







AC & DC Drives Full Line Selector Guide

Variable Speed Control for AC and DC Motors



Product Overview

AC10 - A simple, reliable, and economical solution to every-day motor control applications requiring speed or torque control within the power range of 0.25 to 250 HP. Compact footprint and features including, sensorless vector mode and a full 150%/60 sec overload. A solution for machine builders looking for a compact, cost-effective, drive with robust performance. IP20 and IP66 ratings available.





AC30V, AC30P, AC30D - Available in three levels of capabilities, the AC30 family provides exceptional levels of control, from simple open-loop pumps and fans to closed-loop process line applications through 600 HP. Its flexible, modular construction enables a wide range of communications and I/O modules to be added as required. Integrated macros and PLC functionality enable users to create sophisticated control without a separate PLC.

AC690+ "Integrator Series" - A range of AC drives well suited to integrated multi-drive systems. The 32-bit microprocessor based motor control model provides an exceptional dynamic performance platform to which can be added a host of communications and control options, enabling you to tailor the drives to meet your exact requirements. Available in 380-460V 3-phase to 500 HP and 220V-240V to 75 HP.





AC890 - A compact, modular systems drive engineered to control speed and position of open-loop and closed-loop, single- or multi-motor AC induction or servo motor applications. Compatible with a wide range of feedback options, the AC890 may be used with any AC motor and virtually any speed/position feedback options. Available in 380-460/500V 3-phase 0.75 to 500 HP and 220V-240V 3-phase 0.75 to 10 HP.

DC590+ "Integrator Series" for DC motors, well suited to integrated multi-drive systems. Extensive application software including winder control, together with function block programming and configurable I/O creates a total drive system in a single module. This flexibility in configuration makes the DC590+ an excellent retrofit solution not only for legacy Parker SSD drives, but for competitive brands as well. "DRV" models include fuses and contactor.



230V 1ph	230V 3ph	460V 3ph
0.25-1 HP	0.25-1 HP	0.2575 HP
1.5-3 HP	1.5-3 HP	1-3 HP
	5 HP	5-7.5 HP
	7.5 HP	10-15 HP
	10-15 HP	20-30 HP
	20 HP	40 HP
		50-60 HP
		75-100 HP
		125-150 HP
		200 HP
		225-250 HP
	0.25-1 HP	0.25-1 HP

AC10 IP66	230V 1ph	230V 3ph	460V 3ph
1	0.5-3 HP	0.5-3 HP	1-5 HP
2			7.5-10 HP
3			15-20 HP
4*			30-40 HP
5*			50-75 HP
6*			100-125 HP

Frame Guide

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6510			
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	AC10) IP20	



AC10 IP66 NEMA 4X (Indoor)



AC690+



AC30V, P, D



AC890SD



AC890CD

AC690+	N	ormal Duty / \	/T	Heavy Duty / CT							
AC090+	230V 1ph	230V 3ph	460V 3ph	230V 1ph	230V 3ph	460V 3ph					
В				1-3 HP	1-5 HP	1-10 HP					
С			20-25 HP		7.5-10 HP	15-20 HP					
D		20-25 HP	30-50 HP		15-25 HP	25-40 HP					
E		40 HP	60-75 HP		30 HP	50-60 HP					
F		50-75 HP	100-150 HP		40-50 HP	75-150 HP					
G			200-350 HP			175-300 HP					
Н			400-500 HP			350-450 HP					
J			550 HP			500 HP					

AC30	N	ormal Duty / \	/T	Heavy Duty / CT							
V, P, D	230V 1ph	230V 3ph	460V 3ph	230V 1ph	230V 3ph	460V 3ph					
D			1.5-7.5 HP			1-5 HP					
Е			10-15 HP			7.5-10 HP					
F			20-25 HP			15-20 HP					
G			30-50 HP			25-40 HP					
Н			60-100 HP			50-75 HP					
J			125-200 HP			100-150 HP					
K			250-350 HP			200-300 HP					
L			400-450 HP			350-400 HP					
М			500-550 HP			450-500 HP					
N			600 HP			550 HP					

AC890SD	N	ormal Duty / \	/T	Heavy Duty / CT							
AC6903D	230V 1ph	230V 3ph	460V 3ph	230V 1ph	230V 3ph	460V 3ph					
В					1-5 HP	1-10 HP					
С					7.5-10 HP	15-20 HP					
D						25-40 HP					
E			60-75 HP			50-60 HP					
F			100-150 HP			75-150 HP					
G			200-350 HP			175-300 HP					
Н			400-500 HP			350-450 HP					
J			550 HP			500 HP					

A C0000CD	N	ormal Duty / \	/Τ	Heavy Duty / CT						
AC890CD	230V 1ph	230V 3ph	460V 3ph	230V 1ph	230V 3ph	460V 3ph				
В					0.75-5 HP	1-10 HP				
С					7.5-10 HP	15-20 HP				
D						25-40 HP				
E			60-75 HP			50-60 HP				
F			100-150 HP			75-150 HP				



DSE supports all Parker systems drives as well as peer-topeer communications via LINKnet. It also supports peer-to-peer communication via FireWire 1394a on AC890 products.

DSELite, a free download, supports all Parker drives including the AC10 for applications that do not require peer to peer communications.



Drive Series	P/	N Details			
DC590+ v2	Non-regenerative P/N prefix	Regenerative P/N prefix	Frame	Armature Output (Amps DC)	Field Output
- The Control of the			3	206, 246A	10A
	591+/500 460 VAC input	590+/500 460 VAC input	4	360, 425, 490, 700, 815A	30A
actions.			6	1250, 1600, 1950A	60A
Power Module Only*	591+/690 575-690 VAC input	590+/690 575-690 VAC input	6	1250, 1600, 1850A	60A
			1	15, 35A	4A
			2	55, 70, 90, 110, 125, 165A	10A
22	955+8N 460 VAC input	955+8R 460 VAC input	3	206, 246A	10A
			4	360, 425, 490, 700, 815A	30A
			6	1250, 1600, 1950A	60A
DRV Power Module with Contactor and Fusing	955+CN 575 VAC input	955+CR 575 VAC input	6	1250, 1600, 1850A	60A

^{*} Also available as a separate stack controller, less power section, for controlling an existing power stack. Please consult Parker for additional application data.

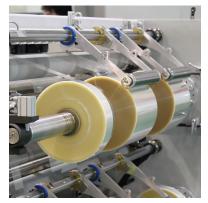
Drive Series	Feed- back Features				mi	Program- ming soft- ware			Third Party Comm Fieldbus Connectiv							
DC590+ v2 ■ = Standard Feature ○ = Optional	Standard Feature		Field Controller	Semiconductor Fusing	Dynamic Braking	Appl Function Blocks	DSELite	IEC 61131	DSE	LINKnet Cat6	RS422/485	EtherNet/IP	Modbus TCP	PROFIBUS	DeviceNet	CANopen
Power Module Only*	0	0	•	Frame 6		Advanced	•		•	0	•	0	0	0	0	0
DRV Power Module with Contactor and Fusing	0	0	•	•	0	Advanced	•		•	0	•	0	0	0	0	0



Drive Series	Output	Ratings	Input		1	Motor Con	itrol Mod	le		Enclosure Type			Safety		Braking		Inductance		
= Standard FeatureOptional	ND (TV) HP	НD (СТ) НР	Supply Voltage	Volts/Hz	Sensorless Vector	Closed Loop Vector	Sensorless PMAC	Closed Loop PMAC	Line Regen Active Front End	IP00	IP20	NEMA 1	IP66 / NEMA 4X Indoor	Safe Torque Off	Application Function Blocks	Brake Switch	Brake Re- sistor	Built-in Line Reactor	Built-in DC Choke
AC10 IP20		0.25 - 3 0.25 - 20 0.25 - 250	230V 1ph 230V 3ph 460V 3ph	•	•						•				Basic	•	0		
AC10 IP66 NEMA 4X (Indoor)		0.5 - 3 0.5 - 3 1 - 125* *UL listed to 20 HP	230V 1ph 230V 3ph 460V 3ph	•	•								•		Basic	•	0		
AC690+	20 - 75 30 - 550	1 - 3 1 - 60 1 - 500	230V 1ph 230V 3ph 460V 3ph	•	•	0				● Frame G, H, J	Frames B - F				Advanced	● Frames B & C ○ All others	0	Frames E & F	Framer C & D
AC30V, P, D	1.5 - 600	1 - 550	460V 3ph	•	•	Type P O Types V & D	•	0	0		•			•	Advanced	0	0		5 HP and larger
AC890SD	1 - 10 1 - 550	1 - 500	230V 3ph 460V 3ph	•	•	0		0	0	● Frame G, H, J	Frames B - F			Frames B - F	Advanced	Frames B - F O All others	0	Frames E & F	
AC890CD (DC fed, common DC bus)	60 - 150	0.75 - 10 1 - 40 50 - 150	320 VDC 650 VDC 650 VDC	•	•	0		0	0		•			•	Advanced	AC890CS common supply module	0		

Drive Series	Progra	amming Sc	ftware	Peer-to-Peer Comms / Fieldbu									Connectivity				
= Standard FeatureO = Optional	DSELite	IEC 61131	DSE	IEEE 1588 Time Sync.	LINKnet CAT6	FireWire 1394a	RS422/485	EtherNet/IP	Modbus	PROFINET	PROFIBUS	ControlNet	DeviceNet	CANopen	EtherCAT		
AC10 IP20	•						•										
AC10 IP66 NEMA 4X (Indoor)	•						•										
AC690+	•		•		0		0	0	0		0		0	0			
AC30V, P, D	•	•	•	Types P & D	O If flashed to DSE		Only if flashed for CoDeSys, not DSE/DESlite	•	Types P & D	Types P & D O Type V	O available only	√ if flashed for	r CoDeSys, n	O ot DSE/DSEL	O ite.		
AC890SD	•		•		0	0	0	0	0	0	0	0	0	0	0		
AC890CD (DC fed, common DC bus)	•		•		0	0	0	0	0	0	0	0	0	0	0		

AC & DC Drives for all your requirements...from fans and pumps to the most demanding industrial applications.



Converting



Metals



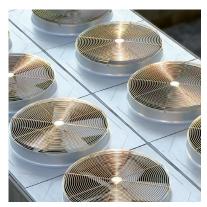
Plastics



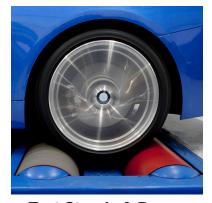
Centrifugal Pumps



Wire & Cable



Fans



Test Stands & Dynos



Cranes & Hoists



Hydraulic Power Units

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