

Farm Duty  
Motors

**BALDOR • RELIANCE®**

**SP500 General Purpose  
AC Drive**

**1 Hp  
1 thru 5 Hp  
1 thru 20 Hp  
1 thru 10 Hp**

**115 VAC  
208-230 VAC  
380-460 VAC  
575 VAC**

**1 Phase - 50/60 Hz  
3 Phase - 50/60 Hz  
3 Phase - 50/60 Hz  
3 Phase - 50/60 Hz**

Definite Purpose  
Motors



Unit Handling

**Applications:** Variable torque, constant torque or constant horsepower applications. New installations, replacements and original equipment manufactures (OEM).

**Features:** Volts per Hertz Control with peak overload capacity of 150% for one minute. Flexible mounting options NEMA 1 or NEMA 4X/12. Integral keypad, operator interface and local speed control. Basic set of less than 30 programming parameters. Power ratings from 1 Hp to 5 Hp 230Vac, 20 Hp 460 Vac and 10 Hp 575 Vac.

Brake Motors

200 & 575 Volt  
Motors

IEC Frame  
Motors

50 Hertz  
Motors

Inverter/Vector  
Motors & Controls

DC Motors  
and Controls

Soft Start &  
Dynamic Brakes

<b>Performance Features</b>	Control Modes	V/Hz Control
	Operator Interface Module	Integral Drive Mounted
	Display Lines	4-Character LED display
	Programmable Preset Speeds	Three
	Analog Output	One (0-10 VDC)
	Auto Restart	Yes - Up to 10 attempts
	Frequency Avoidance	One Band
	Fault History	Last Three Faults
<b>Drive Specifications</b>	Digital Inputs	Dedicated control terminals for start/stop, forward/reverse and fault/reset
	Analog Input	One: 0-10VDC or 4-20 mA
	Digital Output	One Form C Relay
	Maximum Load	20 Hp @ 460 VAC
	Overload Capacity	Drive Output 150% for One Minute
	Input Voltage Ranges	115VAC, 208-230VAC, 380-460VAC and 575VAC
	Input Voltage Tolerance	10% / -10%
	Rated Input Frequency	50-60 Hz (±5%)
	Carrier Frequency	4, 6 or 8 kHz
	Operating Temperature	-10° to 40°C
	Volts/Hz	Linear or Custom V/Hz
	Frequency Control Range	0 to 240 Hz
<b>Protective Features</b>	Accel/Decel Range	0.5 to 90 Seconds
	Keypad Speed Control	Yes
	Function Loss	Function loss input open
	High Bus Voltage	DC bus voltage above trip level
	Low Bus Voltage	DC bus voltage below trip level
	Over Current, short circuit or ground fault	Drive output exceeds 200% rating
<b>Agency Certifications</b>	Thermostat/Drive Overload	Excess drive temperature
	Electronic Thermal Overload	Exceed Drive rating of 150% for One Minute
<b>Service Conditions</b>	UL, cUL, CE	
	Altitude	1,000 m (3,300 ft.) Maximum
	Ambient Temperature	0°C (32°F) to 40°C (104°F)
	Storage Temperature	-40°C +65°C (-40° to +149°F)
	Relative Humidity	5% to 95%, non-condensing
Intermittent Overload	150% overload capacity for up to 1 minute; 200% instantaneous overload	