Low voltage to the contactor coil will allow the contactor to chatter. Contactor chatter can also occur due to chattering switches or loose connections in the control circuit. A low voltage situation can also occur due an unbalanced loading of the motor. Some causes of an unbalance load might be a single phasing condition or higher resistance in one of the phases caused by inadequate wire sizing or poor connections. The higher resistance will cause a voltage lag which in turn could lead to contactor chattering. See AE10-1244 for more information.

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