

Model JB 46 150 - 200 AMP DC Contactor

150 - 200 Amp Rating, Coil Voltage 12 V to 240 VDC



JB 46 Series Contactor is rated at 150 - 200 amps. This versatile unit is available in coil voltages from 12 V through to 240 VDC. It can be mounted in pairs on a bracket together with interconnecting electrical links. When used in electric vehicle systems, the JBM and JBV styles are designed for motor reversing.

There are options available for the JB 46 Series:

- Magnetic Blow-Outs - Normally used when switching voltages higher than 48 VDC
- Auxiliary Switches - Available on all JB Series except the JBM 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	200 AMPS
Inductive Load Rating, Continuous Duty	150 AMPS
Current Rating By Reduced Duty Cycle	
70% Duty	180 AMPS
60% Duty	195 AMPS
50% Duty	225 AMPS
40% Duty	240 AMPS
30% Duty	270 AMPS
Contact Voltage, Max.	
JBA460 & JBB460	48V D.C.
JBA467 & JBB467	96V D.C.
JBC460 & JBM460	48V D.C.
JBC467 & JBM467	96V D.C.
JBD460 & JBV460	48V D.C.
JBD467 & JBV467	96V D.C.
JBY460	48V D.C.
JBY467	96V D.C.
Contact Voltage Drop, Typical	

JBA460 & JBB460	<40mV
JBD460 & JBV460	<50mV
JBC460 & JBM460 (normally open contacts)	<40mV
JBC460 & JBM460 (normally closed contacts)	<50mV
ARC Rupture Currents Per UL 583	
JBA460 & JBL460	1200 AMPS at 48V D.C.
JBA467 & JBL467	1200 AMPS at 96V D.C.
JBC460 & JBM460*	1200 AMPS at 48V D.C.
JBC467 & JBM467*	1200 AMPS at 96V D.C.
JBD460 & JBV460	1200 AMPS at 48V D.C.
JBD467 & JBV467	1200AMPS at 96V D.C.
*Normally open contacts, not normally closed contacts	
Overload Currents Per UL 508	
JBY460 & JBA460 & JBL460	300 AMPS at 60V D.C.
JBC460 & JBD460	300 AMPS at 60 V D.C.
JBM460 & JBV460	300 AMPS at 60V D.C.
Coil Data	
Coil Power Dissipation	
Intermittently duty coil	20-41 Watts
Continuous duty coils	10-16 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)	<30ms
Typical contact bounce period	<5ms
Drop-out time (n/o contacts to open)	
No suppression	<15ms
Zener/Zener or Zener/Diode Suppression	<15ms
Varistor suppression	<19ms
Diode and resistor suppression	18-60ms
Diode Suppression	<75ms
Main contact changeover time (JAC4600 & JAM4600)	
Normally closed to normally open	<10ms
	<5ms
Auxillary Contact Data	
Thermal current rating	5 AMPS
Current capacity, resistive load	5A 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	-20° C to +50° C
Mechanical Life	>3 x 10 5thpower
IP Code:	IP31 PER IEC 60529
RoHS Compliant	
Material Handling UL File	Au2277
Telecom UL File	E161810