AC Drive

BALDOR · RELIANCE ... **VS1PF Pump and Fan**

7.5 thru 40 Hp 230 VAC 3 Phase - 50/60 Hz **460 VAC** 3 Phase - 50/60 Hz 3 Phase - 50/60 Hz 7.5 thru 150 Hp **600 VAC**

7.5 thru 700 Hp

Applications: Pump and Fan AC Drive Applications (both Variable and Constant Torque) from 5 to 700 Hp.

Features: Nema 1 enclosure as standard up to 15Hp. IP00 with NEMA 1 enclosure Kits available from 20 Hp to 125 Hp. IP00 as standard over 125 Hp. Integral keypad and plain English 2-line display including UP/ DOWN keys to adjust speed reference. Dual PID control loops. External DBU Dynamic Braking kits connect to remote braking resistor for enhanced performance needs. Sleep/Wake Function -- Ability to disable/re-enable drives automatically as demand dictates. Energy Savings Function. Power Dip Ride-thru. Flying Start Function.

	Voltage							
	Valtaga Danga	230 170-253	460 323-528	600 446-660				
F	Voltage Range			440-000				
-	Phase	3 Phase (single phase with 50% derate)						
	Frequency	50/60 Hz +5%						
· · ·	Horsepower	7.5-40 Hp @ 230VAC, 3PH; 7.5-700 Hp @ 460VAC, 3 PH; 7.5-150 Hp @ 600 VAC, 3 PH						
	Overload Capacity	Heavy Duty (Constant Torque) = 150% for 60 seconds, 180% for 4 seconds						
		Normal Duty (Variable Torque) = 110% for 60 seconds and 130% for 4 seconds.						
F	Frequency	0-120 Hz						
	Voltage	0 to maximum input voltage (RMS)						
	Trip	Missing control power, over current, over voltage, under voltage, over temperature (motor or control), output shorted or gr						
Features	<u> </u>	motor overload						
	External Output	LED trip condition indicators, 5 assignable logic outputs, 2 assignable analog outputs						
	Short Circuit	Phase to phase, phase to ground -10 to 40°C. Derate 2% per °C to maximum ambient temperature of 50°C.						
+	Temperature	<u>'</u>	ximum ambient temperature o	₫ 50°C.				
F	Cooling	Forced air						
_	Enclosure	NEMA 1 and IP00						
F	Altitude	Sea level to 3300 Feet (1000 Meters) Derate 2% per 1000 Feet (303 Meters) above 3300 Feet						
⊢	Humidity	10 to 95% RH Non-Condensing						
	Storage Temperature	-40 to +70°C						
Keypad Display	Display	16 character x 2-line, plain-English alpha-numeric display						
⊢	Keys	9 key membrane with tactile response						
	Functions	Output status monitoring, Digital speed control, Parameter setting and display, Diagnostic and Fault log display, Motor run and jog, Local/Remote toggle						
<u> </u>	LED Indicators	Forward run command, Reverse run command, Stop command						
-	Remote Mount	4000 foot distance						
	Trip	Separate message and trace log for each trip, last 5 trips retained in memory						
⊢	Control Method	Microprocessor controlled PWM output, selectable encoderless vector or V/Hz inverter						
F	Sleep / Wake Function	Ability to disable/re-enable drive automatically as demand dictates						
	Programmable Preset Speeds	Sixteen						
	Accel/Decel	0-6000 seconds, linear, S-Curve, U-Curve						
	Energy Savings Function	Automatic Mode						
	Frequency Control Range	0-120 Hz						
	Frequency Avoidance	3 Bands						
	Selectable Operating Modes	Keypad, 2-Wire, 3-Wire, 16 Preset Speeds, Fan Pump, Process Control.						
Analog Inputs	Two total	One: 0-10VDC or -10 to 10VDC						
		One: 4-20mADC						
Analog Outputs	Two	Two: 0-12 VDC						
Digital Inputs	Pull - up or Pull - down	8 Completely Configurable Inputs						
Digital Outputs	Five Total	Four Form A Relays						
		One Form C Relay						



BALDOR • RELIANCE !

VS1PF - 230V, 50/60 Hz, 3-Phase

Catalog Number	Frame	Hp (Normal Duty)	Output Current	List Price	Mult. Sym.
VS1PF27-1	А	7.5	24	1,310	EB
VS1PF210-1	В	10	32	1,528	EB
VS1PF215-1	В	15	46	1,692	EB
VS1PF220-9	С	20	60	1,964	EB
VS1PF225-9	С	25	74	2,510	EB
VS1PF230-9	Е	30	88	3,273	EB
VS1PF240-9	Е	40	115	3,819	EB

VS1PF - 460V, 50/60 Hz, 3-Phase

Catalog Number	Frame	Hp (Normal Duty)	Output Current	List Price	Mult. Sym.
VS1PF47-1	А	7.5	12	1,255	EB
VS1PF410-1	В	10	16	1,528	EB
VS1PF415-1	В	15	24	1,637	EB
VS1PF420-9	С	20	30	2,030	EB
VS1PF420-9L *	D	20	30	2,400	EB
VS1PF425-9	С	25	39	2,400	EB
VS1PF425-9L *	D	25	39	2,837	EB
VS1PF430-9	Е	30	45	3,164	EB
VS1PF430-9L *	F	30	45	3,546	EB
VS1PF440-9	E	40	61	3,819	EB
VS1PF440-9L *	F	40	61	4,201	EB
VS1PF450-9	G	50	75	4,583	EB
VS1PF450-9L *	J	50	75	5,128	EB
VS1PF460-9	G	60	91	5,892	EB
VS1PF460-9L *	J	60	91	6,546	EB
VS1PF475-9	Н	75	110	7,092	EB
VS1PF475-9L *	K	75	110	7,746	EB
VS1PF4100-9	L	100	152	7,965	EB
VS1PF4100-9L *	M	100	152	8,838	EB
VS1PF4125-9	L	125	183	9,819	EB
VS1PF4125-9L *	M	125	183	10,747	EB
VS1PF4150-9L *	N	150	223	11,347	EB
VS1PF4200-9L *	N	200	264	13,092	EB
VS1PF4250-9L *	Р	250	325	15,275	EB
VS1PF4300-9L *	R	300	413	18,547	EB
VS1PF4350-9L *	R	350	432	21,821	EB
VS1PF4400-9L *	R	400	547	30,548	EB
VS1PF4500-9	S	500	613	34,913	EB
VS1PF4600-9	T	600	731	43,640	EB
VS1PF4700-9	T	700	877	52,368	EB

^{*} Built-In DC Link Inductor

VS1PF - 600V, 50/60 Hz, 3-Phase

Catalog Number	Frame	Hp (Normal Duty)	Output Current	List Price	Mult. Sym.
VS1PF57-1	А	7.5	9	1,380	EB
VS1PF510-1	А	10	12	1,680	EB
VS1PF515-1	А	15	17	1,801	EB
VS1PF520-1	С	20	23	2,233	EB
VS1PF525-9	С	25	27	2,640	EB
VS1PF530-9	E	30	34	3,481	EB
VS1PF540-9	Е	40	43	4,200	EB
VS1PF550-9	Н	50	55	5,041	EB
VS1PF560-9	Н	60	64	6,482	EB
VS1PF575-9	Н	75	80	7,799	EB
VS1PF5100-9	L	100	104	8,762	EB
VS1PF5125-9	L	125	128	10,800	EB
VS1PF5150-9L	N	150	150	12,481	EB

Farm Duty Motors

> ennite Purpose Motors

Jnit Handling Motors

Brake Motors

200 & 575 Volt Motors

Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Starters & Dynamic Brakes