The Stellar Advantage

Why use a soft starter instead of electromechanical contactors to control 3-phase AC induction motors?

Reduce mechanical wear and tear

- Smooth acceleration; reduced shock and starting stress
- Extend lifespan of mechanical drive train components
- Fluid couplings and some clutches can be eliminated

Increased electrical efficiency

- Reduced starting current
- More motors or larger motors can be started from lower-capacity power sources
- · Allows motors to be started more frequently
- SR22 and SR33 only Internal mechanical bypass contacts open and close under reduced current,
- increasing lifespan and reliability

Cost savings

- · Lower overall costs for new installations
- Reduced maintenance and replacement of mechanical drive train components
- Reduced starting current reduces electrical power costs
- SR44 only Energy Optimizing mode reduces electrical power costs
- SR44 only Automatic Application setup feature speeds installation by configuring the SR44 for a specific application with one setting.

The SR33 series is an ideal substitute for a Star/Delta starter because it fits into a similar footprint, thus simplifying installation. The SR33 soft starters use thyristors for controlled reduced voltage motor starting and stopping, then switch to internal bypass contacts for efficient running at rated speed.

This series is designed to fit in place of existing wye-delta starters. 3-potentiometer setup (Start Voltage, Start Time, and Stop Time) make installation and commissioning easy.

Features

- 22-482A @ 208-230/460 VAC
- 24 VDC or 115 VAC I/O
- 24 VDC control power required
- Two-phase control

e14-2

- Internal bypass contacts for Run
- Easily and separately adjustable motor start voltage and start and stop times

Soft Starters

- Suitable for a wide variety of motor loads
- Designed to replace wye-delta starters • Fault indication of 4 or 7 fault types,
- depending upon model. • IP20 (SR33-22 to SR33-97) IP00 (SR33-132 to SR33-482)
- panel mount • Two-year warranty

Stellar[®] Series Soft Starters



Our Stellar Series of soft starters are designed to help you reduce mechanical wear and tear on startup, reduce energy costs and help you minimize loss of production hours from equipment breakdown.

When to use a soft starter?

General purpose soft start applications where traditional across-the-line starting or wye-delta starting would typically be appropriate. Stellar soft starters should not be used if the starting time will exceed 30 seconds.

Why purchase your soft starter from AutomationDirect?

- Our soft starters are IN-STOCK and ready to ship
- FREE 30-day money-back guarantee
- FREE #1 voted tech support
- VALUE PRICING on everything we sell - you'll always get our best price whether you order 1 or 100 items

3-Phase Basic Soft Starters up to 400 hp! SR33 Series, 22A - 482A



Energy Optimizing and Efficient, Full-Featured 3-Phase Soft Starters SR44 Series, 9A - 370A



SR44 full-featured solid-state Soft Starters provide many advantages when used instead of electromechanical contactors to control 3-phase AC induction motors. The SR44 Soft Starters are fully digital, and use thyristors in all three motor phases for controlled reduced voltage motor starting and stopping. SR44s have an Automatic Application Setup that fully configures the starter for a specific application with one entry. SR44s also have a built-in "Optimizing" mode that reduces energy costs when used on lightly loaded or oversized motors, and external bypass capability for efficient running at rated speed.

Features

 Advanced energy-saving Optimizing Mode improves motor efficiency and power factor; prolongs motor life Company Informatio

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Programmable Controllers

- Can be connected 'in-the-delta', allowing use of a smaller Soft Starter
- 9-370A @ 230-460VAC
- Full three-phase motor control
- Can be controlled via Local Keypad, Digital Inputs, optional Remote Keypad, or optional Modbus Communications.
- 115/230VAC or 12/24VDC control inputs
- Fault record history of last 5 trips
- Two-year warranty

Compact 3-Phase Soft Starters at Direct Prices SR22 Series, 5A - 40A The SR22 series is a low-cost family perfect for use in applications where



The SR22 series is a low-cost family perfect for use in applications where space is a concern. The SR22 soft starters use thyristors for controlled reduced voltage motor starting and stopping, then switch to internal bypass contacts for efficient running at rated speed. 3-potentiometer setup (Start Voltage, Start Time, and Stop Time) make installation and commissioning easy.

Features

- 5-40A @ 208-460V
 - 24 VDC control voltage
 - · Easily and separately adjustable motor start and stop times
- Two-phase control
- Internal bypass contacts for run
- DIN rail mounting
- Two standard-size widths: 45 & 55 mm
- Six error/trip indications: AC Supply, Control Supply, Overheated, Bypass Failure, Shear Pin, Overcurrent
- Two-year warranty

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Stellar® SR44 Full-Featured Soft Starters

Overview

SR44 full-featured solid-state Soft Starters provide many advantages when used instead of electromechanical contactors to control 3-phase AC induction motors. The SR44 Soft Starters are fully digital, and use thyristors in all three motor phases for controlled reduced voltage motor starting and stopping. SR44s have an Automatic Application Setup that fully configures the starter for a specific application with one entry. SR44s also have a built-in "Optimizing" mode that reduces energy costs when used on lightly loaded and oversized motors, and external bypass capability for efficient running at rated speed.

Features

- 9-370A @ 230-460VAC
- 115 or 230 VAC selectable control voltage
- Full three-phase motor control
- Fully programmable
- Easily and separately adjustable motor start and stop times
- · External bypass capability for run
- Advanced energy-saving Optimizing Mode improves motor efficiency and power factor while delivering demanded torque at low rpm (as compared to across-the-line control); and prolongs motor life
- Can be connected 'in-the-delta', allowing use of a smaller Soft Starter
- Can be used for motor reversing (with external contactors)
- Suitable for a wide variety of motor loads
- Keypad: 6 buttons with 2-line, 32-character display
- Can be used with local or remote control
- Optional Modbus or Remote Keypad control
- Programmable I/O for remote control: 1 digital input; 2 relay outputs
- Fault record history of last 5 trips
- IP20, panel mount
- Two-year warranty

SR44-RS485 Communication Card



Advantages

Mechanical Advantages

- Smooth acceleration; reduced mechanical shock and starting stress
- Extend lifespan of mechanical drive train components
- Fluid couplings and some clutches can be eliminated

Electrical Advantages

- Reduced starting currents and spikes
- More motors or larger motors can be started from lower-capacity power sources
- Allows motors to be started more frequently

Economic Advantages

- Lower overall costs for new installations
- Reduced maintenance and replacement of mechanical drive train components
 Deduced starting current lowers demand
- Reduced starting current lowers demand charges
- Energy Optimizing mode reduces electrical power costs
- Automatic Application setup feature speeds installation by configuring the SR44 for a specific application with one setting.

Standards & Approvals

- CE • REACH
- Reac
- UL listed* (E333109) * Options SR44-KPD & SR44-RS485 are not UL approved

Optional accessories

- Communication/Modbus card SR44-RS485
- Remote keypad SR44-KPD*
 *(requires SR44-RS485)

Applications

 General purpose applications where traditional across-the-line starting or wye-delta starting would typically be appropriate.

SR44-KPD Remote Keypad





SR44 Size 1 Soft Starter





Stellar® SR44 Full-Featured Soft Starters

SR44 Soft Starter Technical Specifications

SR44 Series Full-Featured Soft Starters – Size 1 – 9A-146A*										
Model	SR44-9	SR44-16	SR44-23	SR44-30	SR44-44	SR44-59	SR44-72	SR44-85	SR44-105	SR44-146
Price	<>	<>	<>	<>	<>	<>	<>	<>	<>	<>
* Rated Current [class 10(B) trip] (A)	9	16	23	30	44	59	72	85	105	146
Rated Operational Voltage		230–460 VAC (-15% +10%) @ 50–60 Hz (±2Hz); 3 phase; (usable on 208V systems down to 196V)								
* Motor Rating		Refer to selection table. Starters must be sized according to HP and starting class.								
mpulse Withstand Voltage		4kV								
nsulation Voltage Rating		690 VAC								
Short Circuit Current Rating (type 1)			5	kA				1	0 kA	
Control Power Consumption		8VA		10	VA			12 VA		
Control Voltage Range				115 VAC (-15	% +10%) or 3	230 VAC (-159	% +10%); 1 p	hase		
Control Fuse (external)	125 mA (125 mA @ 115V; 63 mA @ 230V 200 mA @ 115V; 100 mA @ 230V								
Control Input					12/24 VDC	or 115/230 V	AC			
Control Relay Outputs				(2) SPDT; 3	A @ 230 VAC;	AC11 (electro	o-magnet conti	rol)		
Start Time Setting Range					1–25	5 seconds				
Start Voltage Setting Range				1	0—60% [% of	main power v	oltage]			
Stop Time Setting Range					0–25	5 seconds				
Ambient Operating Temperature	0-40 °	0–40 °C [32–104 °F] – Above 40 °C [104 °F] derate linearly by 2% of unit FLC per °C to a max derate of 40% @ 60 °C [140 °F]								
Transportation & Storage Temperature		-25–60 °C [-13–140 °F] continuous ; -25–75 °C [-13–167 °F] NOT exceeding 24 hours								
Humidity		max 85% non-condensing; not exceeding 50% @ 40 °C [104 °F]								
Altitude		1000m [3	281 ft]; Above	1000m [3281	ft] derate linea	arly by 1% of u	unit FLC per 10	00m to MAX 2	000m [6562 ft]	
nvironmental Rating						IP20				
Shipping Weight			16 lb [7.3 kg]				18 lb [8.2 k	g]	
Dimensions (HxWxD)				415 x	222 x 195 mm	n [16.3 x 8.74	x 7.68 in]			
* Refer to Selection Table for deratings by appl	ication and	overload trip	class.							

SR44 Series Full-Featured Soft Starters – Size 2 – 174A-370A*											
Model	SR44-174	SR44-202	SR44-242	SR44-300	SR44-370						
Price	<>	<>	<>	<>	<>						
* Rated Current [class 5 starting] (A)	174	202	242	300	370						
Rated Operational Voltage	230-460 VAC (-1	15% +10%) @ 50-60) Hz (±2Hz); 3 phase;	(usable on 208V system	ms down to 196V)						
* Motor Rating	Refer t	o selection table. Start	ers must be sized acco	rding to HP and startin	g class.						
Impulse Withstand Voltage	4kV										
Insulation Voltage Rating			690VAC								
Short Circuit Current Rating (type 1)		10 kA		18	3 kA						
Control Power Consumption	18 VA										
Control Voltage Range	115 VAC (-15% +10%) or 230 VAC (-15% +10%); 1 phase										
Control Fuse (external)	200 mA @ 115V; 100 mA @ 230V										
Control Input		12/	24 VDC or 115/230	/AC							
Control Relay Outputs		(2) SPDT; 3A @ 2	230 VAC; AC11 (election	ro-magnet control)							
Start Time Setting Range			1–255 seconds								
Start Voltage Setting Range		10–60	% [% of main power v	voltage]							
Stop Time Setting Range			0–255 seconds								
Ambient Operating Temperature	0—40 °C [32–104 °F] – Above to a MAX	40 °C [104 °F] derate derate of 40% @ 60 °	linearly by 2% of unit F C [140 °F]	FLC per °C						
Transportation & Storage Temperature	-25–60 °C	[-13–140 °F] continue	ous ; -25–75 °C [-13-	–167 °F] NOT exceedir	ng 24 hours						
Humidity		max 85% non-conder	nsing; not exceeding 5	0% @ 40 °C [104 °F]							
Altitude	1000m [3281 ft]; Ab	ove 1000m [3281 ft] d	erate linearly by 1% of	unit FLC per 100m to I	MAX 2000m [6562 ft]						
Environmental Rating			IP20								
Shipping Weight	40 lb	[18 kg]		50 lb [23 kg]							
Dimensions (HxWxD)		520 x 340	x 265 mm [20.5 x 13.	4 x 10.4 in]							
* Refer to Selection Table for deratings by application	ation and overload t	rip class.									

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SR44 Soft Starter Optional Accessories

	SR	44 Series	Full-Featured Soft Starters – Optional Accessories
Part Number	Name	Price	Description
SR44-KPD	Remote Keypad	<>	Can be used to remotely monitor and/or program SR44 Soft Starters. Rated NEMA 4/4X. No external power wiring required. Works with all SR44 Soft Starters. Includes: Keypad, Cable (3m). NOTE: Optional SR44-RS485 communication card must be installed to use the SR44-KPD remote keypad. SR44-KPD can control multiple SR44 Soft Starters, but only one at a time.
SR44-RS485*	Communication Card *	<>	Can be used to establish RS-485 communication between an SR44 Soft Starter and most Modbus masters. A PLC or PC is required to demux the data returned from the SR44. (See the User Manual for details and PLC sample ladder programs.) Plugs directly onto the control board of an SR44. No external power needed. Has both RJ45 connections and screw-type terminal strip connections; can be used with CATS RJ45-terminated Ethernet cable, or with twisted pair shielded wiring. Max # of networked SR44s: 8. Max network length: 25m [82 tt] for RJ45 connections; 1200m [3937 tt] for RS-485 screw-terminal connections. Can be used with an SR44. No external RS-485 network between SR44 Soft Starters (one remote keypad to control multiple SR44s, one at a time). Works with all SR44 Soft Starters. Includes: Circuit card, Remote/Local selector switch.
Communication cal SR44-4851	bles for use with the SR4 HD15-CBL-2 for connectio	4-RS485 com n to certain	munication card are available in our ZIPLink Wiring Solutions section: PLCs; SR44-485RJ45-CBL-2 for connection to certain RS485 networks

SR44 Index Ratings (per IEC 60947-4-2)

SR44 Index Ratings *							
Model #	I _e (A)	Standard Operation AC-53a; X-Tx; F-S	Bypassed Operation AC-53b; X-Tx; OFF-time				
SR44-9 to SR44-105	9 to 105	AC-53a: 5-4; 99-10 AC-53a: 3-35; 99-10	AC-53b: 5-4; 120 AC-53b: 3-35; 120				
SR44-146 to SR44-202	146 to 202	AC-53a: 4-6; 99-10 AC-53a: 3-35; 99-10	AC-53b: 4-6; 120 AC-53b: 3-35; 120				
SR44-242 to SR44-370	242 to 370	AC-53a: 4-6; 60-3 AC-53a: 3-35; 60-3	AC-53b: 4-6; 420 AC-53b: 3-35; 420				
* Index ratings AC-53a and AC-53	b are specified by IE	C standard # 60947-4-2	•				

In line with the stated IEC starting duties, starters of 242 Amps and above have an enforced off period of seven minutes set as standard. During this period the display indicates "Stopped. Cooling", and the starter will not respond to a start signal.

IEC Index Ratings are comprised of Rated Operational Current (Ie), Utilization Category, Overload Current Profile (X-Tx), and Duty Cycle (F-S) or OFF-time.

Index Rating Example - Standard Operation (AC-53a Utilization Category per IEC 60947-4-2)





9 to 105 = controllers with Rated Operational Currents from 9A to 105A

Stellar® SR44 Full-Featured Soft Starters

SR44 Soft Starter Selection

SR44 Soft Starters - 0/L Trip Classes ①	-
Default	10
Heavy	20
Agitator	10
Air Compressor - Equalized	10B
Air Compressor - Loaded	20
Ball Mill	20
Centrifuge - extended start needed for sizing	
Chiller	10B
Conveyor - Unloaded	10B
* Conveyor - Loaded	20
Crusher	30
Escalator	10B
* Fan - Low Inertia < 85A	10
* Fan - High Inertia > 85A	30
Feeder - Screw	10
Grinder	20
Hammer Mill	20
Lathe Machine	10B
Mills - Flour, etc.	20
Mixer - Unloaded	10B
Mixer - Loaded	20
Pelletizer	20
Plastic and Textile Machines	10B
Press - Flywheel	20
* Pump - Centrifugal	10B
* Pump - Positive Displacement - Unloaded	10
Rolling Mill	20
Saw - Band	10
Saw - Circular	20
Screen - Vibrating	20
Transformer, Voltage Regulator	10B
Tumbler	10
Wood Chipper	30
* Commonly required applica	tions

SR44 Soft Starter Selection Steps

- ① Determine the required trip class based on the motor load and required start time.
- (2) Select the applicable SR44 part number based on the required Trip Class, motor HP, and connection type.

				SR44 S	oft Star	ters – S	Selectio	on Table	2		
			Mot	or Size					So	ft Starter Size	;
l	n-Line (Connecti	ion	In-	Delta Co	onnection	n **		Appli	cation Trip Cl	ass
I (A)	HP @ 208V*	HP @ 230V	HP @ 460V	I (A)	HP @ 208V*	HP @ 230V	HP @ 460V	Class 10B	Class 10	Class 20	Class 30
9	2	3	5	15	2	3	7.5	SR4	14-9	SR44-16	SR44-23
16	3	5	10	27	3	5	15	SR4	4-16	SR44-23	SR44-30
23	5	7.5	15	39	5	7.5	25	SR4	4-23	SR44-30	SR44-44
30	7.5	10	20	51	7.5	10	30	SR4	4-30	SR44-44	SR44-59
44	10	15	30	76	10	15	50	SR4	4-44	SR44-59	SR44-72
59	15	20	40	102	15	20	60	SR4	4-59	SR44-72	SR44-85
72	20	25	50	124	20	25	75	SR4	4-72	SR44-85	SR44-105
85	25	30	60	147	25	30	100	SR4	4-85	SR44-105	SR44-146
105	30	40	75	181	30	40	125	SR44	1-105	SR44-146	SR44-174
146	50	60	100	252	50	60	150	SR44	1-146	SR44-174	SR44-202
174	60	75	150	301	60	75	250	SR44	1-174	SR44-202	SR44-242
202	60	75	150	349	60	75	300	SR44	1-202	SR44-242	SR44-300
242	75	100	200	419	75	100	300	SR44	1-242	SR44-300	SR44-370
300	100	100	250	519	100	100	350	SR44	1-300	SR44-370	n/a
370	125	150	300	640	125	150	350	SR44	1-370	n/a	n/a

208V applications are UL listed only as low as 196V.

* For In-Delta connections, all six motor wires must be available for connection, and it is critical to exactly follow the In-Delta wiring diagram in the SR44 User Manual or Quick-start Guide. (Nine-lead motors CAN<u>NOT</u> be connected in the delta.)

The Soft Starter will only sense the Phase Current, which is about 58% of the Line Current.

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Stellar[®] SR44 Full-Featured Soft Starters

SR44 Max Overcurrent Protection

UL requires Recognized special purpose fuses (JFHR2) for the protection of semiconductor devices (rated 700 VAC, as indicated in the Semiconductor Fuse Table) be used to obtain the short circuit ratings required by UL.

Suitable for use on a circuit capable of delivering not more than the indicated RMS Symmetrical Amperes at maximum rated operational voltage, when protected by Semiconductor Fuse type manufactured by Company and Model Number indicated in the table.

These fuses are for short circuit protection of the semiconductors and must be mounted externally by the user between the unit and the incoming main power source; not between the unit and the motor.

		Semic	onductor Fu	se Types for SR44 Soft S	Starters	5				
		6.0	UL JFHR	2 Fuses for UL Application	1S *	Non-UL	**			
Model Name	I _e (A)	S.C. With- stand	Bussman Model # *	Mersen (formerly Ferraz) Model # *	Amps	Edison E70S Model # **	Amps			
SR44-9	9		1701/2110		62	EZOSEO	50			
SR44-16	16	5kA	1701013110	0.9 UKD 30 D00A 0003	03	E70350	50			
SR44-23	23		5kA	1701/12112		100	F70580	80		
SR44-30	30			JKA	1701013112	0.9 UKD 30 D00A 0100	100	E70300	00	
SR44-44	44				170M3114	6.9 URD 30 D08A 0160	160	E70\$125	125	
SR44-59	59		170M3115	6.9 URD 30 D08A 0200	200	E703125	125			
SR44-72	72			1701/2116		250	E70\$200	200		
SR44-85	85		1701013110	0.9 UKD 30 D00A 0230	250	E703200	200			
SR44-105	105		1701/2110		400	E70\$200	200			
SR44-146	146	10 kA	10 kA	10 kA	10 kA	1701013119	0.9 UKD 30 D00A 0400	400	E703300	300
SR44-174	174		1701/12121		500	E70\$400	400			
SR44-202	202		1701013121	0.7 OKD 30 DOOR 0300	500	L703400	400			
SR44-242	242		1701/111/		500	E705500	500			
SR44-300	300	19 / 1	1701014114	0.7 UKD 31 DU6A 0500	500	E703500	500			
SR44-370	370	IUNA	170M4116	6.9 URD 31 D08A 0630	630	E70S700	700			
* Use these fu ** Use these f	ses with S	SR44 soft :	starters in UL ap	plications. NON-III applications						

** Use these fuses with SR44 soft starters only in NON-UL applications

SR44 Internal Overload Trip



'Current limit', 'Overload level' and 'Overload delay' settings may be adjusted to limit overload currents in accordance with the trip curves shown here.

(See Menu Structure in User Manual or Quick-start Guide for default settings.)

» For motors with FLCs lower than the rated current of the SR44, the 'Overload level' may be adjusted using the following formula:

Overload Level = Motor FLC x 1.1(A)

Note:

The overload monitors only one of the phases, and the 'Current Limit' level is active only during motor starting.

IMPORTANT:

We recommend that the control supply is maintained between starts to ensure the integrity of the overload, which will reset on control power removal.

Stellar[®] SR44 Full-Featured Soft Starters

SR44 Dimensions



Ventilation for Enclosures

When fitting an SR44 into an electrical enclosure, ventilation must be provided if the heat output of the unit is greater than the enclosure will dissipate.

If the enclosure cannot dissipate enough heat, use the following formula to determine the fan requirement. An allowance has been incorporated into the formula so that the figure for "Q" is the air delivery quoted in the fan supplier's data.

$Q = (4 \times W_t) / (t_{max} - t_{amb})$

- Q = required volume of air (cubic meters per hour; m^3/h)
- Wt = total heat produced by the unit and all other heat sources within the enclosure (Watts)
- t_{max} = maximum permissible temperature within the enclosure (40 °C for a fully rated SR44)
- tamb = temperature of the air entering the enclosure (°C)
- (If you prefer to work in CFM, substitute °F for °C. Q will then be in CFM, instead of m^3/h .)

An approximation of the heat produced by the SR44 (in Watts) can be made by multiplying the Full Load Line Current by three. Exact figures for unit Full Load Current are available in the SR44 user manual.



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ZPINK Wiring Solutions

Wiring Solutions using the **ZIP**Link Wiring System

ZIPLinks eliminate the normally tedious process of wiring between devices by utilizing prewired cables and DIN rail mount connector modules. It's as simple as plugging in a cable connector at either end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using half the space at a fraction of the cost of standard terminal blocks. There are several wiring solutions available when using the **ZIP**Link System ranging from

PLC I/O-to-ZIPLink Connector Modules that are ready for field termination, options for connecting to third party devices, GS, DuraPulse and SureServo Drives, and specialty relay, transorb and communications modules. Pre-printed I/O-specific adhesive label strips for quick marking of **ZIP**Link modules are provided with **ZIP**Link cables. See the following solutions to help determine the best **ZIP**Link system for your application.

Solution 1: DirectLOGIC, CLICK and Productivity3000 I/O Modules to ZIPLink Connector Modules

When looking for guick and easy I/O-to-field termination, a ZIPLink connector module used in conjunction with a prewired **ZIP**Link cable, consisting of an I/O terminal block at one end and a multi-pin connector at the other end, is the best solution.



Using the PLC I/O Modules to **ZIP**Link Connector Modules selector tables located in this section, 1. Locate your I/O module/PLC.

- 2. Select a ZIPLink Module.
- 3. Select a corresponding ZIPLink Cable.



Solution 2: DirectLOGIC, CLICK and Productivity3000 I/O Modules to 3rd Party Devices

When wanting to connect I/O to another device within close proximity of the I/O modules, no extra terminal blocks are necessary when using the **ZIP**Link Piqtail Cables. **ZIP**Link Piqtail Cables are prewired to an I/O terminal block with color-coded pigtail with soldered-tip wires on the other end.

Using the I/O Modules to 3rd Party Devices selector tables located in this section,

- 1. Locate your PLC I/O module.
- 2. Select a ZIPLink Pigtail Cable that is compatible with your 3rd party device.



Solution 3: GS Series and DuraPulse Drives **Communication Cables**

Need to communicate via Modbus RTU to a drive or a network of drives?

ZIPLink cables are available in a wide range of configurations for connecting to PLCs and SureServo, SureStep, Stellar Soft Starter and AC drives. Add a ZIPLink communications module to quickly and easily set up a multi-device network.

Using the Drives Communication selector tables located in this section,

- 1. Locate your Drive and type of communications.
- 2. Select a ZIPLink cable and other associated hardware.



Photo Sensors Limit Switches Encoders Current Sensors Pressure Sensors Temperature Sensors Pushbuttons Liahts Process Relays/ Timers Comm

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Wiring Solutions

Solution 4: Serial Communications Cables

ZIPLink offers communications cables for use with **Direct**LOGIC, CLICK, and Productivity3000 CPUs, that can also be used with other communications devices. Connections include a 6-pin RJ12 or 9-pin, 15-pin and 25pin D-sub connectors which can be used in conjunction with the RJ12 or D-Sub Feedthrough modules. Using the **Serial Communications Cables** selector table located in this section,

- 1. Locate your connector type
- 2. Select a cable.



Solution 5: Specialty ZIPLink Modules

For additional application solutions, *ZIP*Link modules are available in a variety of configurations including stand-alone relays, 24VDC and 120VAC transorb modules, D-sub and RJ12 feedthrough modules, communication port adapter and distribution modules, and *SureServo* 50-pin I/O interface connection.

Using the *ZIPLink* Specialty Modules selector table located in this section,

- 1. Locate the type of application.
- 2. Select a ZIPLink module.



Solution 6: *ZIP*Link Connector Modules to 3rd Party Devices

If you need a way to connect your device to terminal blocks without all that wiring time, then our pigtail cables with color-coded soldered-tip wires are a good solution. Used in conjunction with any compatible *ZIP*Link Connector Modules, a pigtail cable keeps wiring clean and easy and reduces troubleshooting time. Using the Universal Connector Modules and Pigtail Cables table located in this section,

- Select module type.
 Select the number of pins.
- 3. Select cable.





Motor Controller Communication

Systems Overview

Company Information

Drive / N	lotor Controller		Communication	S		ZIPLink Cable		
Controller	Comm Port Type	Network/Protocol	Connects to	Comm Port Type	Cable (2 meter length)	Cable Connectors	Other Hardware Required	
			DL06 PLCs	Port 2 (HD15)	CS_485HD15_CBL_2	R I12 to HD15	_	
		D2-260 CPU				-		
S1	RJ12	RS-485 Modbus RTU	GS-EDRV100	RJ12	GS-EDRV-CBL-2	R 112 to R 112	-	
		ZL-CDM-RJ12Xxx*	RJ12	GS-485RJ12-CBL-2		-		
			FA-ISOCON	5-pin Connector	GS-ISOCON-CBL-2	RJ12 to 5-pin plug	-	
			CLICK PLCs	Port 2 (B 112)			_	
			DL05 PLCs				-	
			DL06 PLCs					
		RS-232 Modbus RTU	D2-250-1 CPU	Port 2 (HD15)	GS-RJ12-CBL-2	RJ12 to RJ12	FA-15HD	
			D2-260 CPU					
S2	B.I12		D4-450 CPU	Port 3 (25-pin)			FA-CABKIT	
			P3-550 CPU	Port 2 (RJ12)			-	
			DL06 PLCs	Port 2 (HD15)	GS-485HD15-CBI -2	BJ12 to HD15	-	
		D2-260 CPU				-		
	RS-485 Modbus RTU	GS-EDRV100	RJ12	GS-EDRV-CBL-2	- RJ12 to RJ12	-		
		ZL-CDM-RJ12Xxx*	RJ12	GS-485RJ12-CBL-2		-		
			FA-ISOCON	5-pin Connector	GS-ISOCON-CBL-2	RJ12 to 5-pin plug	-	
uraPulse RJ12	RS-485 Modbus RTU	DL06 PLCs D2-260 CPU	- Port 2 (HD15)	GS-485HD15-CBL-2	RJ12 to HD15	-		
		GS-EDRV100	RJ12	GS-EDRV-CBL-2		-		
00)			ZL-CDM-RJ12Xxx*	RJ12	GS-485RJ12-CBL-2	- KJ I Z LU KJ I Z	-	
			FA-ISOCON	5-pin Connector	GS-ISOCON-CBL-2	RJ12 to 5-pin plug	-	
			CLICK PLCs	Dort 2 (P.112)		-		
			DL05 PLCs		SVC-232RJ12-CBL-2	6-pin IEEE to RJ12	-	
			DL06 PLCs					
		RS-232 Modbus RTU	D2-250-1 CPU	Port 2 (HD15)			FA-15HD	
			D2-260 CPU					
ureServo	IEEE1394 (CN3)		D4-450 CPU	Port 3 (25-pin)			FA-CABKIT	
			P3-550 CPU	Port 2 (RJ12)			-	
			DL06 PLCs	– Port 2 (HD15)	SVC-485HD15-CBI-2	6-nin IEEE to HD15	_	
		RS-485 Modbus RTU	D2-260 CPU				-	
			ZL-CDM-RJ12Xxx*	RJ12	SVC-485RJ12-CBL-2	6-pin IEEE to RJ12	-	
			USB-485M	RJ45	SVC-485CFG-CBL-2	6-pin IEEE to RJ45	-	
			DL06 PLCs					
eilar Soft Starter)	B.I45**	BS-485 Modbus RTU	D2-250-1 CPU	Port 2 (HD15)	SR44-485HD15-CBL-2	RJ45 to HD15	SB44-BS485**	
R44 Series			D2-260 CPU					
			ZL-CDM-RJ12Xxx*	RJ12	SR44-485RJ45-CBL-2	RJ45 to RJ12		
			DL06 PLCs				-	
		RS-232 ASCII	D2-250-1 CPU	Port 2 (HD15)	STP-232HD15-CBL-2	HD15-pin to RJ12	-	
ureStep	RJ12		D2-260 CPU (Port2)				-	
			DL05 PLCs	B.I12	STP_2328 112_00 _2	B.112 to B.112	-	
			CLICK PLCs				-	

Drives/Motors/Motion

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