BALDOR · RELIANCE .

Farm Duty Motors

Definite Purpose Motors

Unit Handling

VS1ST

AC Micro Drive

Inverter/Vector Motors & Controls

1/2 thru 1.5 Hp	115 VAC	1 Phase - 50/60 Hz
1/2 thru 3 Hp	230 VAC	1 Phase - 50/60 Hz
1/2 thru 5 Hp	230 VAC	3 Phase - 50/60 Hz
1 thru 10 Hp	460 VAC	3 Phase - 50/60 Hz

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 175% and PID capability. Flexible mounting options with IP20 enclosure as standard and DIN Rail mounting. Integral keypad, operator interface and local speed control. Basic set of programming parameters. Power ratings up to 10 Hp in both 230V and 460V versions.

Brake Motors	Performance Features	Control Modes	V/Hz
		Operator Interface Module	Integral Drive Mounted
kel		Display Lines	6-Character LED Display
Not		Programmable Preset Speeds	Four
lors		Analog Outputs	One (0-10 VDC)
		Auto Restart	Yes – Up to 5 attempts
		Frequency Avoidance	One Band
N		Fault History	Last Four Faults
_ 8		Digital Inputs: Four	Two Programmable Digital Inputs, Two user selectable analog/digital inputs
≤ ∞ of ຫ		Digital Inputs Type	Pull-Up
200 & 575 Volt Motors	Drive Specifications	Analog Inputs: Two	0-10VDC, 0 to 20mA or 4 to 20mA
≦		Relay Outputs: One	Built-in Form C Relay
7		Analog Output/Digital	0-10 VDC: One Analog Usable for Meter (Freq., Current, Voltage, or Digital Output/Digital Output)
		Maximum Load	10 Hp @ 460 VAC
		Overload Capacity	Drive Output 150% for one minute and 175% for 2 seconds
IEC Frame Motors		Input Voltage Ranges	115 VAC (99-126); 230 VAC (198-264); 460 VAC (342-528)
		Rated Input Frequency	50-60Hz (±5%)
ors		Carrier Frequency	4-32 kHz (8 kHz default)
" Ie		Operating Temperature	0° to 50°C
		Snubber (Dynamic Braking)	Built-in Transistor (Frames B & C)
		Dynamic Braking External	Up to 150% Dynamic Braking with appropriately sized resistor
		DC Injection Braking	Included
50 Hertz Motors		Volts/Hz	Linear V/Hz
			Energy Optimizer Function
ors		Frequency Control Range	0 - 500Hz
		Accel/Decel:	Independently adjustable accel. & decel. ramps
		Time Range:	0 to 600 Seconds
-		Keypad Speed Control	
함파		Sink/Source Inputs	Selectable, 24 VDC Logic
Inverter/Vector Motors & Controls		Electronic Overload Trip	Electronic Motor Overload Inverse 150% for 1 minute or 175% for 2
% %		Communications	Built-in MODBUS-RTU (RS-485) Communications
Cor	Protective Features	PID Control	Built-in Level Depends on Voltage Class (240, 480, or 575)
ਾਰ ਦੇ	Protective realures	Under Voltage Output Short Circuit	Phase-to-Phase on Drive Output
<u>N</u>		Over Temperature	Hase-to-Phase on Drive Output
		DC Bus Overvoltage	DC Bus Level Trip
<u>₽</u> _		Drive Overload	Exceed Drive rating of 150% for One Minute or 175% for 2 seconds
d X		Over Current	Over-current/short-Circuit protection
DC Motors and Controls		Output Phase	Trips on open Output Phase
ntro		Loss of Reference	Trips on Loss of Speed Command Signal
<u>v</u> .,		Comm. Error	Detects a communication error (fault)
	Agency Certifications		UL, cUL, CE, C-tick
	Service Conditions	Altitude	1,000 m (3,300 ft.), derate by 1% per 100m up to 2,000 on maximum.
Solyna		Ambient Temperature	IP20: -10°C (14°F) to 50°C (122°F)
Soft Start & Dynamic Bra		Storage Temperature	-40°C (-40°F) to 60°C (140°F)
sta c B		Relative Humidity	10% to 95%, non-condensing
3ral			

Dynamic Brakes