http://www.mroelectric.com/automation/Control-Techniques/unidriveoption-modules/1220-2758-01

Control Techniques | Emerson UNIDRIVE SP Variable Speed AC Drives Fieldbus SP Solution Modules and Keypads

Part #	Part #
SM-LON	SM-Ethernet
SM-PROFIBUS-DP	SM-EtherCAT
SM-INTERBUS	SM-SLM
SM-CAN	SP0 Keypad
SM-DeviceNet	SM-Keypad
SM-CANopen	SM-Keypad Plus
SM-SERCOS	1220-2756-01 / 1220-2758-01



Presented by – MRO Electric & Supply Company Quote Email: <u>inquiry@MROELCTIRC.COM</u>



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Emerson Control Techniques

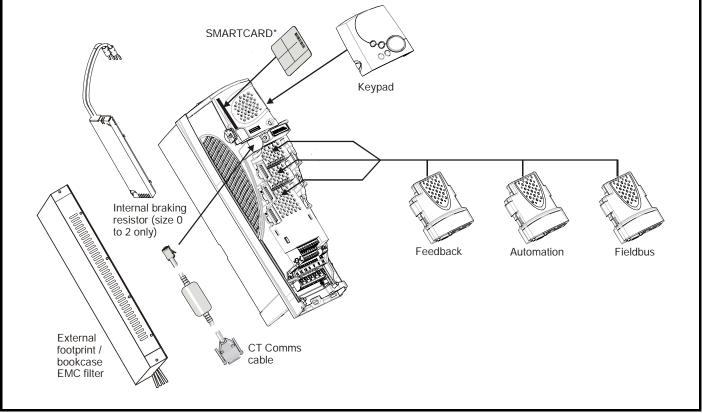
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	Safe Informa		Product nformation	Mechanical Installation	Electrical Installation	Getting Started	Basic parameters	Running the motor	Optimization	SMARTCARD operation	Onboard PLC	Advanced parameters	Technical Data	Diagnostics	UL Listing Information
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2.7 Options

Figure 2-5 Options available with Unidrive SP



* A SMARTCARD is provided as standard. For further information, refer to Chapter 9 *SMARTCARD operation* on page 143.

All Solutions Modules are color-coded in order to make identification easy. The following table shows the color-code key and gives further details on their function.

Table 2-8 Solutions Module identification

Туре	Solutions Module	Color	Name	Further Details			
		Light Green	SM-Universal Encoder Plus	Universal Feedback interface Feedback interface for the following devices: Inputs Outputs • Incremental encoders • Quadrature • SinCos encoders • Frequency and direction • SSI encoders • SSI simulated outputs • EnDat encoders • SSI encoders			
		Light Blue	SM-Resolver	Resolver interface Feedback interface for resolvers. Simulated quadrature encoder outputs			
Feedback		Brown	SM-Encoder Plus	Incremental encoder interface Feedback interface for incremental encoders without commutation signals. No simulated encoder outputs available			
		Dark Brown	SM-Encoder Output Plus	Incremental encoder interface Feedback interface for incremental encoders without commutation signals. Simulated encoder output for quadrature, frequency and direction signals			
		N/A	15-way D-type converter	Drive encoder input converter Provides screw terminal interface for encoder wiring and spade terminal for shield			
	and the second sec	N/A	N/ASingle ended encoder interface (15V or 24V)Single ended encoder interface Provides an interface for single ended signals, such as those from hall effect signals.				

SafetyProductMechanicalElectricalGettingBasicRunningOptimizationSMARTCARDOnboardAdvancedTechnicalDiagnosticsULInformationInstallationInstallationStartedStartedparametersthe motorOptimizationSMARTCARDOptimizationPLCparametersDataDiagnosticsUL

	utions Module identificatio		Norre	Funther Dataila		
Туре	Solutions Module	Color	Name	Further Details		
Automation (I/O Expansion)		Yellow	SM-I/O Plus	Extended I/O interface Increases the I/O capability by adding the following to the existing I/O in the drive: • Digital inputs x 3 • Digital I/O x 3 • Analog output (voltage) x 1 • Relay x 2		
		Yellow	SM-1/O 32	Extended I/O interface Increase the I/O capability by adding the following to the existing I/O in the drive: • High speed digital I/O x 32 • +24V output		
		Dark Yellow	SM-I/O Lite	Additional I/O 1 x Analog input (± 10V bi-polar or current modes) 1 x Analog output (0-10V or current modes) 3 x Digital input and 1 x Relay		
		Dark Red	SM-I/O Timer	Additional I/O with real time clock As per SM-I/O Lite but with the addition of a Real Time Cl for scheduling drive running		
		Turquoise	SM-I/O PELV	Isolated I/O to NAMUR NE37 specifications For chemical industry applications 1 x Analog input (current modes) 2 x Analog outputs (current modes) 4 x Digital input / outputs, 1 x Digital input, 2 x Relay outputs		
		Olive	SM-I/O 120V	Additional I/O conforming to IEC 61131-2 120Vac 6 digital inputs and 2 relay outputs rated for 120Vac operation		
		Cobalt Blue	SM-I/O 24V Protected	Additional I/O with overvoltage protection up to 48V 2 x Analog outputs (current modes) 4 x Digital input / outputs, 3 x Digital inputs, 2 x Relay outputs		
		Dark Green	SM-Applications	Applications Processor (with CTNet) 2 nd processor for running pre-defined and /or customer created application software with CTNet support		
	White		SM-Applications Lite	Applications Processor 2 nd processor for running pre-defined and /or customer created application software		
Automation (Applications)	Dark Blue		SM-EZMotion	Motion Controller $1^{1}/_{2}$ axis motion controller with processor for running customer created application specific software		
		Moss Green	SM-Applications Plus	Applications Processor (with CTNet) 2 nd processor for running pre-defined and /or customer created application software with CTNet support. Enhanced performance over SM-Applications		
		White	SM-Applications Lite V2	Applications Processor 2 nd processor for running pre-defined and /or customer created application software. Enhanced performance over SM- Applications Lite		

	ductMechanicalElectricalnationInstallationInstallation	Getting Started			SMARTCARD operation	Onboard PLC	Advanced parameters	Technical Data	Diagnostics	UL Listing Information		
Table 2-8 So	ion											
Туре	Solutions Module	C	olor	Name				Further	Details			
		Р	urple	SM-PROF	IBUS-DP	Profibus op PROFIBUS	o tion DP adapt	er for com	municatio	ns with the	drive	
		Medi	um Grey	SM-DeviceNet		DeviceNet option Devicenet adapter for communications with the drive						
		Dar	k Grey	SM-INTEF	RBUS	Interbus option Interbus adapter for communications with the drive						
		Pink				CAN option CAN adapter for communications with the drive						
Fieldbus		nt Grey	SM-CANo	pen	CANopen option CANopen adapter for communications with the drive							
		Red		SM-SERCOS		SERCOS option Class B compliant. Torque velocity and position control modes supported with data rates (bit/s): 2MB, 4MB, 8MB and 16MB. Minimum 250µs network cycle time. Two digital high speed probe inputs 1µs for position capture						
		E	Beige	SM-Ethernet		Ethernet option 10 base-T / 100 base-T; Supports web pages, SMTP mail and multiple protocols: DHCP IP addressing; Standard RJ45 connection						
		Bro	wn Red	SM-EtherCAT		EtherCAT option EtherCAT adapter for communications with the drive						
				SM-LON		LonWorks option LonWorks adapter for communications with the drive						
SLM		O	range	SM-SLM		 SLM interface The SM-SLM allows SLM feedback to be connected directly the Unidrive SP drive and allows operation in either of the following modes: Encoder only mode Host mode 						

Table 2-9 Keypad identification

Туре	Keypad	Name	Further Details
		SP0 Keypad	LED keypad option Keypad with a LED display for size 0
Keypad	800	SM-Keypad	LED keypad option Keypad with a LED display for size 1 to 9
	800	SM-Keypad Plus	LCD keypad option Keypad with an alpha-numeric LCD display with Help function

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2.8 Items supplied with the drive

The drive is supplied with a printed manual, a SMARTCARD, a safety information booklet, the Certificate of Quality, an accessory kit box including the items shown in Table 2-10, and a CD ROM containing all related product documentation and software tools. **Table 2-10 Parts supplied with the drive**

Description	Size 0	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6
Control connectors			ALL DE LE DE				
Relay connector			A.				
UL warning label			Risk of El Power down	JTION ectric Shock unit 10minutes noving cover			
Grounding bracket							
Through panel mounting gasket							
Through panel mounting bracket					69	Ca/Ca/Ca/	\ \
Surface mounting brackets						J.J.J.J	C.
Top surface mounting brackets							
Nylon washers		ODD M6	@Д м6	ODD M6		M8 M6	
Sealing clips							
Mounting screws						PM 8x20	
Grounding clamp							
Ground cable bridge and M5 nuts			8 ⁸ 000				
DC terminal cover grommets		alalala	Calabala	Calala			
Ferrite ring				Ĵ			
Supply and motor connector							
Ground mounting screws	() () M6x12						
Fan supply connector							1000000
IP54 gasket							
IP54 insert			Ĩ				