KEY FEATURES

2 Quadrant three phase controller

Four models:
14kw
24kw
34kw
44kw

Extremely compact size, saves panel space and makes for easy retrofitting

Extra 50% peak torque for rapid acceleration or shock loads

Isolated control electronics for easy connection to other drives/equipment

Configurable field bridge for easy motor field voltage matching

Wide AC supply range, 380 - 480v or 200-240v, user selectable

Torque control input for basic winding or tension control, with overspeed limiting

Switch selectable feedback calibration - no component changes

Switch selectable Tach or Armature voltage feedback

Numerous alarms for enhanced drive and motor protection

PRODUCT NAME

SLE

14kw to 44kw

DESCRIPTION

Single direction 2 quadrant analogue DC Motor controller.

The SLE drive has been specifically designed at a cost and size to benefit OEMS, and yet without any compromise in specification, reliability or performance.

Its compact footprint (250mm x 204mm) enables additional savings and ensures easy integration within new designs or trouble free installation when retrofitting



MODEL COMPARISON

MODEL	AC SUPPLY RANGE	TYPICAL ARMATURE VOLTAGE	MAX CONTINUOUS ARMATURE CURRENT	NOMINAL POWER
SLE 14	200-240v 380-480v	460v	34a	14kw
SLE 24			58a	24kw
SLE 34			82a	34kw
SLE 44			106a	44kw

DIMENSIONS

H	290 mm
W	215 mm
D	155 mm

SHIPPING WEIGHT

7kg

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SPRINT ELECTRIC

SLE

14kw to 44kw

SPECIFICATION

Fully isolated control electronics

Control action:	Dual loop Proportional and Integral
Speed regulation:	0.1% Tachogenerator, 2% Armature voltage feedback
Armature:	Four models: 34, 58, 82 and 106 Amps continuous
Overload protection:	Extra 50% peak torque for 30 secs prior to stall trip operation
Field output:	2 phase or 3 phase bridge 1/2 or full wave
Customer presets:	Max speed: 12v - 500v full scale feedback Min speed 0 to 30% of max speed Up ramp (Acceleration) 1-30 secs. Down Ramp (Deceleration) 1-30 secs. Stability · IR Comp · jog speed Max armature current 0-100%
Switches:	Maximum current - 2 ranges Feedback voltage - 4 ranges Relay Function - zero speed and/or stall, and/or overload Ramp connect · Tach /AVF selection
Inputs:	Speed · Torque Auxiliary speed inputs +ve and -ve 4-20mA and 0-20mA Drive Run · TachoGenerator Push Button stop/start
Outputs:	Speed · Current · Setpoint Ramp Total Demand · AVF signal Zero speed, and stall & overload relay driver +/-12V, +/- 24V rails
Relay:	Volt free change over Contacts for zero speed and/or stall, and/or overload
Other features:	Overspeed limit Over torque limit Inverse time overload 50% stall threshold option Precision reference Precision tach rectifier option Zero reference interlock

KEY

Zero reference interlock facility ideal for extruder applications

Numerous inputs and outputs for complex system applications

S shaped ramp facility

User adjustable:
- Acceleration
- Deceleration
- Max motor speed
- Min motor speed
- Max motor current
- IR compensation
- Stability
- Jog speed

Relay outputs for stall, zero speed and motor overload

Switched maximum current ranges for easy matching to motor current rating

Ultra stable potentiometer reference for optimum long term speed and torque stability

4-20mA and 0-20mA loop input option as standard

Output signals for easy display of motor speed and load

Features Sprint Electric micro analog processor