

Model JA 46 100 - 150 AMP DC Contactor

100 - 150 Amp Rating, Coil Voltage 12 V to 240 VDC



AMETEK Switch 46 Series DC Contactors are designed to fit a wide range of applications including electric forklift trucks, DC winches, electric vehicles, and more recently to the telecommunications industry. The 46 Series is of a modular design construction, featuring a quick assembly and disassembly with the removal of two screws. This format offers the user an easier and cost effective way to servicing. The availability of different mounting styles offers greater flexibility and with space a premium, makes this design a requirement. This 100 - 150 amp contactor is available in coil voltages from 12 V through to 240 VDC, in both continuous and intermittent duty. It is also tested to withstand a mechanical life of 3 million cycles. The AMETEK Switch 46 Series is a high-performance quality, low cost, versatile contactor with totally interchangeable contacts. With all of the above attributes, the 46 Series is a truly dependable DC contactor.

There are options available for the JA 460 Series:

- Magnetic Blow-Outs - Normally used when switching voltages higher than 48 VDC
- Auxiliary Switches - Available on all JA Series except the JAD and JAV styles. Rated 5 amps at 24 VDC
- Large Contacts - Used mainly in severe applications such as pump motor switching. The suffix "L" denotes the large contacts.

Specifications

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PERFORMANCE DATA	
Main Contact Data	
Resistive Load Rating, Continuous Duty	125 AMPS
Inductive Load Rating, Continuous Duty	100 AMPS
Optional Continuous Duty Rating for JAY466 & JAA466	150 AMPS
Current Rating By Reduced Duty Cycle	
70% Duty	120 AMPS
60% Duty	130 AMPS
50% Duty	150 AMPS
40% Duty	160 AMPS
30% Duty	180 AMPS
Contact Voltage, Max.	
JAA460 & JAB460	48V D.C.
JAA467 & JAB467	96V D.C.

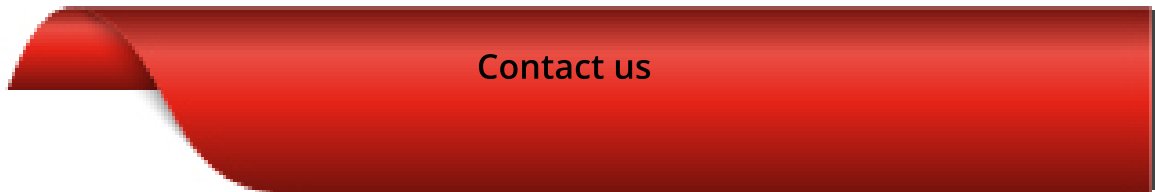
JAC460 & JAM460	48V D.C.
JAC467 & JAM467	96V D.C.
JAD460 & JAV460	48V D.C.
JAD467 & JAV467	96V D.C.
JAY460	48V D.C.
JAY467	96V D.C.
Contact Voltage Drop, Typical	
JAA460 & JAB460	<40mV
JAD460 & JAV460	<50mV
JAC460 & JAM460 (normally open contacts)	<40mV
JAC460 & JAM460 (normal closed contacts)	<50mV
ARC Rupture Currents Per UL 583	
JAA460 & JAL460	800 AMPS at 46V D.C.
JAA467 & JAL467	800 AMPS at 96V D.C.
JAC460 & JAM460*	800 AMPS at 48V D.C.
JAC467 & JAM467*	800 AMPS at 96V D.C.
JAD460 & JAV460	800 AMPS at 48V D.C.
JAD467 & JAV467	800 AMPS at 96V D.C.
*Normally open contacts, not normally closed contacts	
Overload Currents Per UL 508	
JAY460 & JAA460 & JAL460	188 AMPS at 60V D.C.
JAY466 & JAA466 & JAL466	225 AMPS at 60 V D.C.
JAC460 & JAD460	188 AMPS at 60V D.C.
JAM460 & JAV460	188 AMPS at 60V D.C.
Coil Data	
Coil Power Dissipation	
Intermittently duty coil	15-20 Watts
Continuous duty coils	7-14 Watts
Maximum pull-in voltage (coil at 25°C)	
Intermittently duty coils	<60% VDC Nominal
Continuous duty coils	<66% VDC Nominal
Maximum drop-out voltage	<25% VDC Nominal
Operate Times - Typical	
Pull-in time (n/o contacts to close)	<20ms
Typical contact bounce period	<5ms
Drop-out time (n/o contacts to open)	
No suppression	<5ms
Zener/Zener or Zener/Diode Suppression	<5ms
Varistor suppression	<9ms
Diode and resistor suppression	8-20ms
Diode Suppression	<50ms
Main contact changeover time (JAC4600 & JAM4600)	
Normally closed to normally open	<7ms
Normally open to normal closed	<4ms
Auxillary Contact Data	
Thermal current rating	5 AMPS
Current capacity, resistive load	SA at 24V D.C. 2A at 48V D.C. 0.5A at 240V D.C.

Miscellaneous Design Details	
Blow Out Magnets	48 - 96 VDC Contacts
Temperature Range	-20C to +50C
Mechanical Life	>3 x 10 5thpower
IP Code:	IP31 PER IEC 60529
RoHS Compliant	
Material Handling UL File	Au2277
Telecom UL File	E161810

Certifications +

Literature +

Diagrams +



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