



**100 AMPS** 

SEC100 - Normally Open SEC100 - Normally Closed **200 AMPS** 

SEO200 - Normally Open SEC200 - Normally Closed **400 AMPS** 

SEO400 - Normally Open SEC400 - Normally Closed

100 Amps

Single Pole Single Throw Normally Closed



E01	00 Coil Driver
	Watts

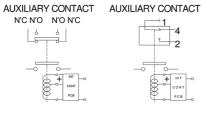
•			
Standard - operates as conventional CO coil	5 - 7W	С	
Intermittent	10 - 14W	- 1	
Magnetic Latching <sup>1</sup>	10 - 14W	М	
Dual Coil <sup>1</sup>	Starting: up to 100W	D	
Duai Coli	Holding: 3W	D	

<sup>1</sup> Coil Polarity Markings must be Observed

# **SEO100 Connection Diagrams**

SEO100A	SEO100C
UXILIARY CONTACT N'C N'O N'O N'C	AUXILIARY CONTACT

Conventional or Magnetic Latching



Dual Coil

Coil Polarity markings must be observed for Magnetic Latching and Dual Coil options, or when suppression fitted.

For Magnetic Latching coils: Supply positive to coil '+' to close switch Supply positive to coil '-' to open switch

## SEO100 & SEC100 Technical Data Continuous Current Rating (Ith)

Continuous Current (Cating ( til)	100/1
Configuration:	
SEO100	Normally Open
SEC100	Normally Closed
Pole	Single
Throw	Single
Temperature	- 40°C to + 60°C
Main Contact Rated Voltage	Up to 60V D.C.
mV Drop	50mV at 100A
Pull-in Voltage	max 66% of nominal
Drop-Out Voltage	10 - 25% of nominal
Pull-In Time	15ms typical
Drop-Out Time:	
Without Suppression	6ms
With Suppression <sup>1</sup>	35ms
Contact Bounce	3ms typical
Insulation Voltage (Dialectric Strength)	1000V A.C.
Mechanical Life	>1,000,000
Electric Life Number of Cycles (100A at 60V)	6000 cycles in accordance with GB14048.4 (CCC)
Weight	250gms
Note: Figures are at 20°C	

<sup>1</sup> Coil Polarity Markings must be Observed

#### **SEC100 Connection Diagram** SEO100 & SEC100 Available Coil Voltages

Further Options Available

## SEO100 & SEC100 Part Numbering SEO100A-60\_SF-001 Unique Identifier Bracket Coil Suppression Fitted (optional) Coil Driver<sup>1</sup> Rated Coil Voltage Auxiliary (Optional) Rated Current Configuration Type

12V 24V 30V 36V 48V 60V 72V 120V

<sup>1</sup> Suffix will depend on coil driver option chosen (C,I,M or D)

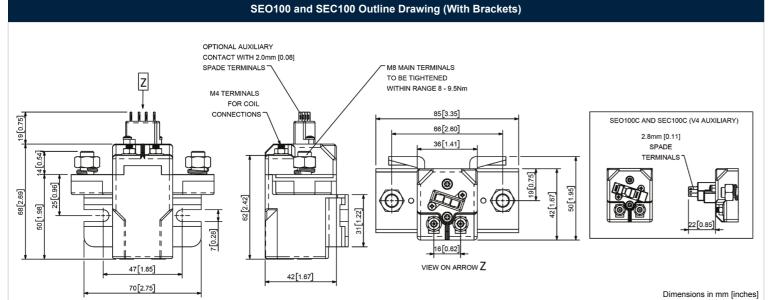
<sup>1</sup> Coil Polarity markings must be observed

SEC100A	SEC100C
AUXILIARY CONTACT N'O N'C N'C N'O  H NT CONT CONT CONT PER	AUXILIARY CONTACT  1 4 2

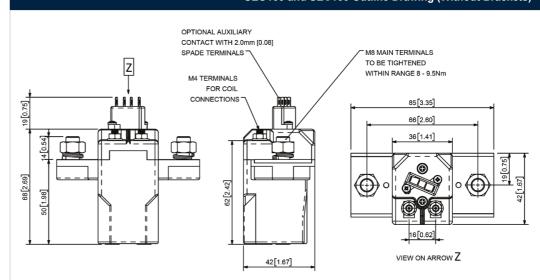


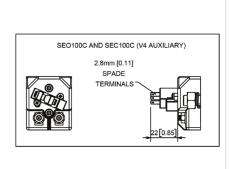
SEO100 & SEC100 Options	Note	Suffix
Configuration	Normally Open	0
	Normally Closed	С
Auxiliary	Form Z	Α
	Form C (V4)	С
Coil Suppression <sup>1</sup>	Diode or PCB (Dual Coil)	S
Brackets	Please refer to Drawing for Options	F1
Note: Silver Plating is provided as stand	dard, but can be removed at the option of the	customer. Please consult our

SEC100 Coil Driver		
Description Watts Suffix		
Dual Coil <sup>1</sup>	Starting: up to 100W	D
Dual Coll.	Holding: 3W	
<sup>1</sup> Coil Polarity Markings must be Observed		



#### SEO100 and SEC100 Outline Drawing (Without Brackets)





Dimensions in mm [inches]

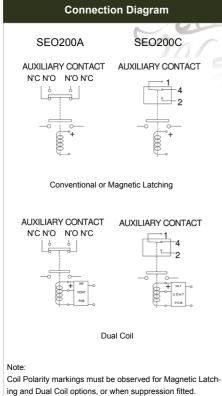




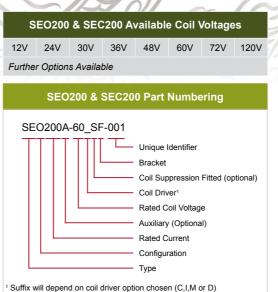
*SEC*200

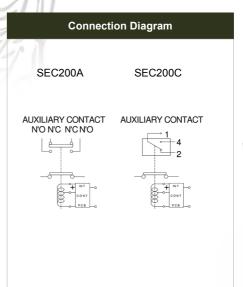


SEO200 Coil Driver			
Description	Watts	Suffix	
Standard - operates as conventional CO coil	7 - 13W	С	
Intermittent	15 - 20W	I	
Magnetic Latching <sup>1</sup>	15 - 20W	М	
Dual Coil <sup>1</sup>	Starting: up to 200W	D	
Dual Coll	Holding: 5W	D	
<sup>1</sup> Coil Polarity Markings must be Observed			



			TO	~)
Connection Diagram		on Diagram	SEO200 & SEC200 Technical Data	
	050001		Continuous Current Rating (Ith)	200A
	SEO200A	SEO200C	Configuration:	
	AUXILIARY CONTACT	AUXILIARY CONTACT	SEO200	Normally Open
	N'C N'O N'O N'C	1	SEC200	Normally Closed
		2	Pole	Single
	-		Throw	Single
	+	+	Temperature	- 40°C to + 60°C
	Ψ.	<b>—</b>	Main Contact Rated Voltage	Up to 60V D.C.
	Conventional or	Magnetic Latching	mV Drop	50mV at 200A
	Conventional of i	wagnetic Latering	Pull-in Voltage	max 66% of nominal
	ALIVILLADV CONTACT		Drop-Out Voltage	10 - 25% of nominal
	AUXILIARY CONTACT N'C N'O N'O N'C	AUXILIARY CONTACT	Pull-In Time	15ms typical
		4	Drop-Out Time:	
			Without Suppression	6ms
ı	+ NT - ONT -	——————————————————————————————————————	With Suppression <sup>1</sup>	35ms
	PCB	PCB O	Contact Bounce	3ms typical
	Di	ual Coil	Insulation Voltage (Dialectric Strength)	1000V A.C.
			Mechanical Life	>1,000,000
	Note: Coil Polarity markings must be observed for Magnetic Latching and Dual Coil options, or when suppression fitted.		Electric Life Number of Cycles (200A at 60V)	6000 cycles in accordance with GB14048.4 (CCC)
			Weight	490gms
	For Magnetic Latching coils: Supply positive to coil '+' to c	lose switch	Note: Figures are at 20°C	
	Supply positive to coil '-' to op	pen switch	<sup>1</sup> Coil Polarity Markings must be Ob	served



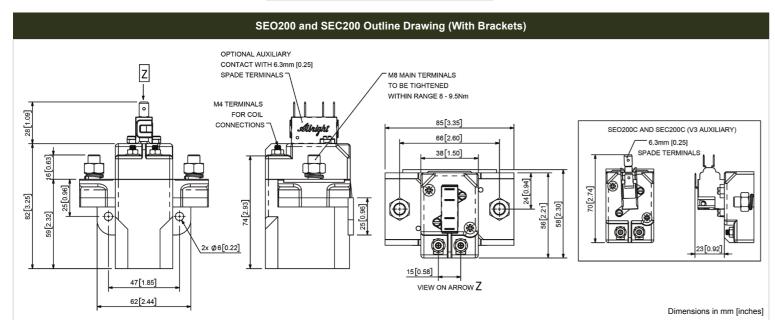


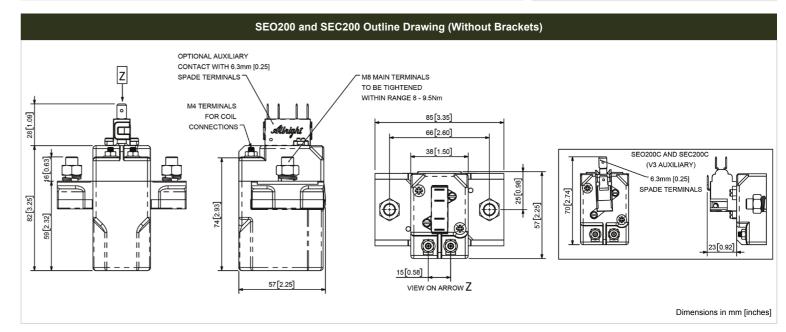
SEO200 & SEC200 Options	Note	Suffix		
Configuration	Normally Open	0		
	Normally Closed	С		
Auxiliary	Form Z	Α		
	Form C (V3)	С		
Coil Suppression <sup>1</sup>	Diode or PCB (Dual Coil)	S		
Brackets	Please refer to Drawing for Options			
Note: Silver Plating is provided as standard, but can be removed at the option of the customer. Please consult our Technical Department for further advice.				
<sup>1</sup> Coil Polarity markings must be observed				

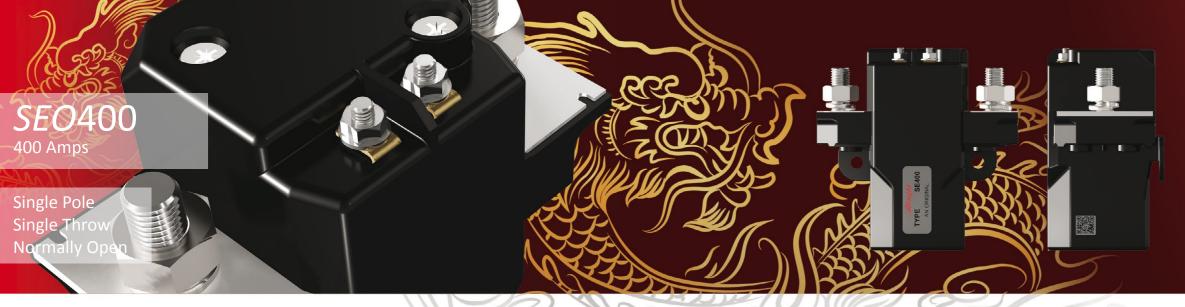


SE200A

SEC200 Coil Driver		
Description	Watts	Suffix
Dual Coil <sup>1</sup>	Starting: up to 200W	D
Duai Coll <sup>1</sup>	Holding: 5W	
<sup>1</sup> Coil Polarity Markings must be Observed		









# *SEC*400

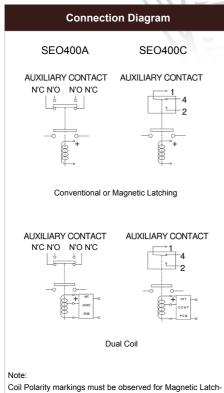
400 Amps

Single Pole Single Throw Normally Closed



### SE400

SEO400 Coil Driver			
Description	Watts	Suffix	
Standard - operates as conventional CO coil	10 - 15W	С	
Intermittent	30 - 40W	1	
Magnetic Latching <sup>1</sup>	30 - 40W	М	
Dual Coil <sup>1</sup>	Starting: up to 330W	D	
Dual Coll <sup>*</sup>	Holding: 6W		
<sup>1</sup> Coil Polarity Markings must be Observed			



		(2)
Connectio	n Diagram	SEO400 & SEC
0504004	0504000	Continuous Current Rating (It
SEO400A	SEO400C	Configuration:
XILIARY CONTACT	AUXILIARY CONTACT	SEO400
I'C N'O N'O N'C	1	SEC400
	2	Pole
		Throw
+	*+	Temperature
₩.	₩.	Main Contact Rated Voltage
		mV Drop
Conventional or M	Magnetic Latching	Pull-in Voltage
		Drop-Out Voltage
RY CONTACT	AUXILIARY CONTACT	Pull-In Time
N'O N'C	1 4	Drop-Out Time:
<del>_</del>	2	Without Suppression
		With Suppression <sup>1</sup>
CONT	CONT CONT	Contact Bounce
Due	ual Coil	Insulation Voltage (Dialectric Strength)
Duc		Mechanical Life
-	observed for Magnetic Latch- hen suppression fitted.	Electric Life Number of Cycles (400A at 60V)
atabina asile:		Weight
ching coils: coil '+' to clo:	se switch	Note: Figures are at 20°C
o coil '-' to ope		<sup>1</sup> Coil Polarity Markings must be

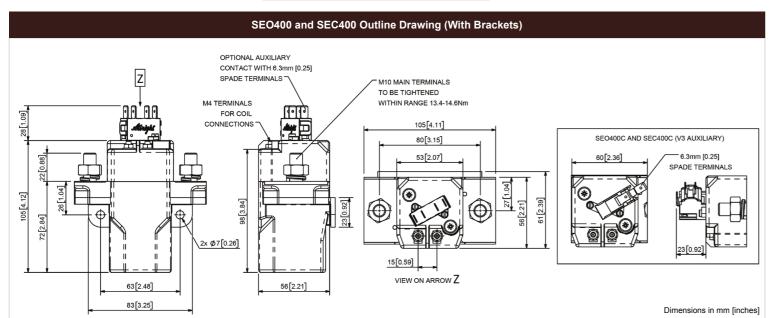
		/ 14/1	11/		C				
	. 6	s	EO400	& SE(	C400 A	vailable	e Coil \	/oltage	es
		12V	24V	30V	36V	48V	60V	72V	120V
		Furthe	r Option	s Availa	ble				
า									
ed		SEO400 & SEC400 Part Numbering							
C ).		SE	O400A	A-60_SF	=-001 	Bracket	Identifier	Fitted (or	ntional)
4		Coil Suppression Fitted (option Coil Driver¹ Rated Coil Voltage							, , , , , , , , , , , , , , , , , , ,
inal									
inal			'			-	(Optiona	al)	
			_			Rated C			
						Configure Type	ration		
		¹ Suffix v	vill denen	d on coil	driver ont	iype ion chose	n (C I M c	or D)	

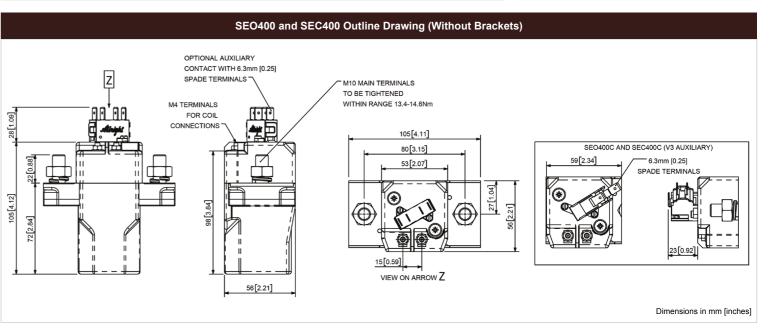
Connectio	n Diagram
SEC400A	SEC400C
AUXILIARY CONTACT N'O N'C N'C N'O  THE TOTAL CONTACT N'O N'O N'O  THE TOTAL CONTACT N'O N'O N'O N'O  THE TOTAL CONTACT N'O N'O N'O N'O  THE TOTAL CONTACT N'O	AUXILIARY CONTACT  1 4 2

SEO400 & SEC400 Options	Note	Suffix			
Configuration	Normally Open	0			
	Normally Closed	С			
Auxiliary	Form Z	A			
	Form C (V3)	С			
Coil Suppression <sup>1</sup>	Diode or PCB (Dual Coil)	S			
Brackets	Please refer to Drawing for Options				
Note: Silver Plating is provided as standard, but can be removed at the option of the customer. Please consult our Technical Department for further advice.					
<sup>1</sup> Coil Polarity markings must be observed					



SEC400 Coil Driver				
Description	Watts	Suffix		
Dual Coil <sup>1</sup>	Starting: up to 330W	D		
Duai Coii	Holding: 6W			
<sup>1</sup> Coil Polarity Markings	must be Observed			







#### Please Note:

- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com Albright reserve the right to change data without prior notice