

NEW

NEW Unidrive Size Zero

0.37kW - 1.5kW, 200V 1ph / 3ph, 400V 3ph

Innovative design makes Control Techniques new 'zero format' Unidrive SP the most compact intelligent AC drive on the market. It is optimised for demanding machinery control applications where it will improve your machine performance and reduce the size of your control cabinet. Two option module slots gives you the flexibility to customise the drive to suit your application.

Unidrive SP size Zero has the same advanced feature set, universal motor control and easy user interface as the rest of the Unidrive SP range. Unidrive SP is a fully integrated drive solution for all AC motors spanning 0.37kW through to 1.9MW.



NEW Unidrive ^{SP} Size Zero Features

- Internal EMC Filter
- 2 Option Module Slots
- Safe Torque Off Input
- 24V Backup Supply
- Smartcard
- Removable Keypad



- Universal Encoder Input
- Encoder Output
- High Resolution Analogue and Digital I/O
- PC Port for Programming
- 48VDC Drive Supply
- Quick and Easy Mounting Arrangement
- Optional Internal Braking Resistor

	mm	in
H	250	9.9
W	62	2.5
D	220	8.7

Safe Torque Off (Secure Disable)

Safe Torque Off input disables the output stage of the drive with a high degree of security. This reduces the cost of complying with machine safety standards such as EN954 Cat 3 and enables the drive to integrate easily with the machine safety system.

SPECIFICATIONS

Voltage	200 to 240VAC +/-10% 1ph 200 to 240VAC +/-10% 3ph 380 to 480VAC +/-10% 3ph
Control Modes	
V/f Control	Proportional voltage with frequency, with motor slip and voltage compensation. Suitable for parallel motors
Open Loop Vector	Constant flux control at low speed using motor parameters
RFC Mode	Rotor Flux Control - High performance encoderless flux vector control mode
Closed Loop Vector	Precision control of induction motors
Servo	Wide range of rotary and linear motors
Environment	
Ambient Operating Temperature	0 to 40C (32 to 104F), 50C (32 to 122F) with derating
Humidity	95% maximum non condensing at 40C
Vibration	Tested in accordance with IEC 60068-2 -6, -64
Mechanical Shock	Tested in accordance with IEC 60068-2-29
Enclosure	IP20
Electromagnetic Immunity	Complies with EN 61800-3 (2nd environment) and EN 61000-6-2
Electromagnetic Emissions	Complies with EN 61800-3 (2nd environment) with onboard filter. EN 61000-6-3 and EN 61000-6-4 with optional footprint EMC filter

Universal motor control. Control of Induction, Servo and Linear Motors.

Reduced commissioning time.

Unidrive SP is quick and easy to set-up. The drive may be configured using the removable keypad or using CTSoft, the supplied commissioning software which guides the user through the configuration process.

Auto-tune features. Enables you to get the best drive performance by measuring the application dynamics and automatically optimising the control loop gains.

Side-by-side mounting.

Unidrive SP Size Zero may be mounted side-by-side with other drives or components without leaving space to give an incredibly high packing density.

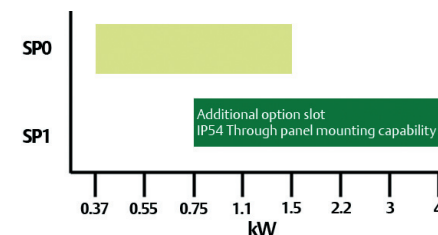
Smartcard. Enables parameters to be safely stored and copied quickly from one drive to another.

RATINGS & ORDER CODES

Unidrive SP Size 0 Ratings ¹				
	Model / Order Code	Max Continuous Current (A)	Typical Motor Output	
			(kW)	(HP)
200-240V Single Phase / 3 Phase	SP0201	2.2	0.37	0.5
	SP0202	3.1	0.55	0.75
	SP0203	4	0.75	1
	SP0204	5.7	1.1	1.5
	SP0205	7.5	1.5	2
380-480V 3 Phase	SP0401	1.3	0.37	0.5
	SP0402	1.7	0.55	0.75
	SP0403	2.1	0.75	1
	SP0404	3	1.1	1.5
	SP0405	4.2	1.5	2

Notes [†] Ratings given are for Heavy Duty. Overload: 175% for 40 seconds, 150% for 60 seconds.

Size 0 & Size 1 Rating Comparison



Optional External EMC Filters

Drive	Order Code
200V (1ph)	4200-6000
200V (3ph)	4200-6001
400V (3ph)	4200-6002

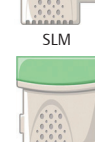
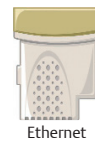
Other Items

LED Keypad	SP0 Keypad
Internal Brake Resistor	1299-0001

Related Brochures

Unidrive SP - Comprehensive Brochure	0175-0339
Unidrive SP - PLC Functionality	0175-0328

Fieldbus Connectivity



Extra I/O

