

Thermal Current Rating (¹th) 80 A Intermittent Current Rating: 30% Duty 145 A 40% Duty 125 A 50% Duty 115 A 60% Duty 105 A 70% Duty 105 A Rated Fault Current Breaking Capacity (¹cn) 5ms Time Constant: (in accordance with UL568*) SW60 400 A at 48 V D.C. Rated Fault Current Breaking Capacity (¹cn) Resistive Load: (in accordance with UL508*) SW60 400 A at 96 V D.C. Rated Fault Current Breaking Capacity (¹cn) Resistive Load: (in accordance with UL508*) SW60 120 A at 48 V D.C. SW60B 120 A at 96 V D.C. Maximum Recommended Contact Voltages (Ue): SW60 480 D.C. 60 V D.C. Maximum Recommended Contact Voltages (Ue): SW60 96 V D.C. 120 V D.C. Typical Voltage Drop per pole across New Contacts at 80 A Mechanical M.T.B.F 3x 10° Coil Voltage Available (Us) (Rectifier board required for A.C.) Coil Power Dissipation: Highly Intermittent Rated Types 14 - 21 Watts Intermittently Rated types 7 - 10 Watts Continuously Rated Types 7 - 10 Watts Continuously Rated Types 60% Us Max 25% Duty Cycle) 60% Us Max 25% Duty Cycle) 60% Us Intermittently Rated types (Max 70% Duty Cycle) 60% Us Continuously Rated Types 66% Us Drop-Out Voltage Range 10 - 25% Us Typical Pul-In Time 15ms Typical Porp-Out Time (N/O Contacts to Open): With Diode and Resistor (Subject to resistance value) Typical Porp-Out Time (N/O Contacts to Open): With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature -40°C to + 60°C Guideline Contactor Weight: SW60 190 gms Auxillary Contact Switching Capabilities (Resistive Load): **Sw60 190 gms Auxillary Contact Switching Capabilities (Resistive Load): **Sw60 190 gms Auxillary Contact Switching Capabilities (Resistive Load): **Sw60 190 gms Auxillary Contact Switching Capabilities (Resistive Load): **Sw60 190 gms Auxillary Contact Switching Capabilities (Resistive Load): **Sw60 190 gms Auxillary Contact Switching Capabilities (Resistive Load): **Sw60 190 gms Auxillary Contact Switching Capabilities (Resistive Load):						
Intermittent Current Rating: 30% Duty 145A 40% Duty 125A 50% Duty 105A 70% Duty 105A Rated Fault Current Breaking Capacity (\(^{1}\capacity\) firm Constant: (in accordance with UL.583*) SW60 400A at 48V D.C. Rated Fault Current Breaking Capacity (\(^{1}\capacity\) firm Resistive Load: (in accordance with UL.508*) SW60 120A at 48V D.C. SW60B 120A at 48V D.C. Maximum Recommended Contact Voltages (Ue): SW60 120A at 48V D.C. 60V D.C. SW60B 120A at 96V D.C. Maximum Recommended Contact Voltages (Ue): SW60 48V D.C. 60V D.C. SW60B 96V D.C. 120V D.C. Typical Voltage Available (Ue) From 6 to 130V D.C. Coil Power Dissipation: Highly Intermittent Rated Types 10 - 14 Watts Intermittently Rated types Maximum Pull-In Voltage (Coil at 20' C) Guideline: Highly Intermittent Rated Types Maximum Pull-In Voltage (Coil at 20' C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Continuously Rated Types 60% Us Intermittently Rated types (Max 70% Duty Cycle) Continuously Rated Types 7 - 10 Watts Continuously Rated Types 60% Us Intermittently Rated types (Max 70% Duty Cycle) 60% Us Prolonged Operation (Max 90% Duty Cycle) 60% Us Prolonged Operation (Max 90% Duty Cycle) 60% Us Prop-Out Voltage Range 10 - 25% Us Typical Drop-Out Time (N/O Contacts to Open): With Diode suppression With Diode suppression 96 Auxiliary 4 - 20 gms With Diode and Resistor Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature -40'C to +60'C 40'C Advised Connection Sizes for Maximum Continuous Current Copper busbar 5mm* [0.08inch*] Rated suitable for Application Key: Interrupted Note: Where applicable values shown are at 20'C	_	Application	Interrupted	Uninterrupted		
30% Duty 145A 40% Duty 125A 50% Duty 115A 60% Duty 105A 70% Duty 95A Rated Fault Current Breaking Capacity (¹cn) 5ms Time Constant: (in accordance with UL583*) SW60 400A at 48V D.C. SW60B 400A at 48V D.C. SW60B 120A at 48V D.C. Maximum Recommended Contact Voltages (U₀): SW60 120A at 48V D.C. 60V D.C. Maximum Recommended Contact Voltages (U₀): SW60 96V D.C. 120V D.C. 1	_	Thermal Current Rating (^I th)	8	80A		
40% Duty 115A 50% Duty 115A 60% Duty 105A 70% Duty 95A Rated Fault Current Breaking Capacity (¹cn) 5ms Time Constant: (in accordance with UL583*) SW60 400A at 48V D.C. SW60B 400A at 48V D.C. Rated Fault Current Breaking Capacity (¹cn) Resistive Load: (in accordance with UL598*) SW60 120A at 48V D.C. SW60B 120A at 96V D.C. Maximum Recommended Contact Voltages (Ue): SW60 48V D.C. 60V D.C. Maximum Recommended Contact Voltages (Ue): SW60 96V D.C. 120V D.C. Typical Voltage Drop per pole across New Contacts at 80A Mechanical M.T.B.F >3 x 10° Coil Voltage Available (Us) (Rectifier board required for A.C.) From 6 to 130V D.C. Coil Power Dissipation: Highly Intermittent Rated Types 10 - 14 Watts Intermittently Rated types 7 - 10 Watts Continuously Rated Types 5 - 7 Watts Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Prop-Out Voltage Range 10 - 25% Us Typical Pull-In Time 15ms Typical Drop-Out Time (N/O Contacts to Open): With Diode Suppression 6ms With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature - 40° C to + 60° C Guideline Contactor Weight: SW60 190 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C SA at 24V D.C 0.5A at 120V D.C. 0.25A at 24V D.C 0.5A at 24V D.C 0.5A at 120V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: V = Interrupted Note: Where applicable values shown are at 20° C		Intermittent Current Rating:				
50% Duty 105A 60% Duty 105A 70% Duty 105A 77% Duty 105A 105A 105A 105A 105A 105A 105A 105A		30% Duty	1-	45A		
## Rated Fault Current Breaking Capacity (/cn) 5ms Time Constant: (in accordance with UL583*) ## WHO		40% Duty	1:	25A		
Rated Fault Current Breaking Capacity (*cn) 5ms Time Constant: (in accordance with UL583*) SW60		50% Duty	1	15A		
Rated Fault Current Breaking Capacity (1/cn) 5ms Time Constant: (in accordance with UL583*) SW60		60% Duty	1	05A		
SW60		·				
SW60B 400A at 96V D.C. Rated Fault Current Breaking Capacity (*fon) Resistive Load: (in accordance with UL508*) SW60 120A at 48V D.C. Maximum Recommended Contact Voltages (Ue): SW60B 48V D.C. 60V D.C. SW60B 96V D.C. 120V D.C. Typical Voltage Drop per pole across New Contacts at 80A Mechanical M.T.B.F >3 x 10° Coil Voltage Available (Ue) (Rectifier board required for A.C.) Goil Power Dissipation: Highly Intermittent Rated Types 10 - 14 Watts Prolonged Rated Types 7 - 10 Watts Continuously Rated types 60% Us Intermittently Rated types 60% Us Will Diode Operation (Max 90% Duty Cycle) 66% Us Prolonged Operation 60% Us Intermittently Rated Types 66% Us Typical Pull-In Time 15ms Typical Drop-Out Time (N/O Contacts to Open): Without Suppression 6ms With Diode Suppression 8-20ms With Diode and Resistor 8-20ms Typical Contact Bounce Period 3ms Operating Ambient Temperature -40°C to +60°C Guideline Contactor Weight: SW60 190 gms With Blowouts -40°C 0.5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 24V D.C. 1A at 48V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: 1 = Interrupted 1 = Uninterrupted Note: Where applicable values shown are at 20°C		Rated Fault Current Breaking Capac (in accordance with UL583*)				
Rated Fault Current Breaking Capacity (*Icn) Resistive Load: (in accordance with UL508*) SW60 120A at 48V D.C. Maximum Recommended Contact Voltages (Ue): SW60 48V D.C. 60V D.C. Typical Voltage Drop per pole across New Contacts at 80A Mechanical M.T.B.F >3 x 10° Coil Voltage Available (Us) (Rectifier board required for A.C.) Coil Power Dissipation: Highly Intermittent Rated Types 10 - 14 Watts Prolonged Rated Types 7 - 10 Watts Continuously Rated Types 5 - 7 Watts Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types 66% Us Typical Pull-In Time 15ms Typical Drop-Out Time (N/O Contacts to Open): With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature 40°C to + 60°C Guideline Contactor Weight: SW60 190 gms With Blowouts + 50 gms Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60 5A at 24V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: 4 = Interrupted 4 = Uninterrupted Note: Where applicable values shown are at 20°C						
SW60				_		
SW60B 120A at 96V D.C.		(in accordance with UL508*)				
Maximum Recommended Contact Voltages (Ue): SW60						
SW60				96V D.C.		
Typical Voltage Drop per pole across New Contacts at 80A Mechanical M.T.B.F Coil Voltage Available (Ug) (Rectifier board required for A.C.) From 6 to 130V D.C. Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated types Intermittently Rated Types Intermittently Rated Types From 6 to 130V D.C. Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated types From 6 to 130V D.C. Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated Types Continuously Rated Types (Max 70% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Frolonged Operation (Max 90% Duty Cycle) From 6 to 130V D.C. Goil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated Types (Max 70% Duty Cycle) From 6 to 130V D.C. Goil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated Types Intermittent R				60V D.C.		
Typical Voltage Drop per pole across New Contacts at 80A Mechanical M.T.B.F Coil Voltage Available (Ug) (Rectifier board required for A.C.) From 6 to 130V D.C. Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated types Intermittently Rated Types Continuously Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Intermittently Rated types (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): With Diode Suppression With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature - 40°C to + 60°C Guideline Contactor Weight: SW60 190 gms Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SA at 24V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Interrupted Note: Where applicable values shown are at 20°C						
Mechanical M.T.B.F Coil Voltage Available (Us) (Rectifier board required for A.C.) Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated types Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Prop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature John Sums With Blowouts Auxiliary With Blowouts Auxiliary Auxiliary Contact Switching Capabilities (Resistive Load): SW60 SW60A SW60C SA at 24V D.C. 1A at 60V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Intermittently Rated Types 10 - 21 C C Rote Coil Auxiliary Rated Suitable for Application Key: Intermittently Rated Types 10 - 14 Watts 10 - 14 Wat		Typical Voltage Drop per pole				
Coil Voltage Available (U _S) (Rectifier board required for A.C.) Coil Power Dissipation: Highly Intermittent Rated Types Intermittently Rated types (Max 70% Duty Cycle) Intermittently Rated Types Intermittent Rated typ			>3	x 10 ⁶		
Highly Intermittent Rated Types Intermittently Rated types Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Prop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Intermittently Rated Types (10 - 14 Watts 10		Coil Voltage Available (U _S)				
Intermittently Rated types Prolonged Rated Types 7 - 10 Watts Continuously Rated Types 5 - 7 Watts Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Prop-Out Voltage Range 10 - 25% Us Typical Pull-In Time 15ms Typical Pull-In Time 15ms Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted Note: Where applicable values shown are at 20°C		Coil Power Dissipation:				
Prolonged Rated Types Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Interrupted Note: Where applicable values shown are at 20°C		Highly Intermittent Rated Types	14 - 2	1 Watts		
Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Interrupted Note: Where applicable values shown are at 20°C		Intermittently Rated types	10 - 1	4 Watts		
Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range 10 - 25% U _S Typical Prolonged Operation (N/O Contacts to Open): Without Suppression 6ms With Diode Suppression 35ms With Diode Suppression 35ms With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature -40°C to +60°C Guideline Contactor Weight: SW60 190 gms With Auxiliary +20 gms With Blowouts +50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 5A at 24V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: Interrupted Interrupted Note: Where applicable values shown are at 20°C		Prolonged Rated Types	7 - 10	0 Watts		
Highly Intermittent Rated types (Max 25% Duty Cycle) Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Interrupted Interrupted Interrupted Interrupted Note: Where applicable values shown are at 20°C		Continuously Rated Types	5 - 7	Watts		
Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range 10 - 25% U _S Typical Pull-In Time 15ms Typical Drop-Out Time (N/O Contacts to Open): Without Suppression 6ms With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature -40°C to +60°C Guideline Contactor Weight: SW60 190 gms With Auxiliary +20 gms With Blowouts +50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: Interrupted Interrupted Note: Where applicable values shown are at 20°C		Maximum Pull-In Voltage (Coil at 20	°C) Guideline:			
Max 70% Duty Cycle Bot 70% Duty Cycle Bot 70% Duty Cycle Bot 7		Highly Intermittent Rated types (Max 25% Duty Cycle)	60	% U _s		
Continuously Rated Types (100% Duty Cycle) Drop-Out Voltage Range Typical Pull-In Time Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Guideline Contactor Weight: SW60 190 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1A at 60V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Interrupted Note: Where applicable values shown are at 20°C		(Max 70% Duty Cycle)	60'	% U _s		
Typical Pull-In Time Typical Drop-Out Voltage Range Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Typical Contact Bounce Period Typical Contactor Weight: SW60 Typical Contactor Weight: SW60 Typical Contactor Weight: SW60 SW60 Typical Contactor Weight: SW60 SW60 Typical Contact Switching Capabilities (Resistive Load): SW60 SW60 Typical Contactor Weight: SW60 Typical Contact Switching Capabilities (Resistive Load): SW60 SA at 24V D.C. That 4 60V D.C. That 4 60V D.C. That 4 60V D.C. That 4 48V D.C. Th		(Max 90% Duty Cycle)	60	% U _s		
Typical Pull-In Time 15ms Typical Drop-Out Time (N/O Contacts to Open): Without Suppression 6ms With Diode Suppression 35ms With Diode and Resistor (Subject to resistance value) 8 - 20ms Typical Contact Bounce Period 3ms Operating Ambient Temperature - 40°C to + 60°C Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.55A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: Interrupted Interrupted Note: Where applicable values shown are at 20°C		(100% Duty Cycle)	66'	% U _s		
Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C		Drop-Out Voltage Range	10 - 2	25% U _s		
Without Suppression With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Operating Ambient Temperature - 40°C to + 60°C Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts - 40°C to + 60°C SW60 190 gms Auxiliary - 40°C to + 60°C SW60 190 gms - 40°C to + 60°C SW60 190 gms - 40°C to + 60°C In a description SW60C - 50 gms Auxiliary - 40°C to + 60°C SW60 - 190 gms - 40°C to + 60°C In a description SW60C - 50 gms Auxiliary - 50 gms - 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60C - 5A at 24V D.C. - 1A at 48V D.C. - 1A at 48V D.C. - 0.5A at 120V D.C. - 0.5A at 120V D.C. - 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted Note: Where applicable values shown are at 20°C		Typical Pull-In Time	1	5ms		
With Diode Suppression With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature - 40°C to + 60°C Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts - 40°C to + 60°C Guideline Contactor Weight: SW60 190 gms - 40°C to + 60°C SW60 190 gms - 40°C to + 60°C 50 gms - 40°C to + 60°C - 40°C to + 60°C 50 gms - 40°C to + 60°C 50 gms - 40°C to + 60°C - 40°C to + 60°C - 40°C to + 60°C - 50 gms - 50 gms - 50 gms - 50 gms - 50 at 24V D.C. - 1A at 48V D.C. - 1A at 48V D.C. - 0.5A at 120V D.C. - 0.5A at 120V D.C. - 0.5A at 120V D.C. - 0.25A at 240V D.C. - 0.25A at 240V D.C. - Advised Connection Sizes for Maximum Continuous Current - Copper busbar - 52mm² [0.08inch²] - Rated suitable for Application - Key:		Typical Drop-Out Time (N/O Contact	ts to Open):			
With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C				_		
Typical Contact Bounce Period Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C			3	5ms		
Operating Ambient Temperature Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: Interrupted Uninterrupted Note: Where applicable values shown are at 20°C		(Subject to resistance value)				
Guideline Contactor Weight: SW60 190 gms With Auxiliary + 20 gms With Blowouts Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted Note: Where applicable values shown are at 20°C				_		
With Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C			- 40 C	to + 60 C		
With Auxiliary + 20 gms With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: = Interrupted		•	100) ame		
With Blowouts + 50 gms Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 5A at 24V D.C. 1A at 60V D.C. 1A at 48V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C						
Auxiliary Contact Switching Capabilities (Resistive Load): SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.25A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted I a Uninterrupted Note: Where applicable values shown are at 20°C				_		
SW60A SW60C 5A at 24V D.C. 1A at 60V D.C. 0.5A at 120V D.C. 0.5A at 120V D.C. 0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted Note: Where applicable values shown are at 20°C	/					
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0.25A at 240V D.C. Advised Connection Sizes for Maximum Continuous Current Copper busbar Cable Rated suitable for Application Key: = Interrupted Note: Where applicable values shown are at 20°C	/	1A at 60V D.C.	1A at 4	18V D.C.		
Advised Connection Sizes for Maximum Continuous Current Copper busbar 52mm² [0.08inch²] Cable Rated suitable for Application Key: = Interrupted Interrupted Note: Where applicable values shown are at 20°C		0.5A at 120V D.C.	0.5A at	120V D.C.		
Copper busbar Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C		0.25A at 240V D.C.	0.25A at	240V D.C.		
Cable Rated suitable for Application Key: = Interrupted = Uninterrupted Note: Where applicable values shown are at 20°C	/	Advised Connection Sizes for Max	ximum Continu	ous Current		
Key:		Copper busbar				
Note: Where applicable values shown are at 20°C				e for Application		
		_ · · · _ · · · _				

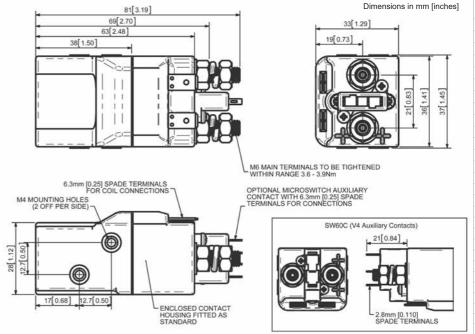
The SW60 is a miniature series single pole contactor - free standing and compact it is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW60 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

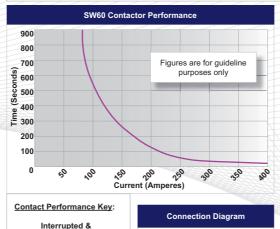
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

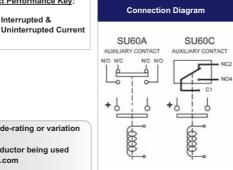
The SW60 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW60 has M6 stud main terminals and 6.3mm spade coil connections. It can be mounted via M4 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be on the side or base of the contactor.



SW60







SW60 Available Options General Suffix Auxiliary Contacts Auxiliary Contacts - V4 C Magnetic Blowouts [†] Magnetic Blowouts - High Powered [†] X Armature Cap Mounting Brackets (See PC60, MB60 & SW60 Catalogue) Magnetic Latching [†] (Not fail safe) Closed Contact Housing [‡] Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) X Contacts Large Tips Textured Tips X Silver Plating X Coil AC Rectifier Board (Fitted) X Coil Suppression [‡] Flying Leads X Manual Override Operation X V Secum Impresentation X V Secum Impresentation	General Auxiliary Contacts Auxiliary Contacts - V4		Suffix
Auxiliary Contacts Auxiliary Contacts - V4 Auxiliary Contacts - V4 C Magnetic Blowouts + High Powered X Armature Cap Mounting Brackets (See PC60, MB60 & SW60 Catalogue) Magnetic Latching (Not fail safe) Closed Contact Housing Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) X Contacts Large Tips X Textured Tips X Silver Plating X Coil AC Rectifier Board (Fitted) Coil Suppression Flying Leads Manual Override Operation M4 Stud Terminals M5 Terminal Board C C C A A Auxiliary Contact B A A Auxiliary Contacts A A A Auxiliary Contacts A A A A A A A A A A A A A	Auxiliary Contacts Auxiliary Contacts - V4	0	Suffix
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Magnetic Blowouts - High Powered [†] X Armature Cap X Mounting Brackets (See PC60, MB60 & SW60 Catalogue) Magnetic Latching [†] (Not fail safe)	Magnetic Blowouts†	0	С
Armature Cap Mounting Brackets (See PC60, MB60 & SW60 Catalogue) Magnetic Latching† (Not fail safe) Closed Contact Housing‡ Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) Contacts Large Tips X Textured Tips X Silver Plating Coil AC Rectifier Board (Fitted) Coil Suppression† Flying Leads Manual Override Operation M5 Terminal Board X X Manual Syere Plating X M5 Terminal Board X M5 Terminal Board X M8 SW60 Catalogue P P P R AC Pettifier Board (Fitted) Coil AC Rectifier Board (Fitted) X M8 Sterminal Board X	Magnotto Biowouto	0	В
Mounting Brackets (See PC60, MB60 & SW60 Catalogue) Magnetic Latching† (Not fail safe) Closed Contact Housing‡ Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) Contacts Large Tips X Textured Tips X Silver Plating Coil AC Rectifier Board (Fitted) Coil Suppression† Flying Leads Manual Override Operation M4 Stud Terminals M5 Terminal Board M6 Terminal Board	Magnetic Blowouts - High Powered [†]	X	
(See PC60, MB60 & SW60 Catalogue) Magnetic Latching [†] (Not fail safe) Closed Contact Housing [‡] Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) Contacts Large Tips X Textured Tips X Silver Plating Coil AC Rectifier Board (Fitted) Coil Suppression [†] Flying Leads Manual Override Operation M4 Stud Terminals M5 Terminal Board	Armature Cap	X	
Closed Contact Housing [‡] ○ Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) Contacts Large Tips		0	
Environmentally Protected IP66 (see SW60P Catalogue sheet) EE Type (Steel Shroud) Contacts Large Tips X Textured Tips X Silver Plating Coil AC Rectifier Board (Fitted) X Coil Suppression† Flying Leads X Manual Override Operation M5 Terminal Board X	Magnetic Latching [†] (Not fail safe)	0	М
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AC Rectifier Board (Fitted) Coil Suppression† Flying Leads Manual Override Operation X M4 Stud Terminals M5 Terminal Board X	Silver Plating	X	
Coil Suppression [†] Flying Leads Manual Override Operation X M4 Stud Terminals M5 Terminal Board X	Coil		
Flying Leads X Manual Override Operation X M4 Stud Terminals O M5 Terminal Board X	AC Rectifier Board (Fitted)	X	
Manual Override Operation X M4 Stud Terminals M5 Terminal Board X	Coil Suppression [†]	0	
M4 Stud Terminals M5 Terminal Board X	Flying Leads	X	
M5 Terminal Board X	Manual Override Operation	X	
	M4 Stud Terminals	0	
Vacuum Impregnation Y	M5 Terminal Board	Х	
vacuum impregnation A	Vacuum Impregnation	Х	
Key: Optional ○ Standard • Not Available X	Key: Optional ○ Standard • N	lot Availa	ble X
† Connections become polarity sensitive	† Connections become polarity sensitive)	

[‡] Open Housing Available

- 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

* Please check our web site for product UL status