

NEMA Control Contact Designations

Per ICS - 2

NEMA Contact Rating Designations

In contact rating designations, the letter (not to be confused with the contact arrangement form letter e.g. Form "A", Form "B", Form "C", Form "Z") designates the continuous thermal current carrying capability of the contact. The numerical suffix designates the maximum voltage design values of 600, 300 and 150 volts for the suffixes 600, 300 and 150, respectively.

NEMA Contact Rating Designations

For ratings at voltages between the maximum design value and 120V, the make and break ratings shall be obtained by dividing the voltampere rating by the application voltage. For voltages below 120V, the maximum make current shall be the same as that for 120V, and the maximum break current shall be obtained by dividing the break voltamperes by the application voltage but shall not exceed the continuous thermal current.

The maximum make values (current and voltamperes) are for very short duration (30 milliseconds or less) involved in controlling an electromagnetic device. Make and break ratings apply for double-throw contacts only when both the normally open and normally closed contacts are connected to the same polarity.

AC Rating Table

NEMA Contact Ratings For AC Control Circuit Contacts 50Hz or 60Hz											
Contact Rating Designation	Maximum Continuous Carrying Current Amperes	Maximum Current - Amperes								Maximum Voltamperes	
		120 Volts		240 Volts		480 Volts		600 Volts			
		Make	Break	Make	Break	Make	Break	Make	Break	Make	Break
A150	10.00	60.0	6.00	....	....	....	....	....	....	7200	720
A300	10.00	60.0	6.00	30.0	3.00	....	....	....	....	7200	720
A600	10.00	60.0	6.00	30.0	3.00	15.0	1.50	12.0	1.20	7200	720
B150	5.00	30.0	3.00	....	....	....	....	....	....	3600	360
B300	5.00	30.0	3.00	15.0	1.50	....	....	....	....	3600	360
B600	5.00	30.0	3.00	15.0	1.50	7.50	0.75	6.00	0.60	3600	360
C150	2.50	15.0	1.50	....	....	....	....	....	....	1800	180
C300	2.50	15.0	1.50	7.50	0.75	....	....	....	....	1800	180
C600	2.50	15.0	1.50	7.50	0.75	3.75	.375	3.00	0.30	1800	180
D150	1.00	3.60	0.60							432	72
D300	1.00	3.60	0.60	1.80	0.30					432	72
E150	0.50	1.80	0.30							216	36

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DC Rating Table

Maximum Ratings For DC Control Circuit Contacts					
Contact Rating Designation	Maximum Continuous Carrying Current Amperes	Maximum Current - Amperes Make or Break			300V or Less Make/Break Voltamperes
		125 VDC	250 VDC	301-600 VDC	
N150	10.00	2.20	....	....	275
N300	10.00	2.20	1.10	....	275
N600	10.00	2.20	1.10	0.40	275
P150	5.00	1.10	....	....	138
P300	5.00	1.10	0.55	....	138
P600	5.00	1.10	0.55	0.20	138
Q150	2.50	0.55	....	....	69
Q300	2.50	0.55	0.27		69
Q600	2.50	0.55	0.27	0.10	69
R150	1.00	0.22			28
R300	1.00	0.22	0.11		28

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