MCD 201

Soft starters



Application

- The MCD 201 series soft starters are designed to control the start and stop of three-phase asynchronous fan motors using the Timed Voltage Ramp (TVR) method. Their use reduces starting current and mechanical stress on drive components when starting and shutting down equipment. Reducing the starting current enables the startup of high-power fans while limiting the maximum power allowed. Monitoring the correct phase sequence prevents the motor from reversing, thereby preventing the fan from rotating in the wrong direction. The devices are used in conjunction with an external motor protection device. The built-in SCR (thyristor) bypass ensures minimal device dimensions and reduces heat dissipation during nominal operation.

Operation

- The MCD 201 series soft starters are designed to operate at ambient temperatures ranging from -10 °C to +60 °C and relative humidity ranging from 5% to 95%.

Installation

- Models up to 30 kW can be mounted on a standard DIN rail (30 mm) or attached to a mounting plate. Models ranging from 37 to 45 kW are designed to be mounted only on a mounting plate.

Technical data

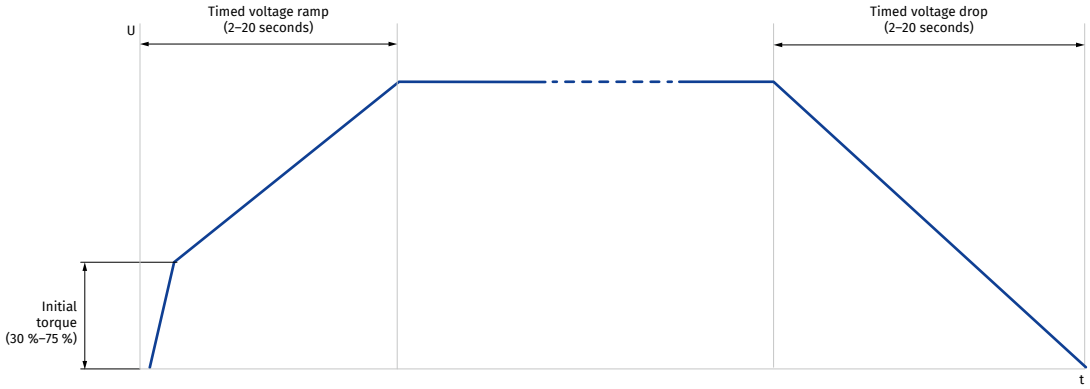
Parameters	MCD 201
Mains power supply (L1, L2, L3)	3 × 200–440V AC (+10 % / -15 %)
Mains frequency (during startup)	45–66 Hz
Control voltage (A1, A2, A3)	110–240V AC or 380–440V AC
Protection rating	IP20

Model range

Model	Motor power [kW]	Rated current AC-53b* [A]
MCD 201-007	7.5	18 A: 4-6: 354
MCD 201-015	15	34 A: 4-6: 354
MCD 201-018	18	42 A: 4-6: 354
MCD 201-022	22	48 A: 4-6: 354
MCD 201-030	30	60 A: 4-6: 354
MCD 201-037	37	75 A: 4-6: 594
MCD 201-045	45	85 A: 4-6: 594

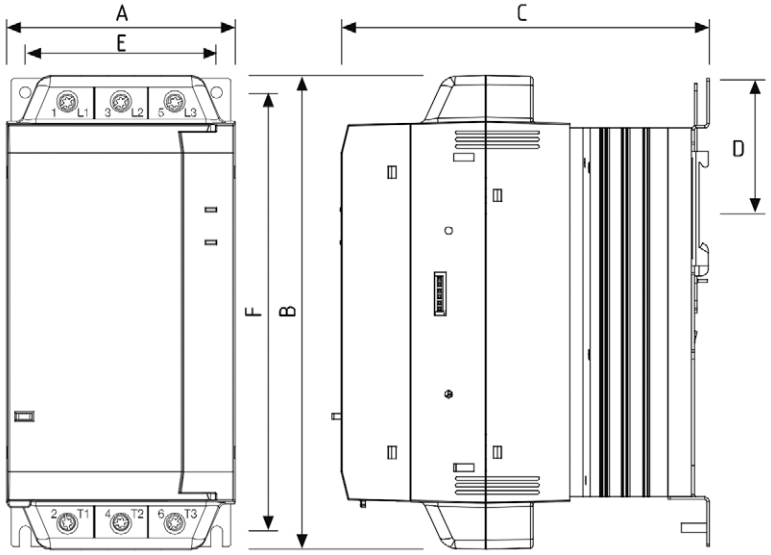
* Example: AC-53b: 42 A: 4–6: 354 – the maximum starting current is 4 times the FLC value (42A) for 6 seconds. The minimum interval between consecutive starts is 354 seconds.

Operating principle of the soft-starter



Dimensions [mm]

Model	A	B	C	D	E	F
MCD 201-007	98	203	165	55	82	188
MCD 201-015	98	203	165	55	82	188
MCD 201-018	98	203	165	55	82	188
MCD 201-022	98	203	165	55	82	188
MCD 201-030	98	203	165	55	82	188
MCD 201-037	145	215	193	-	124	196
MCD 201-045	145	215	193	-	124	196



Mounting

