DA1 and DC1 Series Variable Frequency Drives

Eaton's PowerXL™ DC1 and DA1 variable frequency drives are the next generation of drives specifically engineered for today's machinery applications.

The DC1 is compact with only 14 basic parameters, SmartWire-DT connectivity, and outstanding ease of mounting and installation. The DC1 is perfect for quick commissioning and is ideal for panel builders. This drive supports single-phase motor applications, and detachable terminal blocks make wiring much easier.

DA1 is the perfect match for demanding OEM applications. High-performance processor, safe torque off, multiple fieldbus protocols including SmartWire-DT, sensorless vector control and the possibility to operate permanent magnet motors are sure to leave a lasting impression.

Models rated at 480 Volts, three-phase, 50/60 Hz are available in sizes ranging from 1 to 15 HP. Models rated at 240 Volts, single- or three-phase, 50/60 Hz are available in sizes ranging from 0.5 to 7.5 HP. Models rated at 115 Volts, single-phase, 50/60 Hz are available in the 0.5 to 3 HP size range.



NEW

RoHS

Features:

- Compact, Space-Saving Design
- Rugged and Reliable — 200% for 4s (DA1) or 175% for 2s (DC1), 50 C Rated
- DIN Rail and Screw Mountable (FS1 and FS2)
- Side-by-Side Installation
- Industry Leading Efficiency Delivers Energy Savings to the Customer
- Integrated EMC Filters Make the Unit Suitable for Commercial and Industrial Networks
- Brake Chopper as Standard in Frames 2 and Higher
- Temperature-Controlled Fan
- RS485/Modbus® and CANopen™ as Standard
- PI (DC1), PID (DA1) Controller as Standard
- Several Fieldbus Options (DA1)
- SmartWire Capability
- Removable I/O Terminal Blocks
- Contactor Style Power Wiring
- Compatability with Single-Phase Motors (DC1)
- 200% Torque at Zero Speed (DA1)
- Ability to Run Permanent Magnet Motors (DA1)
- PLC Programming (DA1)
- Closed Loop (DA1)
- Conformal Coated Boards (DA1)

DC1 Series Drives

Stock No.	Mfr.'s Type	Motor HP	Current Rating (A)	Volts (V)	Phase	EACH
70356656	DC1-S1011NB-A20N	0.75	10.5	115	Single	862.00
70356657	DC1-S17D0NN-A20N	0.50	7.0	115	Single	620.40
70356658	DC1-1D2D3NN-A20N	0.50	2.3	115	Single	305.00
70356659	DC1-1D4D3NN-A20N	1.00	4.3	115	Single	373.00
70356660	DC1-1D5D8NB-A20N	1.50	5.8	115	Single	473.00
70356661	DC1-S24D3NN-A20N	0.50	4.3	230	Single	682.40
70356662	DC1-S27D0NN-A20N	1.00	7.0	230	Single	780.40
70356663	DC1-S2011NB-A20N	1.50	10.0	230	Single	963.20
70356664	DC1-122D3NN-A20N	0.50	2.3	240	Single	344.00
70356665	DC1-124D3NN-A20N	1.00	4.3	240	Single	392.00
70356666	DC1-127D0NN-A20N	2.00	7.0	240	Single	524.00
70356667	DC1-12011NB-A20N	3.00	10.0	240	Single	606.00
70356668	DC1-12015NB-A20N	5.00	15.0	240	Single	1073.70
70356669	DC1-322D3NN-A20N	0.50	2.3	240	Three	363.00
70356670	DC1-324D3NN-A20N	1.00	4.3	240	Three	481.00
70356671	DC1-327D0NN-A20N	2.00	7.0	240	Three	592.50
70356672	DC1-32011NB-A20N	3.00	10.5	240	Three	636.00
70356673	DC1-32018NB-A20N	5.00	18.0	240	Three	1247.00
70356674	DC1-342D2NN-A20N	1.00	2.2	480	Three	438.00
70356675	DC1-34018NB-A20N	10.00	18.0	480	Three	1543.00
70356676	DC1-34024NB-A20N	15.00	24.0	480	Three	1644.00
70356677	DC1-344D1NN-A20N	2.00	4.1	480	Three	467.00
70356678	DC1-344D1NB-A20N	2.00	4.1	480	Three	566.00
70356679	DC1-345D8NB-A20N	3.00	5.8	480	Three	729.00
70356680	DC1-349D5NB-A20N	5.00	9.5	480	Three	851.00
70356681	DC1-34014NB-A20N	7.50	14.0	480	Three	1315.00

DA1 Series Drives

Stock No.	Mfr.'s Type	Motor HP	Current Rating (A)	Volts (V)	Phase	EACH
70356641	DA1-124D3FB-A20C	1.0	4.3	240	Single	910.30
70356642	DA1-127D0FB-A20C	2.0	7.0	240	Single	952.50
70356643	DA1-32011FB-A20C	3.0	10.5	240	Three	1318.20
70356644	DA1-324D3FB-A20C	1.0	4.3	240	Three	1013.50
70356645	DA1-327D0FB-A20C	2.0	7.0	240	Three	1051.00
70356646	DA1-32011FB-A20C	3.0	10.5	240	Three	1318.20
70356647	DA1-32018FB-A20C	5.0	18.0	240	Three	2676.60
70356648	DA1-32024FB-A20C	7.5	24.0	480	Three	2264.20
70356649	DA1-342D2FB-A20C	1.0	2.2	480	Three	979.40
70356650	DA1-34018FB-A20C	10.0	18.0	480	Three	2785.40
70356651	DA1-34024FB-A20C	15.0	24.0	480	Three	2598.30
70356652	DA1-344D1FB-A20C	2.0	4.1	480	Three	1047.30
70356653	DA1-345D8FB-A20C	3.0	5.8	480	Three	1086.00
70356654	DA1-349D5FB-A20C	5.0	9.5	480	Three	1292.20
70356655	DA1-34014FB-A20C	7.5	14.0	480	Three	2351.30

S611 Series Soft Starters

RoHS

The S611 soft starter is a powerful combination of performance capability, application flexibility, and the industry's best user interface experience. Designed to control acceleration and deceleration of three-phase motors, the line is available for current ranges from 26 A through 414 A applications. The S611 has **integrated bypass and overload protection**. It is available as a component for panel mounting or in enclosed control — NEMA Type 1, 12, 3R, 4, 4X.



Stock No.	Mfr.'s Type	Application	Current Rating (A)	Supply Voltage (VAC)	Frame Size	Phase	EACH
70278900	S611A052P3S	Pump Control	52	120	52-77 Amps	Three	4116.82
70278901	S611A065P3S	Pump Control	65	120	52-77 Amps	Three	4333.50
70278902	S611A077P3S	Pump Control	77	120	52-77 Amps	Three	5026.03
70278903	S611B099P3S	Pump Control	99	120	99-125 Amps	Three	5913.01
70278904	S611B125P3S	Pump Control	125	120	99-125 Amps	Three	6839.99
70278905	S611C156P3S	Pump Control	156	120	156-180 Amps	Three	6945.75
70278906	S611C180P3S	Pump Control	180	120	156-180 Amps	Three	7087.50
70278907	S611D242P3S	Pump Control	242	120	242 Amps	Three	7127.99
70278908	S611E302P3S	Pump Control	302	120	302-361 Amps	Three	7816.59
70278909	S611E361P3S	Pump Control	361	120	302-361 Amps	Three	8959.50
70278910	S611F414P3S	Pump Control	414	120	414 Amps	Three	9913.50

Accessories

Stock No.	Mfr.'s Type	Description	EACH
70278911	S611-LUG-M01	Lug Kit, 14-2/0 AWG, for S611 Series Frame A Soft Starters	50.00
70278912	S611-LUG-M02	Lug Kit, 6 AWG-300 KCMIL, for S611 Series Frame B Soft Starters	100.00
70278913	S611-LUG-M03	Lug Kit, 2 AWG-600 KCMIL, for S611 Series Frame C/D Soft Starters	150.00
70278914	S611-LUG-M04	Lug Kit, 2-2 AWG-600 KCMIL, for S611 Series Frame E/F Soft Starters	250.00
70278915	S611-RMK-100	Mounting Kit, 1 M (3.28 ft.) Cable, for S611 Series Soft Starters	60.01
70278916	S611-RMK-200	Mounting Kit, 2 M (6.56 ft.) Cable, for S611 Series Soft Starters	74.99
70278917	S611-RMK-300	Mounting Kit, 3 M (9.84 ft.) Cable, for S611 Series Soft Starters	89.99
70278918	S611-KEYPAD	Keypad, User Interface, for S611 Series Soft Starters	337.50

DS7 Series Soft Starters

RoHS



Eaton's DS7 line of reduced voltage solid-state soft start controllers is very compact, multi-functional, easy to install, and easy to commission. Designed to control the acceleration and deceleration of three-phase motors, the device is available for current ranges from 4-32 A in four frame sizes.

Accessories

Stock No.	Mfr.'s Type	Description	EACH
70278899	DS7-FAN-032	Internal Fan, for Use With DS7 Series Soft Starters	92.51

Stock No.	Mfr.'s Type	Motor Power (kW)		Current Rating (A)	Supply Voltage (VAC/VDC)	Phase	EACH
		230 V	400 V				
70356633	DS7-342SX100N0-N	22.40	55.9	96	24	Two	1609.30
70356634	DS7-342SX135N0-N	37.30	74.6	124	24	Two	2058.10
70356635	DS7-342SX160N0-N	44.70	93.2	156	24	Two	2351.80
70356636	DS7-342SX200N0-N	55.90	111.8	180	24	Two	2594.90
70356637	DS7-342SX055N0-N	14.90	29.8	52	24	Two	1180.30
70356638	DS7-342SX070N0-N	18.60	37.3	65	24	Two	1238.60
70356639	DS7-342SX081N0-N	22.40	44.7	77	24	Two	1469.60
70356640	DS7-342SX041N0-N	7.40	22.4	40	24	Two	967.93
70278871	DS7-340SX004N0-N	0.75	1.5	4	24	Two	359.00
70278873	DS7-340SX007N0-N	1.50	3.0	7	24	Two	405.00
70278875	DS7-340SX009N0-N	2.20	4.0	9	24	Two	405.00
70278877	DS7-340SX012N0-N	3.00	5.5	12	24	Two	427.00
70278879	DS7-340SX016N0-N	4.00	7.5	16	24	Two	449.99
70278881	DS7-340SX024N0-N	5.50	11.0	24	24	Two	523.00
70278883	DS7-340SX032N0-N	7.50	15.0	32	24	Two	546.00
70278885	DS7-342SX004N0-N	0.75	1.5	4	120-230	Two	415.99
70278887	DS7-342SX007N0-N	1.50	3.0	7	120-230	Two	439.00
70278889	DS7-342SX009N0-N	2.20	4.0	9	120-230	Two	461.00
70278891	DS7-342SX012N0-N	3.00	5.5	12	120-230	Two	485.00
70278893	DS7-342SX016N0-N	4.00	7.5	16	120-230	Two	495.00
70278895	DS7-342SX024N0-N	5.50	11.0	24	120-230	Two	581.00
70278897	DS7-342SX032N0-N	7.50	15.0	32	120-230	Two	603.00