

Albright
International

DRAGON SERIES



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

SEO100 - Normally Open

200 AMPS

SEO200 - Normally Open

400 AMPS

SEO400 - Normally Open

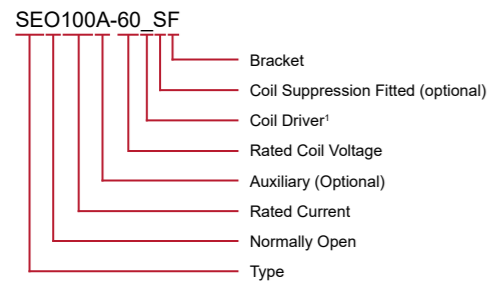
SEO Contactors

Single Pole
Single Throw
Normally Open

SEO100 100 Amps

Single Pole
Single Throw
Normally Open

SEO Contactor Part Numbering



¹ Suffix will depend on coil driver option chosen (C, I or M)

SEO Contactor Available Coil Voltages

24V	30V	36V	48V	60V
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Further Options 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.

SEO100 Technical Data

Continuous Current Rating (1/3h)	100A
Configuration:	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 across New Contacts at 100A	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 Suppression¹	35ms
Contact Bounce	3ms typical
Insulation Voltage (Dielectric Strength)	1500V A.C.
Mechanical Life	>1,000,000 operations
Electrical Life² (100A 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	250gms

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

Please check our web site for product UL status

SEO100 Connection Diagrams

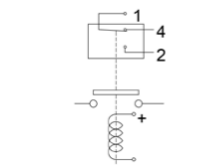
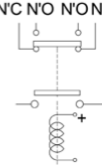
Conventional or Magnetic Latching

SEO100A

SEO100C

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

AUXILIARY CONTACT



Note:
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



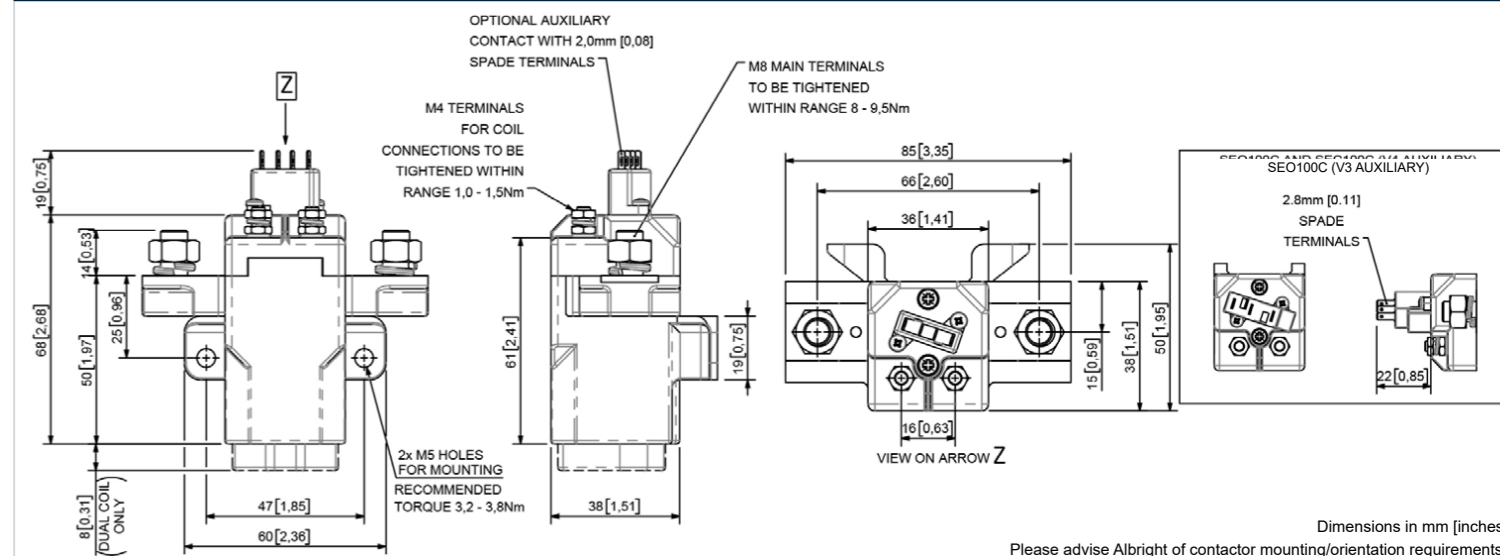
SEO100

SEO100 Coil Driver

Description	Watts	Suffix
Standard - operates as conventional CO coil	5 - 7W	C
Intermittent	10 - 14W	I
Magnetic Latching¹	10 - 14W	M

¹ Coil Polarity Markings must be Observed

SEO100 Outline Drawing (With Brackets)



SEO Contactor Options	Note	Suffix
Configuration	Normally Open	O
Auxiliary	Form Z	A
	Form C (V4)	C
Coil Suppression¹	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.

¹ Coil Polarity markings must be observed

SEO200

200 Amps

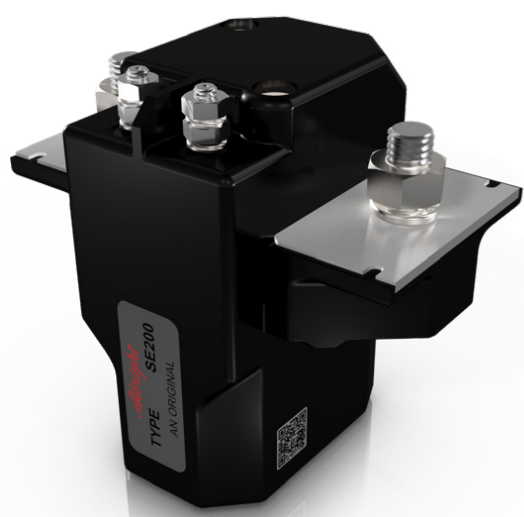
Single Pole
Single Throw
Normally Open



SEO400

400 Amps

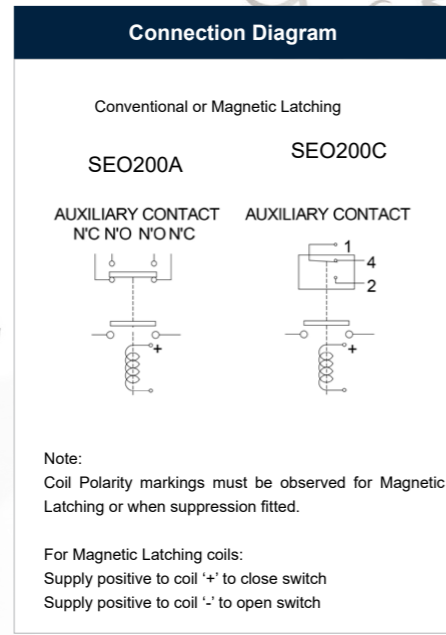
Single Pole
Single Throw
Normally Open



SE200



SE400



SEO200 Coil Driver

Description	Watts	Suffix
Standard - operates as conventional CO coil	7 - 13W	C
Intermittent	15 - 20W	I
Magnetic Latching ¹	15 - 20W	M

¹ Coil Polarity Markings must be Observed

SEO200 Technical Data

Continuous Current Rating (I _{th})	200A
Configuration:	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

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Note: Operational characteristics are with new contacts
Please check our web site for product UL status

SEO400 Technical Data

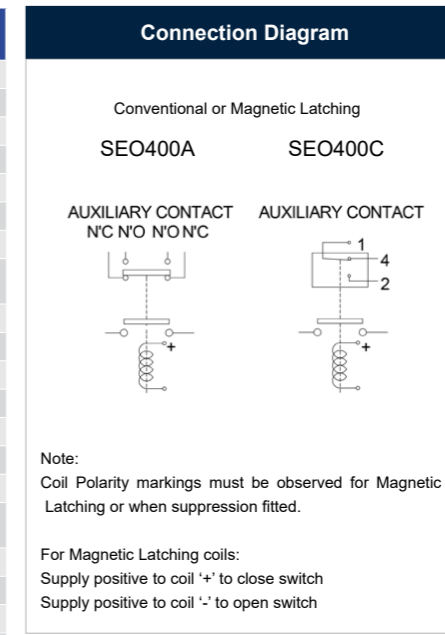
Continuous Current Rating (I _{th})	400A
Configuration:	Normally Open
Pole	Single
Throw	Single
Ambient Temperature	- 40°C to + 70°C
Main Contact Rated Voltage	Up to 60V D.C.
Typical Voltage Drop across New Contacts at 400A	50mV
Pull-in Voltage	max 66% of nominal
Drop-Out Voltage	10 - 25% of nominal
Pull-In 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 (400A 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	830gms

Note: Figures are at 20°C

¹ Coil Polarity Markings must be Observed

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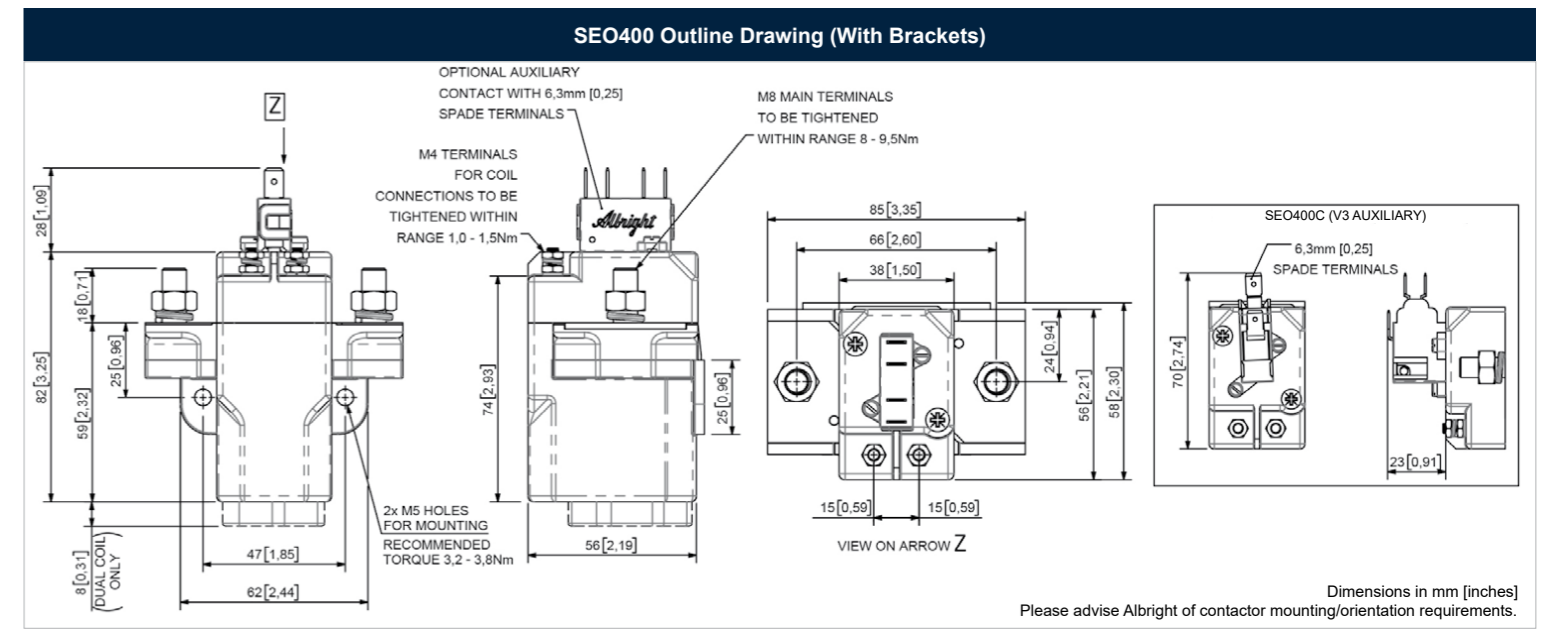
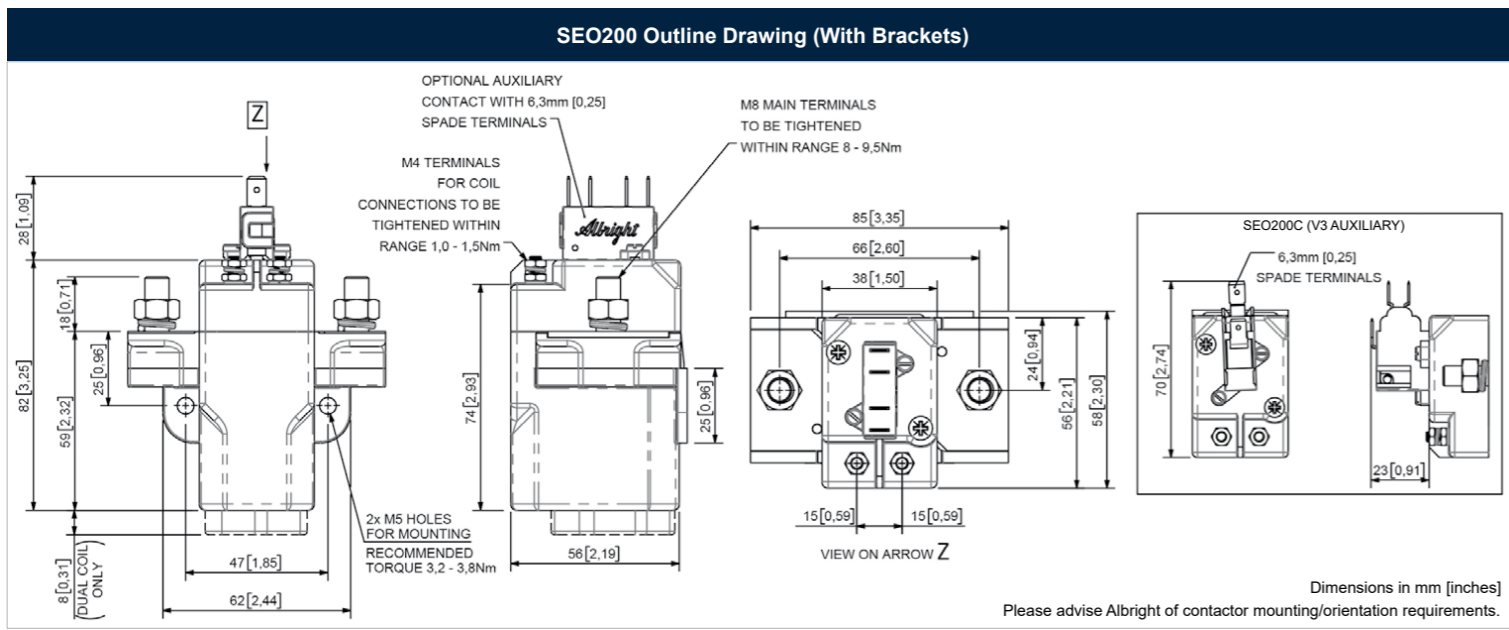
Note: Operational characteristics are with new contacts
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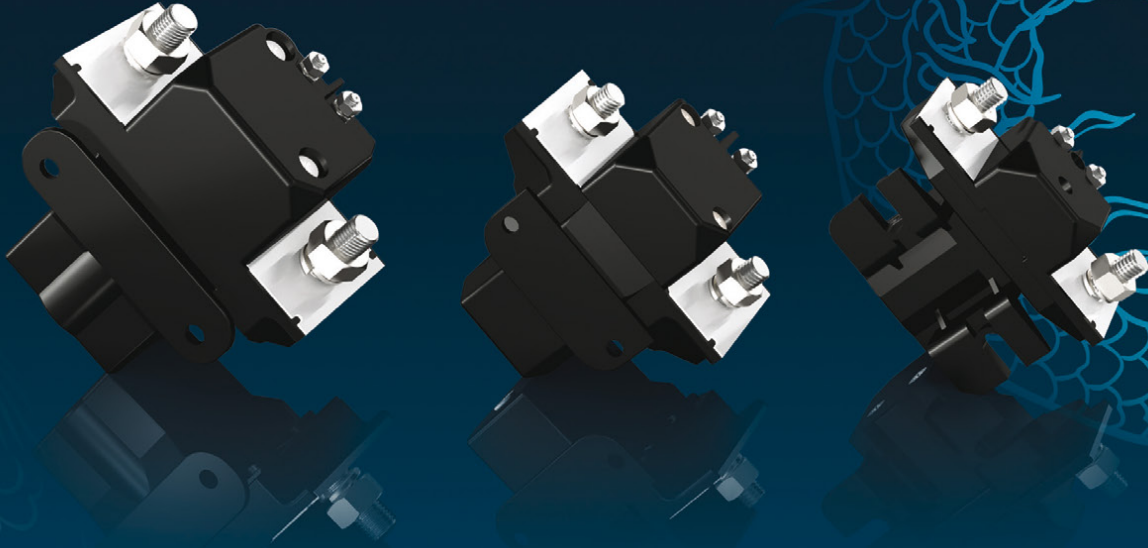


SEO400 Coil Driver

Description	Watts	Suffix
Standard - operates as conventional CO coil	10 - 15W	C
Intermittent	30 - 40W	I
Magnetic Latching ¹	30 - 40W	M

¹ Coil Polarity Markings must be Observed





Certifications

CCC: Chinese Compulsory Certification



GB14048.4

Underwriters Laboratories:

E165921 Power Distribution Centre for
Telecommunications Equipment



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