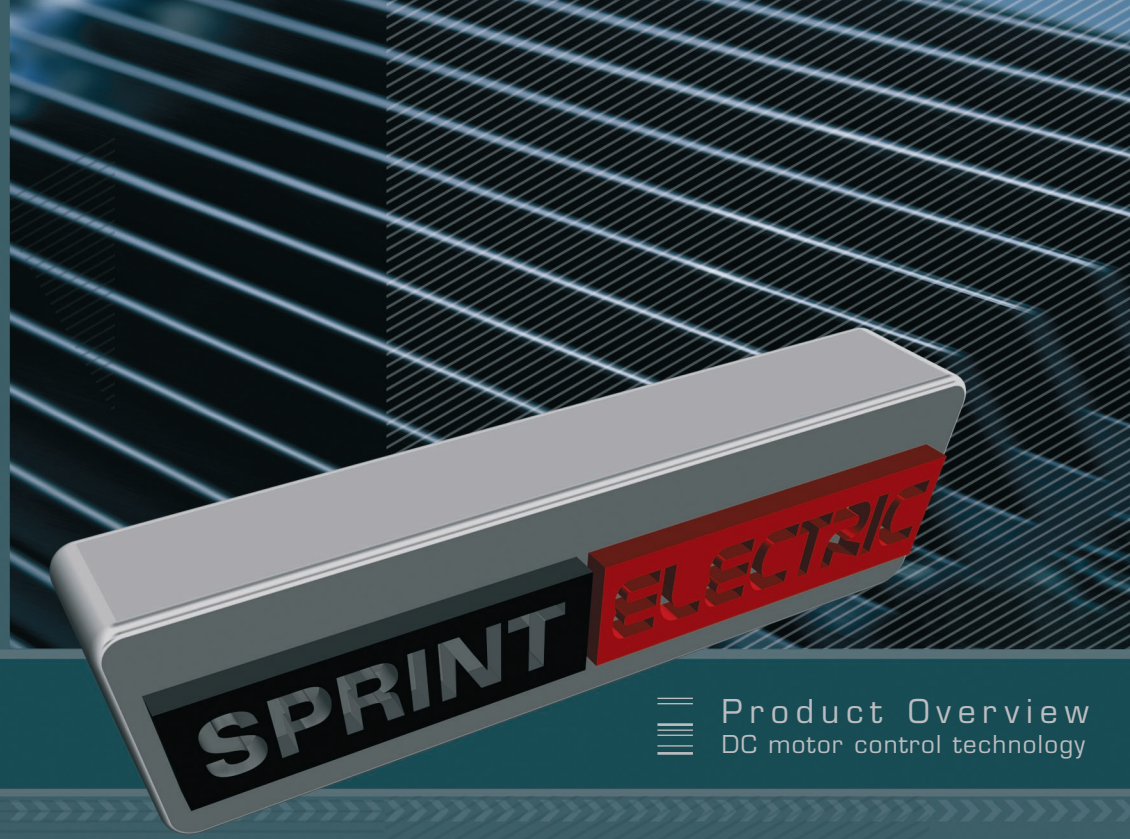
- DC Drives up to 265Kw
- Ready-to-go Drive Enclosures
- Digital Panel Meters
- Ex-stock Delivery
- Local Service



SPRINT ELECTRIC

Product Overview
DC motor control technology

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Over 50 models available

DC variable speed drives

For variable speed D.C. drives up to many hundreds of Kilowatts, the Sprint Electric range with over fifty models, offers a wider choice than any other manufacturer.

Through careful design, Sprint Electric drives are remarkably compact, so extra savings in terms of cabinet size, simple machine installation and wiring are easily achievable.

Ex stock delivery is available on all products, ensuring minimum downtime in emergency or breakdown situations.

Product manuals offer step by step start up guidance and contain all the technical detail required. Examples of typical applications are provided making system design quick and trouble free.

Typical applications:

- Extruders
- Rolling Mills
- Test Rigs
- Conveyors
- Machine Tools
- Rubber Mixers
- Label Printing
- Packaging
- Wire & Cable
- Papermaking
- Textile Machinery
- Food Machinery
- Cranes & Hoist
- Pumps & Fans
- Winding & Winching
- Mechanical Handling
- Converting Machinery
- Chemical
- Stage / Theatrical
- Leisure Industries

0.37Kw to 11Kw

Single phase drives

Non Regenerative Single quadrant

Sprint Electric single quadrant drives are motoring only type controllers, but can be reversed using optional reversing board, and braked using dynamic braking resistor.

up to 11Kw

Model	Kw	Motor Current (A)	Isolated control	Reverse & Brake card available	Dimensions HxWxD mm	Input Voltage AC 50/60Hz 240/110	Input Voltage AC 50/60Hz 415/240
300	0.37	3			87x87x36	•	
370	0.55	3.7			100x100x36	•	
400	0.55	4		•	130x100x40	•	
400i	0.55	4	•	•	160x100x50	•	
E400i	0.55	4	•		Eurocard plug-in	•	
800	1.1	8		•	130x100x70	•	
1200	1.8	12		•		•	
1600	2.2	16			150x150x90	•	
1600i	2.2	16	•			•	
3200i	2.2	8	•		150x200x110		•
	4.0	16	•				•
	7.5	32	•				•
	11	48	•				•

0.55Kw to 9.5Kw

Single phase drives

Fully Regenerative Four quadrant

Sprint Electric 3600XRi range of four quadrant drives offer the facility for braking and reversing of a DC motor without the need for reversing contactors or braking resistors. These functions are controlled electronically by the drive making these models ideal for the more complex, high performance applications as well as more basic systems.

Model	Kw	Motor Current (A)	Isolated control	4Q Regen	Dimensions HxWxD mm	Input Voltage AC 50/60Hz 240/110	Input Voltage AC 50/60Hz 415/240
3600XRi	0.55	4	•	•		•	
	1.1	8	•	•	175x200x70	•	
	2.2	16	•	•		•	
	4.0	16	•	•	175x200x70		•
	7.5	32	•	•			•
	9.5	36	•	•	130x100x90		•

Further additional control features are available on the 3600XRi, four quadrant fully regenerative models.

Kw — Nominal motor rating at highest supply voltage.

Motor Current (A) — Maximum continuous Armature current excluding overload factor.

Input Voltage — Dual voltage nominal supply voltage.

EX-STOCK • CE • QUICK TO INSTALL • COMPACT SIZE • EASY TO USE

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Three phase DC drives

5Kw to 265Kw

The Sprint Electric digital DC drive is probably the most powerful on the market today

With an extensive range of standard software blocks, it can take control of the most demanding motion tasks. All models include 40 character alpha-numeric back-lit display, full set of centre winding blocks and a field weakener for extended speed range. A high quality product from a world beating company. UL, cUL and CE approved.

Available in both 2Q and 4Q versions the range comprises 3 very compact chassis sizes with models rated from 5 to 265Kw.

INCLUDES FREE PL PILOT CONFIGURATION AND MONITORING SOFTWARE

The PL PILOT is a PC based graphical configuration and diagnostic tool for use with the range of PL and PLX digital DC drives.
It greatly simplifies drive programming, installation and commissioning.

FULL RANGE OF ANALOGUE THREE PHASE DC DRIVES ALSO AVAILABLE

Supply voltage: Three phase 380-480V or 200-240V AC, 50/60Hz.
Typical motor voltages (max), Armature 460V, Field 370V

SLE 14Kw to 44Kw

2Q controller with a fixed field bridge

Model	Kw	Motor Current (A)	Field regulator	Regen stop feature	Full 4Q Regen	Dimensions HxWxD mm
SLE14	14	34				290x215x155
SLE24	24	58				
SLE34	34	82				
SLE44	44	106				

PL 5Kw to 265Kw

Digital 2Q controller with field regulator for field control/weakening

Model	Kw	Motor Current (A)	Field regulator	Regen stop feature	Full 4Q Regen	Dimensions HxWxD mm
PL5	5	12	•	•		289x216x174
PL10	10	24	•	•		
PL15	15	36	•	•		
PL20	20	51	•	•		
PL30	30	72	•	•		
PL40	40	99	•	•		
PL50	50	123	•	•		
PL65	65	155	•			410x216x218
PL85	85	205	•			
PL115	115	270	•			
PL145	145	330	•	•		
PL185	185	430	•			505x216x294
PL225	225	530	•	•		
PL265	265	630	•			

PLX 5Kw to 225Kw

Digital 4Q Fully regenerative controller with field regulator for field control/weakening

Model	Kw	Motor Current (A)	Field regulator	Regen stop feature	Full 4Q Regen	Dimensions HxWxD mm
PLX5	5	12	•		•	289x216x174
PLX10	10	24	•		•	
PLX15	15	36	•		•	
PLX20	20	51	•		•	
PLX30	30	72	•		•	
PLX40	40	99	•		•	
PLX50	50	123	•		•	
PLX65	65	155	•		•	410x216x218
PLX85	85	205	•		•	
PLX115	115	270	•		•	
PLX145	145	330	•		•	
PLX185	185	430	•		•	505x216x294
PLX225	225	530	•		•	

EX-STOCK • CE • UL • QUICK TO INSTALL • COMPACT SIZE • EASY TO USE

SPRINT ELECTRIC

Drive Enclosures

Digital Panel Meters

DPM35S 3 1/2 digit +/-1999
DPM35SD 4 1/2 digit +/-19990

Model	Kw	Motor Current (A)	Reversing	Dimensions HxWxD mm
300E	0.37	3		175x175x85
400E	0.55	4		
800E	1.1	8		
1200E	1.8	12		
400ER	0.55	4	•	250x175x85
800ER	1.1	8	•	
1200ER	1.8	12	•	

Sprint Electric single phase controllers are available off-the-shelf in an enclosed *ready-to-go* format. These units are ideal for simple, add on type applications and require minimal wiring. Supplied in a compact IP44 enclosure, the units can be mounted in virtually any space available.
Control features are on/off switch and speed potentiometer, with reversing options available.

200XLV

A palm sized drive for a fistful of applications, this diminutive unit can be used to drive any low voltage DC permanent magnet motor within its rating. Complete flexibility to run as speed, or torque controller, electronic braking and reversing make it ideal for all small applications.

- **Motors and Brakes in both directions**
- **Ideal for small motors and linear actuators up to 48V**
- **DC supply, Battery or unregulated psu**
- **+/- 2Amp output**

EX-STOCK • CE • QUICK TO INSTALL • COMPACT SIZE • EASY TO USE

A versatile range of mains powered panel meters with unique features emphasising easy installation and adjustment. Clear, large LED display and easy legend facility makes these meters the obvious choice for displaying drive or process variables.
User adjustable scaling and offset control allow easy calibration to engineering units. Available in either 3½ or 4½ digit versions both units also include, display hold, last digit blanking, selectable decimal point and dual 110/240V ac supply.
Other features include Input voltage range up to 200V, 4-20mA input facility, ratiometric measurement and robust plug-in screw terminals

A few technical questions.....

Q Can I economise by using a non - isolated drive?

A Non - isolated drives are lower cost, but are only suitable for very simple systems as they have their control electronics floating at high potential - they cannot be connected to other equipment such as other drives, control systems etc.

Q Why should I choose a fully regenerative 4Q drive?

A Regenerative four quadrant drives can motor and brake in both directions of rotation. Braking is achieved electronically, with energy being passed back into the mains supply rather than being dissipated as heat, as in a mechanical brake for example.

Q Do I need field regulation?

A Drives with fixed field outputs restrict you to using motors with specific field voltages - namely 0.9 or 0.45 times the supply voltage for a single phase supply or 0.67, 0.34 or 1.35 times the supply voltage for a three phase supply. Field regulated drives allow you to set any field current you like to suit the particular motor, and also allow extended speed range by automatic field weakening where the motor is designed for it.

Q What advantage does regenerative stopping give me?

A Those drives which are capable of regenerative stopping allow you to absorb energy from the motor when stopping. This feature avoids having to use external braking mechanisms such as dynamic braking resistors when rapid stopping is required.

Of course if you're not sure which is the best product to choose or you need some installation advice, our technical support engineers are always pleased to help.