



# Acti9 Encapsulated Chassis

Catalogue 2022

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# Encapsulated Chassis

## Functions and characteristics

### Function

The enclosed system and shrouding of live parts provide higher levels of protection against direct contact and reduced potential hazards for electrical maintenance workers. The encapsulated chassis range caters to all your customers' electrical safety needs. It's also Australian-made to suit Australian standards and is adaptable to most commercial/industrial applications.

### Description

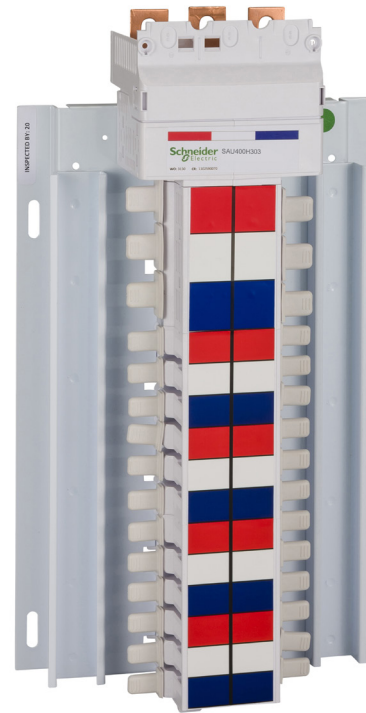
The encapsulated chassis range is adapted to a large variety of requirements and is already included in our Schneider Electric distribution boards.

### Technical data

- Available in single feed and dual feed
- Main Busbar rating 250 A and 400 A
- Available in various sizes up to 108 poles
- Short circuit withstand: 25 kA for 0.1 s
- Cover is provided along with the chassis for direct connection to NSX250 MCCB or INS250 switches
- Busbar shroud kit is available to maintain IP2X on unused incomer connections or Form of separation when the main switch is installed remotely
- Connection kit 400CK2 to NSX400 MCCB or INS400 Switch
- Tee-offs 50% with end-caps

### Compliance with AS/NZS 61439

Design Verification Guidelines are available to assist assembly manufacturers to carry out their design verification for the final completed assembly in accordance with AS/NZS 61439 series when using Schneider Electric's chassis and low voltage devices.



### Chassis connection

Main incomers connected to the busbar

- 3P, 4P INS250 (INS250-100 A, -160 A, -200 A, -250 A) INS320 & INS400 Switch disconnectors
- 3P, 4P NSX & NSX DC MCCBs, (100 A, 160 A, 250 A, 400 A)

### Choice of circuit protections

Suitable for all Acti 9 circuit protections,

- 1P, 2P, 3P, 4P iC60, 2P C60H-DC, 18 mm poles MCBs
- 1P, 2P, 3P C120, 27 mm poles MCBs
- 1P, 3P Vigi iC60, 18 mm poles Add-on RCDs,
- iC60, 18 mm poles RCBOs

Hybrid chassis can accommodate 18 and 27 mm poles devices.



#### ■ Standard compliance

The encapsulated chassis has been tested in assemblies up to 400 A in accordance with AS/NZS 61439-1

#### ■ Acti9 Circuit Protection

Suitable for use with standard Schneider Electric circuit protection MCBs, Add-on RCDs and RCBOs

#### ■ Wide offer

Three-phase chassis come in various sizes from in 12 to 108 poles 18 mm, 27 mm or hybrid chassis

#### ■ Universal feed option

The encapsulated chassis is available as a single end feed or dual feed for total flexibility

#### ■ Flexible chassis

Coloured phase identification labels are not attached to single feed chassis, so customers have the choice of top or bottom feed connection.

## Technical data

### Main characteristics

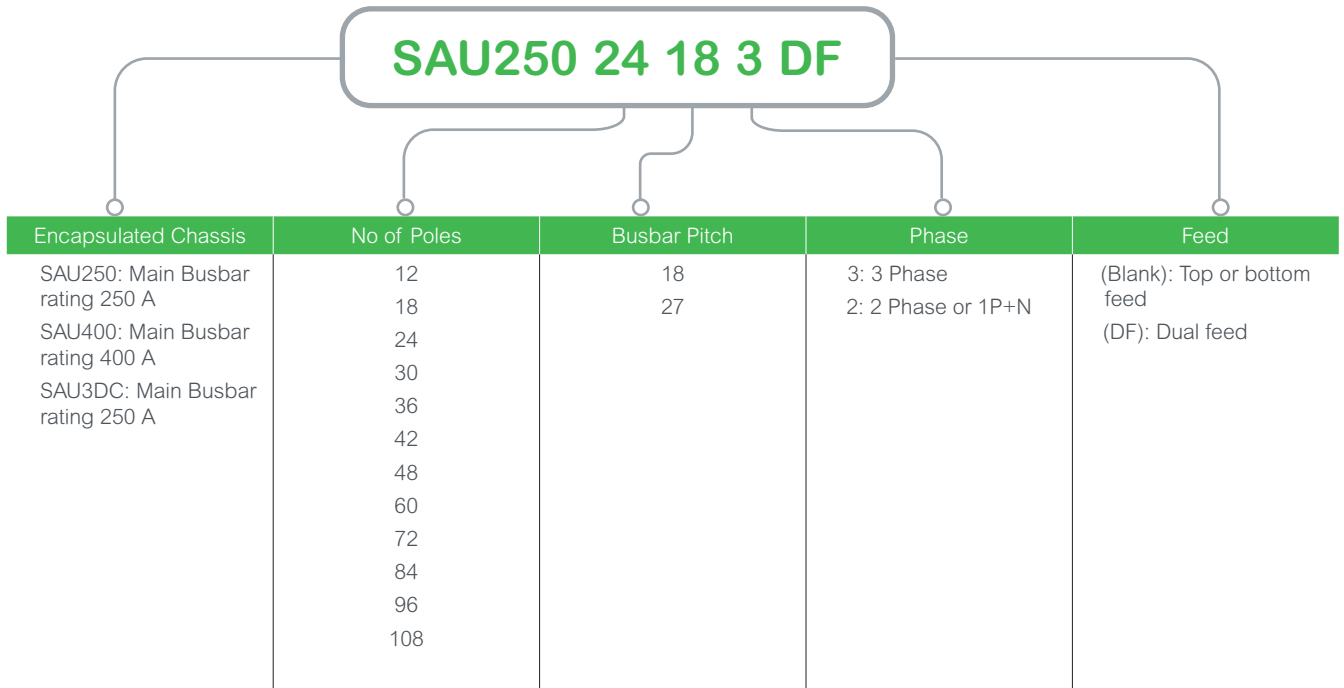
Rated voltage (Ue)	415 V a.c. 50 Hz
Rated insulation voltage (Ui)	500 V
Rated impulse withstand voltage (Uimp)	6 kV
Rated current of the assembly (InA) Max full assembly achieved based on AS/NZS 61439 Verification designs <sup>(1)</sup>	up to 250 A with INS250 Switch disconnecter up to 330 A with INS400 Switch disconnecter
Rated short time withstand current (Icw)	25 kA @ 0.1 s
Form of separation	2bi and 4aih
Pollution degree	3
Material group	IIIa
Resistance to abnormal heat and fire	<b>Glow Wire test:</b> 960 °C for chassis insulation 650 °C for tee-off end caps
Chassis Power Loss	Power or watts losses are dependent on the chassis size, length and current loading.

(1) Based on AS/NZS 61439 Design Verification guidelines:

- [SAU250 MCB Chassis - Design Verification Guidelines](#)
- [SAU400 MCB Chassis - Design Verification Guidelines](#)

# Naming conventions for Chassis

## Standard chassis



## Chassis 250 A 3 Ph, 18 mm for iC60 MCBs, RCBOs & Add-on Vigi block



SAU25024183

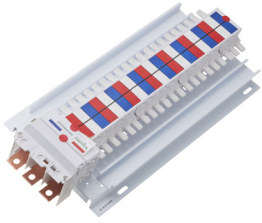
Pole capacity (18mm)	Top or Bottom Feed	Dual Feed
12 poles	SAU25012183	SAU25012183DF
18 poles	SAU25018183	SAU25018183DF
24 poles	SAU25024183	SAU25024183DF
30 poles	SAU25030183	SAU25030183DF
36 poles	SAU25036183	SAU25036183DF
42 poles	SAU25042183	SAU25042183DF
48 poles	SAU25048183	SAU25048183DF
60 poles	SAU25060183	SAU25060183DF
72 poles	SAU25072183	SAU25072183DF
84 poles	SAU25084183	SAU25084183DF
96 poles	SAU25096183	SAU25096183DF
108 poles	SAU250108183	SAU250108183DF

### Compatible devices for outgoing poles

for MCB	for RCBO	for Add-on Vigi block
1P, 2P, 3P iC60	1P+N iC60	1P+N, 3P+N iC60



## Chassis 400 A 3 Ph, 18 mm for iC60 MCBs, RCBOs & Add-on Vigti block



SAU40024183

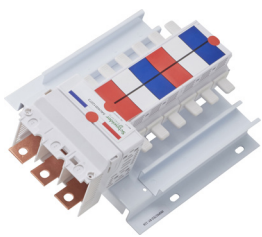
Pole capacity (18 mm)	Top or Bottom Feed	Dual Feed
12 poles	SAU40012183	SAU40012183DF
18 poles	SAU40018183	SAU40018183DF
24 poles	SAU40024183	SAU40024183DF
36 poles	SAU40036183	SAU40036183DF
48 poles	SAU40048183	SAU40048183DF
60 poles	SAU40060183	SAU40060183DF
72 poles	SAU40072183	SAU40072183DF
84 poles	SAU40084183	SAU40084183DF
96 poles	SAU40096183	SAU40096183DF

### Compatible devices for outgoing poles

for MCB	for RCBO	for Add-on Vigti block
1P, 2P, 3P iC60	1P+N iC60	1P+N, 3P+N iC60



## Chassis 400 A 3 Ph, 27 mm for C120 MCBs



SAU40012273

Pole capacity (27 mm)	Top or Bottom Feed	Dual Feed
12 poles	SAU40012273	SAU40012273DF
18 poles	SAU40018273	SAU40018273DF
24 poles	SAU40024273	SAU40024273DF
36 poles	SAU40036273	SAU40036273DF
48 poles	SAU40048273	SAU40048273DF
60 poles	SAU40060273	SAU40060273DF
72 poles	SAU40072273	SAU40072273DF

### Compatible devices for outgoing poles

for C120 MCB	for RCBO	for Add-on Vigti block
1P, 2P, 3P		



## Chassis 250 A 2 Ph, 18 mm for iC60 & C60H-DC MCBs, iC60 RCBOs & Add-on Vigi block



SAU3DC36182

Pole capacity (18 mm)	Top or Bottom Feed	Dual Feed
12 poles	SAU3DC12182	SAU3DC12182DF*
16 poles	SAU3DC16182	SAU3DC16182DF*
20 poles	SAU3DC20182	SAU3DC20182DF
24 poles	SAU3DC24182	SAU3DC24182DF
32 poles	SAU3DC32182	SAU3DC32182DF*
36 poles	SAU3DC36182	SAU3DC36182DF*
40 poles	SAU3DC40182	SAU3DC40182DF*
48 poles	SAU3DC48182	SAU3DC48182DF
60 poles	SAU3DC60182	SAU3DC60182DF*
72 poles	SAU3DC72182	SAU3DC72182DF*

Compatible devices for outgoing poles		
for MCB	for RCBO	for Add-on Vigi block
2P iC60, 2P iC60H-DC*	2P iC60	1P+N iC60



\* Be mindful of the polarity of C60H-DC MCBs

### Note:

\* This Product is not available online. Chat with us for order.

## Hybrid & Phase Neutral Chassis

SAU250 08 43N DF

Encapsulated Chassis	No of Poles	Pole Configuration	Feed
SAU250: Main Busbar rating 250 A	08	3: 3 Phase	Blank: Top or bottom feed
SAU400H: Main Busbar rating 400 A Hybrid	12	41N: 3*(1Ph+N)	DF: Dual feed
	16	43N: 3Ph+N	
	18		
	24		
	30		
	32		
	36		
	40		
	42		
	48		
	56		
	60		
	64		
	72		

### Chassis 250 A Phase Neutral 3\*(1 Ph+N), 18 mm for iC60 MCBs, RCBOs & Add-on Vigi block (N. R. N. W. N. B.)



SAU2501641NDF

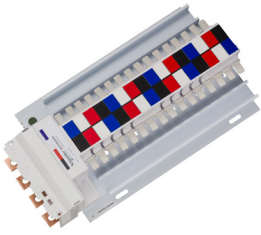
Pole capacity (18 mm)	Top or Bottom Feed	Dual Feed
8 poles	SAU2500841N	SAU2500841NDF
16 poles	SAU2501641N	SAU2501641NDF
24 poles	SAU2502441N	SAU2502441NDF
32 poles	SAU2503241N	SAU2503241NDF
40 poles	SAU2504041N	SAU2504041NDF
48 poles	SAU2504841N	SAU2504841NDF
56 poles	SAU2505641N	SAU2505641NDF
64 poles	SAU2506441N	SAU2506441NDF
72 poles	SAU2507241N	SAU2507241NDF

Compatible devices for outgoing poles

for MCB	for RCBO	for Add-on Vigi block
2P iC60	2P iC60	1P+N iC60



## Chassis 250 A Phase Neutral 3 Ph+ N, 18 mm for 4P iC60 MCBs & Add-on Vigi block (N. R. W. B.)



SAU2503243N

Pole capacity (18 mm)	Top or Bottom Feed	Dual Feed
8 poles	SAU2500843N	SAU2500843NDF
16 poles	SAU2501643N	
24 poles	SAU2502443N	
32 poles	SAU2503243N	
40 poles	SAU2504043N	
48 poles	SAU2504843N*	SAU2504843NDF
56 poles	SAU2505643N	SAU2505643NDF*
64 poles	SAU2506443N	SAU2506443NDF
72 poles	SAU2507243N	SAU2507243NDF

Compatible devices for outgoing poles		
for MCB	for RCBO	for Add-on Vigi block
4P iC60		3P+N iC60



## Chassis 400 A 3 Ph, Hybrid 18 & 27 mm for iC60 and C120 MCBs, iC60 RCBOs & Add-on Vigi block



SAU400H723

Pole capacity		Top or Bottom Feed	Dual Feed
18 mm	27 mm		
12 poles	6 poles	SAU400H183	SAU400H183DF
24 poles	6 poles	SAU400H303	SAU400H303DF
30 poles	12 poles	SAU400H423	SAU400H423DF
36 poles	12 poles	SAU400H483	
60 poles	12 poles	SAU400H723	SAU400H723DF
72 poles	12 poles	SAU400H843	SAU400H843DF

Compatible devices for outgoing poles			
for MCB	for RCBO	for Add-on Vigi block	
1P, 2P, 3P iC60	1P, 2P, 3P C120	1P+N iC60	1P+N, 3P+N iC60




Notes

\* This Product is not available online. Chat with us for order.



## Chassis Incomer devices with connection kit \*

		SAU 250		SAU 400
		Standard chassis	Phase Neutral	Standard chassis
		3P	4P or 3P+N	3P
Compact NSX				
				
Compact INS	Upto 250A direct connection		Upto 400A with chassis connection kit ref 400CK2*	

\*For chassis with incomers not listed in table, contact customer care

## Accessories

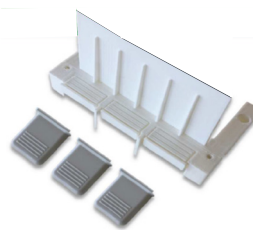
Reference	Description
400CK2	Chassis Connection kit for SAU400 chassis with INS400/NSX400
LV429516	Short (incoming) terminal shield for ComPact NSX100/160/250
LV429518	Long (incoming) terminal shield for ComPact NSX100/160/250
SAU250TAGCOVER	Busbar Incoming terminal shroud and tag kit for SAU250 and SAU400 chassis
SAUTOFFCAP18	18mm insulation boots for tee-offs, set of 300 pcs for SAU250 and SAU400 chassis
SAUTOFFCAP27	27mm insulation boots for tee-offs, set of 500 pcs for SAU250 and SAU400 chassis
SEA9BP	Blank terminal block 1P (no electrical connection)
SEA9TB1001	Terminal block - 100 A - 1P
SEA9TB1254	Terminal block - 125 A - 4P



400CK2



SEA9TB1254



SAU250TAGCOVER



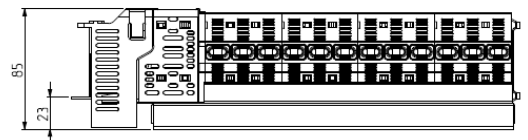
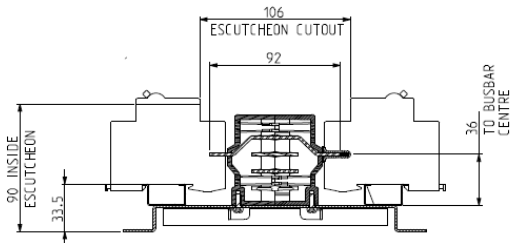
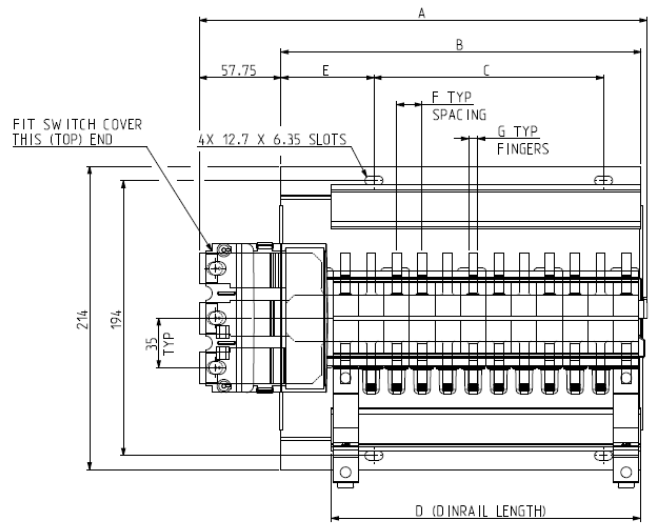
LV429516



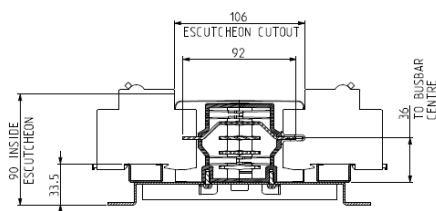
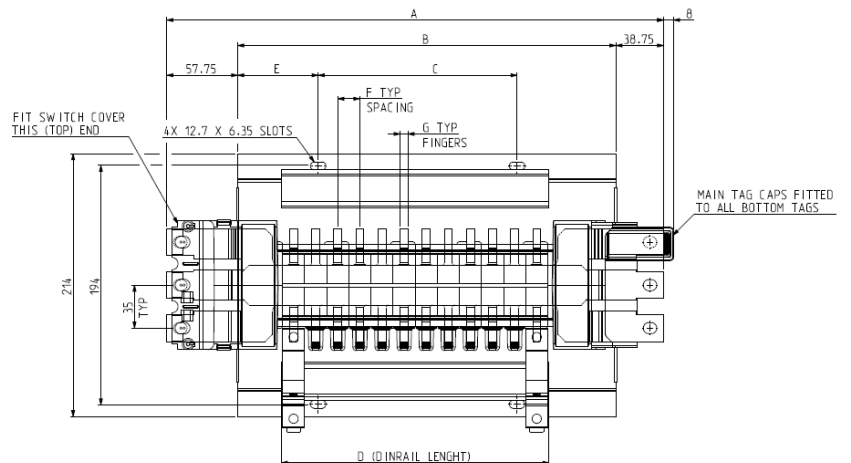
SEA9BP

# Dimension

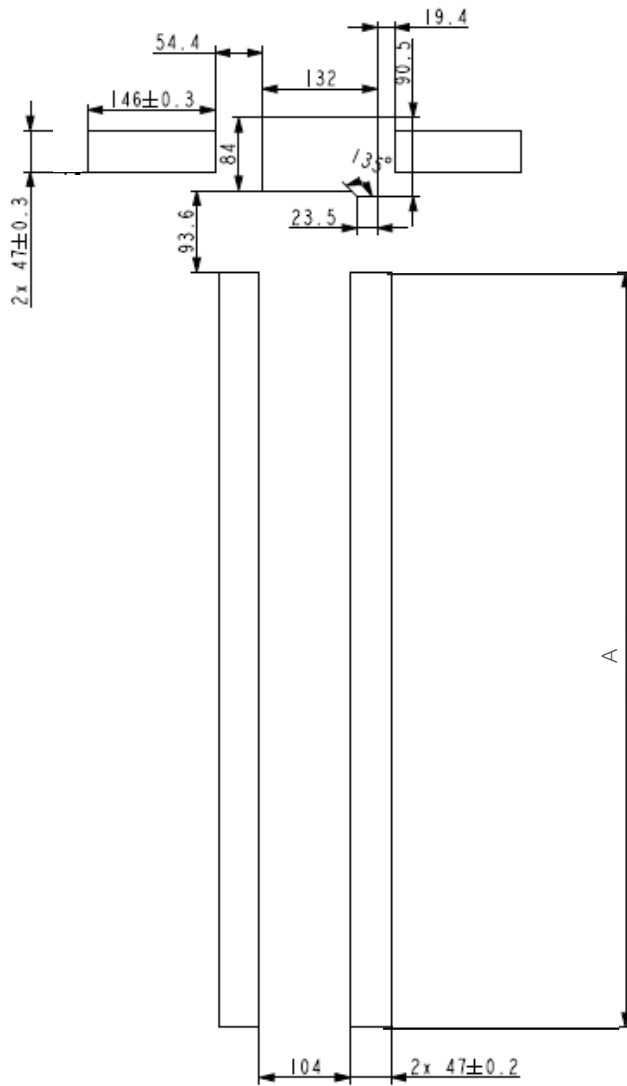
## Top or Bottom Feed



## Dual Feed



## Escutcheon cut out for Encapsulated Chassis



Dimensions details	
Pole size	Dimensiones A
12	110
18	164
24	218
30	272
36	326
42	380
48	434
60	542
72	650
84	758
96	866
108	974

**Note:**

The Escutcheon drawing is common for all variants of Encapsulated chassis. Refer to the table to find the dimension A.

## Top or Bottom Feed

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU25012183	12	208	146	54	110	65.5	18	6.5
SAU25018183	18	262	200	108	164			
SAU25024183	24	316	254	162	218			
SAU25030183	30	370	308	216	272			
SAU25036183	36	424	362	270	326			
SAU25042183	42	478	416	324	380			
SAU25048183	48	532	470	378	434			
SAU25060183	60	640	578	486	542			
SAU25072183	72	748	686	594	650			
SAU25084183	84	856	794	702	758			
SAU25096183	96	964	902	810	866			
SAU250108183	108	1072	1006	918	974			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU40012183	12	208	146	54	110	65.5	18	6.5
SAU40018183	18	262	200	108	164			
SAU40024183	24	316	254	162	218			
SAU40036183	36	424	362	270	326			
SAU40048183	48	532	470	378	434			
SAU40060183	60	640	578	486	542			
SAU40072183	72	748	686	594	650			
SAU40084183	84	856	794	702	758			
SAU40096183	96	964	902	810	866			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU40012273	12	262	200	81	164	77	27	10
SAU40018273	18	343	281	162	245			
SAU40024273	24	424	362	243	326			
SAU40036273	36	586	524	405	488			
SAU40048273	48	748	686	567	650			
SAU40060273	60	910	848	729	812			
SAU40072273	72	1072	1010	891	974			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU3DC12182	12	208	204	58	114	65.5	18	6.5
SAU3DC16182	16	244	236	90	146			
SAU3DC20182	20	254	216	144	180			
SAU3DC24182	24	316	308	162	218			
SAU3DC32182	32	388	380	234	290			
SAU3DC36182	36	418	360	252	324			
SAU3DC40182	40	460	452	306	362			
SAU3DC48182	48	532	524	378	434			
SAU3DC60182	60	640	632	486	542			
SAU3DC72182	72	748	740	594	650			

## Dual Feed

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU25012183DF	12	296.5	200	54	110	65.5	18	6.5
SAU25018183DF	18	350.5	254	108	164			
SAU25024183DF	24	404.5	308	162	218			
SAU25030183DF	30	458.5	362	216	272			
SAU25036183DF	36	512.5	416	270	326			
SAU25042183DF	42	566.5	470	324	380			
SAU25048183DF	48	620.5	524	378	434			
SAU25060183DF	60	728.5	632	486	542			
SAU25072183DF	72	836.5	740	594	650			
SAU25084183DF	84	944.5	848	702	758			
SAU25096183DF	96	1052.5	956	810	866			
SAU250108183DF	108	1160.5	1060	918	974			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU40012183DF	12	296.5	200	54	110	65.5	18	6.5
SAU40018183DF	18	350.5	254	108	164			
SAU40024183DF	24	404.5	308	162	218			
SAU40036183DF	36	512.5	416	270	326			
SAU40048183DF	48	620.5	524	378	434			
SAU40060183DF	60	728.5	632	486	542			
SAU40072183DF	72	836.5	740	594	650			
SAU40084183DF	84	944.5	848	702	758			
SAU40096183DF	96	1052.5	956	810	866			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU40012273DF	12	350.5	254	81	164	77	27	10
SAU40018273DF	18	431.5	335	162	245			
SAU40024273DF	24	512.5	416	243	326			
SAU40036273DF	36	674.5	578	405	488			
SAU40048273DF	48	836.5	740	567	650			
SAU40060273DF	60	998.5	902	729	812			
SAU40072273DF	72	1160.5	1064	891	974			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU3DC12182DF	12	300.5	204	58	114	65.5	18	6.5
SAU3DC16182DF	16	332.5	236	90	146			
SAU3DC20182DF	20	368.5	266	144	180			
SAU3DC24182DF	24	404.5	308	162	218			
SAU3DC32182DF	32	476.5	380	234	290			
SAU3DC36182DF	36	512.5	410	252	324			
SAU3DC40182DF	40	548.5	452	306	362			
SAU3DC48182DF	48	620.5	524	378	434			
SAU3DC60182DF	60	728.5	632	486	542			
SAU3DC72182DF	72	836.5	740	594	650			

## Top or Bottom Feed

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU2500841N	8	172	110	18	74	65.5	18	6.5
SAU2501641N	16	244	182	90	146			
SAU2502441N	24	316	254	162	218			
SAU2503241N	32	388	326	234	290			
SAU2504041N	40	460	398	306	362			
SAU2504841N	48	532	470	378	434			
SAU2505641N	56	604	542	450	506			
SAU2506441N	64	676	614	522	578			
SAU2507241N	72	748	686	594	650			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU2500843N	8	172	110	18	74	65.5	18	6.5
SAU2501643N	16	244	182	90	146			
SAU2502443N	24	316	254	162	218			
SAU2503243N	32	388	326	234	290			
SAU2504043N	40	460	398	306	362			
SAU2504843N	48	532	470	378	434			
SAU2505643N	56	604	542	450	506			
SAU2506443N	64	676	614	522	578			
SAU2507243N	72	748	686	594	650			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU400H183	12	235	173	67.5	137	77	27 & 18	10 & 6.5
SAU400H303	24	343	281	175.5	245			
SAU400H423	30	397	335	229.5	299			
SAU400H483	36	451	389	283.5	353			
SAU400H723	60	667	605	499.5	596			
SAU400H843	72	775	713	607.5	704			

## Dual Feed

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU2500841NDF	8	260.5	164	18	74	65.5	18	6.5
SAU2501641NDF	16	332.5	236	90	146			
SAU2502441NDF	24	404.5	308	162	218			
SAU2503241NDF	32	476.5	380	234	290			
SAU2504041NDF	40	548.5	452	306	362			
SAU2504841NDF	48	620.5	524	378	434			
SAU2505641NDF	56	692.5	596	450	506			
SAU2506441NDF	64	764.5	668	522	578			
SAU2507241NDF	72	836.5	740	594	650			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU2500843NDF	8	260.5	164	18	74	65.5	18	6.5
SAU2504843NDF	48	620.5	524	378	434			
SAU2505643NDF	56	692.5	596	450	506			
SAU2506443NDF	64	764.5	668	522	578			
SAU2507243NDF	72	836.5	740	594	650			

REFERENCE NUMBER	NUMBER OF POLES	A	B	C	D	E	F	G
SAU400H183DF	12	323.5	227	67.5	137	77	27 & 18	10 & 6.5
SAU400H303DF	24	431.5	335	175.5	245			
SAU400H423DF	30	485.5	389	229.5	299			
SAU400H723DF	60	755.5	659	499.5	596			
SAU400H843DF	72	863.5	767	607.5	704			

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