

# RXC15 SERIES

## **High Voltage Contactors**

225A+ CONTINUOUS DUTY 1000Vdc SYSTEM VOLTAGE



#### **FEATURES**

### **SPST Normally Open High Voltage Contactors**

- Hermetic seal with gas fill
- Optional auxiliary contacts for main position feedback
- High temperature performance
- Meets RoHS 2011/65/EU
- Designed and Assembled in US





#### PERFORMANCE

CHARACTERISTIC     MEASURE       Contact Arrangement     Form X, SPST NO       Max Switching Voltage*     1000 VDC       Dielectric Withstand Voltage (Between Open Contacts)     2200 VRMS (60 sec)       Continuous Current (67mm² conductor)*     300A       Overload Current     30 Seconds       3 Minutes     500A       Ask witching Voltage (Max)*     800A       Make and Break     See table       Max Short Circuit Current -1 second     1500 A       Min Insulation Resistance     100 MΩ @ 1,000V       Contact Resistance (Max) measured at 200A     0.15-25 mΩ       (Typical) measured at 200A     0.15-25 mΩ       Operate Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Shock - Destructive, 1/2 Sine, 11ms     50G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Metanuet Current     2A       Minimum Current     2A       Minimum Current     2A       Minimum Current     5mA @ 8V       Coll (20°C)     12 VDC     24 VDC </th <th>TABLE 1. SPECIFICATIONS</th> <th></th>	TABLE 1. SPECIFICATIONS	
Max Switching Voltage³     1000 VDC       Dielectric Withstand Voltage (Between Open Contacts) and Coil)     2200 VRMS (60 sec)       Continuous Current (67mm² conductor)³     300A       Overload Current 30 Seconds     800A       Make and Break     See table       Max Short Circuit Current -1 second     1500 A       Min Insulation Resistance     100 MΩ @ 1,000V       Contact Resistance (Max) measured at 200A     0.3 mΩ       (Typical) measured at 200A     0.3 mΩ       (Typical) measured at 200A     0.1525 mΩ       Operate Time (Max, incl bounce)     25ms       Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Shock - Functional, 1/2 Sine, 11ms     50G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Mechanical life     300,000       AUXILIARY CONTACTS     MEASURE       Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC <td>CHARACTERISTIC</td> <td>MEASURE</td>	CHARACTERISTIC	MEASURE
Dielectric Withstand Voltage (Between Open Contacts) (Between Contacts and Coil)     2200 VRMS (60 sec)       Continuous Current (67mm <sup>2</sup> conductor) <sup>6</sup> 300A       Overload Current     30 Seconds       3 Minutes     500A       Make and Break     See table       Max Short Circuit Current -1 second     1500 A       Min Insulation Resistance     100 MΩ @ 1,000V       Contact Resistance (Max) measured at 200A     0.3 mΩ       (Typical) measured at 200A     0.15-25 mΩ       Operate Time (Max, incl bounce)     25ms       Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Operate Time (Max, Incl bounce)     Exceeds IP69, (Hermetically sealed)       Shock - Destructive, 1/2 Sine, 11ms     50G       Operate Time (Max, ContrActs     MEASURE       Contact Arrangement     SPST, Normally Open       Contact Arrangement     SPST, Normally Open       Conturent     24 VDC     48 VDC       Max Voltage     12 VDC     24 VDC     48 VDC       Max Voltage (Min)     0.6 WDC     12 VDC     22 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     1	Contact Arrangement	Form X, SPST NO
(Between Contacts and Coil)   2200 VRMS (60 sec)     Continuous Current (67mm² conductor) •   300A     Overload Current   30 Seconds     3 Minutes   500A     Make and Break   See table     Max Short Circuit Current -1 second   1500 A     Min Insulation Resistance   100 MQ @ 1,000V     Contact Resistance (Max) measured at 200A   0.3 mΩ     (Typical) measured at 200A   0.1525 mΩ     Operate Time (Max, incl bounce)   25ms     Shock - Functional, 1/2 Sine, 11ms   20G     Shock - Destructive, 1/2 Sine, 11ms   50G     Operating Temperature   -40°C to 100°C (175°C max terminal temperature)     Ingress Protection   Exceeds IP69, (Hermetically sealed)     Mechanical life   300,000     AUXILIARY CONTACTS   MEASURE     Contact Arrangement   SPAT, Normally Open     Contact Qeeo)   MEASURE     Contact Arrangement   24 VDC   48 VDC     Max Voltage   12 VDC   24 VDC   48 VDC     Max Voltage   16 VDC   32 VDC   32 VDC     Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC   15 VDC   32 VDC <t< td=""><td>Max Switching Voltage<sup>2</sup></td><td>1000 VDC</td></t<>	Max Switching Voltage <sup>2</sup>	1000 VDC
Continuous Current (67mm² conductor)*   300A     Overload Current   30 Seconds     3 Minutes   500A     Make and Break   See table     Max Short Circuit Current -1 second   1500 A     Min Insulation Resistance   100 MQ @ 1,000V     Contact Resistance (Max)   0.3 mΩ     (Typical) measured at 200A   0.15-25 mΩ     Operate Time (Max, incl bounce)   25ms     Release Time (Max)   10ms     Shock - Functional, 1/2 Sine, 11ms   20G     Shock - Destructive, 1/2 Sine, 11ms   50G     Operating Temperature   -40°C to 100°C (175°C max terminal temperature)     Ingress Protection   Exceeds IP69, (Hermetically sealed)     Mechanical life   300,000     AUXILIARY CONTACTS   MEASURE     Contact Arrangement   SPST, Normally Open     Contact Arrangement   SPST, Normally Open     Contact QCO   MEASURE     Nominal Voltage   12 VDC   24 VDC   48 VDC     Max Voltage (Max)*   7.5 VDC   32 VDC   25 VDC     Pick-up Voltage (Max)*   7.5 VDC   32 VDC   25 VDC     Pick-up Voltage (Max)*   0.6	Dielectric Withstand Voltage (Between Open Contacts)	2200 VRMS (60 sec)
Overload Current     30 Seconds     800A       3 Minutes     500A       Make and Break     See table       Max Short Circuit Current -1 second     1500 A       Min Insulation Resistance     100 MQ @ 1,000V       Contact Resistance (Max) measured at 200A     0.3 mQ       (Typical) measured at 200A     0.1525 mQ       Operate Time (Max, incl bounce)     25ms       Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Shock - Destructive, 1/2 Sine, 11ms     50G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Mechanical life     300,000       AULULARY CONTACTS     MEASURE       Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     5mA @ 8V       COIL (20°C)     MEASURE       Nominal Voltage (Max) <sup>3</sup> 7.5 VDC     16 VDC     32 VDC       Max Voltage (Min)     0.6 VDC     12 VDC     2.5 VDC       Pick-up Voltage (Min)     6.6 VDC     1.6A<	(Between Contacts and Coil)	2200 VRMS (60 sec)
3 Minutes   500A     Make and Break   See table     Max Short Circuit Current -1 second   1500 A     Min Insulation Resistance   100 MΩ @ 1,000V     Contact Resistance (Max) measured at 200A   0.3 mΩ     (Typical) measured at 200A   0.1525 mΩ     Operate Time (Max, incl bounce)   25ms     Release Time (Max)   10ms     Shock - Functional, 1/2 Sine, 11ms   20G     Shock - Destructive, 1/2 Sine, 11ms   50G     Operating Temperature   -40°C to 100°C (175°C max terminal temperature)     Ingress Protection   Exceeds IP69, (Hermetically sealed)     Mechanical life   300,000     AUXILIARY CONTACTS   MEASURE     Contact Arrangement   SPST, Normally Open     Continuous Current   2A     Minimum Current   5mA @ 8V     Max Voltage   16 VDC   32 VDC   48 VDC     Max Voltage   16 VDC   32 VDC   25 VDC     Pick-up Voltage (Max)³   7.5 VDC   15 VDC   22 VDC     Pull-in current (max 300ms)   4.3A   1.6A   0.8A     Otoge (Min)   0.6 VDC   1.2 VDC   2.5 VDC <td>Continuous Current (67mm<sup>2</sup> conductor)<sup>5</sup></td> <td>300A</td>	Continuous Current (67mm <sup>2</sup> conductor) <sup>5</sup>	300A
Make and Break   See table     Max Short Circuit Current -1 second   1500 A     Min Insulation Resistance   100 MΩ @ 1,000V     Contact Resistance (Max) measured at 200A   0.1525 mΩ     Operate Time (Max, incl bounce)   25ms     Release Time (Max)   10ms     Shock - Functional, 1/2 Sine, 11ms   20G     Shock - Destructive, 1/2 Sine, 11ms   50G     Operate Time (Max)   10ms     Ingress Protection   Exceeds IP69, (Hermetically sealed)     Mechanical life   300,000     AUXILIARY CONTACTS   MEASURE     Contact Arrangement   SPST, Normally Open     Continuous Current   2A     Minimum Current   5mA @ 8V     Coll (20°C)   MEASURE     Max Voltage   16 VDC   32 VDC     Max Voltage (Max)³   7.5 VDC   15 VDC     Drop-out Voltage (Min)   0.6 VDC   1.2 VDC     Pick-up Voltage (Max)³   7.5 VDC   15 VDC     Pick-up Voltage (Max)³   0.6 VDC   1.2 VDC   2.5 VDC     Pick-up Voltage (Max)³   0.6 VDC   1.2 VDC   2.5 VDC     Pick-up Voltage (Max)³   0.6 VD	Overload Current 30 Seconds	800A
Max Short Circuit Current -1 second     1500 A       Min Insulation Resistance     100 MΩ @ 1,000V       Contact Resistance (Max) measured at 200A     0.3 mΩ       (Typical) measured at 200A     0.1525 mΩ       Operate Time (Max, incl bounce)     25ms       Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Shock - Destructive, 1/2 Sine, 11ms     50G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Mechanical life     300,000       AUXILARY CONTACTS     MEASURE       Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     50C       Nominal Voltage     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC     32 VDC     25 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     25 VDC       Pick-up Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current<	3 Minutes	500A
Min Insulation Resistance   100 MΩ @ 1,000V     Contact Resistance (Max) measured at 200A   0.3 mΩ     (Typical) measured at 200A   0.1525 mΩ     Operate Time (Max, incl bounce)   25ms     Release Time (Max)   10ms     Shock - Functional, 1/2 Sine, 11ms   20G     Shock - Destructive, 1/2 Sine, 11ms   50G     Operating Temperature   -40°C to 100°C (175°C max terminal temperature)     Ingress Protection   Exceeds IP69, (Hermetically sealed)     Mechanical life   300,000 <b>AUXILARY CONTACTS MEASURE</b> Contact Arrangement   SPST, Normally Open     Continuous Current   2A     Minimum Current   5mA @ 8V <b>Coll (20°C) MEASURE</b> Nominal Voltage (Max) <sup>3</sup> 7.5 VDC     Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     Pick-up Voltage (Max) <sup>3</sup> 0.6 VDC     Pick-up Voltage (Min)   0.6 VDC     Pull-in current (max 300ms)   4.3A   1.6A     Olding Current   0.24A   0.09A     Coll Power (pull-in)   46W   38W     Coil Power (pull-in)   2.9W   2.2W	Make and Break	See table
Contact Resistance (Max) measured at 200A     0.3 mΩ       (Typical) measured at 200A     0.1525 mΩ       Operate Time (Max, incl bounce)     25ms       Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Mechanical life     300,000       AUXILIARY CONTACTS     MEASURE       Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     5mA @ 8V       Coll (20°C)     MEASURE       Norminal Voltage     16 VDC     32 VDC       Max Voltage     16 VDC     32 VDC       Max Voltage     16 VDC     32 VDC       Max Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC       Pul-in current (max 300ms)     4.3A     1.6A       Oner (pul-in)     46W     38W     38W	Max Short Circuit Current -1 second	1500 A
(Typical) measured at 200A     0.1525 mΩ       Operate Time (Max, incl bounce)     25ms       Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Shock - Destructive, 1/2 Sine, 11ms     50G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Mechanical life     300,000       AVLILARY CONTACTS     MEASURE       Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     50 Ø 8V       COIL (20°C)     MEASURE       Nominal Voltage     12 VDC     24 VDC       Max Voltage (Max) <sup>3</sup> 7.5 VDC     32 VDC       Pick-up Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W	Min Insulation Resistance	100 MΩ @ 1,000V
Operate Time (Max, incl bounce)25msRelease Time (Max)10msShock - Functional, 1/2 Sine, 11ms20GShock - Destructive, 1/2 Sine, 11ms50GOperating Temperature-40°C to 100°C (175°C max terminal temperature)Ingress ProtectionExceeds IP69, (Hermetically sealed)Mechanical life300,000AUXILIARY CONTACTSMEASUREContact ArrangementSPST, Normally OpenContact Arrangement2AMinimum Current5mA @ 8VCOL (20°C)MEASURENominal Voltage12 VDCPick-up Voltage (Max)³7.5 VDCPick-up Voltage (Min)0.6 VDC1.2 VDC2.5 VDCPick-up Voltage (Min)4.3AHolding Current0.24A0.24A0.09A0.05ACoil Power (pull-in)46W38WCoil Power (Holding)2.9W2.9W2.2W	Contact Resistance (Max) measured at 200A	
Release Time (Max)     10ms       Shock - Functional, 1/2 Sine, 11ms     20G       Shock - Destructive, 1/2 Sine, 11ms     50G       Operating Temperature     -40°C to 100°C (175°C max terminal temperature)       Ingress Protection     Exceeds IP69, (Hermetically sealed)       Mechanical life     300,000       AVILLIARY CONTACTS     MEASURE       Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     5mA @ 8V       Coll (20°C)     MEASURE       Nominal Voltage     12 VDC     24 VDC       Max Voltage     16 VDC     32 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     466W     38W     38W	(Typical) measured at 200A	0.1525 mΩ
Shock - Functional, 1/2 Sine, 11ms20GShock - Destructive, 1/2 Sine, 11ms50GOperating Temperature-40°C to 100°C (175°C max terminal temperature)Ingress ProtectionExceeds IP69, (Hermetically sealed)Mechanical life300,000AUXILIARY CONTACTSMEASUREContact ArrangementSPST, Normally OpenContinuous Current2AMinimum Current5mA @ 8VCOLL (20°C)MEASURENominal Voltage12 VDC24 VDCMax Voltage16 VDC32 VDCPick-up Voltage (Max)³7.5 VDC15 VDCDrop-out Voltage (Min)0.6 VDC1.2 VDCPull-in current (max 300ms)4.3A1.6AHolding Current0.24A0.09AO.05ACoil Power (pull-in)46WKoil Power (Holding)2.9W2.2W2.9W2.2W2.2W	Operate Time (Max, incl bounce)	25ms
Shock – Destructive, 1/2 Sine, 11ms50GOperating Temperature-40°C to 100°C (175°C max terminal temperature)Ingress ProtectionExceeds IP69, (Hermetically sealed)Mechanical life300,000AUXILIARY CONTACTSMEASUREContact ArrangementSPST, Normally OpenContinuous Current2AMinimum Current5mA @ 8VCOIL (20°C)MEASURENominal Voltage12 VDCPick-up Voltage (Max) <sup>3</sup> 7.5 VDCDrop-out Voltage (Max) <sup>3</sup> 7.5 VDCDrop-out Voltage (Min)0.6 VDCPull-in current0.24AModing Current0.24ACoil Power (pull-in)46WCoil Power (Holding)2.9W2.2W2.2W	Release Time (Max)	10ms
Operating Temperature-40°C to 100°C (175°C max terminal temperature)Ingress ProtectionExceeds IP69, (Hermetically sealed)Mechanical life300,000AUXILIARY CONTACTSMEASUREContact ArrangementSPST, Normally OpenContinuous Current2AMinimum Current5mA @ 8VCOIL (20°C)MEASURENominal Voltage12 VDCValue24 VDCMax Voltage16 VDC92 VDC85 VDC92 VDC92 VDC92 VDC15 VDC92 VDC2.5 VDC92 VDC2.5 VDC92 VDC2.5 VDC92 VDC0.05ACoil Power (pull-in)46W02 Power (Holding)2.9W2.2W2.2W	Shock - Functional, 1/2 Sine, 11ms	20G
Ingress ProtectionExceeds IP69, (Hermetically sealed)Mechanical life300,000AUXILIARY CONTACTSContact ArrangementSPST, Normally OpenContact Arrangement2AContinuous Current5mA @ 8VCOIL (20°C)MEASURENominal Voltage12 VDCMax Voltage16 VDC92 VDC48 VDCMax Voltage16 VDC92 VDC85 VDC92 Pick-up Voltage (Max)³7.5 VDC92 Drop-out Voltage (Min)0.6 VDC92 Pull-in current (max 300ms)4.3A4.3A1.6A46W38W38WCoil Power (holding)2.9W2.9W2.2W2.2W	Shock – Destructive, 1/2 Sine, 11ms	50G
Mechanical life300,000AUXILIARY CONTACTSMEASUREContact ArrangementSPST, Normally OpenContinuous Current2AMinimum Current5mA @ 8VCOIL (20°C)MEASURENominal Voltage12 VDCMax Voltage16 VDC92 VDC85 VDCPick-up Voltage (Max)³7.5 VDC15 VDC32 VDCDrop-out Voltage (Min)0.6 VDCPull-in current (max 300ms)4.3AHolding Current0.24A0.09A0.05ACoil Power (pull-in)46W38W38WCoil Power (Holding)2.9W2.2W2.2W	Operating Temperature	-40°C to 100°C (175°C max terminal temperature)
AUXILIARY CONTACTSMEASUREContact ArrangementSPST, Normally OpenContinuous Current2AMinimum Current5mA @ 8VCOIL (20°C)MEASURENominal Voltage12 VDCMax Voltage16 VDC92 VDC48 VDCPick-up Voltage (Max)³7.5 VDC15 VDC32 VDCDrop-out Voltage (Min)0.6 VDCPull-in current (max 300ms)4.3AHolding Current0.24A0.09A0.05ACoil Power (pull-in)46W38W38WCoil Power (Holding)2.9W2.2W2.2W	Ingress Protection	Exceeds IP69, (Hermetically sealed)
Contact Arrangement     SPST, Normally Open       Continuous Current     2A       Minimum Current     5mA @ 8V       COIL (20°C)     MEASURE       Nominal Voltage     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC     32 VDC     85 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	Mechanical life	300,000
Continuous Current     2A       Minimum Current     5mA @ 8V       COIL (20°C)     MEASURE       Nominal Voltage     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC     32 VDC     85 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	AUXILIARY CONTACTS	MEASURE
Minimum Current     5mA @ 8V       COIL (20°C)     MEASURE       Nominal Voltage     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC     32 VDC     85 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	Contact Arrangement	SPST, Normally Open
COIL (20°C)     MEASURE       Nominal Voltage     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC     32 VDC     85 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	Continuous Current	2A
Nominal Voltage     12 VDC     24 VDC     48 VDC       Max Voltage     16 VDC     32 VDC     85 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	Minimum Current	5mA @ 8V
Max Voltage     16 VDC     32 VDC     85 VDC       Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W		
Pick-up Voltage (Max) <sup>3</sup> 7.5 VDC     15 VDC     32 VDC       Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	0	
Drop-out Voltage (Min)     0.6 VDC     1.2 VDC     2.5 VDC       Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	0	
Pull-in current (max 300ms)     4.3A     1.6A     0.8A       Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W		
Holding Current     0.24A     0.09A     0.05A       Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W		
Coil Power (pull-in)     46W     38W     38W       Coil Power (Holding)     2.9W     2.2W     2.2W	· · ·	
Coil Power (Holding) 2.9W 2.2W 2.2W	5	
	Coil Back EMF (V) <sup>1</sup> via internal TVS	150V 150V 0V

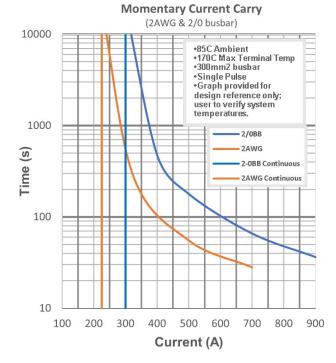


TABLE 2. RESISTIVE LOAD     SWITCHING     (MAKE / BREAK DATA)     POLARITY SENSITIVE     CYCLES			
VERSION VOLTAGE	CURRENT	(1 cycle = 1 make + 1 break)	
450V	150A	10,000	
750V	150A	1,500	
320V	-150A	20	
320V	1200A	1	
750V	50A	10,000	
450V	100A	30,000	
1000V	150A	100	
1000V	225A	300 (BREAK only)	



#### **OPTIONS**

TABLE 3. PRODU	JCT NOMENCLATUR	2		
	CONTACT POLARITY	MOUNTING	COIL	AUXILIARY CONTACTS
		3 PCB Mount	P 12V dual coil (economized)	A Normally Open
RXC15	P Polarity Sensitive	9 Chassis Mount	<b>Q</b> 24V dual coil (economized)	B Normally Closed
			M 48V PWM coil (economized)	X None

#### **PRODUCT DIMENSIONS [mm]**

#### **Mounting Option 3 – PCB Mount**

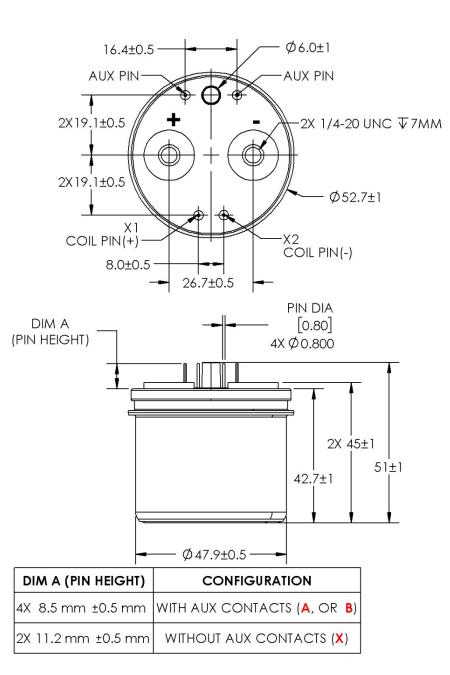
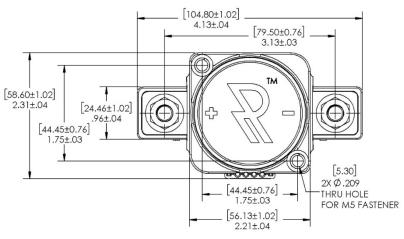


TABLE 4. DIMENS	
CHARACTERISTIC	MEASURE
Weight	290g (0.64 lb)
Coil Wire	N/A
Mounting Inserts	N/A
Mounting Position	Any / Not Position Sensitive
Package Quantity	TBD
Install Torque	7 Nm
1/4" – 20	7mm Thread
Main Terminals	Engagement





#### **Mounting Option 9 – Chassis Mount**

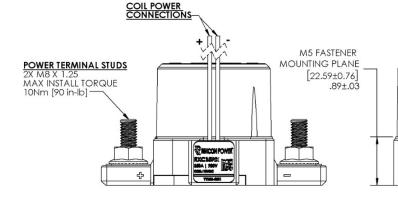


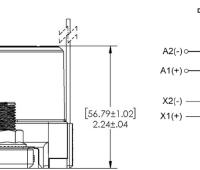
#### **TABLE 5. DIMENSIONAL AND INSTALLATION**

CHARACTERISTIC	MEASURE
Weight	450g (1.0 lb)
Mounting Inserts	M5
Mounting Position	Any / Not Position Sensitive
Package Quantity	20 pcs
Install Torque M8 x 1.5 Main Terminals	90 in-lb. [10Nm]
COIL / AUX WIRE	FUNCTION
Black	Coil GND (-)
Red	Coil POS (+)
Grey	Aux COM
	Aux COIVI
Blue	Aux N.O.
,	
Blue	Aux N.O.
Blue Orange	Aux N.O. Aux N.C.
Blue Orange Lead Wire Length	Aux N.O. Aux N.C. 15 in [38 cm]
Blue Orange Lead Wire Length Lead Wire Size	Aux N.O. Aux N.C. 15 in [38 cm] 20AWG, Stranded

#### **Power Contacts**

Q ; Q





• 3D model available upon request

#### NOTES

- 1. Attach cables and busbars directly to the main terminal pad using the recommended install torque. Do not use washers or other materials between the contactor power terminals and the conductor.
- Contactor may be used above Max Switching Voltage if the application does not require significant load breaking. Please contact Rincon Power for more details.
- 3. Dual coil economizer design: Pickup Voltage must be applied as a pulse. Do not ramp voltage.
- 4. Integrated coil suppression limits back EMF to 150V.
- 5. Rigid busbar structures have the potential to induce stress into the device and can damage the hermetic seal. When using busbars, it is important to design compliance into the bus bar structure via the use of flexible laminated busbars and or by means of incorporating adjustability in adjacent bolted interfaces.
- 6. Polarity Sensitive versions are marked + and for the power terminals. For applications that require the contactor to switch under load, please ensure current is flowing from the + to the terminal when breaking/opening under load For Bi-Directional versions the direction of current does not matter when breaking under load.
- 7. Avoid excessive coil voltages. Exceeding the ratings on the datasheet may result in high coil temperature and coil failure.