Troubleshooting Guide



Siemens 3RW30-40 Series Reduced Voltage Soft Starter

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1.0 Common Faults

Most commonly, a fault presented by the 3RW series soft start can be remedied by making adjustments to the parameterization potentiometers on the front of the device. The function of these potentiometers is defined below.

U - Starting Voltage



t - Ramp Up Time



le – Rated Current



xle - Starting Current



t - Ramp Down Time



Starting CLASS



U - Sets percentage of full voltage used to start.

Increasing this parameter will increase starting torque but will also increase the heat load to the motor during start up.

t - Sets ramp up time

Increasing this value will extend the time taken for motor to reach full line voltage. If set too long, RVSS will fault to protect motor and SCRs.

- t Sets ramp down time Increasing this value will extend the time taken for RVSS to reduce the voltage on soft stop.
- le Selects rated full load current of Motor
- xle Max Starting Current

 Sets the max allowable current at start.
 (i.e. A setting of "5" would allow 5 times the value set with "le" above)

CLASS - Selects start class for application

Classes are defined by IEC 947-4-1 per the below table.

Tripping Class	10A	10	20	30
Max. tripping time at 1.5 x setting current (s) (warm state)	120	240	480	720
Tripping time at 7.2 x setting current (s) (cold state)	2 - 10	4 - 10	6 - 20	9 - 30
At 1.05 x setting current	no tripping			

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2.0 Frames

3RW30

The 3RW series of RVSS has several frames available depending on the power required for your system. The ranges of frames are pictured below. You will notice there are two frames available for the 3RW40, however the commissioning process will be the same.

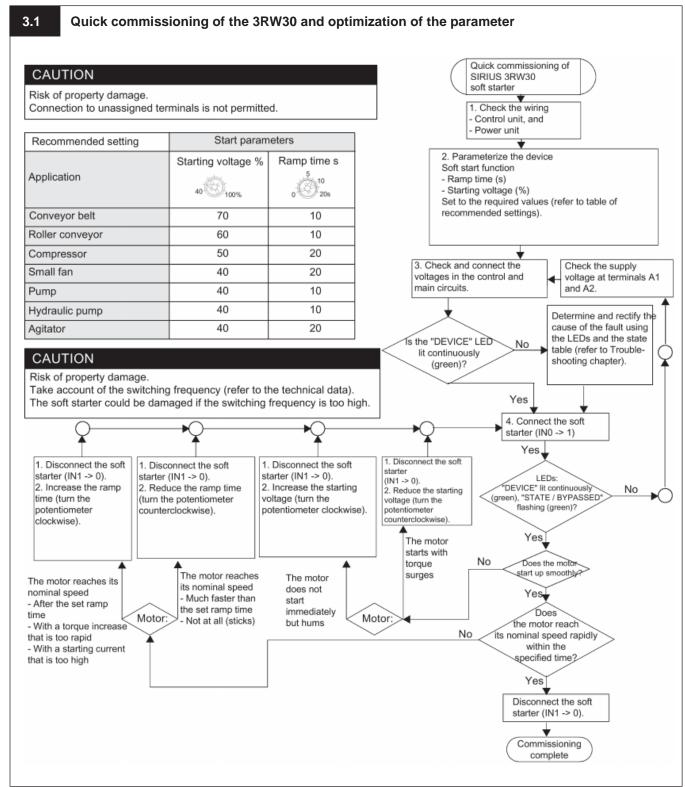
Once you have identified the series of your soft start, proceed to Pg.3 and follow the steps pertaining to your series to commission the soft start.

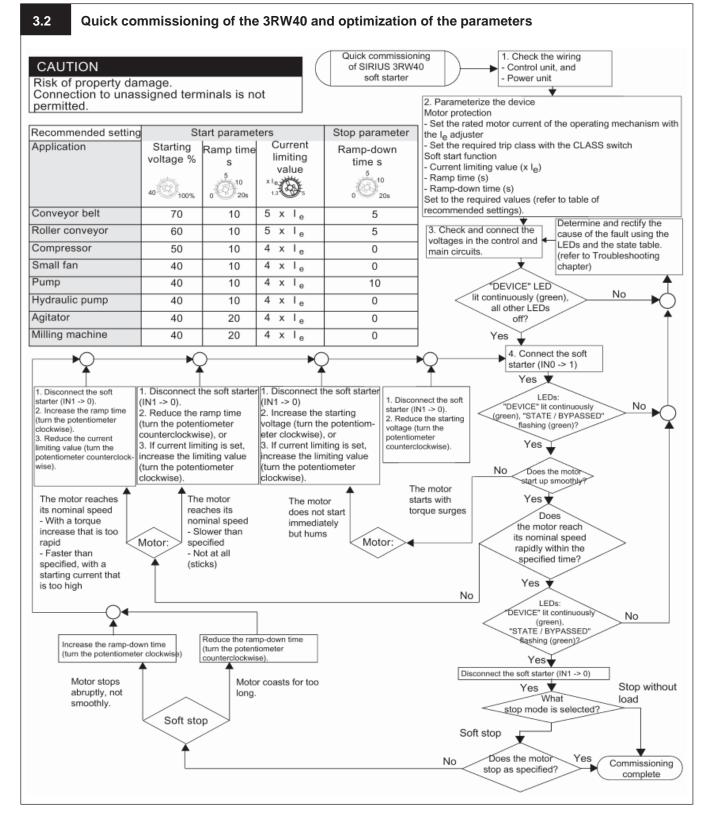


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3.0 Quick Commissioning





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