

Description

The Tru-Start “soft-start” starter is a general purpose, full featured starter which offers an “off the shelf” solution for most motor applications at a very economic price. The Tru-Start incorporates oversized SCR’s and a class 20 solid-state over-load which will smoothly accelerate most motor loads and will require a minimum of maintenance or adjustment. Simple selection and installation ensures that the application is up and running with a minimum of effort. Additional options may be installed to provide smooth stop, up to speed detection, jam detection, energy saver and shorted SCR detection. The Tru-Start is designed to accomplish smooth reversing with the addition of four SCR’s and a reversing logic board. DC injection stopping is also available as a standard option.

Features

- Simple installation with only one adjustment for FLA
- Universal power section will accept 200-600V
- “Constant current or “Current ramp” modes
- Complete troubleshooting diagnostics as standard
- Regulates current to the motor (not voltage)
- 150-350% current limit adjustment
- 2-30 second current ramp adjustment
- Common logic board for entire product range CSA Approved



Table 6.11. Tru-Start Catalogue Numbering System

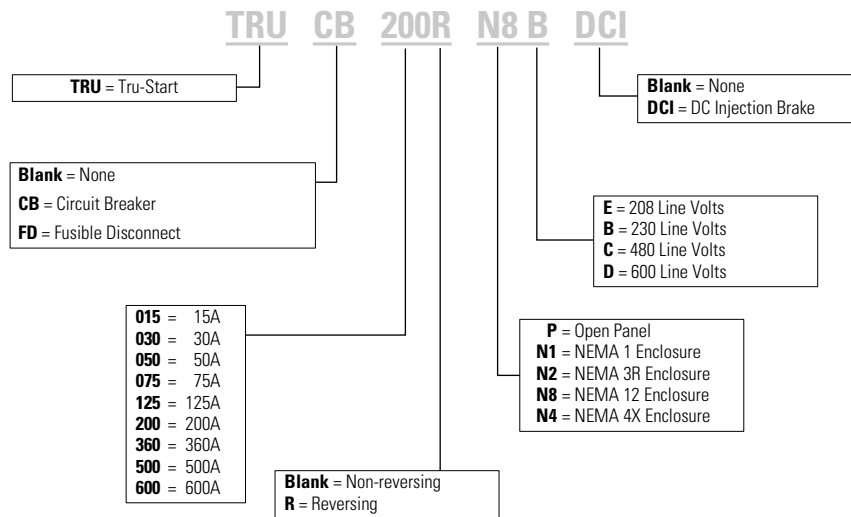


Table 6-12. Non-Reversing and Reversing Starters

Horsepower				Open Panel	NEMA 1 Encl.	NEMA 12 Encl.
Amps	230V	460V	575V	Catalogue Number	Catalogue Number	Catalogue Number
15	5	10	15	TRU-015-P	TRU-015-N1	TRU-015-N12
30	10	25	30	TRU-030-P	TRU-030-N1	TRU-030-N12
50	20	40	50	TRU-050-P	TRU-050-N1	TRU-050-N12
75	30	60	75	TRU-075-P	TRU-075-N1	TRU-075-N12
125	50	100	125	TRU-125-P	TRU-125-N1	TRU-125-N12
200	75	150	200	TRU-200-P	TRU-200-N1	TRU-200-N12
360	150	300	350	TRU-360-P	TRU-360-N1	TRU-360-N12
500	200	400	500	TRU-500-P	TRU-500-N1	TRU-500-N12
600	250	500	600	TRU-600-P	TRU-600-N1	TRU-600-N12
Reversing Starters						
15	5	10	15	TRU-015R-P	TRU-015R-N1	TRU-015R-N12
30	10	25	30	TRU-030R-P	TRU-030R-N1	TRU-030R-N12
50	20	40	50	TRU-050R-P	TRU-050R-N1	TRU-050R-N12
75	30	60	75	TRU-075R-P	TRU-075R-N1	TRU-075R-N12
125	50	100	125	TRU-125R-P	TRU-125R-N1	TRU-125R-N12
200	75	150	200	TRU-200R-P	TRU-200R-N1	TRU-200R-N12
360	150	300	350	TRU-360R-P	TRU-360R-N1	TRU-360R-N12
500	200	400	500	TRU-500R-P	TRU-500R-N1	TRU-500R-N12
600	250	500	600	TRU-600R-P	TRU-600R-N1	TRU-600R-N12

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DC Injection Braking

DCI braking chassis provides smooth deceleration of AC induction motors. DCI Braking may be used to decelerate large inertia loads where the ramp stop option will only be effective with lightly loaded motors.

Table 6-13. Injection Braking

Amps	Hp at 575V AC	Hp at 460V AC	Catalogue Number	Dimensions
20	20	15	TRU-020-DCI	13 x 8.5 x 6
40	40	30	TRU-040-DCI	13 x 8.5 x 6
80	75	60	TRU-080-DCI	16 x 8.5 x 6
125	125	100	TRU-125-DCI	13 x 10 x 6
200	200	150	TRU-200-DCI	17 x 10 x 8.5
300	300	250	TRU-300-DCI	11 x 13 x 10.5
500	500	400	TRU-500-DCI	16.5 x 14.5 x 10.5

Table 6-14. Factory Options

Catalogue Number	Description
ST	Soft Stop
SC	Shortened SCR detection
MO	Multi-Option includes Energy Saver, Up-To-Speed and Locked Rotor Jam protection

Table 6-15. Dimensions

Amps	Open panel	NEMA 1	NEMA 1 LG	NEMA 12
15	13 x 8.5 x 6	13 x 8.5 x 7	20 x 8.5 x 7	13 x 8.5 x 7 Non Vented
30	16 x 8.5 x 6	16 x 8.5 x 7	30 x 20 x 10	30 x 20 x 10 Non Vented
50	17 x 10.5 x 7.5	17 x 12 x 10.5	36 x 30 x 12	17 x 12 x 10.5 Non Vented
75	17 x 10.5 x 8.5	17 x 12 x 10.5	36 x 30 x 12	17 x 12 x 10.5 Non Vented
125	21 x 10.5 x 9.5	21 x 12 x 10.5	36 x 30 x 12	21 x 12 x 10.5 Fan Cooled
200	13.5 x 20.5 x 10.5	13.5 x 20.5 x 10.5	48 x 36 x 16	48 x 36 x 16 with Bypass
360	19 x 22 x 11	30 x 24 x 16	48 x 36 x 16	48 x 36 x 16 with Bypass
500	19.5 x 25 x 13.5	42 x 36 x 16	60 x 48 x 16	60 x 48 x 16 with Bypass
600	19.5 x 25 x 13.5	42 x 36 x 16	60 x 48 x 16	60 x 48 x 16 with Bypass