Bulletin 154 Starting Torque Controllers

Allen-Bradley

Cost-effective Soft Starting for Singleand Three-Phase Low Horsepower Motors

Features and Benefits

- Reliable proven technology with solid state power poles
- Simple commissioning with only two adjustments:
 - Initial Torque Setting (10%....80%)
 - Duration of Ramp (0.5...5sec)
- Energy savings
- Less wear and tear on mechanical systems
- RoHS compliant, China RoHs
- cULus approved

Starting Torque Controllers help reduce mechanical and electrical stress on motor circuits and systems by limiting the torque surge at start-up.









Reduce Mechanical and Electrical Stress

The Starting Torque Controller (STC) provides a cost-effective basic softstarting solution for low horsepower single and three phase squirrel cage induction motors. Models are available to work with single-phase motors, as well as one or two control phase versions for three-phase motors.



Starting Torque Controllers help reduce mechanical and electrical stress on motor circuits and systems by limiting the torque surge at start-up.

Starting torque controllers are ideal for adding on to existing across the line starters. They allow for adjustable initial torque and ramp time.

Ideal applications include basic material handling, fans, pumps, and single phase reduced voltage starting applications.





Single-Phase with single control phase Starting Torque Controllers

	Rated Power @ 40C (104 F)			Control Voltage	
Current Rating [A]		115V	230V	24V AC/DC	100240VAC
10	Нр	0.5	2		
12	kW	0.55	1.1	154-5PTCTZINAR	154-5PICIZINAD
16	Нр	0.5	2	- 154-SP1C12NAR - 154-SP1C16NAR	154-SP1C16NAD
10	kW	0.75	1.5	154-SPICIONAR	
25	Нр	1	3		154-SP1C25NAD
25	kW	1.5	3	154-5PTC25INAK	

Three-Phase with one control phase Starting Torque Controllers

	Rated Power @ 40C (104 F)				Control Voltage		
Current Rating [A]		220V	400V	460V	575V	24V AC/DC	100240VAC
12	Нр	3	5	7.5	10		154-TP1C12NCD
	kW	3	5.5	6.3	6.3	154-TPTCTZINCK	
16	Нр	5	7.5	10	10		154-TP1C16NCD
	kW	4	7.5	7.5	7.5	154-TPTCTOINCR	
25	Нр	7.5	10	15	20	154-TP1C25NCR	154-TP1C25NCD
	kW	6.3	11	13	15		

Three-Phase with two control phases Starting Torque Controllers

	Rated Power @ 40C (104 F)				Control Voltage		
Current Rating [A]		220V	400V	460V	575V	24V AC/DC	100240VAC
12	Нр	3	5	7.5	10		154-TP2C12NCD
	kW	3	5.5	6.3	6.3	154-TP2CT2INCK	
16	Нр	5	7.5	10	10		154-TP2C16NCD
	kW	4	7.5	7.5	7.5	154-TP2CTOINCR	
25	Нр	7.5	10	15	20	154-TP2C25NCR	154-TP2C25NCD
	kW	6.3	11	13	15		

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