



Crossover Guide


Digstart CS & Digstart IS to
Digistart D2 & D3 Soft Starters
Industry Leading Motor Control

5 hp – 1,400 hp
18 – 1,600 A
200 – 690 V Solutions

Digistart CS to Digistart D2



Ratings

Size	Duty	Duty	Nominal		Nominal	Starts Per Hour
	% FLA	% FLA	400%		400%	
	Start Time Digistart CS 	Start Time Digistart D2	6 Seconds		6 Seconds	
			(hp @ 460 V)	(A)	(A)	
1	CS15018	D2-16-018	10	18	17	10
	CS15034	D2-16-034	25	34	30	
	CS15042	D2-16-042	30	42	36	
	CS15060	D2-16-060	40	60	49	
2	CS25085	D2-16-085	60	85	73	6
	CS25100	D2-16-100	75	100	96	
3	CS35140	D2-16-140	100	140	120	6
	CS35170	D2-16-170	125	170	142	
	CS35200	D2-16-200	150	200	165	

There are no dimensional changes between equivalent part numbers.

This reference material provides an easy crossover based on horsepower/Amp ratings. Application specifics should be reviewed by a Nidec Application Engineer. For additional assistance, call 1 800 893 2321.

Digistart CS to Digistart D2 Options

Options

CS Order Code	D2 Order Code	Description
CS-KEYPAD	D2-KEYPAD	Allows keypad to be remote-mounted up to 3m from soft starter; when panel-mounted, keypad is IP65 rated
CS-FINGERGUARD	D2-FINGERGUARD	Finger guards provide IP20 (NEMA 1) protection for models D2-16-140 (CS3x140) to D2-16-200 (CS3x200)
DIGISTART-MODBUS	DIGISTART-MODBUS	Modbus RTU Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-PROFIBUS	DIGISTART-PROFIBUS	PROFIBUS DP Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-DEVICENET	DIGISTART-DEVICENET	DeviceNet Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-USB	DIGISTART-USB	USB Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-ETHERNET-MODBUS-TCP	DIGISTART-ETHERNET-MODBUS-TCP	Modbus TCP/IP Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-ETHERNET-IP	DIGISTART-ETHERNET-IP	EtherNet/IP Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-PROFINET-RT	DIGISTART-PROFINET-RT	PROFINET RT Interface for Digistart D3 (IS) and Digistart D2 (CS)


Digistart D2 (CS) Extended Warranties

CS1-WE	D2-1-WE	Extends standard warranty to 5 years on Digistart D2 (CS) Frame 1
CS2-WE	D2-2-WE	Extends standard warranty to 5 years on Digistart D2 (CS) Frame 2
CS3-WE	D2-3-WE	Extends standard warranty to 5 years on Digistart D2 (CS) Frame 3

Digistart IS to Digistart D3



Ratings

Size	Duty	Duty	Normal		Medium	Heavy	Severe	Starts per Hour
	% FLA	% FLA	300%		350%	400%	450%	
	Start Time Digistart IS 	Start Time Digistart D3	10 seconds (hp @ 460 V)	(A)	15 seconds (A)	20 seconds (A)	30 seconds (A)	
1A	IS1x0023B	D3-1x-0023-B-C1	15	23	20	17	15	10
	IS1x0043B	D3-1x-0043-B-C1	30	43	37	31	26	
	IS1x0053B	D3-1x-0053-B-C1	40	53	53	46	37	
1B	IS1x0076B	D3-1x-0076-B-C1	60	76	64	55	47	6
	IS1x0097B	D3-1x-0097-B-C1	75	97	82	69	58	
	IS1x0105B	D3-1x-0105-B-C1	75	105	105	95	78	
2	IS2x0145B	D3-1x-0145-B-C1	100	145	123	106	90	6
	IS2x0170B	D3-1x-0170-B-C1	125	170	145	121	97	
	IS2x0220B	D3-1x-0220-B-C1	150	220	210	178	148	
3	IS3x0255B	D3-1x-0255-B-C1	200	255	231	201	176	6
	IS3x0350B	D3-1x-0350-B-C1	300	350	306	266	230	
	IS3x0425B	D3-1x-0425-B-C1	350	425	371	321	276	
4	IS4x0500B	D3-1x-0500-B-C1	400	500	445	383	326	6
	IS4x0700B	D3-16-0700-B-C1	600	700	592	512	438	
	IS4x0820B	D3-16-0820-B-C1	700	820	705	606	516	
	IS4x0920B	D3-16-0920-B-C1	800	920	804	684	571	
	IS4x1000B	D3-16-1000-B-C1	900	1000	936	796	664	

No Internal Bypass*

4	IS460360N	D3-1x-0360-N-C1	300	360	360	310	263	6
	IS460430N	D3-1x-0430-N-C1	350	430	430	368	309	
	IS460650N	D3-1x-0650-N-C1	500	650	650	561	455	
	IS460790N	D3-16-0790-N-C1	700	790	790	714	579	
	IS460930N	D3-16-0930-N-C1	800	930	930	829	661	
5	IS561200N	D3-16-1200-N-C1	1000	1200	1200	1200	1071	6
	IS561410N	D3-16-1410-N-C1	1250	1410	1410	1319	1114	
	IS561600N	D3-16-1600-N-C1	1400	1600	1600	1600	1353	

x=4 for 200 to 440 Vac, 6 for 380 to 690 Vac B=internal bypass, N=no internal bypass


*Ratings for No Internal Bypass only valid for installations with external bypass contactor.

There are no dimensional changes between equivalent part numbers.

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Digistart IS to Digistart D3 Options

Options

IS Order Code	 D3 Order Code	Description
IS-KEYPAD-MOUNT	D3-KEYPAD-MOUNT	Allows keypad to be remote-mounted up to 3m from soft starter; when panel-mounted, keypad is IP65 rated
IS-FINGERGUARD	D3-FINGERGUARD-G2B	Provides IP20 protection for models D3-2x-0145-B-C1 (IS2x0145B) to D3-2x-0220-B-C1 (IS2x0220B)
995-14549-00	D3-FINGERGUARD-G3B	Provides IP20 protection for models D3-2x-0255-B-C1 (IS2x0255B) to D3-2x-0425-B-C1 (IS2x0425B)
995-14788-00	D3-FINGERGUARD-G4B	Provides IP20 protection for models D3-2x-500-B-C1 (ISx20500B) to D3-2x-1000-B-C1 (IS2x1000B)
IS-I/O	D3-I/O	Provides additional 2 x digital inputs, 3 x relay outputs, 1 x analog input and 1 x analog output
IS-RTD-&-GND-FAULT	D3-RTD&GND-FAULT	The RTD (resistive temperature device) and GND (ground fault protection) card provides additional 6 x PT100 RTD inputs and 1 x ground fault input
DIGISTART-MODBUS	DIGISTART-MODBUS	Modbus RTU Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-PROFIBUS	DIGISTART-PROFIBUS	PROFIBUS DP Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-DEVICENET	DIGISTART-DEVICENET	DeviceNet Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-USB	DIGISTART-USB	USB Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-ETHERNET-MODBUS-TCP	DIGISTART-ETHERNET-MODBUS-TCP	Modbus TCP/IP Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-ETHERNET-IP	DIGISTART-ETHERNET-IP	EtherNet/IP Interface for Digistart D3 (IS) and Digistart D2 (CS)
DIGISTART-PROFINET-RT	DIGISTART-PROFINET-RT	PROFINET RT Interface for Digistart D3 (IS) and Digistart D2 (CS)

Digistart D3 (IS) Extended Warranties

IS1-WE	D3-1-WE	Extends standard warranty to 5 years on Digistart D3 (IS) Frame 1
IS2-WE	D3-2-WE	Extends standard warranty to 5 years on Digistart D3 (IS) Frame 2
IS3-WE	D3-3-WE	Extends standard warranty to 5 years on Digistart D3 (IS) Frame 3
IS4-WE	D3-4-WE	Extends standard warranty to 5 years on Digistart D3 (IS) Frame 4
IS5-WE	D3-5-WE	Extends standard warranty to 5 years on Digistart D3 (IS) Frame 5