlock in "ON" position	Terminals for 5 wires systems (3 phase + N + PE)	2xPg 16 /21 traces on each side of the enclosure
	<b>S31</b>	120 x 95 x 78 mm 4.72 x 3.74 x 3.07 in	Lateral lever drive	ABS IP65 Double insulated	-	Terminals for 5 wires systems (3 phase + N + PE)	2xM20 knock-outs on two sides, 2xPg16 on one side and on the base of the enclosure
	<b>S40</b>	152 x 113 x 104 mm 5.98 x 4.45 x 4.09 in	Lateral lever drive	ABS, IP40	-	-	3 holes Ø 19 mm (0.75") with rubber grommet
	<b>S90</b>	190 x 135 x 115 mm 7.48 x 5.31 x 4.53 in	Lateral lever drive	ABS, IP40	-	-	6 holes Ø 19 mm (0.75") with rubber grommet
<hr/>							
<b>Metal sheet enclosures</b>							
	<b>S10</b>	300 x 300 x 150 mm 11.81 x 11.81 x 5.90 in	Lateral lever drive	Metal-sheet IP54	-	-	-
	<b>S20</b>	400 x 300 x 200 mm 15.75 x 11.81 x 7.87 in	Lateral lever drive	Metal-sheet IP54	-	-	-



**B95**

120 x 95 x 78 mm  
4.72 x 3.74 x 3.07 in




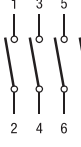

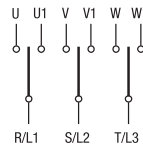

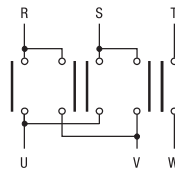
**Plate type**






**RL6**


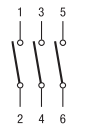
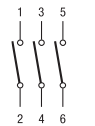
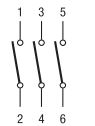
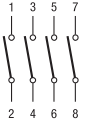
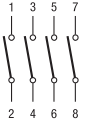
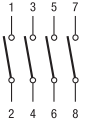
Yellow plate 67x67mm (2.64x2.64"),  
red padlockable knob (max 3 padlocks)




## ■ IP65, ABS enclosures with front drive, padlockable handle

	Circuit diagram	Function	I <sub>e</sub>	Part no.	Pack
 <b>00G3</b>		<b>ON-OFF switch 3 pole with padlockable handle</b>	12A	CA01200G3B95RL6	1
			16A	CA01600G3B95RL6	1
			20A	CA02000G3B95RL6	1
			25A	CA02500G3B95RL6	1
			32A	CA03200G3B95RL6	1
 <b>00G4</b>		<b>ON-OFF switch 4 pole with padlockable handle</b>	12A	-	-
			16A	CA01600G4B95RL6	1
			20A	CA02000G4B95RL6	1
			25A	-	-
			32A	CA03200G4B95RL6	1
 <b>0007</b>		<b>Change-over switch with padlockable handle</b>	12A	CA0120007B95RL6	1
			16A	CA0160007B95RL6	1
			20A	CA0200007B95RL6	1
			25A	-	-
			32A	-	-
 <b>0008</b>		<b>Reversing switch with padlockable handle</b>	12A	CA0120008B95RL6	1
			16A	CA0160008B95RL6	1
			20A	CA0200008B95RL6	1
			25A	-	-
			32A	-	-


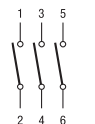
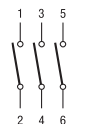
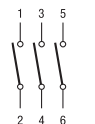
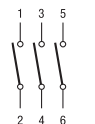
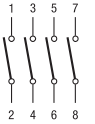
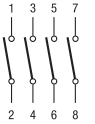
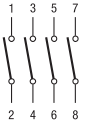
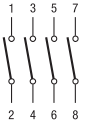
 <p><b>B110</b> 125 x 110 x 78mm (4.92 x 4.33 x 3.07 in)</p>	<p><b>Plate type</b></p>  <p><b>AL6</b> Yellow plate 67x67mm (2.64 x 2.64"), red padlockable knob (max 3 padlocks)</p>	 <p><b>AK6</b> Grey plate 67x67mm (2.64 x 2.64"), black padlockable knob (max 3 padlocks)</p>
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■ IP65, ABS enclosures with front drive, padlockable handle and cover interlock

	Circuit diagram	Poles	$I_e$	Part no.	Pack	Part no.	Pack
		3	20A	SB0203B110AL6	1	SB0203B110AK6	1
	32A		SB0323B110AL6	1	SB0323B110AK6	1	
	40A		SB0403B110AL6	1	SB0403B110AK6	1	
	3+N	20A	SB0204B110AL6	1	SB0204B110AK6	1	
		32A	SB0324B110AL6	1	SB0324B110AK6	1	
		40A	SB0404B110AL6	1	SB0404B110AK6	1	

 <p><b>B140</b> 140 x 165 x 80,5 mm (5.51 x 6.50 x 3.17 in)</p>	<p><b>Plate type</b></p>  <p><b>AL6</b> Yellow plate 67x67mm (2.64 x 2.64"), red padlockable knob (max 3 padlocks)</p>	 <p><b>AK6</b> Grey plate 67x67mm (2.64 x 2.64"), black padlockable knob (max 3 padlocks)</p>
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■ IP65, ABS enclosures with front drive, padlockable handle and cover interlock

	Circuit diagram	Poles	$I_e$	Part no.	Pack	Part no.	Pack
		3	50A	SB0503B140AL6	1	SB0503B140AK6	1
	63A		SB0633B140AL6	1	SB0633B140AK6	1	
	80A		SB0803B140AL6	1	SB0803B140AK6	1	
	100A		SB1003B140AL6	1	SB1003B140AK6	1	
	3+N	50A	SB0504B140AL6	1	SB0504B140AK6	1	
		63A	SB0634B140AL6	1	SB0634B140AK6	1	
		80A	SB0804B140AL6	1	SB0804B140AK6	1	
		100A	SB1004B140AL6	1	SB1004B140AK6	1	




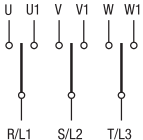

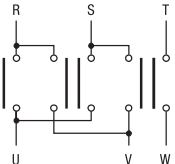

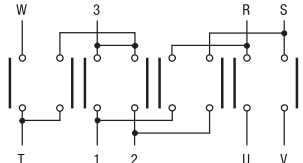
 standard article



**S31**

120 x 95 x 78 mm  
4.72 x 3.74 x 3.07 in

## ■ IP40, ABS enclosures with lateral lever drive


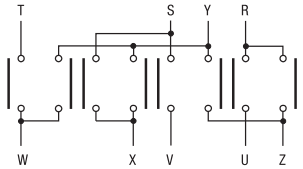

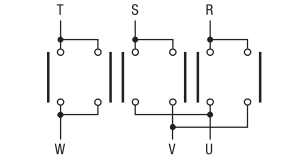

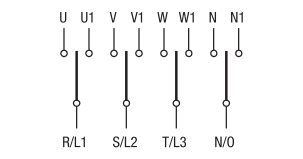
	Circuit diagram	Function	$I_b$	Part no.	Pack
 <p><b>0003</b></p>		<p><b>ON-OFF switch 3 pole</b></p>	12A	CA0120003S31	1
			16A	CA0160003S31	1
			20A	CA0200003S31	1
			25A	CA0250003S31	1
			32A	CA0320003S31	1
			40A	CA0400003S31	1
 <p><b>0007</b></p>		<p><b>Change-over switch 3 pole</b></p>	12A	CA0120007S31	1
			16A	CA0160007S31	1
			20A	CA0200007S31	1
			25A	CA0250007S31	1
			32A	CA0320007S31	1
 <p><b>0008</b></p>		<p><b>Reversing switch 3 pole</b></p>	12A	CA0120008S31	1
			16A	CA0160008S31	1
			20A	CA0200008S31	1
			25A	CA0250008S31	1
			32A	CA0320008S31	1
 <p><b>0009</b></p>		<p><b>Changing switch Dahlander pole</b></p>	12A	CA0120009S31	1
			16A	CA0160009S31	1
			20A	CA0200009S31	1
			25A	CA0250009S31	1
			32A	CA0320009S31	1



**S31**

120 x 95 x 78 mm  
4.72 x 3.74 x 3.07 in

■ IP40, ABS enclosures with lateral lever drive

	Circuit diagram	Function	I <sub>e</sub>	Part no.	Pack
 <b>0010</b>		<b>STAR-DELTA Starter</b>	12A	CA0120010S31	1
			16A	CA0160010S31	1
			20A	CA0200010S31	1
			25A	CA0250010S31	1
			32A	CA0320010S31	1
 <b>0036</b>		<b>Reversing switch 3 pole with spring return to "off"</b>	16A	CA0160036S31	1
			20A	CA0200036S31	1
			25A	CA0250036S31	1
 <b>0039</b>		<b>Change-over switch 4 pole</b>	12A	CA0120039S31	1
			16A	CA0160039S31	1
			20A	CA0200039S31	1
			25A	CA0250039S31	1
			32A	CA0320039S31	1



**S40**




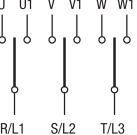

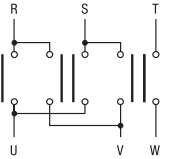

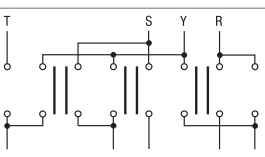

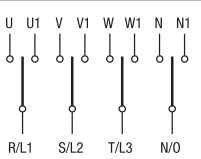
152 x 113 x 104 mm  
5.98 x 4.45 x 4.09 in



**S90**

190 x 135 x 115 mm  
7.48 x 5.31 x 4.53 in

## ■ IP40, ABS enclosures with lateral lever drive

	Circuit diagram	Function	$I_e$	Part no.	Pack	Part no.	Pack
 <p><b>0003</b></p>		<p>ON-OFF switch 3 pole</p>	50A	CA0500003S40	1		
			63A			CA0630003S90	1
 <p><b>0007</b></p>		<p>Change-over switch 3 pole</p>	50A	CA0500007S40	1		
			63A			CA0630007S90	1
 <p><b>0008</b></p>		<p>Reversing switch 3 pole</p>	50A	CA0500008S40	1		
			63A			CA0630008S90	1
 <p><b>0010</b></p>		<p>STAR-DELTA Starter</p>	50A	CA0500010S40	1		
			63A			CA0630010S90	1
 <p><b>0039</b></p>		<p>Change-over switch 4 pole</p>	50A	CA0500039S40	1		
			63A			CA0630039S90	1





**S10**

300 x 300 x 150 mm  
11.81 x 11.81 x 5.90 in



**S20**

400 x 300 x 200 mm  
15.75 x 11.81 x 7.87 in

■ IP54, Metal-sheet enclosures with lateral lever drive

	Circuit diagram	Function	I <sub>e</sub>	Part no.	Pack	Part no.	Pack
<p><b>0010</b></p>		<p><b>STAR-DELTA Starter</b></p>	100A	CA1000010S10	1		
<p><b>0039</b></p>		<p><b>Change-over switch 4 pole</b></p>	100A	CA1000039S10	1		
			200A			CA2000039S20	1

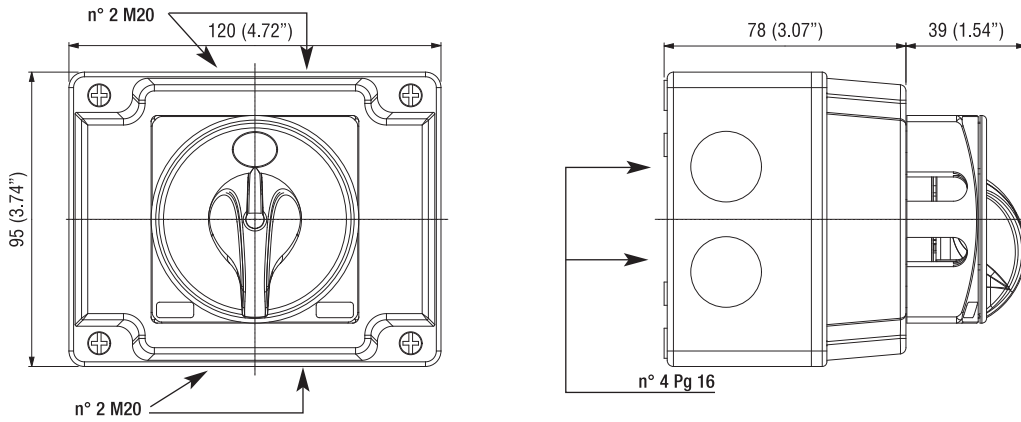
■ Plastic enclosures, with handles

Code	Description		Pack
S31	ABS enclosure, IP40 with lateral lever drive	120 x 95 x 78 mm (4,72 x 3,74 x 3,07 in)	1
B95	ABS enclosure, IP65 with front drive and RL6 padlockable handle	120 x 95 x 78 mm (4,72 x 3,74 x 3,07 in)	1
B110	ABS enclosure, IP65 with front drive and RL6 padlockable handle	125 x 110 x 78 mm (4,92 x 4,33 x 3,07 in)	1
B140	ABS enclosure, IP65 with front drive and RL6 padlockable handle	140 x 165 x 80,5 mm (5,51 x 6,50 x 3,17 in)	1
S40	ABS enclosure, IP40 with lateral lever drive	152 x 113 x 104 mm (5,98 x 4,45 x 4,09 in)	1
S90	ABS enclosure, IP40 with lateral lever drive	190 x 135 x 115 mm (7,48 x 5,31 x 4,53 in)	1

standard article

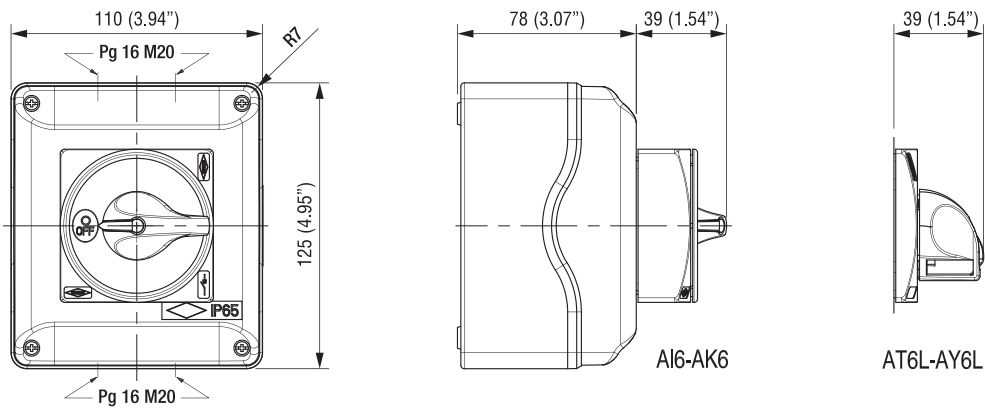
## ■ B95

Measures in mm (in)



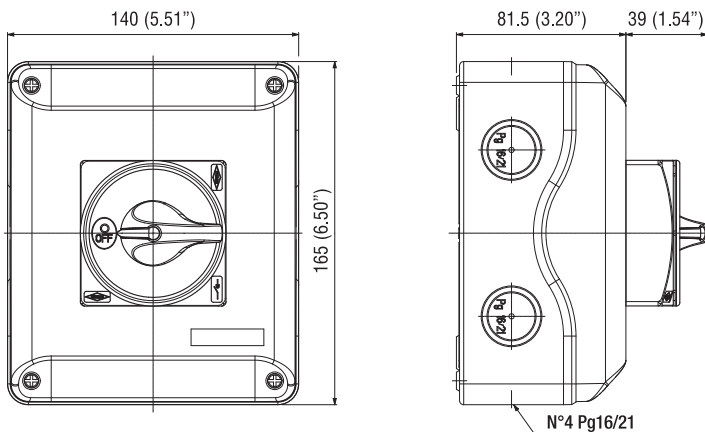
## ■ B110

Measures in mm (in)



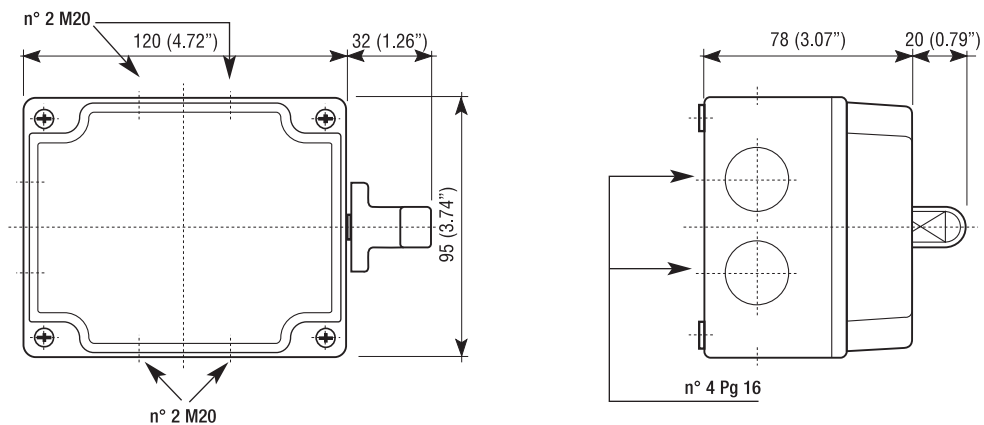
## ■ B140

Measures in mm (in)



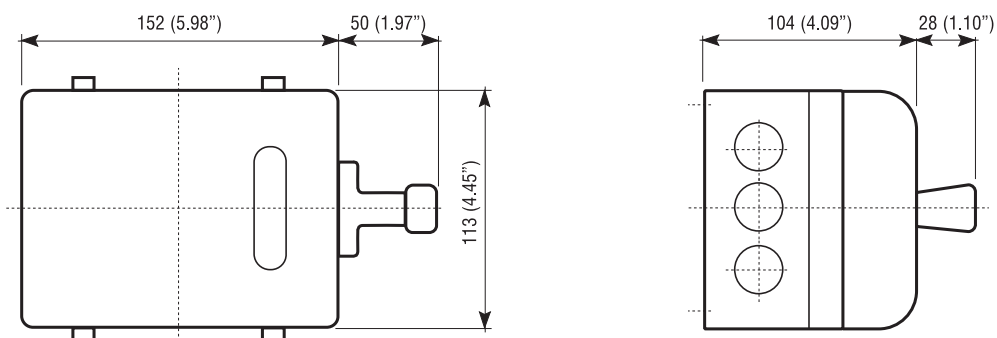
■ S31

Measures in mm (in)



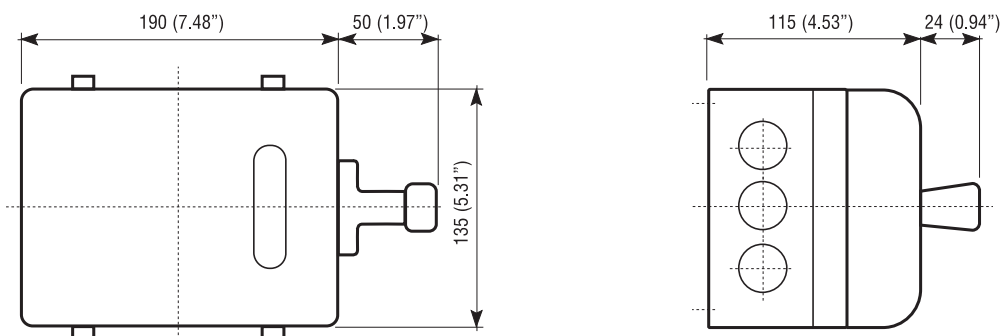
■ S40

Measures in mm (in)



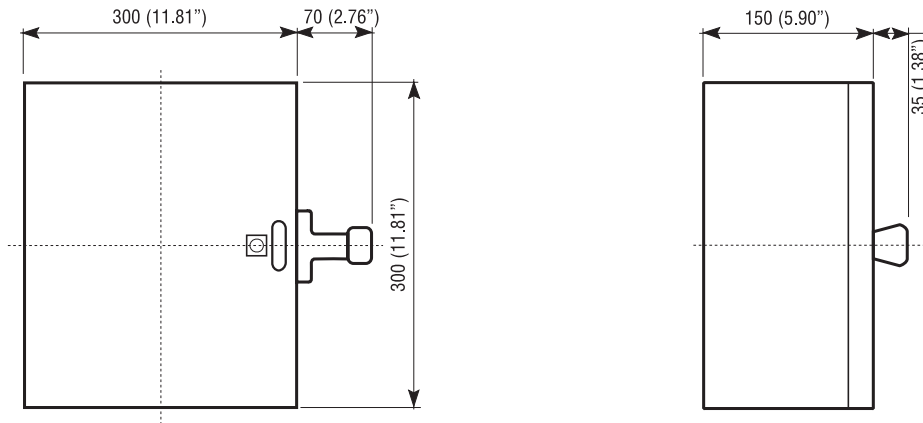
■ S90

Measures in mm (in)



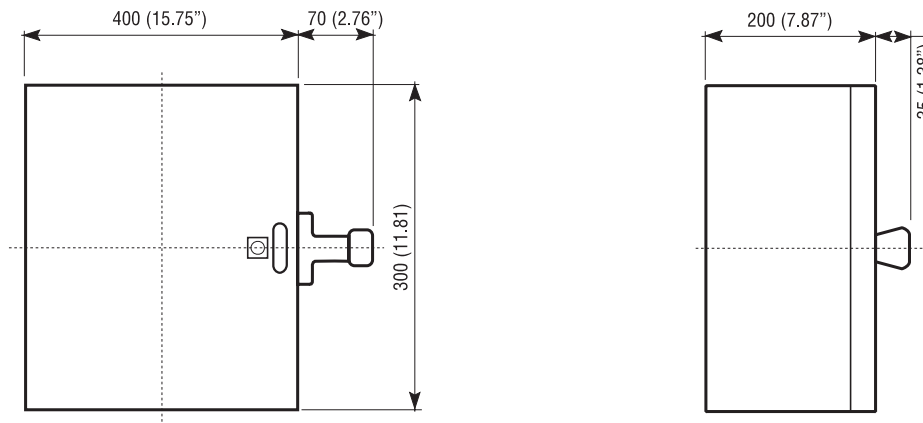
## ■ S10

Measures in mm (in)



## ■ S20

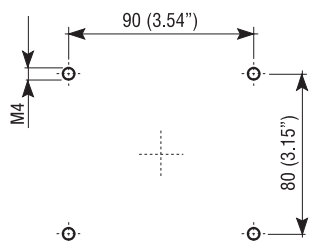
Measures in mm (in)



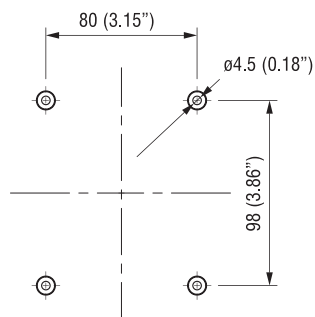
■ Drilling templates

Measures in mm (in)

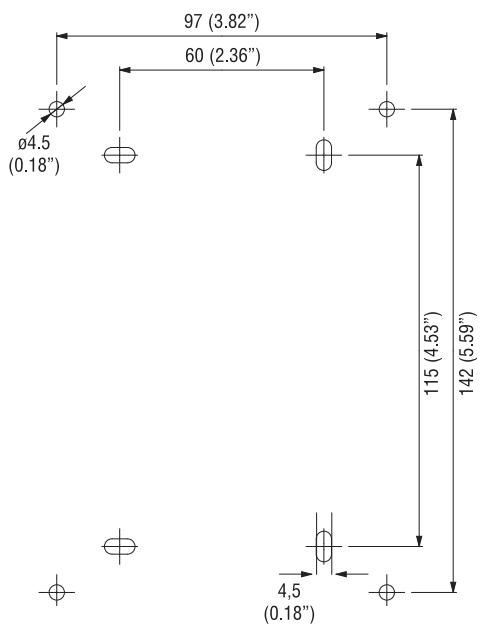
S31 - B95



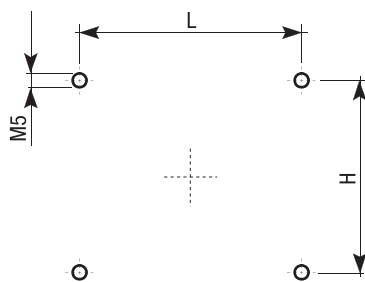
B110



B140



S40 - S90



Measures in mm (in)

Series	H	L
CA040	95	129
	3.74	5.08
CA063	111	4.37
	4.37	6.54

S10 - S20

