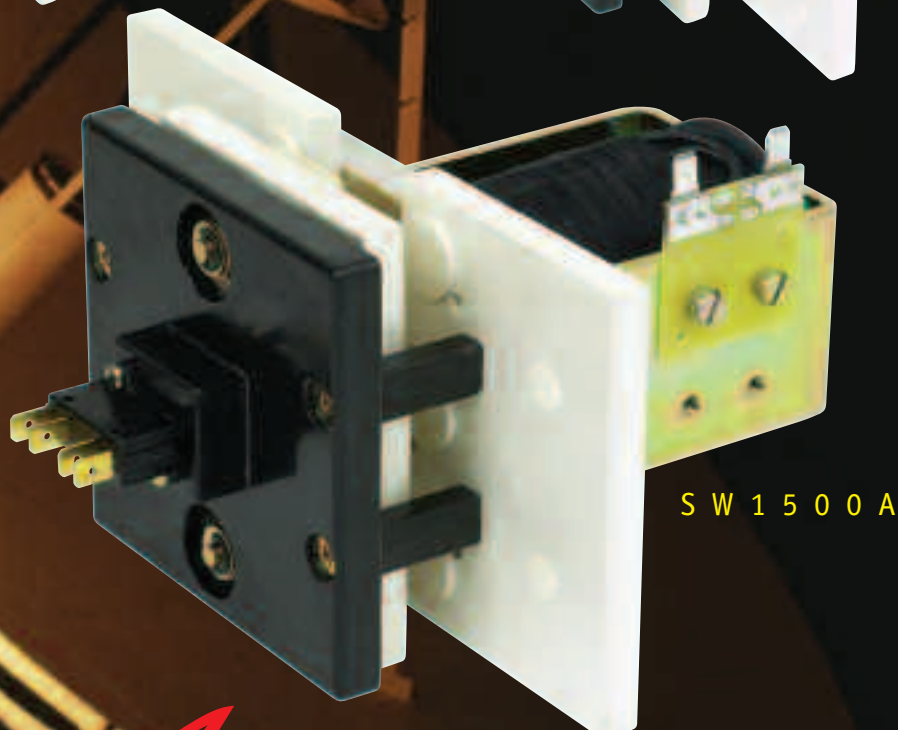
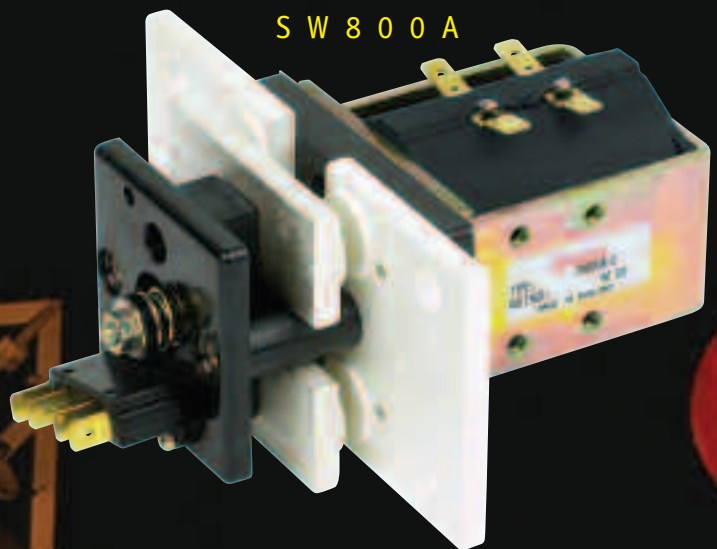
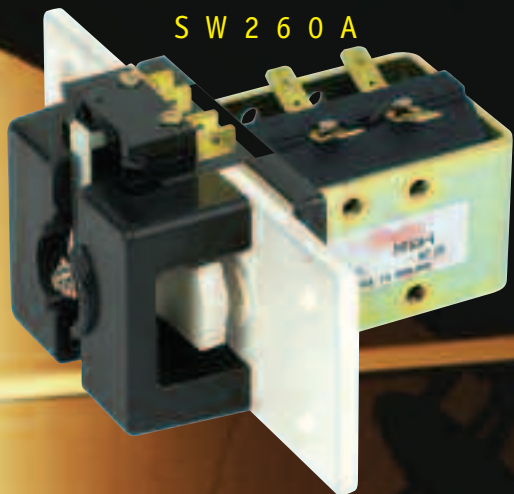


# Heavy Duty DC Contactors for Power Distribution Centres

SW 260 , SW 500 , SW 560 ,  
SW 600 , SW 800 , SW 1000  
& SW 1500 TYPES

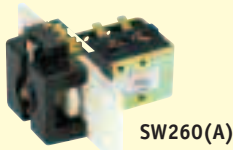


*Awright*

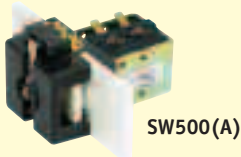
INTERNATIONAL

## Heavy Duty DC Contactors for Power Distribution Centres

### The Range...



SW260(A)



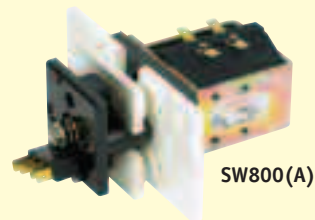
SW500(A)



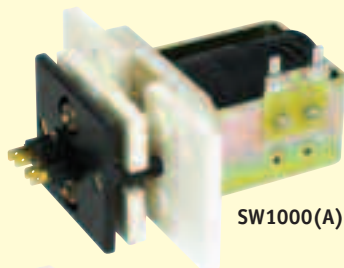
SW560(A)



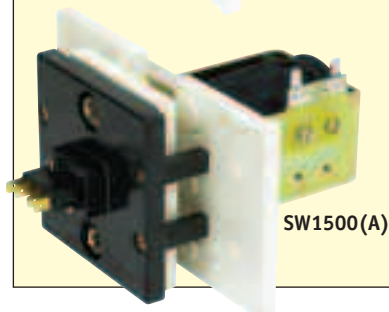
SW600(A)



SW800(A)



SW1000(A)



SW1500(A)

This "SW" series is a unique range of heavy duty contactors designed for use within the telecommunications market on direct current loads. The contact tips are silver alloy – which is weld resistant, hard wearing and has very good conductivity.

**THE CONTACTORS ARE COMPACT IN SIZE...** They can be mounted vertically or horizontally. If mounted vertically the coil should be at the bottom.

**OPERATING COILS...** Coil voltages ranging from 6 to 240 are available, these are wound for DC operation. However, coils can be fitted with a bridge rectifier for use with AC supplies. Coils are wound for continuous duty, with pull-in voltages (coils at 20°C) approximately 66% of the rated voltage and drop-out voltage nominally greater than 10% of the rated voltage. Variations from these pull-in and drop-out figures can be engineered to suit particular applications. Coil connections are by means of 6.3mm spades.

**AUXILIARY CONTACTS...** A double circuit normally open, normally closed microswitch can be fitted to the contactors. This has a DC resistive rating of 5 amperes at 24 volts. The suffix "A" should be added to the type number when auxiliary contacts are needed – for example, an SW600 with auxiliary contacts is an SW600A.

**ALTERNATING CURRENTS...** The contactors can also be used for alternating current loads.

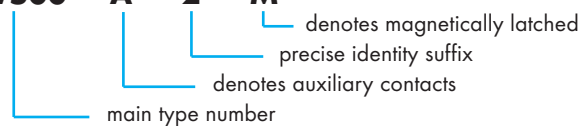
In addition, all contactors are available with magnetic latching which enables them to remain closed whilst consuming no coil power.

(See separate brochure – "Power Consumption Reduction for Albright Contactors").

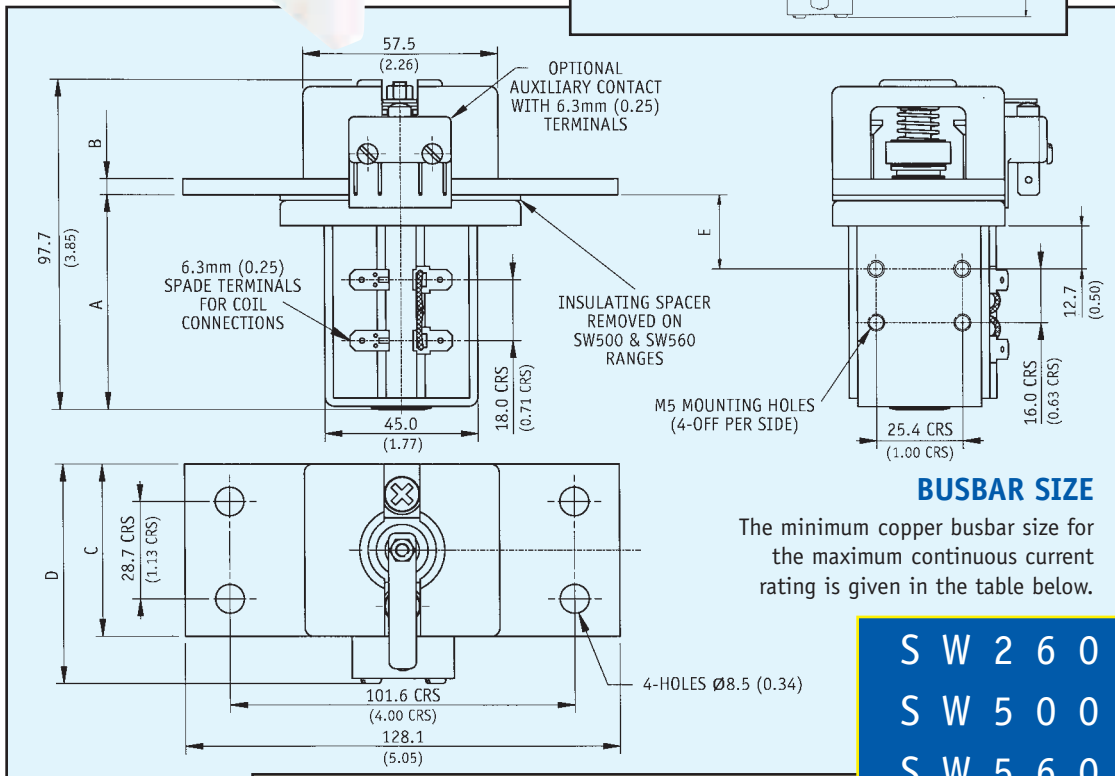
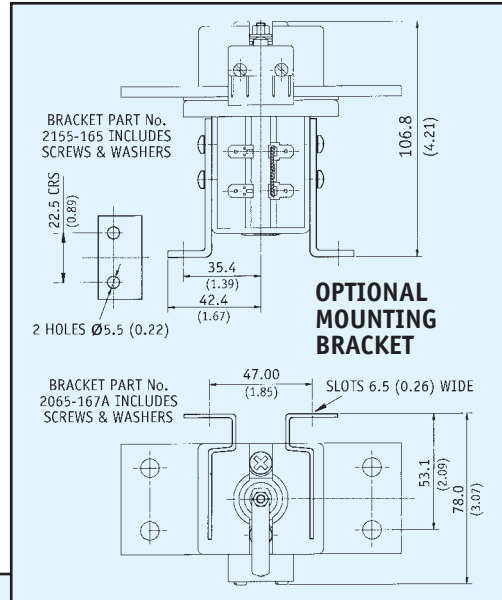
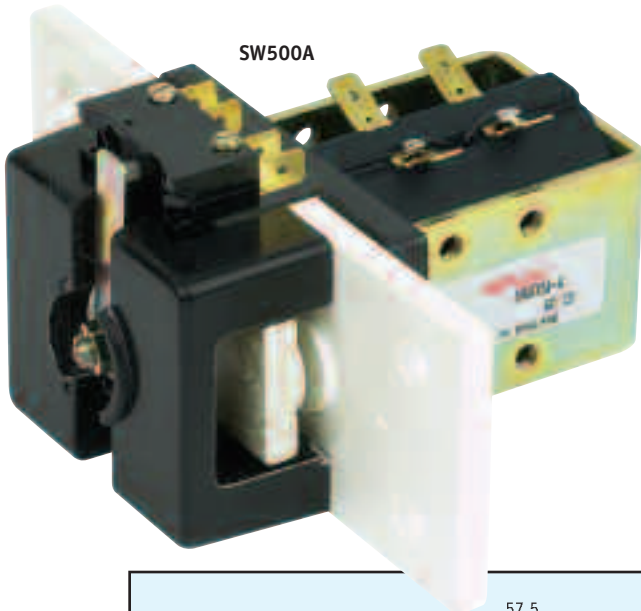
Type No.	Description	Max. Continuous Thermal Current Rating	U.L. File No.
<b>SW260</b>	Single Pole on/off	300 Amperes	E165921
<b>SW260A</b>	with auxiliary contacts		
<b>SW500</b>	Single Pole on/off	500 Amperes	E165921
<b>SW500A</b>	with auxiliary contacts		
<b>SW560</b>	Single Pole on/off	600 Amperes	E165921
<b>SW560A</b>	with auxiliary contacts		
<b>SW600</b>	Single Pole on/off	600 Amperes	E165921
<b>SW600A</b>	with auxiliary contacts		
<b>SW800</b>	Single Pole on/off	800 Amperes	E165921
<b>SW800A</b>	with auxiliary contacts		
<b>SW1000</b>	Single Pole on/off	1200 Amperes	E165921
<b>SW1000A</b>	with auxiliary contacts		
<b>SW1500</b>	Single Pole on/off	1800 Amperes	E165921
<b>SW1500A</b>	with auxiliary contacts		

### Explanation of Contactor Part Numbers

**SW500 - A - 2 - M**



# SW 260, SW 500 & SW 560 HEAVY DUTY DC CONTACTORS



### BUSBAR SIZE

The minimum copper busbar size for the maximum continuous current rating is given in the table below.

SW 260  
SW 500  
SW 560

Dimensions in mm (inches)

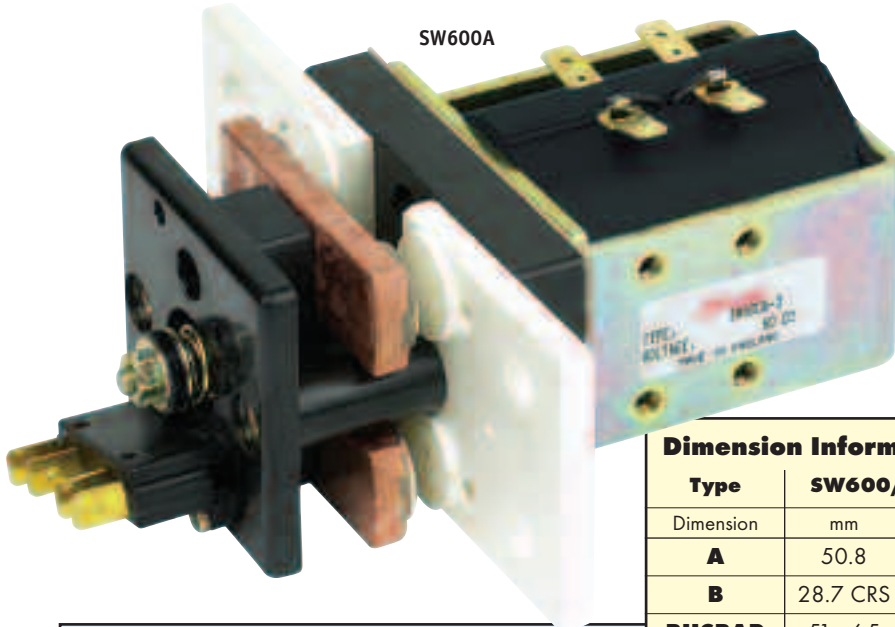
### Dimension Information for...

Type	SW260/SW260A		SW500/SW500A		SW560/SW560A	
	mm	inches	mm	inches	mm	inches
Dimension						
<b>A</b>	63.5	2.50	61.9	2.43	61.9	2.43
<b>B</b>	4.8	0.19	6.3	0.25	6.3	0.25
<b>C</b>	50.8	2.00	50.8	2.00	63.5	2.50
<b>D</b>	64.8	2.55	64.8	2.55	71.1	2.80
<b>E</b>	21.9	0.86	20.3	0.80	20.3	0.80
<b>BUSBAR</b>	51 x 4.75	2 x 0.187	51 x 6.5	2 x 0.256	63.5 x 6.5	2.5 x 0.256

**Heavy Duty  
DC Contactors  
from...**

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# SW600 & SW800 HEAVY DUTY DC CONTACTORS



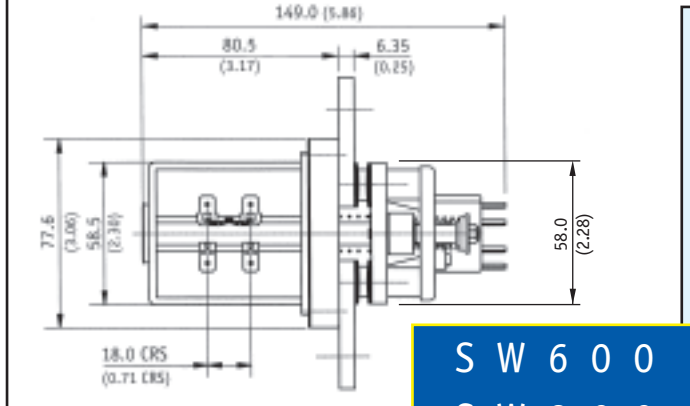
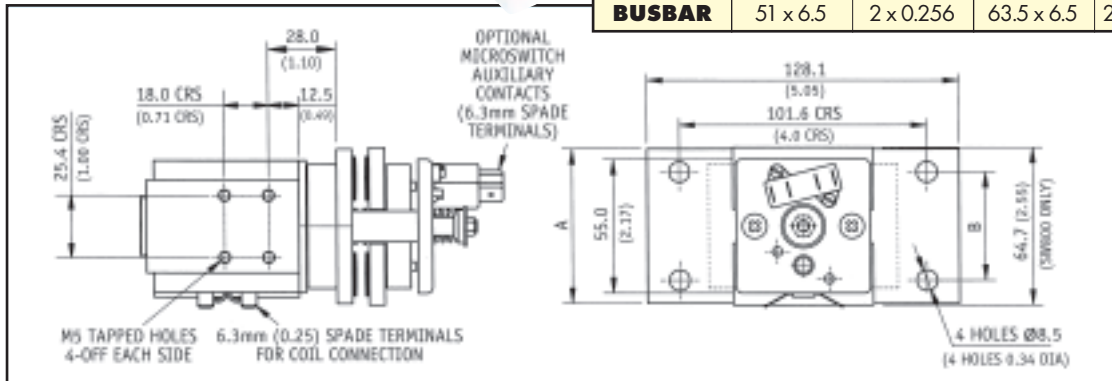
SW600A

## BUSBAR SIZE

The minimum copper busbar size for the maximum continuous current rating is shown in the table below:

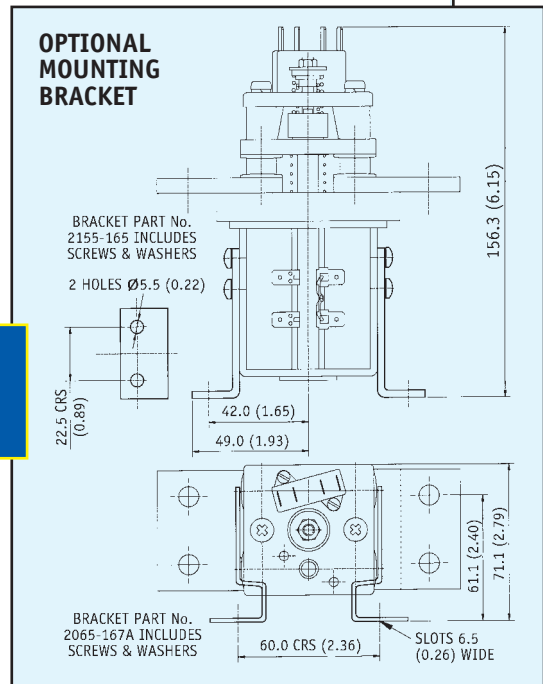
### Dimension Information for...

Type	SW600/SW600A		SW800/SW800A	
Dimension	mm	inches	mm	inches
<b>A</b>	50.8	2.00	63.5	2.50
<b>B</b>	28.7 CRS	1.13 CRS	44.5 CRS	1.75 CRS
<b>BUSBAR</b>	51 x 6.5	2 x 0.256	63.5 x 6.5	2.5 x 0.256



**SW600**  
**SW800**

Dimensions in mm (inches)

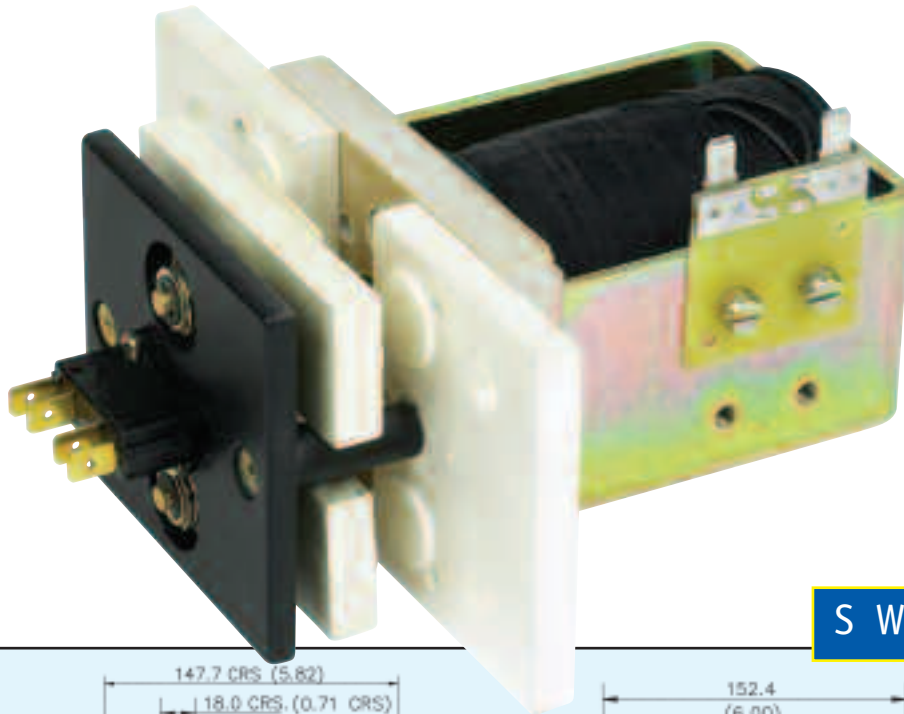


**Heavy Duty  
DC Contactors  
from...**

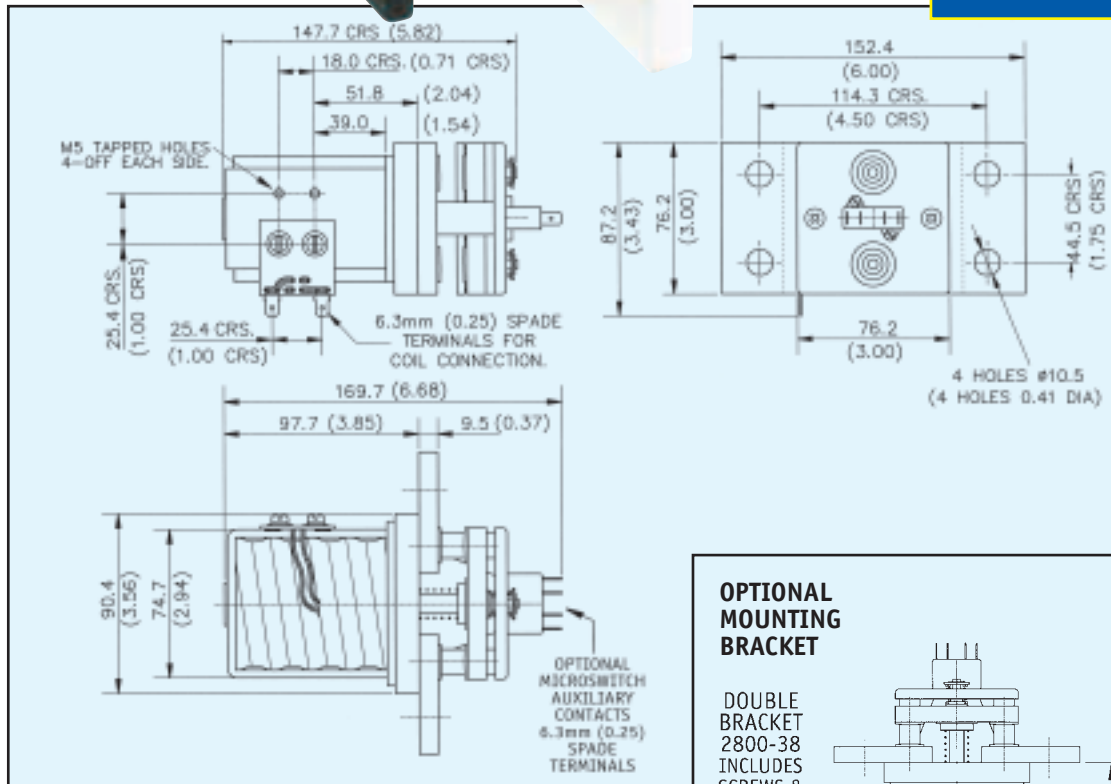


# SW 1000

## HEAVY DUTY DC CONTACTOR



SW 1000



All dimensions in mm (inches)

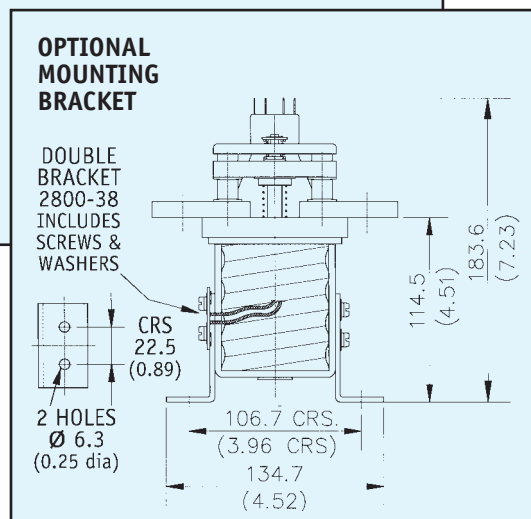
**Heavy Duty DC Contactors from...**

*Albright*  
INTERNATIONAL

### BUSBAR SIZE

The minimum copper busbar size for the maximum continuous current rating is:

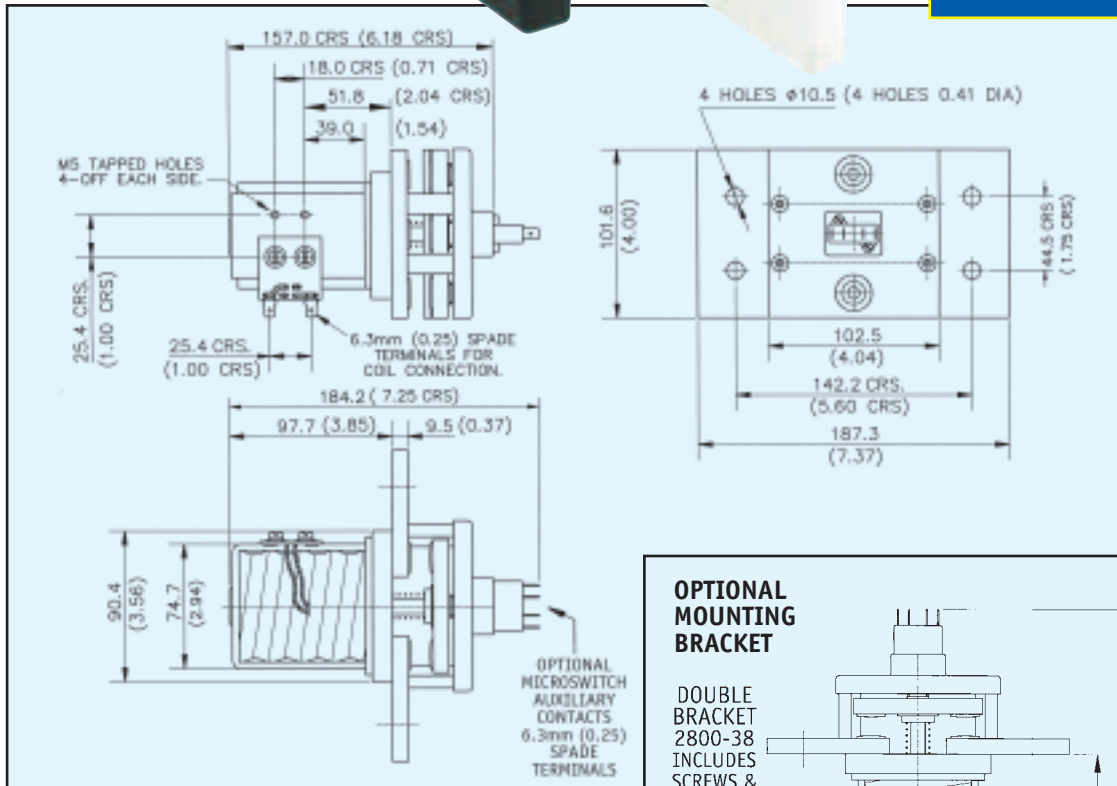
76 x 9.5 (3 x 0.374)



# SW 1500 HEAVY DUTY DC CONTACTOR



SW 1500



All dimensions in mm (inches)

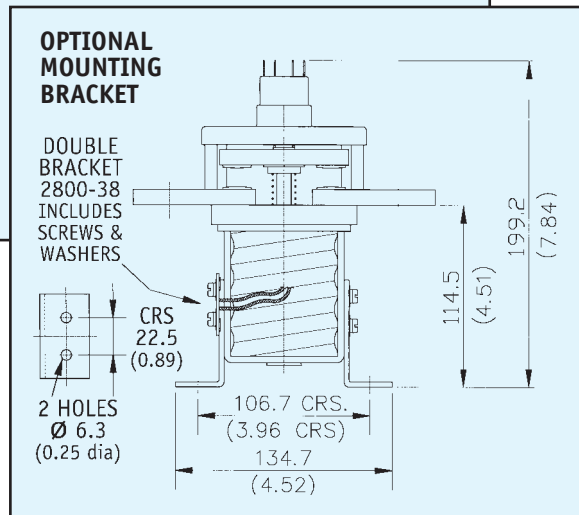
**Heavy Duty DC Contactors from...**

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### BUSBAR SIZE

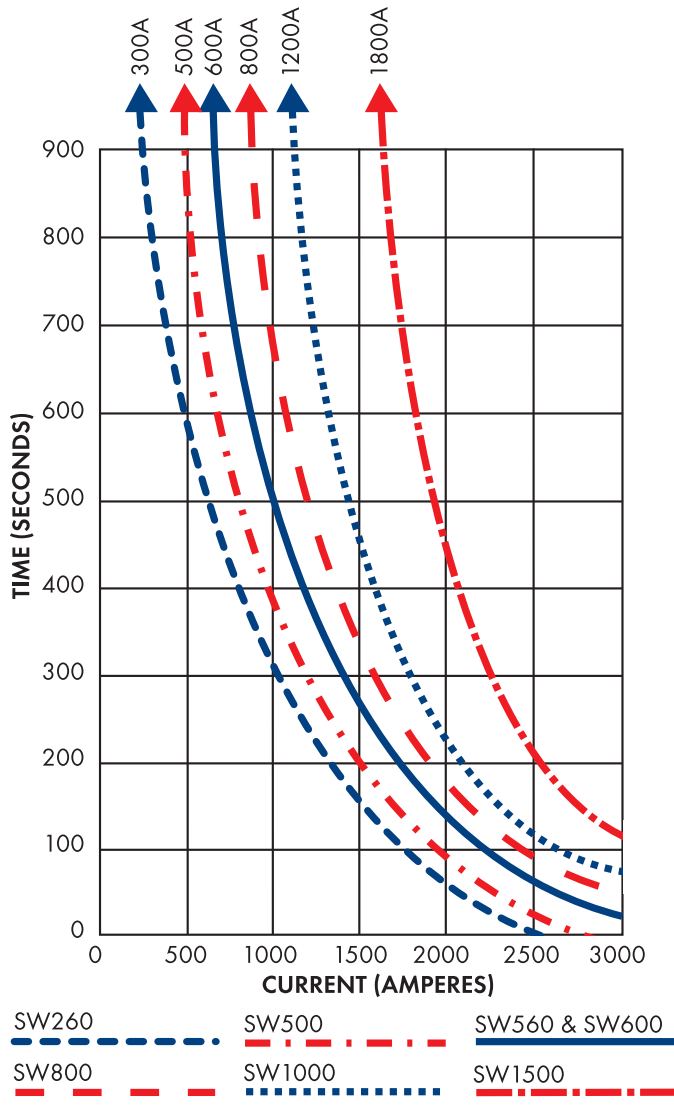
The minimum copper busbar size for the maximum continuous current rating is:

101.5 x 9.5 (4 x 0.374)



# PERFORMANCE DATA FOR ALL CONTACTORS

## CONTACT PERFORMANCE (Intermittent ratings)



## Typical Resistive Fault Currents that can be ruptured

SW260/SW260A:	450 Amperes at 60V DC
SW500/SW500A:	750 Amperes at 60V DC
SW560/SW560A:	900 Amperes at 60V DC
SW600/SW600A:	900 Amperes at 60V DC
SW800/SW800A:	1200 Amperes at 60V DC
SW1000/SW1000A:	1800 Amperes at 60V DC
SW1500/SW1500A:	2700 Amperes at 60V DC

## Max. Recommended Contact Voltages:

All contactors 60V DC

**Typical Voltage Drop across contacts when new at maximum rated load:** 20-50mV

## Mechanical Life:

All contactors: >1,000,000

## Coil Power Dissipation

Continuously Rated Types:

SW260/SW500/SW560: 12 - 16 Watts

SW600/SW800: 13 - 25 Watts

SW1000/SW1500: 25 - 35 Watts

## Maximum Pull-in Voltage (Coil at 20°C)

Continuously Rated Types: 66%V DC

## Typical Drop-out Voltage:

All contactors: 10-30%

## Typical Contact Bounce Time

<5ms

## Auxiliary Contact Switching Capacities (Resistive Load):

5 Amperes at 24V DC

2 Amperes at 48V DC

0.5 Amperes at 240V DC

## Contactor Weights:

SW260 0.950 Kg

SW500 1.030 Kg

SW560 1.100 Kg

SW600 1.450 Kg

SW800 1.600 Kg

SW1000 3.235 Kg

SW1500 3.950 Kg

## NOTE:

All of the performance data given here should be used as a guide only. Alternative ratings may need to be considered according to applications.

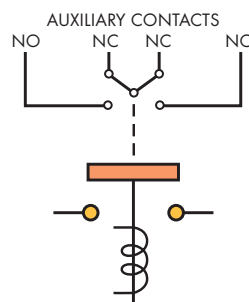
The thermal current ratings stated for the contactors are dependent upon the size of busbar being used for the required duty.

For maximum continuous ratings the busbars should not be less than the sizes shown in the individual diagrams.

"Albright is registered under BS EN ISO 14001 - Environmental Management System. Should you require information on the disposal of our products, please contact our Health, Safety & Environmental Manager or your Local Supplier for our Disposal Guidance Note"

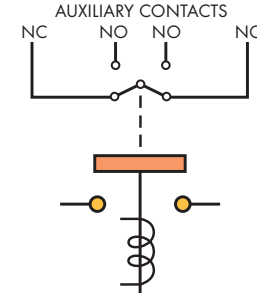
## Connection Diagram SW260A, SW500A & SW560A

### Single Pole Single Throw (On/Off) Contactor



## Connection Diagram SW600A, SW800A, SW1000A & SW1500A

### Single Pole Single Throw (On/Off) Contactor



# *Albright*

I N T E R N A T I O N A L



SW560A

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