

PL/PLX 5KW to 980KW



SPRINT ELECTRIC data PRODUCT SPECIFICATIONS

Three Phase Digital DC Motor Controllers from 5 KW to 980 KW

AVAILABLE IN 2 AND 4 QUADRANT VERSIONS

PL 2 QUADRANT **PLX** 4 QUADRANT

Includes FREE "PL Pilot" drive configuration and monitoring software.

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 large alpha-numeric back-lit display, full set of centre winding blocks and a field weakener for extended speed range. Supplied with a superb, free, windows graphical monitoring and drive configuration tool. A high quality product from a world beating company. UL, cUL and CE approved.

PL 5-980KW

Single direction 2 quadrant DC Motor controllers. Most models include a rate controllable fully regenerative stopping facility. This star feature eliminates wasteful dynamic braking resistors. Normally requiring a more costly 4-quadrant drive, and practically impossible with an AC drive, it is unique to Sprint Electric. The PL5-980kw range is available in five ultra compact chassis sizes spanning 5-50Kw, 65-145Kw, 185-265Kw, 275-440Kw and 520-980kw

PLX 5-980KW

4 quadrant regenerative drive providing motoring and braking in both directions of rotation. Extremely compact footprint ensures easy integration within new machine designs.

This drive sets the standard for others to follow

INPUTS/OUTPUTS

ANALOGUE

8 Analogue inputs & 4 Analogue outputs.
All outputs short circuit protected.
All inputs are over voltage protected.
I/P's programmable voltage range up to +/- 30V.

DIGITAL

17 Digital inputs & 7 Digital outputs.
Digital I/O short circuit proof.
Digital inputs over-voltage protected.
Digital o/p's over-voltage protected.

SPEED FEEDBACK

Analogue tachometer.
Encoder.
Armature voltage.

Encoder + Armature volts.
Encoder + Analogue tachometer.

STANDARD SOFTWARE FUNCTIONS

Full suite of centre winding macro's.
Motorised Pot simulator.
Two undedicated PID's.
Two undedicated Summers.
Delay Timer.
Current Profiling.
Zero speed position lock.
Jog / Crawl functions.
Spindle orientation

Two undedicated Filters.
Dual Motor Swap.
Latch.
Auto Self-tune current loop.
Linear or S ramp.
Slack take up.
Batch counter.
Draw control.
Three user programmable drive configurations.

DIAGNOSTIC MONITORING

All analogue input voltages.
All digital input states.
All analogue output voltages.
All digital output states.
Tachometer volts.

Motor armature current (amps).
Motor field current (amps).
Motor armature volts.
Output power Kw.
AC supply volts.

PROTECTION

Interline device networks.
High energy MOV's.
Instantaneous overcurrent.
Overcurrent (150% for 25s inverse time).
Field Failure & Overcurrent.
Motor over-temperature.
Thyristor Stack over-temperature.
Mains supply phase loss.

Mains synchronisation loss.
Armature Overvolts.
Overspeed.
Speed feedback mismatch.
Stall protection.
Standstill logic.
Thyristor "Trigger" failure.
Digital Output short circuit.

FIELD CONFIGURATIONS

Fixed Current.
Fixed Voltage.
Field Weakening.

Delayed Quenching.
Standby field value.
Field Economy.

Rating table & dimensions

PL 2 QUADRANT PLX 4 QUADRANT	KW @ 460V	HP @ 460V	ARMATURE CURRENT DC AMPS	FIELD AMPS	FRAME SIZE
PL and PLX 5	5	6.6	12	8	289 x 216 x 174mm 8.5" x 11.4" x 6.9"
PL and PLX 10	10	13.3	24	8	
PL and PLX 15	15	20	36	8	
PL and PLX 20	20	26.6	51	8	
PL and PLX 30	30	40	72	8	
PL and PLX 40	40	53.3	99	8	
PL and PLX 50	50	66.6	123	8	
PL and PLX 65	65	90	155	16	410 x 216 x 218 mm 8.5" x 16.2" x 8.6"
PL and PLX 85	85	115	205	16	
PL and PLX 115	115	155	270	16	
PL and PLX 145	145	190	330	16	505 x 216 x 294 mm 8.5" x 19.9" x 13.7"
PL and PLX 185	185	250	430	32	
PL and PLX 225	225	300	530	32	
PL only 265	265	350	630	32	

Request the Sprint Electric product data CD, containing product information, technical manuals, PL PILOT software and a host of other information.

Visit our website for information regarding the higher power DC drives

www.sprint-electric.com

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