



Products Catalog



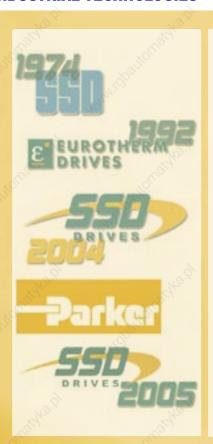
:: AC & DC DRIVES

:: AC SYSTEM DRIVES

:: AC & DC SERVO DRIVES

:: AC & DC SERVO MOTORS

:: HMI TOUCHSCREENS



In August of 2005, SSD Drives joined Parker Hannifin Automation Group and became known as Parker SSD Drives. Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets. The company employs more than 50,000 people in 46 countries around the world.

Parker SSD Drives has four main manufacturing facilities, including one each in the United Kingdom, France, Germany and the United States, and a sales presence in more than 40 countries. The company employs about 1,000 people worldwide and manufactures AC and DC drives, as well as servo drives, motors, and systems for leading original equipment manufacturers, end users, and integrators for automated industrial process applications. Parker SSD Drives serves global target markets such as plastics, converting, packaging, extrusion, printing, pulp and paper, primary metals and general industrial automation.

Parker SSD Drives offers complementary technology, products, and customers, adding its leadership in industrial automation and drives technology to Parker's existing strong presence in the precision electromechanical market.

The combination of vision, talents and skills from Parker and Parker SSD Drives ensures that together we will have all the capabilities needed to compete successfully in serving a broad range of industrial customers around the world. This combination creates an exciting new force in global automation.

For more information on Parker and Parker SSD Drives, visit our web sites at www.parker.com and www.ssddrives.com.

5-MODE DRIVE

:: V/F Inverter ::

:: Sensorless Inverter :: :: Vector Inverter ::

:: AC Brushless Servo ::

:: Active Front End ::



TOUCHSCREENS

:: Multilingual Interface :: :: Integrated Web Server :: :: CompactFlash Drive ::

:: 3 to 10.4 in. ::







Product Selector

AC SYSTEM DRIVES

Drives	0	20A	200A	2000/	A
Frequency converter for asynchronous and brushless motors, Common Bus version	890CS/CD) Series - 1.5 to 180A	and Style (2)	P.	10
Frequency converter for asynchronous and brushless motors, Stand Alone version	890SD Se	ries - 1.5 to 1681A	Parito.	P.	12

AC DRIVES

Drives	0 7.5HP	150HP	1500HP
V/F single/three phase inverter with integrated braking and Fieldbus options	650 Series - 0.25 to 10HP	attornat)	P. 21
Single/three phase sensorless inverter with integrated braking and Fieldbus options	650V Series - 0.25 to 150HP	WHY I'CL	P. 21
Single/three phase V/F, sensorless and vector inverter with Fieldbus options	690+ Series - 0.75 to 1600HP	, to the	P. 26

DC DRIVES

Drives	0,44	5A	100A	Nag.	3000A
Single phase non-isolated analog converter	506/507/508 Series- 3 to 12A		W.		P. 35
Single phase 2Q isolated analog converter	512C Series - 4 to 32A		Michae,		P. 36
Single phase 4Q isolated analog converter	514C Series - 4 to 32A	Mark Hills.			P. 37
Three phase 2Q/4Q digital converter with Fieldbus options	590+ Series - 15 to 27	00A			P. 38

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AC System Drives

6 890 Series Overview

10 890 CS/CD Series Common Bus version 12 890 SD Series Stand Alone version

HMI TOUCHSCREEN

17 TS8000 Series
Touchscreen Operator panel

AC DRIVES

650 Series
Single/three phase V/F inverter with integrated braking and Fieldbus option

650V Series
Single/three phase sensorless inverter with integrated braking and Fieldbus option

690+ Series
26 Single/three phase line regenerative vector inverter (4 modes) with Fieldbus option

32 EMC Filters
Full range of inverter-dedicated filters

Reactors
Full range of inverter-dedicated reactors

DC DRIVES

35 Single phase analog nonisolated converter 36 Single/three phase 2Q isolated analog converter

37 Single/three phase 4Q isolated analog converter

590+ Series - 15 to 2700A
Three phase 2Q/4Q digital converter with Fieldbus option

39 590+ Series - 15 to 2700A DRV version

43 EMC Filters
Full range of converter-dedicated filters

Reactors
Full range of converter-dedicated reactors

INK

48 LINK System
Fiber optic based control system

SOFTWARE

DSE - Drive System Explorer
On-line programming and diagnostic software for 890 Series Converters

51 DSI8000
On-line programming and diagnostic Software for TS8000 Series touch screen

ConfigEd Lite
Off-line programming software for inverters and converters

ConfigEd Lite+
On-line programming diagnostic software for inverters and converters

Drive System Designer (DSD)

Configuration software for LINK systems

TRAINING

Training Courses
Training and refresher courses







Parker SSD Drives Worldwide

Parker SSD Drives is a manufacturer of AC, DC, Servo drives and motors. We are renowned for our reliable, innovative, state-of-the-art products, application experience and global support.

Austria Belgium Cyprus Czech Republic Denmark France Germany Greece Holland Hungary Iceland Ireland Italy Lithuania Moldova Poland Portugal Romania Slovenia Spain





Argentina Australia Bangladesh Brazil Canada Chile China Colombia Costa Rica Ecuador

Malaysia Egypt Mexico Hong Kong India Morocco Indonesia New Zealand Nigeria Iran Israel Peru **Philippines** Japan Jordan Saudi Arabia Kenya Singapore South Africa Kuwait

South Korea Sri Lanka Taiwan Thailand UAE USA Vietnam

PRODUCTION SITES

USA - Charlotte, NC

Sweden



Production: AC Drives, DC Drives, LINK Products, Drive Systems

UK - Littlehampton



Production: AC Drives, DC Drives, AC Servo Drives, Drive Systems

Germany - Bad Schönborn



Production: AC Servo Drives, AC Servo Motors

France - Dijon



Production: AC Servo Drives & Motors, DC Servo Drives & Motors

from 1.5 to 1681A

DESCRIPTION

AC890 System Drives are modular AC drive units that can be combined to form a complete multi-section drive system, saving space, reducing wiring, and providing unmatched system performance.

The AC890 can control everything from induction motors to servo motors. AC890 provides V/F, sensorless vector, closed-loop flux vector and servo position control; from simple AC motor control sections to more demanding sections. The AC890 comes in a wide variety of sizes and ratings and input and output types, making it the right solution for virtually any motion control project.



5-MODE FREQUENCY CONVERTER:

V/F, SENSORLESS VECTOR, FLUX VECTOR, SERVO DRIVE, LINE REGENERATIVE (AFE) **BUILT-IN EMC FILTERS**

2 Performance levels (advanced and high performance)

EN954-1 CAT. 3 CERTIFIED OPTIONAL SAFE STOP

COMMS OPTIONS AVAILABLE



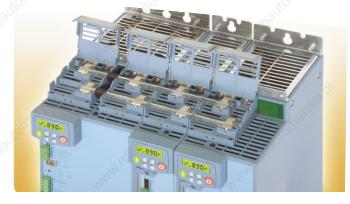
COMMON BUS Drives (CD) are individual motor output sections that easily connect to a **COMMON BUS Supply (CS)** with a unique, easy-to-install DC bus bar system (SSD Rail).

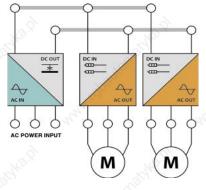
COMMON BUS MADE EASY

DC bus terminals are located at the top of each drive section. Easy to use screw clamps secure the high power bus bars. This low cost, compact design significantly reduces wiring in common bus systems, saving time and material cost.

COMMON BUS Drives (CD)

- Have internal DC fuses
- Need no reactors
- Provide access to all feedback and networking options

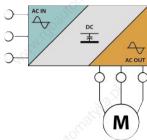






STANDALONE Drives (SD)

The AC890 Standalone Drives are complete AC-input-to-AC motor output controller with power input and output terminals, and access to all feedback and networking options.





SPECIFICATIONS

Power Supply 890CS: 208-500Vac ±10% 890CD: 320/560-705Vdc

> 890SD: 380-500Vac ±10% (Frames E thru K: 380-460Vac ±10%) 0-45°C (Derate 2%/°C to 50°C max - Frame sizes G thru K: 0-40°C)

Operating Temperature Maximum Humidity Altitude

85% non-condensing

1000m ASL (Derate 1%/100m 1000-4000m max) **Degree of Protection** IP20: Frame sizes B,C,D, E, F

> IPOO: Frame sizes G, H, J IP52: Frame size K

Inputs/Outputs

Analog Inputs: 4 total, 2 configurable

 $(0-10V, \pm 10V, 0-20mA,$

4-20mA)

+2 configurable (0-10V, ±10V) 2 configurable (0-10V, ±10V)

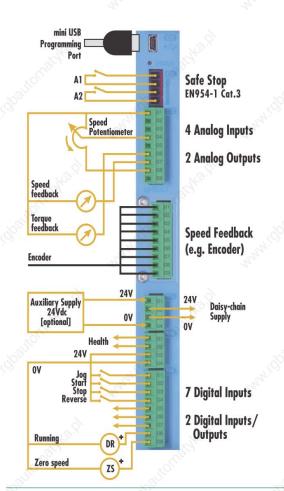
Analog Outputs: Digital Inputs: 7 configurable (24V) Digital I/O: 2 configurable (24V) Relay Digital Output: 1 configurable (24V)*

*3 additional 230V rated dry

contacts (frames E-K)

890CD/890SD CONTROL BOARD

- :: Programming Port USB
- :: Torque and Speed Analog Outputs
- :: Health Contact
- 24Vdc Control Supply Programming
- :: Digital I/O
- **::** Motor Thermistor Input
- :: Running and Zero Speed Signal Outputs





PERFORMANCE LEVELS

AC890 frequency converters offer the level of performance that best suits your application needs. With 2 different performance levels, AC890 system allows the maximum flexibility of use.

STANDARD PERFORMANCE

Basic LINK VM function blocks: math functions, Boolean logic, timers, counters, One shots, threshold comparators, latches, plus: motion control firmware with added position loop, motion control function blocks, move incremental, move absolute, move home, line drive master ramp and section control, winder blocks (SPW, CPW), full function PID, state machine, and others.

HIGH PERFORMANCE

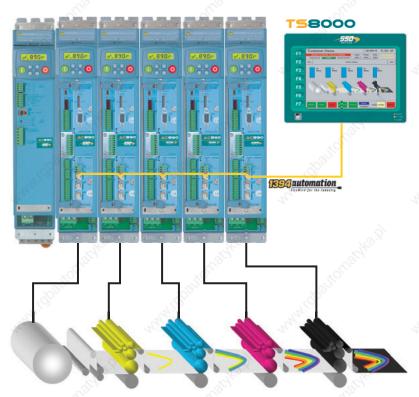
All Advanced Performance features, plus: Library of pre-engineered application specific LINK VM function blocks such as: shaftless printing, cut-to-length, precision winding, traversing, and others.

SHAFTLESS REGISTRATION CONTROL SOLUTIONS FOR PRINTING

Mechanical line shafts for printing are easily replaced with individual AC890 drives, capable of precise synchronization and printing registration adjustment to each section, guaranteeing perfect alignment of each color. AC890 HIGH PERFORMANCE LEVEL features a library of pre-engineered application specific LINK VM function blocks, including shaftless printing, cut-to-length, precision winding, traversing, and others.

FireWire protocol (IEEE1394) ensures data synchronization for the printing register control.

- 125µS Cycle time
- Time Synchronization
- Deterministic Network



ACTIVE FRONT END: LINE REGENERATIVE SYSTEMS

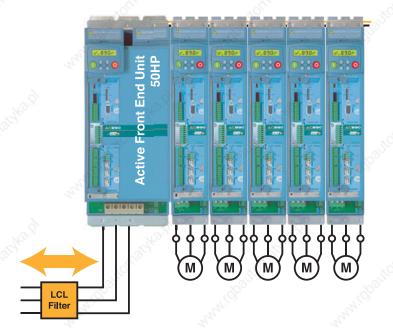
Common Bus Drive sections can also be configured as ACTIVE-FRONT-END INPUT SECTIONS, providing true lineregenerative 4-quadrant control with no harmonics and 1.0 power factor.

REQUIREMENTS

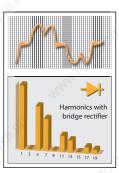
- :: Pre-charging Circuit
- :: LCL Filter

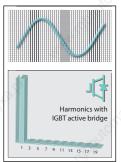
PERFORMANCE

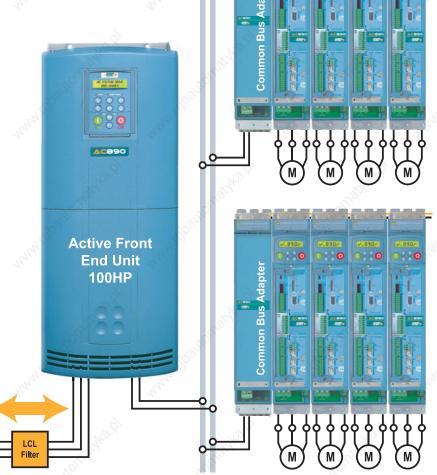
- **::** Fully Bidirectional Power Flow
- :: Overload 150% for 60 secs
- :: Sinusoidal Input Current
- :: Complies with IEEE 519



Larger AC890 systems can be matched with separate higher power Active Front End units. Multiple rows of AC890 Common Bus Drives are bridged together using Common Bus Adapter modules.









890 Series CS/CD units provide a common bus solution for multi-section drive applications. Multiple 890 Series CD Common Bus Drive inverter sections can be combined with a single 890 Series CS Common Bus supply unit, achieving substantial space savings and peripheral component savings within the enclosure. Additional 890 Series CS supply units may be paralleled to provide greater DC bus supply amperage.



HOW TO PICK A CS

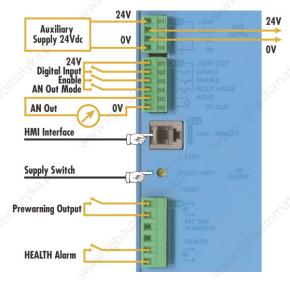
Select the 890CD (common-bus drives), one for each section.

Select the 890CS (common-bus supply) module by adding the HP (or currents) of all the CD drives. Select a reactor and braking resistor kit.

Order the common bus bar and exhaust duct kit from the options section.

890CS Power Supply Unit

up to 162A POWER SUPPLY 208-500VAC BUILT-IN DYNAMIC BRAKING UNIT DC BUS SUPPLY OUTPUT DIAGNOSTIC OPERATOR PANEL



Daisy-chain

890CS CONTROL BOARD

:: 24Vdc Supply Control

:: HMI Interface Connection

:: Three-phase Supply Selector

:: Configurable Analog Output

:: Prewarning Output

:: Alarm Output

Part Numbe	L Tage	Frame	HP@460V	ac	HP@230Vac	Inp	out Amps	
AC890 Common Bus Supplies used with 230 - 500Vac (+/-10%) 3 phase								
890CS/5/0032B/B/	00/N/EN	В	25		10		32	
890CS/5/0054B/B/	00/N/EN	77.	45		20		54	
890CS/5/0108D/B/	00/N/EN		75		40		108	
890CS/5/0162D/B/	00/N/EN	U	135		60		162	

890CD Inverters

from 1.5 to 180A

320, 650, 705VDC POWER SUPPLY STANDARD EQUIPPED KEYPAD COMMON OPTIONS WITH 890SD COMMS OPTIONS AVAILABLE

Part Number	Frame	HP@ 230Vac	Output Amps@ 230Vac
AC890 Common Bus Drives 2	08 - 230Vac (+/-10%)		¹¹ ig ₀
890CD/2/0003B/N/00/A/US		0.75	3
890CD/2/0005B/N/00/A/US		1.5	5.5
890CD/2/0007B/N/00/A/US	В	2	7
890CD/2/0011B/N/00/A/US		3	11
890CD/2/0016B/N/00/A/US		5	16.5
890CD/2/0024C/N/00/A/US	C Malay	7.5	24
890CD/2/0030C/N/00/A/US	C	10	30
Part Number	Frame	HP@ 460Vac	Output Amps@ 460Vac
AC890 Common Bus Drives 3	80 - 500Vac (+/-10%)	O.C.	-Jichin
890CD/5/0002B/N/00/A/US		1	2
890CD/5/0003B/N/00/A/US		1.5	3.5
890CD/5/0004B/N/00/A/US		2	4.5
890CD/5/0006B/N/00/A/US	В	3	5
890CD/5/0010B/N/00/A/US		5	8
890CD/5/0012B/N/00/A/US		7.5	12
890CD/5/0016B/N/00/A/US		10	14
890CD/5/0024C/N/00/A/US	C	15	24
890CD/5/0030C/N/00/A/US		20	27
890CD/5/0039D/N/00/A/US		25	35
890CD/5/0045D/N/00/A/US	D	30	40
890CD/5/0059D/N/00/A/US		40	52
890CD/4/0073E/N/00/A/US	E Trees	50	73
890CD/4/0087E/N/00/A/US		60	87
890CD/4/0105F/N/1F/A/US		75	100
890CD/4/0145F/N/1F/A/US	e de la companya de l	100	130
890CD/4/0156F/N/1F/A/US	"April	125	156
890CD/4/0180F/N/1F/A/US	v.	150	180

Note: The 890 comes in two performance level configurations, Advanced and High. The part #'s shown above 890CD/x/xxxxx/x/xx/A/xx are for Advanced models. For High Performance models, replace the Performance Level field designator with an H.



890SD Series

from 1.5 to 1681A

890SD Series (Stand Alone) frequency converters are independent units that can be powered either with mains three phase voltage or via DC bus. 890SD Series comes in a wide choice of sizes, suitable for every type of application, from small industrial machines to high-powered large plants (e.g. rolling mills, paper mills). They are also ideal for applications where single units are machine mounted (e.g. printing units).



DIRECT MAINS SUPPLY OR VIA DCBUS BUILT-IN DYNAMIC BRAKING UNIT STANDARD WITH KEYPAD COMMON OPTIONS WITH 890CD COMMS OPTIONS AVAILABLE

	Part Number	Frame	HP@ 230Vac	Output Amps@ 230Vac
AC890	Stand-alone Drives 208-240	OVac (+/-10%) Input	3-phase	
	890SD/2/0003B/B/00/A/US		0.75	3
	890SD/2/0005B/B/00/A/US		1.5	5.5
	890SD/2/0007B/B/00/A/US	В	2	7
	890SD/2/0011B/B/00/A/US		3	11
	890SD/2/0016B/B/00/A/US		5	16.5
	890SD/2/0024C/B/00/A/US	0	7.5	24
	890SD/2/0030C/B/00/A/US	C AND	10	30

Note: The 890 comes in two performance level configurations, Advanced and High. The part #'s shown above 890SD/x/xxxxx/x/xx/A/xx are for Advanced models. For High Performance models, replace the Performance Level field designator with an H.

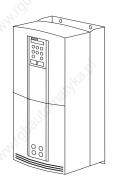
A STATE OF THE STA	Part Number	Frame	HP@ 460Vac	Output Amps@ 460Vac
	90 Stand-alone Drives 380 -50 -460Vac (+/-10%) Input -3 Pha			s B thru D
	890SD/5/0002B/B/00/A/US	3247	1	2
	890SD/5/0003B/B/00/A/US		1.5	3.5
	890SD/5/0004B/B/00/A/US		2	4.5
	890SD/5/0006B/B/00/A/US	В	3	5
	890SD/5/0010B/B/00/A/US		5	8
	890SD/5/0012B/B/00/A/US		7.5	12
	890SD/5/0016B/B/00/A/US		10	14
	890SD/5/0024C/B/00/A/US	ð. c	15	24
	890SD/5/0030C/B/00/A/US	C C	20	27
	890SD/5/0039D/B/00/A/US		25	35
	890SD/5/0045D/B/00/A/US	D	30	40
	890SD/5/0059D/B/00/A/US		40	52
	890SD/4/0073E/B/00/A/US		50	73
	890SD/4/0087E/B/00/A/US	Mary E	60	87
	890SD/4/0105F/B/1F/A/US		75	100
	890SD/4/0145F/B/1F/A/US	F	100	130
	890SD/4/0156F/B/1F/A/US	HALL.	125	156
	890SD/4/0180F/B/1F/A/US		150	180
	890SD/4/0216G/ * /1F/A/US		175	216
	890SD/4/0250G/ * /1F/A/US	G	200	250
	890SD/4/0316G/ * /1F/A/US		250	316
	890SD/4/0361G/ * /1F/A/US		300	361
	890SD/4/0420H/ * /1F/A/US		350	420
	890SD/4/0480H/ * /1F/A/US	H	400	480
	890SD/4/0520H/ * /1F/A/US		450	520
	890SD/5/0590J/ * /1F/A/US	e Silver J	500	590
	890SD/5/0685K/ * /1F/A/US	K(2xG)	600	685
	890SD/5/0798K/ * /1F/A/US	K(2xH)	700	798
	890SD/5/0988K/ * /1F/A/US	K(2xH)	800	988
	890SD/5/1028K/ * /1F/A/US	K(3xG)	900	1028
	890SD/5/1120K/ * /1F/A/US	K(2xJ)	1000	1120
	890SD/5/1197K/ * /1F/A/US	K(3xH)	1000	1197
	890SD/5/1482K/ * /1F/A/US	K(3xH)	1300	1482
	890SD/5/1681K/ * /1F/A/US	K(3xJ)	1500	1681

^{*} The Braking switch is optional on these models—B is braking, N is no brake..

Note: The 890 comes in two performance level configurations, Advanced and High. The part #'s shown above 890SD/x/xxxxx/x/xx/A/xx are for Advanced models. For High Performance models, replace the Performance Level field designator with an H.









Frame Sizes B/C/D

Frame Sizes E/F

Frame Sizes G/H/J

	and the same of th						
	Frame S	izes B/C/D	Frame S	Sizes E/F	Frame S	sizes G/H/J	
>2	DIMENSIONS	Mar.	ALCON.	· ·		Mar.	
	Frame		H J	W		D	
117	890 Frame B			2.9 (72)			
	890 Frame C		17.1 (433)	4.6 (116)		10.2 (258)	
	890 Frame D			6.3 (160)			
	890 Frame E		26.3 (668)	10.1 (257)		12.3 (312)	
	890 Frame F		28.3 (720)	10.1 (207)		13.4 (355)	
	890 Frame G		41.0 (1042)	17.9 (456)			
	890 Frame H		46.3 (1177)	22.5 (572)		18.3 (465)	
7	890 Frame J		50.7 (1.288)	26.6 (675)			
11/2	890 Frame K	For K Fran	ne Dimensions- Consult	Factory			
	Dimensions are in inch	nes (mm).					
	CABLES AND Cables	CONNECTORS	, And				

CABLES AND CONNECTORS Cables

Part Number	Description	Kajir.
CM471050	890 USB Programming Cable	
8905/FWCBL200/00	200 mm FireWire Cable (B Frame to a B, C, and D Frame)	
8905/FWCBL280/00	280 mm FireWire Cable (C, D Frame to a B, C, and D Frame)	
8905/FWCBL1000/00	1000 mm FireWire Cable (Rack to Rack)	
8905/FWCBL4500/00	4500 mm FireWire Cable (Rack to Enclosure)	

Bus Bar System

8	Part Number	Description		
	BH465850	1 m DC SSD Rail/Bus Bar 140A (UL)		
	BC465938U200	200 mm Insulator for DC Bus Bars		
	BA469216	Grounding Bus Bar 1m (CS/CD only)		

Assembly Kit

Part Number	Description
BA465900	Clips for Fitting on DIN rail
BA465887	Control Cable Support
BA465888	Supply Cable Support
8905/DUCTKIT/190	Duct Kit (1 m Exhaust Duct for Frames B, C, and D + 1 Fan Kit Rated at 190 CFM)

OPTIONS

Feedback

Part Number	Description	
8902/E1/00/FF	EnDat 2.1 Encoder (SinCos, Heidenhain)	
8902/EQ/00/FF	Incremental Quadrature Encoder	
8902/HR/00/FF	Hiperface Encoder (SinCos, Stegmann)	
8902/RE/00/FF	Resolver	

Comms Options

		a barrier and a second a second and a second a second and
	Part Number	Description
	8903/FA/00/FF	FireWire 1394a Communication Module
	8903/DN/00/FF	DeviceNet Fieldbus Communication Module
	8903/PB/00/FF	ProfiBus Fieldbus Communication Module
	8903/CN/00/FF	ControlNet Fieldbus Communication Module
	8903/CB/00/FF	CanOpen Fieldbus Communication Module
	8903/EN/00/FF	Ethernet* Fieldbus Communication Module
,	'Available soon	

Keypad

Part Number	Description
6511	4-digit LCD Keypad*
6901	Alphanumeric Multilingual Keypad**
6502	Remote Mounting Kit for 6901 Keypad Including 3m Cable

^{*} Standard Equipment for sizes B/C/D

Firewire Repeaters

Part Number	Description	24.
LA471480	Firewire Repeater 100Mb/100ft	

INTERNATIONAL STANDARDS

Conforms to EC Directive 89/336/EEC in compliance with standard: - EN61800-3 (Environment 2)
Conforms to EC Directive 73/23/EEC in compliance with standard:

- EN50178 (Low Voltage)

Complies with UL508C safety standard









6901

EMC Filters	P. 32
Line Reactors	P. 33
Braking Resistors	P. 16
DSE Programming Software	P. 50

Tel: (704) 588-3246 Fax: (704) 588-3249

^{*}Standard Equipment for sizes E/F/G/H/J/K

890 Braking Resistor KitsNEMA ICS 3-301.62 Dynamic braking stop option. Min. 100% flt from base speed with 6X motor inertia and 4 stops per hour. Includes the overload, protective cage and enclosure top or panel mounting.

230V

Frame	CT HP	VT HP	Part Number	Ohms	Amps	Watts	LxWxH
890 CS							
B1	10		LA471377	20	4.3	370	13.5x4x5
B2	20		LA471378	10	8.7	757	13.5x7x5
D1	40		LA471379	6	13.7	1126	13.5x10x5
D2	60		LA471380	4.0	19.4	1505	13.5x13x5
890 SD							
В	1	the state of the s	LA471355	200	0.71	100	6.5x1x1.6
В	2	-	LA471356	100	1	100	6.5x1x1.6
В	3	-	LA471358	56	1.9	200	6.5x1.2x2.4
В	5	-	LA471385	25	3.9	380	13.5x4x5
C	7.5	10	LA471385	25	3.9	380	13.5x4x5
C	10	15	LA471386	15	5.0	375	13.5x4x5

	460V							
	Frame	CT HP	VT HP	Part Number	Ohms	Amps	Watts	LxWxH
	890 CS							
ġ,	B1	25		LA471349	40	4	740	13.5x7x5
	B2	45		LA471350	22.5	7.1	1134	13.5x10x5
	D1	90		LA471351	12	11	1505	13.5x13x5
	D2	135		LA471352	9.0	15.8	2247	13.5x10x7.5
	890 SD							
	В	1		LA471353	500	0.35	60	4x1x1.6
	В	2		LA471355	200	0.71	100	6.5x1x1.6
	В	3		LA471355	200	0.71	100	6.5x1x1.6
	В	5		LA471356	100	,5° 1	100	6.5x1x1.6
	В	7.5		LA471357	100	1.4	200	6.5x1.2x2.4
	В	10		LA471358	56	1.9	200	6.5x1.2x2.4
	C Total	15		LA471359	56	3.0	500	13.2x1.2x2.4
	C	20		LA471361	30	5.0	750	13.5x7x5
	o [©] D	25		LA471361	30	5	750	13.5x7x5
	D	30		LA471362	25	5.5	756	13.5x7x5
	D	40		LA471350	22.5	7.1	1134	13.5x10x5
	E	50	60	LA471364	18	7.9	1123	13.5x10x5
	E nd	60	75	LA471365	15	8.7	1135	13.5x10x5
	F 4 th	75	100	LA471367	8	13.7	1502	13.5x13x5
	F	100	125	LA471367	8	13.7	1502	13.5x13x5
	o [∞] F	125	150	LA471369	6	19.4	2258	13.5x10x5
	F	150	-	LA471369	6	19.4	2258	13.5x10x5
	G	200	250	LA471370	3	39	4563	20x18x10
	G	250	300	LA471372	2.25	45	4556	20x18x10
	G	300	350	LA471372	2.25	45	4556	20x18x10
	Н	350	400	LA471375	1.50	55	4538	20x18x10
	Н	400	450	LA471375	1.50	55	4538	20x18x10
	≥ H	450	500	LA471375	1.50	55	4538	20x18x10
	J	500	550	LA471376	1.20	61	4465	20x18x10

Tel: (704) 588-3246 Fax: (704) 588-3249

I_{ABER} IN

T58000

DESCRIPTION

The TS8000 is a user-friendly, powerful graphical HMI touchscreen and much more. It seamlessly communicates to numerous peripheral devices including SSD Drive products, all the major PLC brands and many other motion control and instrumentation platforms. This is all possible with the standard RS-232, RS-485 and Ethernet communication ports as well as popular Fieldbus option cards. The TS8000 truly has a handle on all of your industrial automation control needs.

The TS8000 is available in a wide array of popular sizes: 3", 6", 8" and 10.4" for easy enclosure or operator console mounting.

MULTILINGUAL GRAPHICAL INTERFACE
PRE-ENGINEERED PROJECTS
BUILT-IN WEB SERVER
COMPACTFLASH CARD SLOT
INTEGRATED PROTOCOL CONVERSION
SOFTWARE AND PROGRAMMING CABLE INCLUDED





SPECIFICATIONS

Power Supply $24 \text{Vdc} \pm 20\%$ Operating Temperature $0-50^{\circ}\text{C}$ Degree of ProtectionIP66/NEMA 4

Touchscreen Resistive Analog

Operator Keypad Entry TS8003: 3" screen 8 prog. keys - 5 navigation - 12 numeric - 7 dedicated

TS8006: 6" touchscreen and 5 programmable keys TS8008: 8" touchscreen and 7 programmable keys TS8010: 10" touchscreen and 8 programmable keys

Memory Card CompactFlash Type I or Type II cards

Communication Ports

Programming USB 1.1 Type B Connection Programming Serial RS232 via RJ12

Communication Serial RS232 via RI12 - RS485 via RI45

Ethernet 10/100 Base-T - RJ45 connector



HMI FEATURES

Multilingual Interface Pre-Engineered Projects Library with over 4000 symbolsSupport for BMP, JPG, WMF graphic files Programming and Display in: Dutch German Database Graphical Trends English Italian Alarm Logs French Spanish Unicode* Support for: · Chinese (Traditional) Japanese Thai Chinese (Simplified) Others Available Korean **Application Diagram** 650 Series :: V/F Inverter :: Sensorless Inverter **Industrial PLC** 690Plus Series :: V/F Inverter Sensorless Inverter :: Vector Inverter T58000 is compatible with most :: AFE Regenerative Unit of the major industrial PLC brands, such as: :: ALLEN BRADLEY :: FESTO **GENERAL ELECTRIC** :: KLOCKNER MOELLER 890 Series :: V/F Inverter :: MATSUSHITA **MITSUBISHI** :: Sensorless Inverter :: Vector Inverter **MODICON** :: Brushless AC Servo **OMRON** :: AFE Regenerative Unit PLC DIRECT/KOYO **SIEMENS TELEMECANIQUE TOSHIBA** 637F Series :: Brushless AC Se 590Plus Series :: DC Converter 2/4 Quadrants

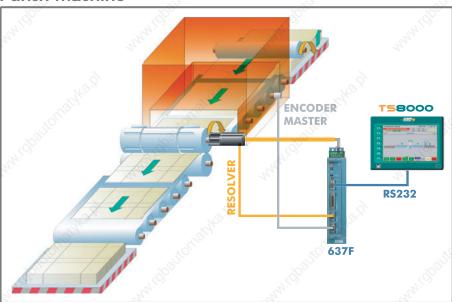
*All trademark names and associated marks are owned by their respective companies.

631 Series :: Brushless AC Servo

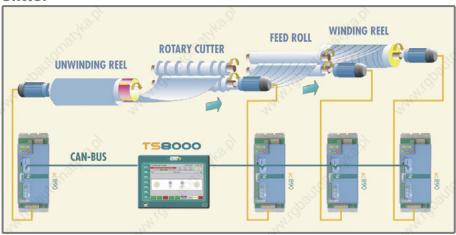
Tel: (704) 588-3246 Fax: (704) 588-3249

APPLICATIONS

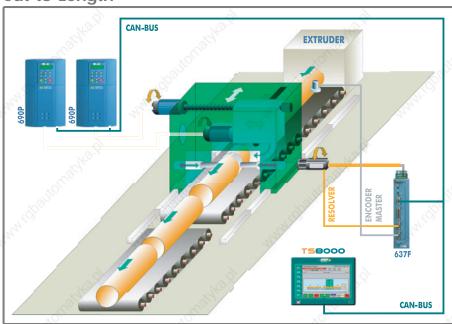
Punch machine



Slitter



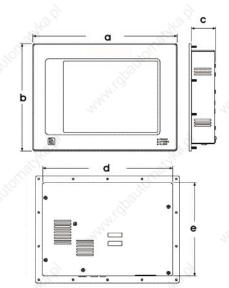
Cut-to-Length



DIMENSIONS AND WEIGHT

75, 74		70,000		
Model	TS8003	TS8006	TS8008	TS80010
Screen	3.5" FSTN	5.7" STN	7.7" DSTN	10.4" TFT
Colors	2	256	256	256
Pixels	128 x 64	320 x 240	640 x 480	640 x 480
a	7.45 (189.2)	8.83 (224.3)	10.32 (262.0)	12.83 (325.8)
b S	5.85 (148.6)	7.08 (179.8)	8.18 (207.8)	9.50 (241.3)
C	2.1 (52.0)	2.3 (58.4)	2.20 (56)	2.20 (56)
d d	6.04 (153.4)	7.42 (188.5)	8.91 (226.3)	11.55 (293.3)
е	4.44 (112.8)	5.67 (144)	6.77 (172.0)	8.27 (210.1)
Weight	1.96 (0.89)	3.00 (1.36)	3.84 (1.74)	5.53 (2.51)
*Dimensions in i	inches (mm) weight in l	hs (ka)		

^{*}Dimensions in inches (mm), weight in lbs. (kg.)



HMI TOUCHSCREEN

Part Number	Disc Code	1000	400	
8000/CB/00	CANopen Fieldbus Option Card	7/10	"Ito"	
8000/DN/00	DeviceNet Fieldbus Option Card			
8000/LK/00	Link RTN Fieldbus Option Card			
8000/FA/00	Firewire Fieldbus Option Card			
8000/PB/00	Profibus Fieldbus Option Card			
LA471103	TS8000 Launch Kit: TS8006, Doc. CD, Table Bracket, (Cables, Power Supply and Lit	The state of the s	
8000/0L/03	Protective Overlay Material - TS8003 (1 pack of 10)			
8000/0L/06	Protective Overlay Material - TS8006 (1 pack of 10)			
8000/0L/08	Protective Overlay Material - TS8008 (1 pack of 10)			
8000/0L/10	Protective Overlay Material - TS8010 (1 pack of 10)			

CUSTOM OEM OVERLAY OPTION

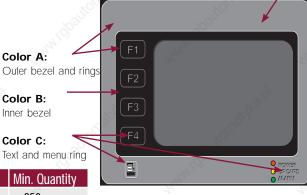
The custom OEM overlay option enables an OEM to quickly and easily customize the TS8000 to match your product or machine color scheme. You provide your 3 color choices from the PANTONE MATCHING SYSTEM, as shown in the graphic to the right, and in short order your have a customized TS8000. Please consult your sales representative for program details and restrictions.

No hassle COST EFFECTIVE QUICK TURNAROUND

OFM OPTIONS

OLIVI OI HOIVS		(0)
Part Number	Disc Code	Min. Quantity
TS8003/xx/00	MultiLine - TS8000 Series 3"	250
TS8006/xx/00	Touchscreen - TS8000 Series 6"	100
TS8008/xx/00	Touchscreen - TS8000 Series 8"	100
TS8010/xx/00	Touchscreen - TS8000 Series 10"	100

Product labels provided by the OEM/Customer



INTERNATIONAL STANDARDS

Complies with standards:

- EN61010-1
- EN61326
- EN55011 Class A

(€ °()r us Marked

DSI Proc	arammina	Software	

650/650V Series

V/F and Sensorless Inverter from 0.3 to 150HP

DESCRIPTION

The 650 series inverters provide basic speed control of standard three phase AC motors from 0.3 to 10 HP (0.25 to 7.5 Kw). They are full of useful features including preprogrammed applications - all designed to simplify set-up, installation and operation.

The 650V series inverters provide simple, no-fuss speed control of standard three-phase AC motors from 0.3 to 150 HP. Sensorless vector provides exceptional dynamic

With the 650 series you are in control of your application immediately - no complicated set-up procedures, no confusing menu navigation: just quick and easy operation straight from the box.

PRE-LOADED MACRO APPLICATIONS **BUILT-IN EMC FILTERS EXTREMELY SIMPLE SET-UP AND PROGRAMMING** REMOVABLE KEYPAD EXTREMELY COMPACT MOTOR THERMISTOR INPUT



SPECIFICATIONS

Single Phase 220-240Vac ±10% Three Phase 220-240Vac ±10% Supply

Three Phase 380-460Vac ±10%

0-40°C Operating Temperature

Altitude 1000m ASL (Derate 1%/100m between 1000 and 5000m max) Overload 150% for 30 seconds (heavy duty) 110% for 30 seconds (standard duty)

Output Frequency 0-240Hz IP20 Degree of Protection

Control V/F Control with linear or quadratic law

Sensorless Vector Control (650V)

650 Inputs/Outputs

2 total, 1 (0-10V) + 1 (4-20mA) Analog Inputs:

1 (OV/10V) Analog Outputs: Digital Inputs: 3 configurable (24V) Digital Relay Outputs: 1 configurable Digital Inputs or Outputs:

1 configurable (24V)

Motor Thermistor Input:

650V Inputs/Outputs

Analog Inputs: 2 total, 1 (0-10V) + 1 (4-20mA)

1 (OV/10V) Analog Outputs:

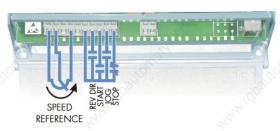
Digital Inputs: 5 configurable (24V), 2 for encoder input

Relay Digital Outputs: 1 configurable Digital Inputs or Outputs: 2 configurable (24V)

Motor Thermistor Input:

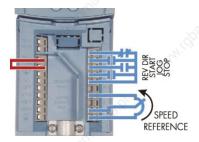
Reference Supplies

Digital I/O: 24Vdc (50mA) Analog I/O: 10Vdc (10mA)



Frames C/D/E/F





USER FRIENDLY

- No language to learn
- Simplified menu, displaying only key parameters
- Programmable software with remote keypad option

Programming

Keypad 6511 is used for inverter configuration and control. The keypad includes a 4-digit backlit LCD display, depicting:

- Motor rotation and direction indicator
- Local/Remote operating Indicator
- Diagnostic or Parameter Indicator
- Units of measurement

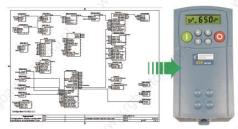
The standard keypad mounted on the inverter is removable; it comes with remote mounting on panel board (up to 3m max. distance) as an option. The 650V also includes a P3 port that can be used for programming the inverter with CELite software.



Select from 5 pre-loaded applications to automatically configure inputs/outputs and adapt the parameter list of the drive:





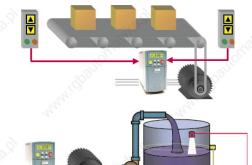




Basic Speed Control: voltage or current speed reference with digital start/stop and direction.



Preset Speed: select up to 8 pre-programmed speed references using digital input combinations.



Increase/Decrease: increase and decrease speed via digital inputs.



Manual/Auto Control: switch between a local and a remote speed reference signal.

PID Control: control pressure, flow, temperature and other variables by monitoring the feedback transducer.

		2	
	2		
-		U	
7	7	1	

 20			
Part Number	Frame	Power in HP Heavy (Standard) Duty	Current in A Heavy (Standard) Duty
+650(V)/00F3/230/SNN*	"THIS	0.3	1.5
+650(V)/00F5/230/SNN*	7h2	0.5	2.2
+650(V)/00F7/230/SNN*	1	0.75	3
+650(V)/0001/230/SNN*		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4
+650(V)/0002/230/SNN*	2	2	7
+650(V)/0003/230/SBN	2 1/10	3	9.6
+650(V)/0005/230/SBN	3	5	16.4
650V/0007/230/1BN	"Talay.	7.5 (10)	22 (28)
650V/0010/230/1BN	C	10 (15)	28 (42)
650V/0015/230/1BN		15 (20)	42 (54)
650V/0020/230/1BN	D	20 (25)	54 (68)
650V/0025/230/1BN		25 ()	68 ()
650V/0030/230/1BN	Early	30 (40)	80 (104)
650V/0040/230/CBN	7/0	40 (50)	104 (130)
650V/0050/230/CBN	and F	50 (60)	130 (154)
650V/0060/230/CBN		60 (75)	154 (192)

650/650V Series 380-460Vac Three Phase Controllers

Part Number	Frame	Power in HP Heavy (Standard) Duty	Current in A Heavy (Standard) Duty
+650(V)/00F5/460/SBN	180	0.5	1.5
+650(V)/00F7/460/SBN	222,	0.75	2
+650(V)/0001/460/SBN	2	1	2.5
+650(V)/0002/460/SBN		2	4.5
+650(V)/0003/460/SBN		3	5.5
+650(V)/0005/460/SBN	S. S.	5	9
+650(V)/0007/460/SBN	3	7.5	12
+650(V)/0010/460/SBN	775	10	16
650V/0015/460/1BN		15 (20)	23 (27)
650V/0020C/460/1BN	С	20 (25)	27 (34)
650V/0025/460/1BN		25 (30)	38 (45)
650V/0030/460/1BN	D	30 (40)	45 (52)
650V/0040D/460/1BN	70x	40 (50)	52 (65)
650V/0050/460/1BN	7020	50 (60)	73 (87)
650V/0060/460/1BN	W/E	60 (75)	87 (105)
650V/0075/460/CBN	22,	75 (100)	100 (125)
650V/0100/460/CBN		100 (125)	130 (156)
650V/0125/460/CBN	F	125 (150)	156 (180)
650V/0150/460/CBN		150 ()	180 ()

^{*} Single-phase supply only and no brake switch

+ (V) To be added to Part Number for the Sensorless version Note: Overload values: 150% Heavy Duty for 30 seconds 110% Standard Duty for 30 seconds

INDUSTRIAL TECHNOLOGIES (PHONE) 877-40 FABER \diamond 877-403-2237 \diamond www.faberinc.com

ODU Braking Kesistor Kits

NEMA ICS 3-301.62 Dynamic braking stop option. Min. 100% flt from base speed with 6X motor inertia and 4 stops per hour. Includes the overload, protective cage and enclosure top or panel mounting.

230V

HP HP 3 3 - LA471358 56 1.9 202 6.5x1 3 5 - LA471358 56 1.9 202 6.5x1 C 7.5 10 LA471406 30 3.5 368 13.5 C 10 15 LA471406 30 3.5 368 13.5 D 15 20 LA471386 15 5.0 375 13.5 D 20 25 LA471378 10.0 8.7 757 13.5 D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	230V							
3 5 - LA471358 56 1.9 202 6.5x1 C 7.5 10 LA471406 30 3.5 368 13.5 C 10 15 LA471406 30 3.5 368 13.5 D 15 20 LA471386 15 5.0 375 13.5 D 20 25 LA471378 10.0 8.7 757 13.5 D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	Frame			Part Number	Ohms	Amps	Watts	LxWxH
C 7.5 10 LA471406 30 3.5 368 13.5 C 10 15 LA471406 30 3.5 368 13.5 D 15 20 LA471386 15 5.0 375 13.5 D 20 25 LA471378 10.0 8.7 757 13.5 D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	3	3		LA471358	56	1.9	202	6.5x1.2x2.4
C 10 15 LA471406 30 3.5 368 13.5 D 15 20 LA471386 15 5.0 375 13.5 D 20 25 LA471378 10.0 8.7 757 13.5 D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	3	5	9-	LA471358	56	1.9	202	6.5x1.2x2.4
D 15 20 LA471386 15 5.0 375 13.5 D 20 25 LA471378 10.0 8.7 757 13.5 D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	C	7.5	10	LA471406	30	3.5	368	13.5x4x5
D 20 25 LA471378 10.0 8.7 757 13.5 D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	C	10	15	LA471406	30	3.5	368	13.5x4x5
D 25 x LA471378 10.0 8.7 757 13.5 E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	D	15	20	LA471386	15	5.0	375	13.5x4x5
E 30 40 LA471407 7.0 10.40 757 13.5 F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	D	20	25	LA471378	10.0	8.7	757	13.5x7x5
F 40 50 LA471379 6 13.7 1126 13.5 F 50 60 LA471380 4.0 19.4 1505 13.5	D	25	X A	LA471378	10.0	8.7	757	13.5x7x5
F 50 60 LA471380 4.0 19.4 1505 13.5	E	30	40	LA471407	7.0	10.40	757	13.5x7x5
	F	40	50	LA471379	6	13.7	1126	13.5x10x5
F 60 75 LA471380 4.0 19.4 1505 13.5	S.F.	50	60	LA471380	4.0	19.4	1505	13.5x13x5
	χοΓ [™] F	60	75	LA471380	4.0	19.4	1505	13.5x13x5
460V	44014							

460V

Frame	Heavy Duty HP	Standard Duty HP	Part Number	Ohms	Amps	Watts	L x W x H
2	0.5	0.50	LA471353	500	0.3	60	4x1x2
2	0.75	0.75	LA471353	500	0.3	60	4x1x2
2	1 1	1.00	LA471353	500	0.3	60	4x1x2
2	1.5	2	LA471353	500	0.3	60	4x1x2
2	2	2	LA471355	200	0.7	100	6.5x1x2
2	3	3	LA471355	200	0.7	100	6.5x1x2
3	5	5	LA471356	100	1.0	100	6.5x1x1.6
3.0	7.5	7.5	LA471357	100	1,02	200	6.5x1.2x2.4
3	10	10	LA471358	56	2	200	6.5x1.2x2.4
C C	15	20	LA471359	56	3	500	13.2x1.2x2.4
С	20	25	LA471405	60	3.5	735	13.5x7x5
D	25	30	LA471361	30	5	750	13.5x7x5
D	30	40	LA471361	30	5	750	13.5x7x5
D	40	50	LA471350	22.5	7.1	1134	13.5x10x5
E&	50	60	LA471364	18	7.9	1123	13.5x10x5
E E	60	75	LA471365	15	8.7	1135	13.5x10x5
J ^{ijo} F	75	100	LA471367	8	13.7	1502	13.5x13x5
F	100	125	LA471367	8	13.7	1502	13.5x13x5
F	125	150	LA471369	6	19.4	2258	13.5x10x5
F	150	-	LA471369	6	19.4	2258	13.5x10x5

Dimensions and Weight

Frames 1, 2, 3



Frames C, D, E, F



Frame	Н	W	D Salahari	Weight		
1	5.6 (143)	2.9 (73)	5.6 (142)	2.0 (0.85)		
2	7.9 (201)	2.9 (73)	6.8 (173)	3.0 (1.4)		
3	10.2 (260)	3.8 (96)	7.9 (200)	6.0 (2.7)		
С	13.7 (348)	7.9 (201)	8.1 (208)	20 (9.3)		
D	17.8 (453)	9.9 (252)	9.6 (245)	38 (17.4)		
E S	26.3 (668)	10.1 (257)	12.2 (312)	72 (32.5)		
F _e gl ^{er}	28.9 (720)	10.1 (257)	14.0 (355)	92.4 (41)		

All dimensions are in inches (mm). Weight is in lbs. (kg).

OPTIONS

Part Number	Description	10	
6901	Alphanumeric Operator Panel		
6052	Remote mount Kit for removable operator panel for 650V C/D/E/F · (3m cable inc	cluded)	
6511/RS232/00	Remote mounted keypad (Frames 1-3)		
6513/00	Serial communications techbox RS-485 (Frames 1-3)		
6514/00	Cloning Module		

INTERNATIONAL STANDARDS

Conforms to EC Directive 89/336/EEC in compliance with standard:

- EN61800-3

Conforms to EC Directive 73/23/EEC in compliance with standard:

- EN50178 (Low Voltage)

Complies with UL508C safety standards





EMC Filters	P. 32
Line Reactors	P. 33
Braking Resistors	P. 24
Programming Software	P. 52

690+ Series Integrator

V/F, Sensorless, Vector Inverter from 1 to 1600 HP

DESCRIPTION

The 690+ Series is a single range of AC drives designed to meet the requirements of all variable speed applications from simple single motor speed control through the most sophisticated integrated multi-drive systems. The heart of the 690+ is a highly advanced 32-bit microprocessor-based motor control model which provides exceptional dynamic performance. Add a host of communications and control options to tailor the drives to meet your exact requirements.



4-MODE INVERTER: V/F, SENSORLESS VECTOR, FLUX VECTOR, LINE REGENERATIVE

SET-UP, PROGRAMMING AND COMMUNICATION PROTOCOLS IN COMMON WITH 590+ SERIES INTEGRATOR

FUNCTION BLOCK PROGRAMMING

BUILT-IN EMC FILTERS TORQUE AT ZERO SPEED

SPECIFICATIONS

Supply

Single phase 220-240Vac ±10% Three phase 220–240Vac ±10% Three phase 380-460Vac ±10%

Operating Temperature

Three phase 380–500Vac $\pm 10\%$ (from 2.2 to 90kW by request) Heavy duty 0–45°C (40°C with IP40 protection) (Derate 2%/°C up to 50°C max) Standard duty 0-40°C (35°C with IP40 protection) (Derate 2%/°C up to 50°C max)

1000m ASL (Derate 1%/100m between 1000 and 5000m max)

Altitude **Overload**

Heavy duty: 150% for 60 seconds

Standard duty: 110% for 60 seconds Output frequency 0-1000Hz

Degree of protection Inputs/Outputs

IP20 (Sizes G/H/J IP00)

Analog Inputs:

4 total, 2 configurable (0-10V, ±10V, 0-20mA, 4-20mA)

2 configurable (0-10V, ±10V)

Analog Outputs:

3 total, 1 configurable (0-10V, ±10V, 0-20mA, 4-20mA)

2 configurable (0-10V, ±10V)

Digital Inputs:

7 configurable (24V)

Relay Digital Outputs:

3 configurable

Motor Thermistor Input:

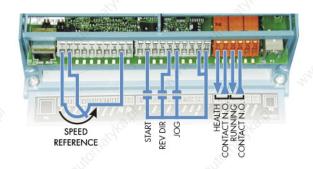
Reference supplies

Digital I/O: 24Vdc (150mA)

Analog I/O: +10Vdc, -10Vdc (10mA)

Auxiliary supply (only sizes F-K)

110Vac ±10% (on request 220Vac ±10%)

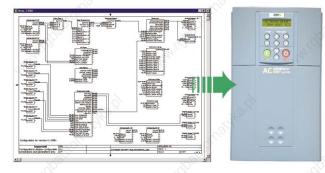


ABER

FUNCTION BLOCK PROGRAMMING

Function Block Programming is a tremendously flexible control structure that allows an almost infinite combination of user functions to be realized with ease. Each control function (an input, output, process PID for example) is represented as a software block that can be freely interconnected to all other blocks to provide any desired action.

The drive is dispatched with the function blocks preconfigured as a standard AC drive so you can operate it straight from the box without further adjustments. Alternatively you can pick pre-defined Macros or even create your own control strategy, often alleviating the need for an external PLC.



FUNCTION BLOCKS INCLUDE:

-Inputs -Brake Control
-Outputs -Auto Restart
-Ramps -Spinning Load Start

-Encoder -Custom Screens -Raise/Lower -Trip History -Skip Frequencies -Password

-Process PID -Value Functions -Local/Remote -Logic Functions

STANDARD MACROS:

- -Basic Speed Control
- -Forward/Reverse
- -Raise/Lower
- -Process PID
- -Preset Speeds
- Winder Control

6901 KEYPAD

The 6901keypad is designed for programming and controlling the inverter quickly and easily. Its back-lit, 32-digit alphanumeric display with ergonomic keys provides access to all functions in a logical menu.

Features:

- Mounting on the 690+ or remote panel mounting
- Local control of running, speed and direction
- Customized menu and parameters
- Password and function lockout
- Quick setup menu



Multilingual

English · French · German · Spanish · Italian · Polish · Portuguese · Swedish

Quick Setup

Preloaded application macros to avoid complex configurations for simple applications

Autotune

Automatic survey of motor data necessary to obtain the maximum performance

Customized Display

Customized screens with engineering units for specific applications

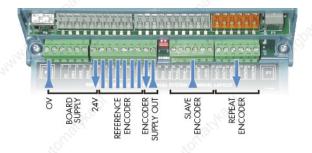
Internal Links

Interconnecting function blocks

Systems Board Expansion

This expansion module includes functions for phase control and register control. Installed inside the 690+ behind the control board, it adds to the inverter:

- 5 Additional configurable digital inputs/outputs
- 2 Additional encoder Inputs
- 2 High-speed register inputs
- Upgrade of analog input resolution (from 10 to 12 bit + sign)



690+ Series

590+ Series							
Double	Heavy Duty		Stand	ard Duty	Frame	Built-in	Built-in Brake
Part Number -	HP	Output Current (A)	HP	Output Current (A)	Frame	Reactor	Switch
220-240 (±10%) Vac Suppli	ies– Single Ph	nase and Three Pha	se	9		9	
690+0001/230/*	1 3	4	- 3	e -		- >^	YES
690+0002/230/*	2	7	- Clar	_	Page,	_	YES
690+0003/230/*	3	10.5	Malle -	_	В	_	YES
690+0005/230/	5	16.5	o), _				YES
690+0007/230/	7.5	22	10	28	С	DC	YES
690+0010C/230/	10	28	15	42	C	DC	YES
690+0015/230/	15	42	20	54		DC	Optional
690+0020/230/	20	54	25	68	D	DC	Optional
690+0025/230/	25	68	, e ⁽⁽⁾⁾	-	2000	DC	Optional
690+0030/230/	30	80	40	104	√g [™] E	AC	Optional
690+0040/230/	40	104	50	130		AC	Optional
690+0050/230/	50	130	60	154	F	AC	Optional
690+0060/230/	60	154	75	192	Г	AC	Optional
690+0060/230/	60	154	75	192	N ²	AC	Optional
380-460 (±10%) Vac Suppli	ies- Three Ph	ase	18 July 18		Sept.		Capp.
690+0001/460/	119	2.5	1,51	-		-	YES
690+0002/460/	2° 2	4.5	90,0	_		_	YES
690+0003/460/	3	5.5	_	- 1212	n	25	YES
690+0005/460/	5	9.5	_	- 1,	В	- 1,	YES
690+0007/460/	7.5	11	_	ò -		ò -	YES
690+0010B/460/	10	14	- 3			-	YES
690+0015/460/	15	21	20	27		DC	YES
690+0020C/460/	20	27	25	34	C	DC	YES
690+0025/460/	25	38	30	45	9	DC	Optional
690+0030/460/	30	45	40	52	D	DC	Optional
690+0040D/460/	40	52	50	65		DC	Optional
690+0050/460/	50	73	60	87	- /	AC	Optional
690+0060/460/	60	87	75	105	E TH	AC	Optional
690+0075/460/	75	100	100	125		AC	Optional
690+0100/460/	100	130	125	156	70317.	AC	Optional
690+0125/460/	125	156	150	180	S F	AC	Optional
690+0150/460/	150	180		472		AC	Optional
690+0175/460/	175	216	200	260		External	Optional
690+0200/460/	200	250	250	302	N.º	External	Optional
690+0250/460/	250	316	300	361	G	External	Optional
690+0300/460/	300	361	350	420		External	Optional
690+0400/460/	400	480	450	545	900	External	Optional
690+0450/460/	450	520	500	590	Н	External	Optional

Table continued on page 29

S		
	9	
(<i>C</i>		

	Heavy	Duty	Standa	rd Duty			Built-in Brake
Part Number -	HP	Output Current (A)	HP	Output Current (A)	Frame	Built-in Reactor	Switch
380-460 (±10%) Vac Suppli	es– Three Phase	(continued from p	age 28)		7/2		No.
690+0500/460/	500	590	550	650	J	External	Optional
690K0600/460/2G**	600	685	700	798		AC	Optional
690K0700/460/2H**	700	798	800	912		AC	Optional
690K0800/460/2H**	800	988	900	1120		AC	Optional
690K0900/460/3G***	900	1028	1000	1197	K	AC	Optional
690K1000/460/2J**	1000	1120	1100	1235	×	AC	Optional
690K1000/460/3H***	1000	1197	1200	1368		AC	Optional
690K1300/460/3H***	1300	1482	1500	1681		AC	Optional
690K1500/460/3J***	1500	1681	1600	1852		AC	Optional

^{*}Add a '-1' suffix for controllers using a single-phase supply
**Two parallel stacks
***Three parallel stacks

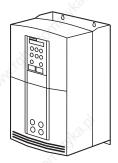
150% Heavy Duty for 1 minute 110% Standard Duty for 1 minute Note: Overload values:

Frame	Overall Dimensions					
Traine	Н	W	D NO			
В	9.17 (233)	6.95 (176.5)	7.15 (181)			
C	13.70 (348)	7.91 (201)	8.19 (208)			
D	17.80 (453)	9.92 (252)	9.65 (245)			
Ř E	26.30 (668)	10.10 (257)	12.30 (312)			
F a	28.30 (720)	10.10 (257)	14.0 (355)			
G	41.00 (1042)	17.90 (456)	18.30 (465)			
H XXX	46.30 (1177)	22.50 (572)	18.30 (465)			
	50.70 (1288)	26.60 (677)	18.30 (465)			
K*	79.00 (2007)	128.00 (3251)	24.00 (610)			
K**	79.00 (2007)	144.00 (3658)	24.00 (610)			

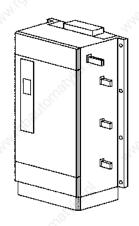
Dimensions are in inches (mm)

K-frame dimensions include modified NEMA 12 ventilated enclosures with flange disconnect

Frames B/C/D/E/F



Frames G/H/J



^{* 6-}Pulse input (12-pulse optional) ** 6-Pulse input (18-pulse optional)

690+ Braking Resistor KitsNEMA ICS 3-301.62 Dynamic braking stop option. Min. 100% flt from base speed with 6X motor inertia and 4 stops per hour. Includes the overload, protective cage and enclosure top or panel mounting.

230V

Frame	Heavy Duty HP	Standard Duty HP	Part Number	Ohms	Amps	Watts	L x W x H
В	1	13.0	LA471358	56	1.9	202	6.5x1.2x2.4
В	2	3/2	LA471358	56	1.9	202	6.5x1.2x2.4
В	3	-	LA471358	56	1.9	202	6.5x1.2x2.4
В	5	-	LA471358	56	1.9	202	6.5x1.2x2.4
C	7.5	10	LA471406	30	3.5	368	13.5x4x5
C	10	15	LA471406	30	3.5	368	13.5x4x5
D	15	20	LA471386	15	5.0	375	13.5x4x5
D	20	25	LA471378	10.0	8.7	757	13.5x7x5
D	25	X	LA471378	10.0	8.7	757	13.5x7x5
E E	30	40	LA471407	7.0	10.40	757	13.5x7x5
F	40	50	LA471379	6	13.7	1126	13.5x10x5
F	50	60	LA471380	4.0	19.4	1505	13.5x13x5
F	60	75	LA471380	4.0	19.4	1505	13.5x13x5

460V

-	100 V							
3	Frame	Heavy Duty HP	Standard Duty HP	Part Number	Ohms	Amps	Watts	LxWxH
1	В	1	1	LA471356	100	1	100	6.5 x 1 x 1.6
	В	2	2	LA471356	100	1	100	6.5 x 1 x 1.6
	В	3	3	LA471356	100	1	100	6.5 x 1 x 1.6
	В	5	5	LA471404	100	1.9	361	13.5x4x5
	В	7.5	7.5	LA471404	100	1.9	361	13.5x4x5
	В	10	10	LA471404	100	1.9	361	13.5x4x5
3	C	15	20	LA471359	56	3.0	500	13.2x1.2x2.4
	C	20	25	LA471405	60	3.5	735	13.5x7x5
	D	25	30	LA471361	30	5	750	13.5x7x5
	D	30	40	LA471361	30	5	750	13.5x7x5
	D 👌	40	50	LA471350	22.5	7.1	1134	13.5x10x5
	₩E.	50	60	LA471364	18	7.9	1123	13.5x10x5
	€ E	60	75	LA471365	15	8.7	1135	13.5x10x5
Ş	F	75	100	LA471367	8	13.7	1502	13.5x13x5
	F	100	125	LA471367	8	13.7	1502	13.5x13x5
	F	125	150	LA471369	6	19.4	2258	13.5x10x5
	F	150	-	LA471369	6	19.4	2258	13.5x10x5
	G	200	250	LA471370	3	39	4563	20x18x10
	G	250	300	LA471372	2.25	45	4556	20x18x10
	G	300	350	LA471372	2.25	45	4556	20x18x10
Ì	Н	350	400	LA471375	1.50	55	4538	20x18x10
	Н	400	450	LA471375	1.50	55	4538	20x18x10
	Н	450	500	LA471375	1.50	55	4538	20x18x10
ĺ	J	500	550	LA471376	1.20	61	4465	20x18x10

Tel: (704) 588-3246 Fax: (704) 588-3249

COMMUNICATION OPTIONS

The Technology Box allows 690+ to integrate with different Fieldbus protocols.

- LINK
- DeviceNet
- ControlNet
- ProfiBus
- ModBus RTU
- Ethernet
- CANopen
- LonWorks
- El Bisynch/RS422/RS485



Pa	art Number	Description	
6901/00		Keypad 6901	
	6052/00	Remote mounting Kit for operator panel 6901 (3m cable included)	
690+- Size B	690+ - Other sizes	Communication Technology Box	
6053/PROF/00	6055/PROF/00	Profibus	
6053/EI00/00	6055/EI00/00	Modbus/RS422/RS485/El Bisynch	
6053/LINK/00	6055/LINK/00	Link	
6053/DEV/00	6055/DEV/00	DeviceNet	
6053/CNET/00	6055/CNET/00	ControlNet	
6053/CAN/00	6055/CAN/00	CanOpen CanOpen	
6053/LON/00	6055/LON/00	LonWorks	
6053/ENET/00	6055/ENET/00	Ethernet	
AH467489U001	Standard	P3 port for 5703/1	
690+- Size B	690+ - Other sizes	Feedback Technology Box	
LA467461	6054/HTTL/00	Encoder HTL	

INTERNATIONAL STANDARDS

Conforms to EC Directive 89/336/EEC in compliance with standard:

- EN61800-3

Conforms to EC Directive 73/23/EEC in compliance with standard:

EN50178 (Low Voltage)

Complies with UL508C safety standards





Marked

EMC Filters	P. 32
Line Reactors	P. 33
Braking Resistors	P. 30
Programming Software	P. 52

VES

AC

EMC Filters

DESCRIPTION

A Range of custom designed optional EMC (Electromagnetic Compatibility) filters are available for use with the Parker SSD Drives product range. These have been carefully designed to provide cost effective and easily implemented solutions for a variety of standard installations.





SPECIFICATIONS

Operating temperature

0-40°C

Part Number	Rating	Filter Part Number	Filter Style Mounting Kit	IP40 Wall	Emission Standard	Max. Cable Length
AC Drive Filters	200	2017	X	Carlotte Contraction of the Cont	200	5
650/650V (200v)	Frame 1, 2,& 3	Order with Drive	INT	_	В	25m
650/650V (400v)	Frame 1, 2,& 3	Order with Drive	INT	-	Α	25m
605/690+	Frame A & B	Order with Drive	INT		В	25m
Filters for ONLY Grounded	Neutral (TN) AC suppli	es up to 460V				
650V/690+	Frame C	CO465513U036	FP	BA465514U036	В	50m
650V/690+	Frame D	CO465513U070	FP	BA465514U070	В	50m
650V/690+	Frame E	CO465513U105	FP	BA465514U105	B	50m
650V/690+	Frame F	CO465513U215	FP	_	В	50m
Filters for Grounded Neut	ral (TN) or Ungrounded	(IT) AC supplies up to 480	V		The same	
650V/690+	Frame C	C0465515U036	FP	BA465514U036	A	50m
650V/690+	Frame D	C0465515U070	FP	BA465514U070	Α	50m
650V/690+	Frame E	C0465515U105	FP	BA465514U105	Α	50m
650V/690+	Frame F	C0465515U215	FP	7101 -	Α	50m
690+	Frame G	C0464517	MOD	50	A S	300m
690+	Frame H	CO464517 (2X)	MOD	_	A	300m
690+	Frame J	C0464517 (2X)	MOD	_	Α	300m

^{*} External filters available for cable runs longer than those specified

Please refer to your local sales office for details of EMC filters > 800A

The 590+ filters must be used in conjunction with the appropriate 2% impedance AC line reactor

INT = *Internal Filter, factory installed within the drive module.*

FP = Space saving Footprint Filter that fits behind the drive.

MOD = Module filter that must be mounted adjacent to the drive.

Emission Standard A = EN55011 Class A (Industrial EMC environment of EN50081-2)

Emission Standard B = EN55011 Class B (Residential, commercial and light industrial EMC environment of EN50081-1)

Tel: (704) 588-3246 Fax: (704) 588-3249

DESCRIPTION

Line reactors are used for reducing the harmonics of the supply current and protecting the inverter input stage from possible voltage peaks on the power mains.

SPECIFICATIONS

Operating Temperature

40°C





Part Number	HP 💉	Amp	Description
C0470653	1 245	4	Reactor 3-phase 3.00 mh
C0353011	1.5	8	Reactor 3-phase 1.50 mh
C0353011	2	8	Reactor 3-phase 1.50 mh
CO470638	3	12	Reactor 3-phase 1.25 mh
C0353012	5	18	Reactor 3-phase 0.80 mh
C0353013	7.5	25	Reactor 3-phase 0.50 mh
C0353014	10	35	Reactor 3-phase 0.40 mh
C0353015	15	45	Reactor 3-phase 0.30 mh
C0353016	20	55	Reactor 3-phase 0.25 mh
C0353017	25	80	Reactor 3-phase 0.20 mh
C0353017	30	80	Reactor 3-phase 0.20 mh
C0470654	40	100	Reactor 3-phase 0.15 mh
C0353018	50	130	Reactor 3-phase 0.10 mh
C0470058	60	160	Reactor 3-phase 0.075 mh
460V			

4	460V				
	Part Number	HP	Amp	Description	
	CO470650	g 1	2	Reactor 3-phase 12 mh	
	CO470651	2	4	Reactor 3-phase 6.50 mh	
	CO352782	3	8	Reactor 3-phase 5.00 mh	
	CO470652	5	8	Reactor 3-phase 3.00 mh	
	CO352783	7.5	12	Reactor 3-phase 2.50 mh	
	CO352785	10	18	Reactor 3-phase 1.50 mh	
	CO352786	15	25	Reactor 3-phase 1.20 mh	
	CO352901	20	35	Reactor 3-phase 0.80 mh	
	CO352901	25	35	Reactor 3-phase 0.80 mh	
	CO352902	30	45	Reactor 3-phase 0.70 mh	
	CO352903	40	55	Reactor 3-phase 0.50 mh	
	CO352904	50	80	Reactor 3-phase 0.40 mh	
	CO352904	60	80	Reactor 3-phase 0.40 mh	
	CO352905	75	100	Reactor 3-phase 0.30 mh	
	CO352906	100	130	Reactor 3-phase 0.20 mh	
	CO470057	125	160	Reactor 3-phase 0.15 mh	
	CO470045	150	200	Reactor 3-phase 0.11 mh	
	CO470046	200	250	Reactor 3-phase 0.09 mh	
	CO470047	250	320	Reactor 3-phase 0.075 mh	
	CO470048	300	400	Reactor 3-phase 0.06 mh	
	CO470049	350	500	Reactor 3-phase 0.05 mh	
	CO470049	400	500	Reactor 3-phase 0.05 mh	
	CO470050	500	600	Reactor 3-phase 0.04 mh	

Tel: (704) 588-3246 Fax: (704) 588-3249

Dimensions and Weight

Dilliciationa dila Weig	J			
Part Number	Height	Width	Depth	Weight
CO353010	3.1 (79)	6 (152)	4.8 (122)	8 (3.2)
CO353011	3.1 (79)	6 (152)	4.8 (122)	7 (3.1)
CO353012	3.1 (79)	6 (152)	4.8 (122)	9 (4.0)
CO353013	3.4 A(86)	7.2 (183)	5.6 (142)	11 (5.0)
CO353014	3.8 (97)	7.2 (183)	5.6 (142)	14 (6.3)
CO353015	4.8 (122)	9.0 (229)	7.0 (178)	23 (10)
CO353016	4.0 (102)	9.0 (229)	7.0 (178)	24 (11)
CO353017	5.6 (142)	10.8 (274)	8.2 (208)	43 (19)
CO353018	4.8 (122)	9.0 (229)	7.0 (178)	30 (14)
CO470650	2.8 (71)	4.4 (112)	4.0 (102)	4 (1.9)
CO470651	2.9 (72)	4.4 (112)	4.0 (102)	4 (1.9)
CO470652	3.1 (79)	6.0 (152)	4.8 (122)	7 (3.2)
CO470653	2.9 (72)	4.4 (112)	4.0 (102)	4 (1.9)
CO470654	5.6 (142)	10.8 (274)	8.2 (208)	47 (21)
CO353007	3.6 (92)	4.4 (112)	4.0 (102)	6 (2.7)
CO353009	3.4 (86)	6.0 (152)	3.4 (86)	13 (5.9)
CO352782	3.4 (86)	6.0 (152)	3.4 (86)	5.0 (11)
CO352783	3.1 (79)	6.0 (152)	4.8 (122)	10 (4.5)
CO352785	3.4 (86)	6.0 (152)	4.8 (122)	12 (5.4)
CO352786	3.4 (86)	7.2 (183)	5.6 (142)	14 (6.3)
CO352901	3.8 (97)	7.2 (183)	5.7 (145)	16 (7.3)
CO352902	4.8 (122)	9.0 (229)	7.0 (178)	28 (13)
CO352903	4.8 (122)	9.0 (229)	7.0 (178)	27 (12)
CO352904	5.6 (142)	10.8 (274)	8.3 (211)	51 (23)
CO352905	5.8 (147)	10.8 (274)	8.2 (208)	51 (23)
CO352906	5.8 (147)	10.8 (274)	8.4 (213)	58 (26)
CO470057	5.6 (142)	10.8 (274)	8.4 (213)	50 (22)
CO470045	6.3 (160)	10.8 (274)	8.4 (213)	67 (31)
CO470046	6.7 (170)	14.4 (366)	11.2 (284)	106 (45)
CO470047	6.7 (170)	14.4 (366)	11.2 (284)	125 (57)
CO470048	7.3 (185)	14.4 (366)	11.2 (284)	155 (71)
CO470049	7.8 (198)	14.4 (366)	11.3 (287)	180 (82)
CO470050	8.3 (211)	14.4 (366)	11.3 (287)	210 (96)

All dimensions are in inches (mm) and weights are in lbs. (kg)

506/507/508 Series

Single Phase Analog Converters 3 to 12A

DESCRIPTION

The 506/507/508 Series is an advantageous control method for smallsize DC motors. Available in 3, 6 and 12A sizes, with selectable supply powers between 110 and 230Vac, they are ideal for speed or torque control in wound field or permanent magnet DC motors.

COMPACT STRUCTURE **DEGREE OF PROTECTION IP20 DIN** RAIL MOUNTING SELECTABLE POWER SUPPLY 110V OR 230V TACHOGENERATOR OR ARMATURE FEEDBACK



DRIVE

SPECIFICATIONS

Supply **Operating Temperature** Degree of protection Field output Inputs/Outputs

2A

IP20

Analog Inputs Digital Inputs

1 configurable (24V)

Туре	Armature Current [Adc]	Input Voltage [Vac]	Armature Voltage [Vdc]	Field Voltage [Vdc]
506/03/120	3	110-120	90	100
506/03/240	3	220-240	180	210
507/06/120	, when	110-120	90	100
507/06/240	0	220-240	180	210
508/12/120	12	110-120	90	100
508/12/240	12	220-240	180	210

0-45°C, up to 1000m ASL without derating

110-120V (±10%), or 220-240V (±10%) single phase 50-60Hz (±5%)

Dimensions and Weight

Туре	Н	W	D	Weight
506			21 (70)	12 (0 ()
507	55 (140)	4.1 (104)	3.1 (79)	1.3 (0.6)
508			3.5 (89)	1.5 (0.7)

All dimensions are in inches (mm). Weight is in lbs. (kg).

OPTIONS

Part Number	Description	70	
LA054664	Fuse Kit for 506/507		
LA050062	Fuse Kit for 508		
LA464345U002	Setpoint isolator (0-10mA)		
LA464345U003	Setpoint isolator (4-20mA)		



INTERNATIONAL STANDARDS

Conforms to EC Directive 89/336/EEC according to standard:
- EN61800-3 (Environment 1 and 2 with external filter)
Conforms to EC Directive 73/23/EEC according to standard:

- EN50178 (Low Voltage)

Complies with UL508C safety standards

C C (UL)us Marked

EMC Filters	P. 43
Line Reactors	P. 44

512C Series

Single phase Analog Isolated Converters

4 to 32A

DESCRIPTION

512C Series non-regenerative converters with single phase AC supply offer speed or torque full control for wound field or permanent magnet DC motors. Isolated control circuitry and extremely linear speed and current loops make the 512C ideal for single and multi-motor applications.

ISOLATED CONTROL CIRCUITRY

SELECTABLE SUPPLY POWER 110V - 415V

CE MARKED - EMC CONFORMITY

MULTIPLE INPUTS FOR SPEED/CURRENT REFERENCE

DIGITAL OUTPUT FOR ZERO SPEED AND HEALTH

EXTREMELY LINEAR CONTROL LOOPS



SPECIFICATIONS

Supply **Operating Temperature**

Overload

Degree of protection

Field Output Inputs/Outputs

Analog Inputs

Analog Outputs

Digital Inputs Relay Digital Outputs 110-115V, 220-240V or 380-415V (±10%) selectable, single phase

0-40°C, up to 1000m ASL without derating

150% for 60 seconds

IPOO 3Adc

3 total 1 (OV/10V)

1 configurable (24V)

2 configurable

3	Part	Armature Current [Adc]	Input Voltage [Vac]	Armature Voltage [Vdc]	Field Voltage [Vdc]
ı	512C/040/120	4.	110 - 115	90	100
	512C/040/240	4	220 - 240	180	210
	512C/040/460		380 - 415	320	360
	512C/080/120		110 - 115	90	100
	512C/080/240	8	220 - 240	180	210
	512C/080/460		380 - 415	320	360
	512C/160/120		110 - 115	90	100
	512C/160/240	16	220 - 240	180	210
	5120/160/460		380 - 415	320	360
	5120/320/120		110 - 115	90	100
	5120/320/240	32	220 - 240	180	210
	512C/320/460		380 - 415	320	360

Dimensions and Weight

	- 100			
Type	Н	W	D	Weight
512C/040				3.3 (1.5)
512C/080	9.4 (240)	4 2 (140)	3.3 (90)	3.5 (1.6)
5120/160	9.4 (240)	6.2 (160)		3.3 (1.0)
512C/320			4.8 (130)	6.6 (3)

All dimensions are in inches (mm). Weight is in lbs. (kg).

INTERNATIONAL STANDARDS

Complies with EC Directive 89/336/EEC in compliance with standard:

- EN61800-3 (Environment 1 and 2 with external filter)

Complies with EC Directive 73/23/EEC in compliance with standard:

- EN50178 (Low Voltage)

Complies with UL508C safety standards





514C Series

Single phase Analog Isolated Regenerative Converters from 4 to 32A

DESCRIPTION

The range of 514C Series regenerative converters, with single phase AC supply, offers full four-quadrant control of wound field or permanent magnet DC motors. It is ideal for applications requiring accurate braking of high-inertia loads or their fast and precise deceleration. 514C Series and its non-regenerative version 512C have been designed to offer the ideal solution for speed control of single and multimotor applications.

on-regenerative version 512C seed control of single and multi-

FOUR-QUADRANT REGENERATIVE CONTROL
SELECTABLE SUPPLY 110V - 500V
CE MARKED - EMC CONFORMITY
INTEGRATED CONTACTOR CONTROL
MULTIPLE INPUTS FOR SPEED/CURRENT REFERENCE
EXTREMELY LINEAR CONTROL LOOPS

SPECIFICATIONS

Supply Auxiliary: 110/120Vac or 220/240Vac ±10% selectable

Power: 110-480Vac selectable

Operating Temperature 0-40°C

Altitude Up to 1000m ASL without derating

Overload 150% for 60 seconds

Degree of protection IPOO 3Adc Inputs/Outputs

Analog Inputs 5 total
Analog Outputs 4 (±10V)

Digital Inputs 3 total, 1 (10V) and 2 (10-24V)

Relay Digital Outputs 2

Part Number	Armature Current [Adc]	Input Voltage [Vac]	Armature Voltage [Vdc]	Field Voltage [Vdc]
514C/040/120			90	100
514C/040/240	4		180	210
514C/040/460			320	360
514C/080/120			90	100
514C/080/240	8		180	210
514C/080/460		110 - 480	320	360
514C/160/120		selectable	90	100
514C/160/240	16		180	210
514C/160/460			320	360
514C/320/120			90	100
514C/320/240	32		180	210
514C/320/460			320	360

Dimensions and Weight

Туре	Н	W	D	Weight	
514C/04					
514C/08	9.4 (240)	6.2 (160)	3.5 (89)	3.5 (1.6)	
514C/16	7.4 (240)	0.2 (100)			
514C/32	Tio.		4.8 (130)	6.6 (3)	

All dimensions are in inches (mm). Weight is in lbs. (kg).

INTERNATIONAL STANDARDS

Conforms to EC Directive 89/336/EEC in compliance with standard:

- EN61800-3 (Environment 1 and 2 with external filter)

Conforms to EC Directive 73/23/EEC in compliance with standard:

- EN50178 (Low Voltage)





DRIVE

590+ Integrator Series

DC Digital Converters from 15 to 2700A

DESCRIPTION

The Integrator Series is a single family of both AC drives (690+) and DC drives (590+) that provides the benefits of common programming, setup and communications across both technologies. The 590+ Integrator Series highly advanced DC drive meets the demands of the most complex motor control applications. Extensive application software (including winder control as standard) together with Function Block Programming and configurable I/O creates a total drive system in a single module.



COMMON PROGRAMMING, SETUP AND COMMUNICATION PROTOCOLS WITH 690+

DRV VERSION WITH BUILT-IN CONTACTOR AND FUSES

OPEN AND CLOSED LOOP WINDER/UNWINDER CONTROL AS STANDARD

RATINGS UP TO 2700A AND SUPPLY VOLTAGE UP TO 690V

FUNCTION BLOCK PROGRAMMING

BUILT-IN FIELD REGULATOR

SPECIFICATIONS

Power Supply

110-220V (±10%) Three phase 220–500V (±10%) Three phase 500–600V (±10%) Three phase 500–690V (±10%) Three phase

Operating Temperature

0-45°C (sizes from 15 to 270A); 0-40°C (sizes \geq 380A)

Altitude

Degree of protection Overload Inputs/Outputs

500m ASL (Derate 1%/200m from 500m to 5000m max)

IPOO (Size 1 IP20)

200% for 10 seconds, 150% for 30 seconds 5 Analog Inputs configurable (12 bit + sign)

3 Analog Outputs (10 bit + sign):

1 Armature current Output (±10V or 0–10V)

2 Configurable

9 Digital Inputs (24V, max 15mA)

- 1 Program Stop

- 1 Coast Stop

- 1 External Alarm

1 Start-Run

5 Configurable

3 Digital Outputs configurable

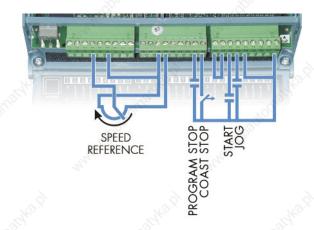
Reference supply

Digital I/O: 24Vdc (200mA)

Analog I/O: +10Vdc -10Vdc (10mA)

Auxiliary supply

110Vac ±10% (on request 220Vac ±10%)

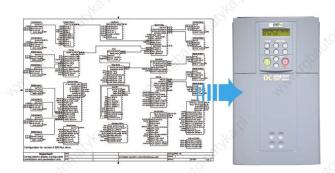


FUNCTION BLOCK PROGRAMMING

Function Block Programming provides a variety of functions:

PID Control
Calculation of diameter
Calculation of required speed
Calculation of compensation
Calculation of taper
Digital ramp
Preset speed

Interconnecting pre-configured functions allow complex speed control without need of external units.



DRV Version

DESCRIPTION

590+ Series introduces a new and radical approach in DC drive design: the DRV philosophy. All auxiliary power components are integrated inside each 590+ DRV unit: AC line contactor, AC line fuses, DC fuse (regenerative versions only), field fuses, optional motor blower starter and auxiliary voltage transformer. This type of construction allows great space saving inside control panels, reducing time and cost of wiring.







DRV

NO DRV

DRV

Part N	lumber	Nominal	Output (HP)	DRV Output	Controller Output	Frame	
DRV*	Controller **	230V Supply	460V Supply	Current (Amps)	Current (Amps)	10°	
955+8R0007	7/90,	3	7.5	15	7/1/20	1	
955+8R0020		10	20	35	-un-	1	
955+8R0030		15	30	55			
955+8R0040		20	40	70		\$	
955+8R0050	- 19/4°	25	50	90		2	
955+8R0060		30	60	110	-	S Z	
955+8R0075		40	75	125		>	
955+8R0100		50	100	165			
955+8R0125	590+243/500	60	125	206	243	3	
955+8R0150	390+2437300	75	150	243	243	3	
955+8R0200-D4	590+380/500	100	200	360	380	105	
955+8R0250-D4	590+500/500	125	250	425	500	201	
955+8R0300-D4	370+3007 300	150	300	490	500	4	
955+8R0400-D4	590+725/500	200	400	700	725		
955+8R0500-D4	590+830/500	250	500	815	830		
955+8R0600-D5		2, -	600	1000			
955+8R0700-D5	590+1580/500	-	700	1200	1580	5	
955+8R0800-D5	370+1300/300	-	800	1334	1300	30	
955+8R0900-D5		-	900	1500		Carlo.	
955+8R0600	590+1050/500	- 110	600	1050	1050	7a (N or R)	
955+8R0900	590+1450/500		900	1450	1450		
955+8R1000	590+2000/500		1000	1600	2000		
955+8R1000	3 7 0+2000/300		1250	2000	2000	7b (N or R	
955+8R1500	590+2400/500		1500	2400	2400	The same	
						20	

*Replace 'R' for regenerative with 'N' for non-regenerative; **Replace 590+ for regenerative with 591+ for non-regenerative Consult factory for 575, 660, 690 Vac part numbers and higher HP ratings.







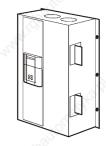
Frame 3



Frame 4



Frame 5



Frame 7

Dimensions and Weight

Difficitations di	ia weigin					
France		Controller			DRV	
Frame	Height	Width	Depth	Height	Width	Depth
1	- 35	_		14.7 (373)	77 (104)	9.0 (229)
2	- 10	-	10 ¹ -	21.5 (546)	7.7 (196)	11.6 (295)
3	19.7 (500)	9.8 (250)	6.7 (170)	25.25 (641)	17 (432)	9.13 (232)
4	27.4 (700)	10.0 (253)	14.2 (358)	37.75 (946.1)	21 (533.3)	15.11 (383.7)
5	27.6 (700)	20.0 (506)	14.2 (358)	54.25 (1378)	38 (965.1)	18.47 (469.2)
7aN	37.6 (955)	33.5 (851)	16.4 (417)	68 (1727.2)	60 (1524)	16 (406.4)
7aR	55.4 (1407)	33.5 (851)	16.4 (417)	68 (1727.2)	60 (1524)	16 (406.4)
7bN	37.6 (955)	33.5 (851	16.4 (417)	68 (1727.2)	60 (1524)	18 (457.2)
7bR	55.4 (1407)	33.5 (851	16.4 (417)	68 (1727.2)	60 (1524)	18 (457.2)

OPTIONS

Keypad 6901

Operator Panel 6901 is designed for programming and controlling the inverter quickly and easily. Its back-lit, 32 digit alphanumeric display with ergonomic keys provides access to all functions in a logical menu.

Mounting on the 590+ or remote panel mounting LOCAL CONTROL OF RUNNING, SPEED AND DIRECTION **CUSTOMIZED MENU PARAMETERS** Password function Lockout CONFIGURE DRIVE MENU



Multilingual

English · French · German · Spanish · Italian Polish · Portuguese · Swedish

Fast Setup

Preloaded application macros avoid complex configurations for simple applications

Autotune

Automatic survey of motor data necessary to obtain the maximum performance

Internal Link

Interconnecting function blocks

COMMUNICATION OPTIONS

The Technology Box allows 690+ to integrate with different Fieldbus protocols.

- LINK

ModBus

- DeviceNet

- ModBus Plus - CANopen

- ControlNet - ProfiBus

El Bisynch/RS422/RS485

- Ethernet

590+ DRV CONTROL TRANSFORMER

OPERATION WITH 208 THROUGH 500VAC SUPPLIES Mounts Inside the Frame 1 and 2 DRV's NOT NEEDED ON DRV'S ABOVE 100 HP (AT 500VDC)

To order: Add -CX to the 590+ DRV part number

BLOWER MOTOR STARTER

590+ DRV Blower Motor Starter option uses a manual motor circuit controller to provide motor overload and branch circuit protection for a single or three-phase AC blower motor. It mounts inside 590+ DRV DC Drives.

UL LISTING AND CSA CERTIFICATION Instantaneous Magnetic Short-Circuit Protection THERMAL OVERLOAD PROTECTION WITH ADJUSTABLE TRIP CURRENT SETTING START/STOP-RESET SWITCHING WITH "TRIPPED" PUSHBUTTON INDICATION NORMALLY - OPEN AUXILIARY CONTACT WIRED TO TERMINAL



Tel: (704) 588-3246 Fax: (704) 588-3249

DRIVES

A	10 ×	Part Number	
Amps	Frames 1 & 2	All Others	
0.16-0.25	955+BMS025	955-BMS250	
0.25-0.40	955+BMS040	955-BMS40	
0.40-0.63	955+BMS063	955-BMS630	
0.63-1.00	955+BMS100	955-BMS11	
1.00-1.60	955+BMS160	955-BMS161	
1.60-2.50	955+BMS250	955-BMS251	
2.50-4.00	955+BMS400	955-BMS41	
4.00-6.30	955+BMS630	955-BMS631	

ARMATURE VOLTAGE FEEDBACK UNIT 5590

This unit provides a means of isolating and attenuating motor armature voltage to levels compatible with drive input signals to give cost effective voltage feedback. It is designed specifically for use with analog drives.

SUITABLE FOR MOTOR VOLTAGES 100-550V IR COMPENSATION UP TO 11% DIN RAIL MOUNTING BI-DIRECTIONAL OPERATION TRIM OUTPUT POTENTIOMETER

Description	Part Number
Armature Voltage Feedback Unit	5590

DIAGNOSTIC UNIT 5570

An easy to use hand held diagnostic unit. The 5570 can be used in conjunction with the 514C and 5401 field controller. It gives access to 27 key test points on the drives, rapidly decreasing commissioning time and simplifying troubleshooting.

LCD AND LED READOUTS
ACCESS TO 27 TEST POINTS
OSCILLOSCOPE/RECORDER OUTPUT

0	Description	Part Number
	Diagnostic Unit	5570

THREE-PHASE LINE FILTER

The filter provides additional protection against spikes induced on the AC line by DC controllers on 460Vac systems. It is recommended when accessories (such as blower motors) are connected to the same main supply as the controller without isolation.

Description	Part Number
Three-Phase Line Filter	LA048357
Fusa Kit for Thron Dhasa Lina Filtor	I 17252027

EMC Filters

DESCRIPTION

A Range of custom designed optional EMC (Electromagnetic Compatibility) filters is available for use with the Parker SSD Drives product range. These have been carefully designed to provide cost effective and easily implemented solutions for a variety of standard installations.



DC Drive Filters Technical Specifications						
Part Number	Rating	Filter Part Number	Filter Style Mounting Kit	IP40 Wall	Emission Standard	Max. Cable Length
DC Drive Filters	ig.	200	, in the second	95	200	
506/507/508	3,6,12A	CO389115	FP	-	В	50m
512C/ 514C	4,8,16A	CO389113	FP		В	50m
512C/ 514C	32A	CO389114	FP	- 1447	В	50m
590+/955+	15A	CO467844U015	MOD	74	Α	50m
590+/955+	35,40A	CO467844U040	MOD	À .	Α	50m
590+/955+	70A	CO467844U070	MOD	143× -	A	50m
590+/955+	110A	CO467844U110	MOD	-	A	50m
590+/955+	165A	CO467844U165	MOD	-	A	50m
590+/955+	180A	CO388965U180	MOD	- (8	Α	50m
590+/955+	270, 360A	CO389456	MOD	- 222	Α	50m
590+/955+	450A	CO389456 (2X)	MOD	-	Α	50m
590+/955+	720, 800A	CO389456 (3X)	MOD	9 -	Α	50m

^{*} External filters available for cable runs longer than those specified

Please refer to you local sales office for details of EMC filters > 800A

The 590+ filters must be used in conjunction with the appropriate 2% impedance AC line reactor.

INT = *Internal Filter, factory installed within the drive module.*

FP = Space saving Footprint Filter that fits behind the drive.

MOD = Module filter that must be mounted adjacent to the drive.

Emission Standard A = EN55011 Class A (Industrial EMC environment of EN50081-2)

Emission Standard B = EN55011 Class B (Residential, commercial and light industrial EMC environment of EN50081-1)

Tel: (704) 588-3246 Fax: (704) 588-3249

Line Reactors

THREE PHASE LINE REACTORS

These reactors are intended for use with the 590 Series three-phase controllers. They may be used when voltage transformation or supply isolation is not required. Line reactors:

- Reduce the level of voltage notching on the supply
- Limit total radiated RF interference
- Reduce current spikes in the supply lines during commutation of the SCR bridge.

COMPACT DESIGN UL AND CSA APPROVALS THROUGH 110A RATING FOR 230 AND 480VAC SUPPLIES **TAB TERMINAL CONNECTIONS**



Reactor 25 µH

CO057963

Dimensions	7.	4	4.	
Amps	Height	Width	Depth	Weight
35	4.5 (114)	6.1 (155)	4.75 (121)	8 (3.6)
70	5.5 (140)	6.1 (155)	4.75 (121)	11 (5.0)
110	5.5 (140)	6.1 (155)	4.75 (121)	15 (6.8)
180	13.0 (330)	7.5 (191)	6.25 (159)	27 (12.3)
250	15.0 (380)	11.0 (280)	10.0 (255)	
360	15.0 (380)	11.0 (280)	10.0 (255)	
550	15.7 (398)	14.5 (366)	12.0 (306)	
720	15.7 (398)	14.5 (366)	12.0 (306)	

All dimensions are in inches (mm) and weights are in Lb. (Kg).

400

720

THREE-PHASE LINE REACTORS FOR EMC

These reactors are used with EMC filters for DC controllers that must meet CE standards.

CE APPROVED RATING TO 180A

200

Three-Phase Line Reactors (CE approved)		
Size* DC Amps	Part Number	
15	CO466449U015	
40	CO466449U040	
70	CO463037	
110	CO463038	
180	CO463039	

*Above 180 Amps use the standard line reactors listed above

ARMATURE DC CONTACTOR OPTION

For use with 590+ frames 1 and 2, this assembly provides a 3-pole DC loop contactor (includes dynamic braking contact) that isolates the motor from the drive. Dynamic braking requires an additional braking resistor kit. Note: Do not order with dynamic braking contact option, contact included in assembly.

1 to 100 HP

Horsepower		
240Vdc	500Vdc	Part Number
1 - 7.5	1 - 15	955+ADC30
10 - 15	20 - 30	955+ADC60
20 - 40	40 - 75	955+ADC130
50	100	955+ADC220

DYNAMIC BRAKING RESISTORS

The dynamic braking resistor kits are designed for stopping a motor at full load current from base speed with 2 times motor energy, three times in rapid succession (NEMA ICS 3-302.62 dynamic braking stop option). Dynamic braking provides a low initial cost solution when motor braking can be less precise. When braking is required frequently in the application (for example, unwinds), a regenerative drive would be a better solution.

COMPACT DESIGN ROOF/PANEL MOUNTING HORSEPOWER RATED FOR EASIER SELECTION INTEGRAL COVERS FOR ADDED SAFETY

			A. A
240\	/dc DB Resistors		
	HP	Ohms	Part Number
	5	8.6	CZ353160
	7.5	6.04	CZ353161
	10	4.6	CZ353162
	15	3	CZ353163
	20	2	CZ353164
	25	2	CZ353165
	30	1.4	CZ353166
	40	1411	CZ353167
	50	1	CZ353168
	60	0.742	CZ353169
	75	0.58	CZ353170
	100	0.452	CZ353171
	125	0.384	CZ353172
	150	0.325	CZ353173
	200	0.255	CZ353174
	250	0.196	CZ353175
	300	0.176	CZ353176
	400	0.137	CZ353177
	500	0.1	CZ353178

Tel: (704) 588-3246 Fax: (704) 588-3249

500Vdc DB Resisto	Ohms Part Number 62 CZ353134 36 CZ353135 36 CZ353136 20 CZ353137 12 CZ353138 10 CZ353139 7 CZ353140 7 CZ353141 4.5 CZ353142 4.5 CZ353142 4.5 CZ353144 2.8 CZ353145 2 CZ353145 1.71 CZ353147 1.28 CZ353148 1.11 CZ353149 0.768 CZ353150	
HP	Ohms	Part Number
3	62	CZ353134
5	36	CZ353135
7.5	36	CZ353136
10	20	CZ353137
15	12	CZ353138
20	10	CZ353139
25	7	CZ353140
30	, N. C. 1	CZ353141
40	4.5	CZ353142
50	4.5	CZ353143
60	4	CZ353144
75	2.8	CZ353145
100	2	CZ353146
125	1.71	CZ353147
150	1.28	CZ353148
200	1.11	CZ353149
250	0.768	CZ353150
300	0.72	CZ353151
400	0.504	CZ353152
500	0.38	CZ353153
600	0.38	CZ353154
700	0.288	CZ353155
800	0.23	CZ353156
900	0.23	CZ353157
1000	0.2	CZ353158

DYNAMIC BRAKING CONTACT

All 590+ DRVs (except 125 and 250 HP) require a separate dynamic braking contact kit if dynamic braking is required. The kits through 100 HP use a four-pole AC contactor pre-wired to connect to the 590+ terminals. Above 100 HP, kits use a single-pole DC contactor that requires 120Vac control power to close. The dynamic braking contact must be factory installed and requires a larger panel. The dynamic braking contact kits are designed to meet NEMA dynamic braking requirements (see dynamic braking resistors above).

500VDC RATED MEET NEMA DYNAMIC BRAKING STANDARDS

ř	HP (500Vdc Rated & Meets NEMA Standards)			
	240Vdc	500Vdc	Part Number	
	1 - 10	1 - 20	955+DBC35	
	15 - 20	30 - 40	955+DBC70	
	25 - 30	50 - 60	955+DBC110	
	0 - 50	75 - 100	955+DBC162	
	150 - 700	300 - 1500	955-DBC2400*	
	800 - 1000	1750 - 2000	955-DBC3000*	

^{*}Factory installed option only.

Op	tions for 590+ Series	Part Number		
	Remote mounting and bezel and lead	6052		
	Communication and Technology Box			200
	Standard	P3 port for 5703/1		
	Profibus	6055/PROF/00		
	Modbus/RS422/RS485/EIBisynch	6055/E100/00		
	LINK	6055/LINK/00		
	DeviceNet	6055/DNET/00		
	ControlNet	6055/CNET/00		
	CanOpen CanOpen	6055/CAN/00		21/4
	Ethernet	6055/ENET/00		
	P3 port for 5703/1	Standard		
	Speed Feedback Technology Box		A STORY	
	Analog Tachometer (included)	AH385870U001		
	Encoder feedback 5Vdc	AH387775U005		
	Encoder feedback 12Vdc	AH387775U012		
	Encoder feedback 15Vdc	AH387775U015		
	Encoder feedback 24Vdc	AH387775U024		
	Microtach feedback for acrylic fiber	AH386025U002		
	Microtach feedback for glass fiber	AH386025U001		

INTERNATIONAL STANDARDS
Conforms to EC Directive 89/336/EEC in compliance with standard:
- EN61800-3 (Environment 1 and 2 with external filter)
Conforms to EC Directive 73/23/EEC in compliance with standard:

- EN50178 (Low Voltage)

Complies with UL508C safety standards

C C CUL) us Marked

EMC Filters	P. 43
Line Reactors	P. 44
Programming Software	P. 52

LINK- Fiber Optic Based Drive Control System



DESCRIPTION

Link 2 (evolved from LINK launched in 1990) is a multitask distributed control system that enables motor speed regulation by means of drives, input devices and operator interfaces, all interconnected via fiber optic cable, which replaces traditional signal copper multiple cables (50% saving in wiring time and cost compared to the standard system) and is immune from any electromagnetic disturbance or interference. This feature, together with distributed control system (each LINK unit is equipped with its own microprocessor and RAM) at high speed communication (2.7 MBaud, event driven) allows the hardware to be placed in the most convenient position (DCS).

Each LINK system may comprise any combination of closed/open loop inverter (690P Series) and DC drives (590+ Series), digital and analog I/O modules, communication interfaces with most Fieldbus protocols available on the market. It also includes DDE Interface that is supported by most SCADA supervision software packages for an integrated process control that ensures a high quality standard of the final product.

The most important parts of a LINK2 control system are described below. Other interface and components are available, which contribute to making LINK2 the world's most flexible control system. Please contact Parker SSD Drive Engineering Department to discuss your application in detail.

SUITABLE FOR AC AND DC DRIVES TOTAL CONFIGURABILITY FOR THE MOST ADVANCED MULTI-DRIVE SYSTEMS

HIGH SPEED, NOISE IMMUNE FIBER OPTIC

FIELDBUS INTEGRATION

Remote assistance and programming

REAL TIME PEER-TO-PEER COMMUNICATION

L5300 LinkRack

The L5300 is a processor and memory unit with 85-265Vac power supply, designed to accommodate up to 4 plug-in modules. Rear connection allows direct panel or DIN rail mounting.

L5392 LinkStation

The operator station L5392 is a color LCD touchscreen with processor and memory, powered by 85-265Vac, and designed to accommodate up to 4 plug-in modules in the rear of the unit. The operator screens are configurable into 6 bands, with any of the following combinations:

- · Operator pushbuttons, each of them independently configurable
- Digital ramps for setting reference and feedback variables
- · Variable display indicators
- Machine state and alarm indicators





L5331 - Digital I/O LINKCard

The L5331 module provides 16 x 24V digital input/output channels. Each channel can be independently configured as an input or output. All terminals are plug-in type and easily accessible on the front of the module, and have LED indication of "ON" state. High speed inputs for encoder or pulsecounter are also available.

L5341 - Analog I/O LINKCard

The L5341 module has 8 analog inputs and 2 analog outputs. Each channel is bipolar with a 14bit (13bit + sign) resolution. The ±10V power supply outputs enable use with external devices, including potentiometers and transducers. All terminals are plug-in type.

L5311 - RTN [Fiberoptic] LINKCard

The L5311 module has the task of transmitting and receiving via fiber optic all signals coming from the other units of the LINK system, thus integrating the unit in the network at 2.7Mbaud.

L5351 - DeviceNet LINKCard

The L5351 module enables LINK system to interface to a DeviceNet based system.

L5352 - Ethernet LINKCard

The L5352 module enables LINK system to interface to an Ethernet based system.

L5312 - FireWire LINKCard

The L5312 module enables LINK system to interface to a FireWire based system.

L5353 - Profibus LINKCard

The L5353 module enables LINK system to interface to a Profibus based system.

L5354 - ControlNet LINKCard

The L5354 module enables LINK system to interface to a ControlNet based system.



L5201 - Remote Analog I/O Unit

The L5201 is a remote independent module, providing 5 analog inputs and 1 analog output plus fiber optic interface. Particularly suitable for machine mounting.

L5202 - Remote Digital I/O Unit

The L5202 is a remote independent module, providing 12 digital 24V inputs or outputs, independently configurable, plus fiber optic interface. Particularly suitable for machine mounting.

DRIVE SYSTEM DESIGNER – Revolutionary System of Software Design

Drive System Designer (DSD) is the configuration software of LINK systems. Owing to its exclusive Autoconfigure function, all speed controls are automatically carried out by entering basic drive/process data only.

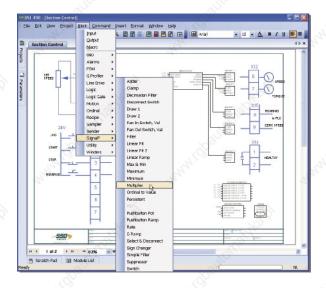


DSE890

This is the "online" programming, monitoring and diagnostic software platform for AC890 Series frequency converters.

PC and converter communicate via Mini USB port and, by chain supplying the 24Vdc auxiliaries of the various 890 units, it is possible to configure the entire system from a single location via FireWire1394. Thanks to the on-line help, users can obtain the optimum drives configuration without need to navigate through complicated parameter menus. Advanced programming is carried out through a set of pre-engineered templates in order to create the required configuration.

During drive operation, it is possible to monitor every parameter either as a digital value or as a function in the "Chart Recorder".



CREATES, INSTALLS AND MODIFIES CONFIGURATIONS
DRAG-AND-DROP ICON STRUCTURE
GRAPHICAL INTERFACE
DATA LOGGING
COMPATIBLE WITH WINDOWS XP

Part Number	Description	
DSE890 RUN-TIME	Programming software Runtime Version	package including USB cable and license.
DSE890 DEVELOPM	Programming software programmi	package including USB cable and license.
Options	700	70°S,
CM471050	USB programming cable	e dig.

System Requirements

- PC with Pentium™ III processor or later
- Minimum resolution 800 x 600
- Minimum 64MB RAM installed
- OS Microsoft Windows XP
- USB port for connection with drive
- Mouse or other similar device

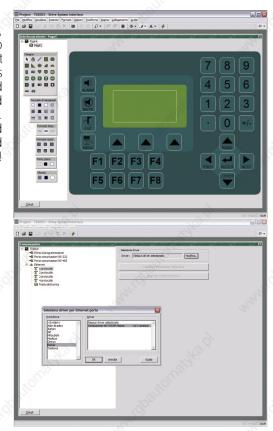
Requirements for updating

Internet connection to download updates from our site www.SSDdrives.com

58000

The DSI8000 is a powerful set of icon-based, configuration, display, control and data logging tools uniquely designed to take full advantage of the TS8000 series architecture. Most applications can be quickly set up using a step-by-step process to configure communications protocols, define data tags, and create a user-friendly interface. A full complement of drag and drop graphical symbols yield professional results in record time. Advanced features such as programming, data logging, and the configuration of the TS8000's web server are intuitive and easily enabled. Also, ask about our Pre-engineered templates!

CREATES, INSTALLS AND MODIFIES CONFIGURATIONS DRAG-AND-DROP ICON STRUCTURE GRAPHICAL INTERFACE DATA LOGGING WEB SERVER COMPATIBLE WITH WINDOWS 2000/XP



Part Number	Description	
DSI 8000	Programming software package includes all cables and licenses	

System requirements

- PC with Pentium™ III processor or later
- Minimum resolution 800 x 600
- Minimum 64MB RAM installed
- OS Microsoft Windows 2000, Windows XP
- USB port for connection to TS8000
- · Mouse or other similar device

Requirements for updating

Internet connection to download updates from our site www.SSDdrives.com

ConfigEd Lite

ConfigEd Lite is a graphical interface software used to configure off-line all Parker SSD Drives inverters and 590+ Series

Drive programming is simplified by basic function blocks that can be configured and interconnected in order to create the required configuration. Pre-configured macros allow users to adapt the drive to various types of applications.

Once completed, the configuration is installed into the drive via serial port by means of the cable supplied with the package.

CREATES, INSTALLS, MODIFIES AND RETRIEVES CONFIGURATIONS POWERFUL AND VERSATILE FUNCTION BLOCKS GRAPHICAL INTERFACE PRE-CONFIGURED MACRO COMPATIBLE WITH WINDOWS 9X/ME/2000/NT/XP

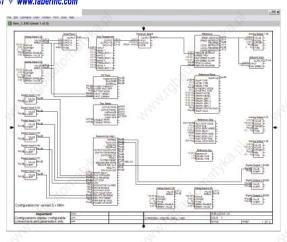
Part Number	Description
402-NU5	Programming software package including CM351909 cable and license
Options	4.
CM351909	3m standard cable, for connection to PC Drive connection and Adapter DB9-RJ11

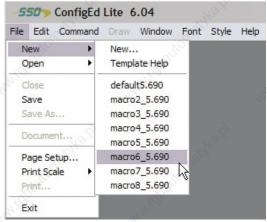
System requirements

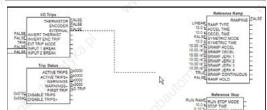
- PC with Pentium™ processor or later
- Minimum resolution 800 x 600
- Minimum 32MB of RAM installed
- · OS Microsoft® Windows 9X/ME, Windows NT, Windows 2000, Windows XP
- Serial port for connection to P3 port on drive
- Mouse or other similar device

Requirements for updating

Internet connection to download updates from our site www.SSDdrives.com







ConfigEd Lite Plus

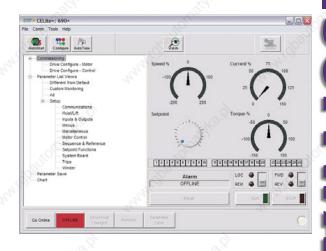
ConfigEd Lite Plus is the software for on-line programming, parameter setting, monitoring and troubleshooting 650V and 690+ Series inverters and 590+ Series converters.

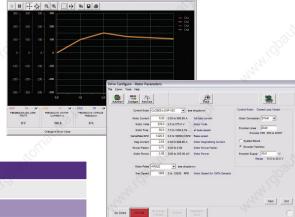
With its guided startup procedure, users can configure the drive with few simple steps, thus obtaining best performance without need to navigate through complicated parameter menus.

During drive operation, it is possible to monitor every parameter either as a digital value or as a function in the "Chart Recorder".

Advanced programming is carried out through a set of pre-engineered templates in order to create the required configuration.

BUILT-IN STARTUP FUNCTION
ON-LINE PROGRAMMING AND TROUBLESHOOTING
4-CHANNEL CHART RECORDER
POWERFUL AND VERSATILE FUNCTION BLOCKS
PRE-CONFIGURED MACROS
COMPATIBLE WITH WINDOWS 98/ME/2000/NT/XP





Part Number	Description		
CEL+NU1	Programming software package with license		
Options	470	77,	
CM351909	3m standard cable, for connection to PC Drive connection and Adapter DB9-RJ11		

System requirements

- · PC with Pentium™ II 233MHz processor or later
- · Minimum resolution 800 x 600
- · Minimum 32MB RAM installed
- · OS Microsoft® Windows 98/ME, Windows NT, Windows 2000, Windows XP
- · Internet Explorer 4.01 or later (for DHTML applications)
- · Serial port for connection to P3 port of the drive
- · Mouse or other similar device

Requirements for updating

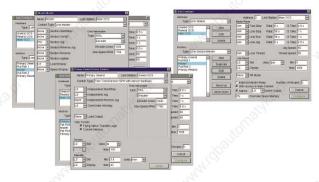
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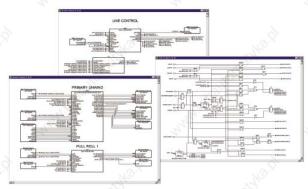
DSD - Drive System Designer

Drive System Designer (DSD) is a software package used to configure LINK systems. DSD employs a graphical interface and configurable function blocks that offer unlimited, interconnectable control schemes to create the desired configuration.

The full package includes the Auto Configure option, a powerful software that enables the user to configure a multi-drive system with an exclusive guided procedure. Starting from a simple diagram of the line, machine or process, users can set the various parameters (line speed, tension, etc.) and functions (winder, taper, dancer, etc.) for each motor, then the software will automatically configure the complete system based on the user inputs.

REMOTE ASSISTANCE VIA MODEM MULTIDRIVE SYSTEM CONFIGURATION LINK SYSTEM CONFIGURATION ON-LINE PROGRAMMING AND TROUBLESHOOTING GRAPHICAL INTERFACE COMPATIBLE WITH WINDOWS 98/ME/2000/NT/XP





Part Number	Description	70,		367
DSD RUN-TIME	Programming software package Runtime Version - LINK™ system	with CM353470 cable and monitoring	license	
DSD DEVELOPMENT	Programming software package Development Version - Developm	with CM353470 cable and lent and configuration of LI	license NK™ systems	
DSD AUTOCONFIGURE	Programming software package Autoconfigure Version - Developr	with hardware key, CM353- ment and standard or guide	470 cable and license ed configuration of LINK™ sys	tems
DSD UPD	Drive System Designer update			
	200	Options	722	70/20
CM353470	3m standard cable with connector	ors for PC/Insulator→ Driv	e/Link connection and Surge	Adapter DB9-RJ11

System requirements

- PC with Pentium™ II 233MHz or later
- · Minimum resolution 800 x 600
- · Minimum 32 MB RAM installed
- · OS Microsoft® Windows 9X/ME, Windows NT, Windows 2000, Windows XP
- · Serial port for connection to the servodrive P3 port
- Mouse or other similar device

Requirements for updating

Internet connection for downloading updates from our site www.SSDdrives.com (by subscription only)

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Covers all SSD Drives Digital DC Series Drives

- DC Motors and Controls - Block Diagram Configuration

590+ Series Overview
 MMI and Parameter Structure
 CE Lite Software
 Troubleshooting

C-235 Digital AC/Vector Drives

Covers Standard SSD Drives AC Controllers

· AC Motor and Controls · MMI and Parameter Structure

650 & 690+ Series Overview
 Hardware Options
 CE Lite Software
 Troubleshooting

C-236 890/DSE Advanced AC Drives

Covers the New 890 AC Controller

- AC Motors - MMI and Parameter Structure

890 Series OverviewHardwareCE Lite SoftwareTroubleshooting

C-241 DSD Runtime & LINK Fundamentals

Maintenance Level Class Focuses on Supporting an Existing LINK System

· LINK Overview · LINK Drives MMI and Parameter Structure

C-242 DSD Development & LINK Fundamentals

Engineering Level Class Focuses on Designing New LINK Systems

· LINK Overview · LINK Drives MMI and Parameter Structure

· LINK Hardware · Design with LINK Function Blocks

· LINK Graphical Configuration Software—DSD Development

C-243 Communications/Advanced Applications

Using Communication Gateways and Advanced LINK Function Blocks

DeviceNetProfiBusControlNetModBusEtherNetWinders

C-250 TS8000 HMI Programming

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