POWER ELECTRONICS

TECHNICAL CHARACTERISTICS

Variable Speed Drive

easy to drive

SD100 SERIES

1. TECHNICAL CHARACTERISTICS

INPUT	Power supply	200 to 230Vac (±10%)
	Input frequency	50 to 60 Hz ±5Hz
	Input power factor	> 0.98 (of fundamental)
	Momentary power loss	< 15ms (steady operation)
		> 15ms (auto-reset)
OUTPUT	Motor output voltage	0Vac to V. Input
	Overload capacity	150% for 60 sec
		200% for 1 sec
	Frequency ratings	0 to ±400Hz
	Efficiency (at full load)	>98%
	Control method	Space control technology
	Carrier frequency	Maximum 15kHz
ENVIRONMENTAL CONDITIONS	Degree protection	IP20
	Operation temperature	-10ºC to +50ºC
	Storage temperature	-20ºC to +65ºC
	Ambient humidity	< 90%, non-condensing
	Altitude	1000m
	Altitude de-rating (> 1000)	-1% per 100m; maximum 3000m
	Vibration	Maximum 5.9m/sec² (0.6G)
	Installation site	Environment with no corrosive gas, combustible gas, oil mist or dust
CONTROL	Control method	V/Hz control, Vector control (sensorless)
	Analogue inputs	1 input 0 – 10Vdc
		1 input 0 – 20mA
	Digital inputs	5 programmable inputs
	Analogue outputs	1 output 0 – 10Vdc
	Digital outputs	1 programmable output open collector (24Vdc, 50mA)
		1 programmable output relay (125Vac, 0.5A; 30Vdc, 2A)
	Communication port	RS485 and Modbus protocol (optional)
	Operation methods	PID control, motorized potentiometer, 3-wires control
	Certified	CE, ISO9001, ISO14000
DRIVE PROTECTIONS	Over-voltage Low input voltage Over-current Ground fault Motor and drive over-temperature Output phase loss Overload Communication error Reference frequency loss Hardware fault	
MOTOR PROTECTIONS	Motor over-temperature Stall prevention Overload	