CONTROL TECHNIQUES

Digistart CS

The Complete, Compact Motor Start Solution
5 - 150hp; 200 - 575V

DIGISTART
CS

The Digistart CS is one of the most compact, affordable motor soft start solutions available. Packed with features to save panel space and reduce installation time, the Digistart CS is an ideal, cost-effective solution when space and cost are critical.

Built-In Bypass Contactor
The bypass eliminates heat dissipation and energy loss and allows the use of non-ventilated enclosures.

Motor Protection
Built-in motor overload, excess start time and phase loss detection eliminates the need for external motor protection relays.

Simple to Install, Easy to Commission
Units can be mounted side-by-side with no gap and are DIN rail mountable up to 60A – ideal for installations in which multiple soft starters are required. Digistart CS is quick to commission with just seven rotary switches.

CE   cULus   E197605   N1652   CCC   **RoHS** Compliant

EMERSON
Industrial Automation

Ratings, Specifications and Options

Ratings

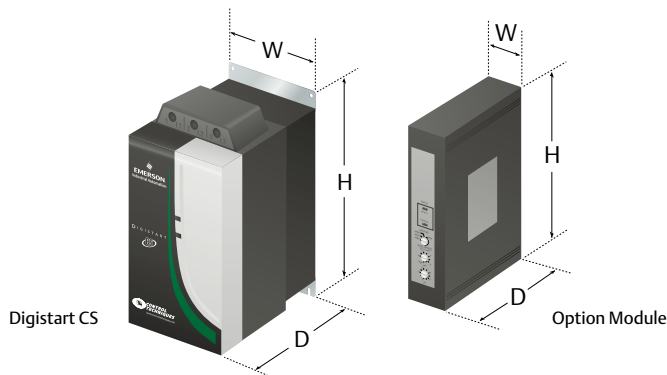| Size	Duty	Nominal		Heavy		Starts per Hour
	% FLA	400%		400%		
	Start Time	6 seconds		20 seconds		
	Model	(hp @ 460V)	(A)	(A)		
1	CS15018	10	18	17		10
	CS15034	25	34	30		
	CS15042	30	42	36		
	CS15060	40	60	49		
2	CS25085	60	85	73		6
	CS25100	75	100	96		
3	CS35140	100	140	120		6
	CS35170	125	170	142		
	CS35200	150	200	165		

Options

Order Code	Description
CS-KEYPAD	IP54 (NEMA 12) rated, panel mountable keypad and display for soft starter operation and monitoring.
CS-PUMP	Three digital inputs can detect low pressure, high pressure and low water levels. PT100 input is available for monitoring pump temperature. If any unwanted system conditions occur, soft starter will trip to prevent damage. Also reduces the need for other external equipment.
CS-FINGER-GUARD	Finger guards provide IP20 (NEMA 1) protection for models CS3x140 to CS3x200.

Fieldbus Order Code	Description
DIGISTART-MODBUS	Modbus RTU Interface for Digistart IS and Digistart CS
DIGISTART-PROFIBUS	PROFIBUS Interface for Digistart IS and Digistart CS
DIGISTART-DEVICENET	DeviceNet Interface for Digistart IS and Digistart CS
DIGISTART-USB	USB Interface for Digistart IS and Digistart CS

Dimensions

Size	Height (H)	Width (W)	Depth (D)	Weight
1	8.0in (203.2mm)	3.9in (99.1mm)	6.6in (167.6mm)	4.6lbs (2.1kg)
2	8.5in (215.9mm)	5.7in (144.8mm)	7.7in (195.6mm)	9.0lbs (4.1kg)
3	9.5in (241.3mm)	8.0in (203.2mm)	8.5in (215.9mm)	14.3lbs (6.5kg)
Fieldbus Option Dimensions				
	6.2in (157.5mm)	1.4in (35.6mm)	3.5in (88.9mm)	0.6lbs (0.3kg)

Can be mounted horizontally with 15% derating
*Maximum height inclusive of busbar

Specifications

Start modes	
Constant Current/Current Limit, Current Ramp	

Stop Modes	
Coast To Stop, Ramped Soft Stop	

General	
Current Range	18 to 200A (nominal)
Motor Connection	In-line or inside delta
Bypass	Integrated internal or external

Supply	
Voltage - CS5xxx	200 to 575Vac (±10%/-15%)
Control Voltage	110 to 240Vac (+10% / -15%) 380 to 440Vac (+10% / -15%)
Supply Frequency	45 to 66Hz

Inputs	
Start	Normally open
Stop	Normally closed
Motor Thermistor	

Relay Outputs	
Main Contactor	Normally open, 6A, 30 Vdc resistive / 2A, 400Vac, AC11
Programmable Relay	Normally open, 6A, 30 Vdc resistive / 2A, 400 Vac, AC11

Environmental	
RoHS Compliant	Standard

Protection	
CSxx018 to CSxx085 = IP20 (NEMA 1) CSxx140 to CSxx200 = IP00 (open chassis)	
Operating Temperature	14 to 104 °F (-10 to 40°C), max 140 °F (60 °C) with derating
Storage Temperature	-13 to 140°F (-25 to 60°C)
Humidity	5 to 95% relative
Conformal Coating	Standard

Digistart CS

Option Module

Option Modules

CS – Pump Module

Profibus

DeviceNet

CS – Keypad

CONTROL TECHNIQUES

www.controltechniques.com

EMERSON
Industrial Automation