

TMC7 series Digital Soft Starter

With Built-in:

- By-pass contacts
- Motor protection function
- Communication (optional)

Compact TMC7 series soft starter is designed to start motors up to 110kW in most efficient and economical manner. Its fully adjustable Start and Stop times coupled with over 4 x FLC (Full Load Current) limit, allows it to be used for most common applications in industry. Together with its accessories of remote key-pad and communication interfaces (MODBUS / PROFIBUS / DEVICENET / ASI), it is one of the most powerful soft starters on the market.



Benefits of TMC7

- ▶ Produces Smoother Starts and Stops
- ▶ Limits In-rush Currents
- ▶ Eliminates Currents Surges and Voltage Dips
- ▶ Reduces Mechanical Shock on Motor and the Coupled Machine
- ▶ Reduces Mechanical Damage
- ▶ Eliminates Water Hammer
- ▶ Decreases Equipment Downtime

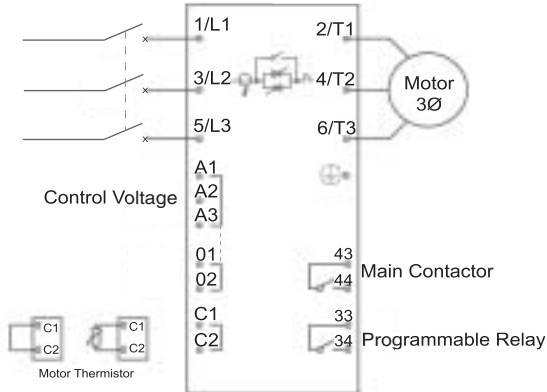
Ideal for Starting:

- ▶ Pumps
- ▶ Fans & Blowers
- ▶ Compressors and Chillers
- ▶ Conveyors
- ▶ Augers & Screw Feeders
- ▶ Industrial Machinery



ELECTRICAL SCHEMATIC

Mains Supply



RANGE

Model	kW @400V	Maximum Motor FLC at 40°C	
		4 x FLC for 6 sec. (AC53b 4-6:354)	4 x FLC for 20 sec. (AC53b 4-20:340)
TMC7- 4007 - C1	7.5	18 A	17 A
TMC7- 4015 - C1	15	34 A	30 A
TMC7- 4018 - C1	18.5	42 A	36 A
TMC7- 4022 - C1	22	48 A	40 A
TMC7- 4030 - C1	30	60 A	49 A
		(AC53b 4-6:594)	(AC53b 4-20:580)
TMC7- 4037 - C1	37	75 A	65 A
TMC7- 4045 - C1	45	85 A	73 A
TMC7- 4055 - C1	55	100 A	96 A
TMC7- 4075 - C1	75	140 A	120 A
TMC7- 4090 - C1	90	170 A	142 A
TMC7- 4110 - C1	110	200 A	165 A

TECHNICAL SPECIFICATIONS:

- ▶ Supply Voltage: 200-440 V AC (+10%, -15%) , 3 Ph
- ▶ Supply Frequency: 45 - 66 Hz
- ▶ Control Voltage: 110-240 V AC or 380 - 440V AC
- ▶ Number of Starts: =<30kW: 10 starts /hour
=>37kW: 6 starts /hour
- ▶ Output Relay Contacts: 2A, 400V AC, AC11
- ▶ Degree of Protection: =< 55kW: IP20
> 55kW: IP 00
- ▶ Max. Ambient Temperature: 60 Deg C
- ▶ Relative Humidity: 5 % to 95 %

DIMENSIONS

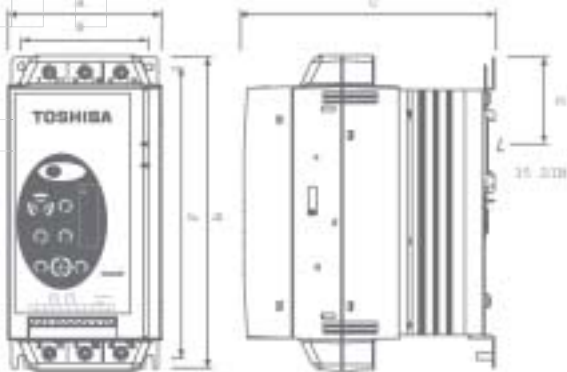
mm (inch)

MODEL	A	B	C	D	E	F
TMC7- 4007 - C1	98	203	165	55	82	188
TMC7- 4015 - C1						
TMC7- 4018 - C1	(3.86)	(7.99)	(6.50)	(2.17)	(3.23)	(7.40)
TMC7- 4022 - C1						
TMC7- 4030 - C1						
TMC7- 4037 - C1	145	215	193	-	124	196
TMC7- 4045 - C1	(5.71)	(8.46)	(7.60)		(4.88)	(7.72)
TMC7- 4055 - C1						
TMC7- 4075 - C1	202	240	214	-	160	204
TMC7- 4090 - C1	(7.95)	(9.45)	(8.40)		(6.30)	(8.03)
TMC7- 4110 - C1						



ADJUSTMENTS

1. Motor Full Load Current	$x\% = \frac{\text{Motor FLC}}{\text{TMC7 FLC}}$ $x\% = \frac{\text{FLC Del Motor}}{\text{TMC7 FLC}}$	70% 80% 60% 50% 100%
2. Current Ramp		200% 150% 100% 50% OFF
3. Current Limits		350% 300% 400% 250%
4. Motor Trip Class		8 10 12 6 14 4 18 2 20 OFF
5. Local Reset Push Button		
6. Soft Stop Time		10s 12s 8s 14s 4s 16s 2s 20s No Soft Stop
7. Excess Start Time		10s 12s 8s 14s 4s 16s 2s 20s OFF
8. Phase Rotation Protection	FWD ANY L1 L2 L3 L1 L2 L3 TMC7	ANY OFF ANY ON Phase Rotation
9. Auxiliary Relay Function		Aux Relay TRIP = Fault



Above information is subject to change without notice.

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