



SU-60  
actual size

### DESCRIPTION

Curtis/Albright relays are DC contactors designed to energize or isolate the vehicle lights, electrical pumps, fans, heating elements, solenoid valves, etc., by means of the key switch.

### APPLICATION

Curtis/Albright Main Power/Ignition Relays are eminently suitable for controlling the electrical services on heavy duty construction, forestry and agricultural vehicles and machinery. Additionally, suitable for Telecom rack mounted power supplies and static low current DC power systems

### FEATURES

- Curtis/Albright relays and DC contactors offer exceptionally high power ratings for their compact size. Curtis/Albright Ignition/Main Power Relays can take the place of several Cube relays, saving cost, space and installation time.  
SW60 for continuous currents up to **80** Amperes.  
SU60 for continuous currents up to **100** Amperes.  
SW80 for continuous currents up to **125** Amperes  
Higher rated relays are available.
- This Curtis/Albright relays series is an innovative and unique introduction from the world's leading manufacturer of DC Contactors.
- The relay's miniature size allows exceptional installation flexibility even in the most compact rack assemblies.
- A range of coil voltages are available, including continuously rated voltages for vehicle charging systems.
- The relays are enclosed in IP66 rated cases and can be mounted either directly to a panel (M4 tapped holes are provided) or by means of standard brackets.  
Note: IP66 rating only applies to "P" types (SW60P, SU60P & SW80P relays)

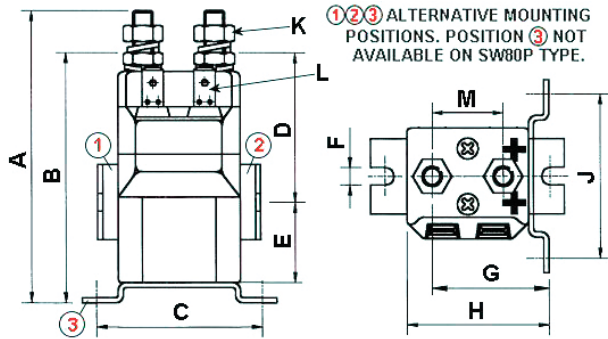
### Options

- Magnetic Blowouts effectively extinguish arcing between the main contacts.
- Fully enclosed contact housings protect from contaminants.
- Coil Suppression, a diode and resistor in-series, can be soldered across the coil terminals in order to bleed off potential spikes.
- The Environmentally Protected "P" version is water protected.
- The Magnetically Latched "M" version is fitted with a rare-earth magnet that resides in the solenoid.
- A CC-58-1 Coil Chopper effectively reduces the voltage to 25% of nominal coil voltage, lowering the ambient coil heating by 60%.

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# MODELS SW60, SU60 & SW80

## DIMENSIONS mm (inches)



Dim	SW60	SU60	SW80
A	86.4 (3.40)	90.3 (3.56)	93.3 (3.67)
B	74.0 (2.91)	77.0 (3.03)	80.5 (3.17)
C	48.7 (1.92) CRS	48.7 (1.92) CRS	*
D	44.3 (1.74)	47.3 (1.86)	52.2 (2.06)
E	23.7 (0.93)	23.7 (0.93)	28.3 (1.11)
F	5.2 (0.20) Slots	5.2 (0.20) Slots	5.2 (0.20) $\varnothing$ Holes
G	34.4 (1.36)	35.0 (1.38)	45.0 (1.77)
H	42.0 (1.65)	45.0 (1.77)	54.0 (2.13)
J	48.7 (1.92) CRS	48.7 (1.92) CRS	44.5 (1.75) CRS
K	M6 Terminals	M8 Terminals	M8 Terminals
L	6.3 (0.25) Spade Terminals for Coil Connections.		
M	21.0 (0.83) CRS	22.5 (0.88) CRS	28.6 (1.13) CRS

\* Bracket cannot be fitted to base of coil

## PERFORMANCE DATA

Contactor Type:	SW60	SU60	SW80
Thermal Current (100%):	80 Ampere	100 Ampere	125 Ampere
Maximum DC Voltages which may be switched:	60 Volts DC (w/Blowouts 96VAC)		
Mechanical Life:	>3 x 10 <sup>6</sup> Cycles		
Maximum Coil Power (100%):	7 Watts	7 Watts	13 Watts
Typical coil pick up voltage [at 20 C]:	50 – 66% of rated voltage.		
Typical coil drop out voltage [at 20 C]:	10 – 25% of rated voltage.		
Shock and vibration tested to:	BS EN 61373:1999 & IEC		

Please Note: All the performance data given here should be used as a guide only. Some derating or variation from the above figures may be necessary according to type and application.

**WARRANTY** One year from date of shipment.

Manufactured in the UK by Albright International Ltd. and Distributed in the USA by Curtis Instruments, Inc.



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