

## TRU-START

### 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
- Heavy Duty Rated (500% FLA for 35 seconds)
- CSA Approved



### Non-Reversing and Reversing Starters

#### NON-REVERSING STARTERS

Horsepower	Open Panel			NEMA 1 Encl.	NEMA 12 Encl.
	230V	460V	575V	Catalogue Number	Catalogue Number
15	5	10	15	TRU-015-P	TRU-015-N1
30	10	25	30	TRU-030-P	TRU-030-N1
50	20	40	50	TRU-050-P	TRU-050-N1
75	30	60	75	TRU-075-P	TRU-075-N1
125	50	100	125	TRU-125-P	TRU-125-N1
200	75	150	200	TRU-200-P	TRU-200-N1
360	150	300	350	TRU-360-P	TRU-360-N1
500	200	400	500	TRU-500-P	TRU-500-N1
600	250	500	600	TRU-600-P	TRU-600-N1
800	300	600	800	TRU-800-P	TRU-800-N1

#### 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
800	300	600	800	TRU-800R-P	TRU-800R-N1	TRU-800R-N12

## DC Injection Braking

DCI braking chassis provides smooth deceleration of AC induction motors. DCI braking may be used to decelerate large inertia loads for increased safety and production.

### DC Injection Braking

Amps	Hp at 575 V Ac	Hp at 460 V Ac	Catalogue Number	Dimensions
20	20	15	<b>TRU-020-DCI</b>	16 x 8.5 x 6
40	40	30	<b>TRU-040-DCI</b>	17 x 10 x 8.5
80	75	60	<b>TRU-080-DCI</b>	17 x 10 x 8.5
125	125	100	<b>TRU-125-DCI</b>	21 x 10.5 x 9
200	200	150	<b>TRU-200-DCI</b>	11 x 13 x 10.5
300	300	250	<b>TRU-300-DCI</b>	16.5 x 14.5 x 11
500	500	400	<b>TRU-500-DCI</b>	17.5 x 16.5 x 14

### Factory Options

Catalogue Number	Description
<b>ST</b>	Soft Stop
<b>SC</b>	Shorted SCR detection
<b>MO</b>	Multi-Option includes Energy Saver, Up-To-Speed and Locked Rotor Jam protection
<b>BY</b>	Bypass Lugs
<b>DCI</b>	DCI Brake

### Dimensions

Amps	Open Panel	NEMA 1	NEMA 12
15	13 x 8.5 x 6	13 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	24 x 20 x 12 Non Vented
50	17 x 10.5 x 7.5	17 x 12 x 10.5	17 x 12 x 10.5 Non Vented
75	17 x 10.5 x 8.5	17 x 12 x 10.5	17 x 12 x 10.5 Non Vented
125	21 x 10.5 x 9.5	21 x 12 x 10.5	21 x 12 x 10.5 Fan Cooled
200	13.5 x 20.5 x 10.5	30 x 24 x 16	48 x 36 x 16 with Bypass
360	19 x 22 x 11	36 x 30 x 16	48 x 36 x 16 with Bypass
500	19.5 x 25 x 13.5	48 x 36 x 16	60 x 48 x 16 with Bypass
600	19.5 x 25 x 13.5	48 x 36 x 16	60 x 48 x 16 with Bypass
800	25.5 x 28 x 16.5	48 x 36 x 20	60 x 60 x 20 with Bypass

### Spare Parts

Catalogue Number	Description
<b>CA388-4</b>	Reversing Logic Card
<b>CA390-2</b>	Soft Stop Card
<b>CA391-3</b>	Multi-Option Card
<b>CA392-3</b>	Controller Logic Card
<b>CA395-2</b>	Shorted SCR Card
<b>CA398-3</b>	DC Injection Braking Card
<b>T261123</b>	C/T 1500:1
<b>T262320</b>	C/T 2500:1
<b>T265320</b>	C/T 5000:1
<b>T268320</b>	C/T 8500:1
<b>T261321</b>	C/T 10000:1
<b>N10SP06</b>	Dual SCR 90A (TRU-015, TRU-030, TRU-050)
<b>N10SP16</b>	Dual SCR 140A (TRU-075)
<b>N20SP06</b>	Dual SCR 250A (TRU-125)
<b>N728452</b>	SCR 580A (TRU-200)
<b>N718602</b>	SCR 720A (TRU-360)
<b>N718133</b>	SCR 1100A (TRU-500)
<b>N718153</b>	SCR 1200A (TRU-600)
<b>N718552</b>	SCR 1500A (TRU-800)
<b>0210050</b>	MOV 625V
<b>A760201</b>	Bypass Lugs (Set) for 200 AMP TRU START
<b>A760361</b>	Bypass Lugs (Set) for 360 AMP TRU START
<b>A760501</b>	Bypass Lugs (Set) for 500 AMP TRU START
<b>A760601</b>	Bypass Lugs (Set) for 600 AMP TRU START
<b>G010007</b>	Fan (TRU-075 / TRU-125)
<b>G010001</b>	Fan (TRU-200 / TRU-360 / TRU-500 / TRU-600)
<b>G010003</b>	Fan (TRU-800)
<b>A760002B</b>	15A Burden Resistor
<b>A760003B</b>	30A Burden Resistor
<b>A760008B</b>	50A Burden Resistor
<b>A760004B</b>	80A Burden Resistor
<b>A760005B</b>	125A Burden Resistor
<b>A760007</b>	200A Burden Resistor
<b>A760006B</b>	360A Burden Resistor
<b>A760009</b>	500A Burden Resistor