



Our new Dragon Series, which consists of the SE type contactor, are a unique and innovative design of compact contactor suitable for applications including UPS and Telecom Power Systems, Electric Vehicles and Frequency Converters. The series offers a Normally Open, Single Pole, Single Throw configuration and are rated from 100 to 400 amps continuously. Coil driver options include Standard and Magnetic Latching options.

Directly compatible with existing contactors within the market, the Dragon Series offers superior performance, size and quality.



100 AMPS

200 AMPS

400 AMPS

SEO100 - Normally Open

SEO200 - Normally Open

SEO400 - Normally Open



SEO100 100 Amps

> Single Pole Single Throw Normally Open

SEO Contactor Part Numbering SEO100A-60 SF Coil Suppression Fitted (optional) Coil Driver¹ Rated Coil Voltage Auxiliary (Optional) Rated Current Normally Open ¹ Suffix will depend on coil driver option chosen (C,I or M)

SEO Contactor Available Coil Voltages				
24V	30V	36V	48V	60V
Further Optio	ns Available			

Auxiliary Contact			
Auxiliary Thermal Current Rating 5A			
Auxiliary Contact Switching Capabilities (Resistive Load):			
SEOC	SEOA		
5A at 24V D.C.			
1A at 60V D.C.			
0.5A at 120V D.C.			
0.25A at 240V D.C.			







SEO Contactor Options	Note	Suffix
Configuration	Normally Open	0
Auxiliary	Form Z	Α
	Form C (V4)	С
Coil Suppression ¹	Diode	s
Brackets	Please refer to Drawing for Options	F
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		

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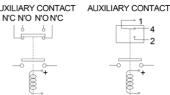
¹ Coil Polarity markings must be observed

SEO100 Connection Diagrams

Conventional or Magnetic Latching

SEO100A SEO100C

AUXILIARY CONTACT



SEO100 Technical Data

100A

Normally Open

Single

Single

- 40°C to + 70°C

Up to 60V D.C.

50mV

max 66% of nominal

10 - 25% of nominal

15ms typical

6ms

35ms

3ms typical

1500V A.C.

>1,000,000 operations

>10,000 operations

IP40 30g acceleration; 18mS; half

sinusoidal wave form in accordance with IEC60068-2-27 10-500Hz frequency; 5g acceleration; in 3 axes in

accordance with IEC60068-2-6

250gms

Continuous Current Rating (Ith)

SEO100

Pull-in Voltage

Pull-In Time

Drop-Out Time: Without Suppression

Contact Bounce

Mechanical Life

IP Rating

Shock

Weight

Insulation Voltage

(Dielectric Strength)

Electrical Life² (100A at 60V):

Note: Figures are at 20°C

¹ Coil Polarity Markings must be Observed

technical@albrightinternational.com

² For further advice, please contact Albright Technical at

Note: Operational characteristics are with new contacts

With Suppression¹

Drop-Out Voltage

Ambient Temperature

Main Contact Rated Voltage

Typical Voltage Drop across New Contacts at 100A

Pole

Throw

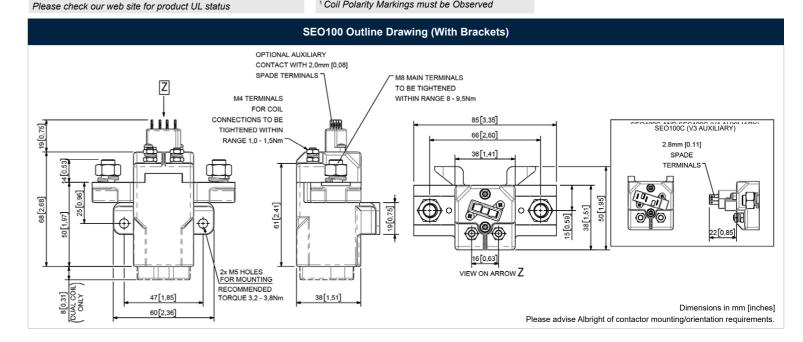
Coil Polarity markings must be observed for Magnetic Latching or when suppression fitted.

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

SEO100 Coil Driver			
Description	Watts	Suffix	
Standard - operates as conventional CO coil	5 - 7W	С	
Intermittent	10 - 14W	1	
Magnetic Latching ¹	10 - 14W	М	
¹ Coil Polarity Markings must be Observed			



SEO100



SEO400 400 Amps

> Single Pole Single Throw Normally Open



SE200

Connection Diagram

Conventional or Magnetic Latching

SEO200A

AUXILIARY CONTACT AUXILIARY CONTACT





SEO200C

Coil Polarity markings must be observed for Magnetic Latching or when suppression fitted.

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

SEO200 Coil Driver		
Description	Watts	Suffix
Standard - operates as conventional CO coil	7 - 13W	С
Intermittent	15 - 20W	- 1
Magnetic Latching ¹	15 - 20W	М
¹ Coil Polarity Markings must be Observed		

SEO200 Technical Data			
Continuous Current Rating (Ith)	200A		
Configuration:			
SEO200	Normally Open		
Pole	Single		
Throw	Single		
Ambient Temperature	- 40°C to + 70°C		
Main Contact Rated Voltage	Up to 60V D.C.		
Typical Voltage Drop per pole across New Contacts at 200A	50mV		
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 ¹	35ms		
Contact Bounce	3ms typical		
Insulation Voltage (Dielectric Strength)	1500V A.C.		
Mechanical Life:	>1,000,000 operations		
Electrical Life ² (200A at 60V):	>10,000 operations		
IP Rating	IP40		
Shock	30g acceleration; 18mS; half sinusoidal wave form in accordance with IEC60068-2-27		
Vibration	10-500Hz frequency; 5g acceleration; in 3 axes in accordance with IEC60068-2-6		
Weight	490gms		
Note: Figures are at 20°C			
¹ Coil Polarity Markings must be Observed			
² For further advice, please contact Albright Technical at			

technical@albrightinternational.com

Note: Operational characteristics are with new contacts

	Continuous Current Rating (Ith)
	Configuration:
	SEO400
	Pole
	Throw
	Ambient Temperature
	Main Contact Rated Voltage
	Typical Voltage Drop across New Contacts at 400A
nal	Pull-in Voltage
nal	Drop-Out Voltage
	Pull-In Time
	Drop-Out Time:
	Without Suppression
	With Suppression ¹
	Contact Bounce
	Insulation Voltage (Dielectric Strength)
ons	Mechanical Life:
ns	Electrical Life ² (400A at 60V):
	IP Rating
nS; half m in 068-2-27	Shock
cy; axes in 1068-2-6	Vibration
	Weight
	Note: Figures are at 20°C
	¹ Coil Polarity Markings must be
	² For further advice, please conta

ings must be Observed

² For further advice, please contact Albright Technical at technical@albrightinternational.com Note: Operational characteristics are with new contacts

SEO400 Technical Data

400A

Normally Open

Single

Single

- 40°C to + 70°C

Up to 60V D.C. 50mV max 66% of nominal 10 - 25% of nominal 15ms typical

> 6ms 35ms

3ms typical

1500V A.C.

>1,000,000 operations

>10,000 operations

30g acceleration; 18mS; half sinusoidal wave form in accordance with IEC60068-2-27 10-500Hz frequency; 5g acceleration; in 3 axes in

accordance with IEC60068-2-6 830gms

Please check our web site for product UL status

Connection Diagram

Conventional or Magnetic Latching

SEO400A SEO400C

AUXILIARY CONTACT AUXILIARY CONTACT N'C N'O N'ON'C





Coil Polarity markings must be observed for Magnetic Latching or when suppression fitted.

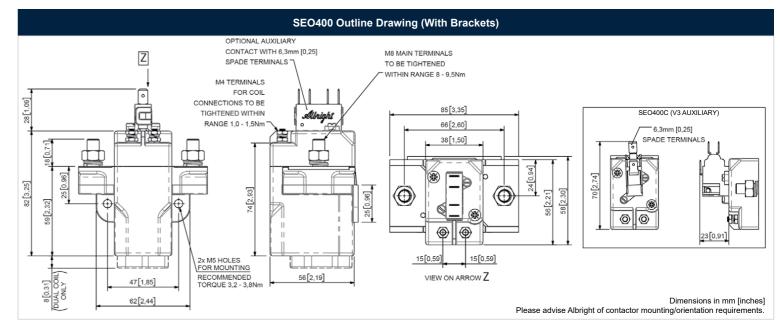
For Magnetic Latching coils: Supply positive to coil '+' to close switch Supply positive to coil '-' to open switch

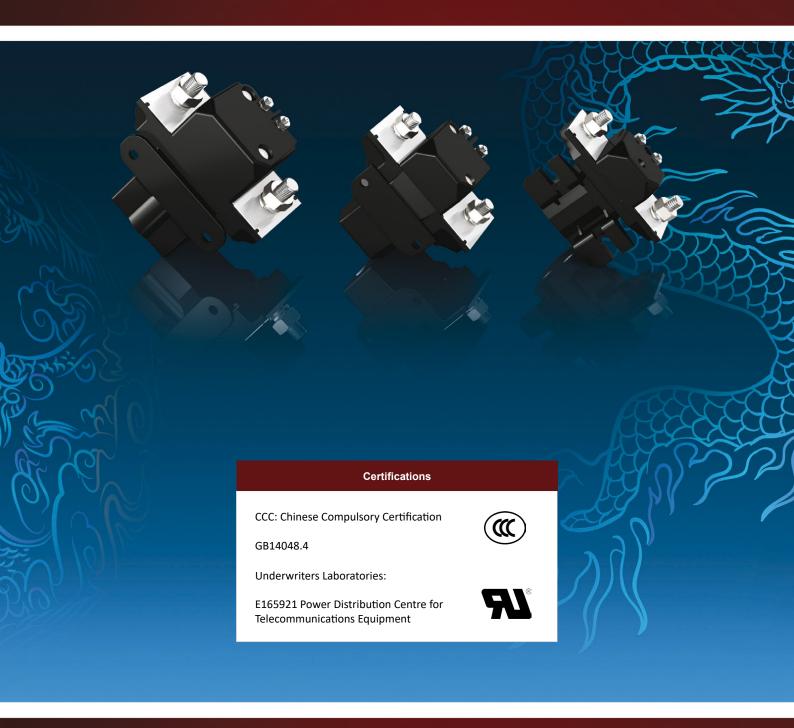
SEO400	Coil Driver	
Description	Watts	Suffix
Standard - operates as conventional CO coil	10 - 15W	С
ntermittent	30 - 40W	1
Magnetic Latching ¹	30 - 40W	М
Coil Polarity Markings	must be Observed	



SE400

¹ Coil Polarity Markings must be Observed	Please check our web site for product UL status		
SEO200 Outline Drawing (With Brackets)			
OPTIONAL AUXILIARY CONTACT WITH 6,3mm [0,25] SPADE TERMINALS TO BE TIGHTENED WITHIN RANGE 8 - 9,5Nm M4 TERMINALS FOR COIL CONNECTIONS TO BE TIGHTENED WITHIN RANGE 1,0 - 1,5Nm RANGE 1,0 - 1,5Nm RANGE 1,0 - 1,5Nm RANGE 1,0 - 3,5Nm 2x M5 HOLES FOR MOUNTING RECOMMENDED TORQUE 3,2 - 3,8Nm NEW MAIN TERMINALS TO BE TIGHTENED WITHIN RANGE 8 - 9,5Nm WITHIN RANGE 8 - 9,5Nm VIEW ON ARROW Z	SEO200C (V3 AUXILIARY) 6,3mm [0,25] SPADE TERMINALS P(2,7) 9 23[0,91]		
62[2,44]	Dimensions in mm [inches] Please advise Albright of contactor mounting/orientation requirements.		





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.
- Please advise Albright of contactor mounting/orientation requirements. Mounting can be horizontal or vertical, but orientation should be reviewed.
- For further technical advice email: technical@albrightinternational.com
- Albright reserve the right to change data without prior notice.
- Please check our web site for product UL status

www.albrightinternational.com