ACS255, micro drive, UL Type 4X
Data sheet

0.5 - 1.5 HP (1~115 V In/ 3~230V Out)
0.5 - 5 HP (1~230 V In/ 3~230V Out)
0.5 - 5 HP (3~230 V In/Out)
1 - 10 HP (3~460 V In/Out)
1 - 15 HP (3~600 V In/Out)

Input ratings	Input voltage range	115 VAC (99-126); 230 VAC (198-264); 460 VAC (342-528); 600 VAC (450-660)
	Input voltage tolerance	+/-10%
	Phase	1-phase 115/230 V, 3-phase 230/460/600 V
	Frequency	50-60 Hz (±5%)
	Short circuit rating (UL 508c)	100,000 rms symmetrical amperes up to 600 V when input cables protected by class T fuses or similar type fuse.
Output ratings	Horsepower	0.5 - 1.5 HP @ 120 V In/230 V Out 0.5 - 5 HP @ 1~230 V In/3~230 V Out 0.5 - 5 HP @ 3~230 V In/Out 0.5 - 10 HP @ 3~460 V In/Out 1 - 15 HP @ 3~600 V In/Out
	Overload capacity	150% for one minute and 175% for 2 seconds
	Frequency	0-500 Hz
	Voltage	0 to maximum input voltage
	Motor types	Asynchronous AC induction or permanent magnet synchronous motors
Protective features	Overcurrent	Over-current/short-circuit protection
	DC overvoltage	DC bus level trip
	Overtemp	Heat sink monitor
	Short circuit	Phase-to-phase or phase-to-earth on drive output
	Undervoltage	Level depends on voltage class
	Comm Loss	Communication loss with controller
	Motor overtemp	Protected (I2t)
	Loss of keypad	N/A
	Input Phase Loss	3-phase drive has lost phase
	Ground fault	Ground fault detected in motor or motor cables
	Motor phase fault	N/A
Environmental	Temperature	-10°C (14°F) to 40°C (104°F)
	Cooling	Convection
	Enclosure	IP66 (NEMA 4X)
	Altitude	1,000 m (3,300 ft.), derate by 1% per 100M up to 2,000 on maximum
	Humidity	10% to 95%, non-condensing
Keypad display	Display	7-segement display
	Keys	5 key keypad
	Functions	Output status monitoring, digital speed control, parameter setting and display, diagnostic and fault log display, motor run
	Remote mount	Optional Keypad can be remote mounted
	Trip	Last four faults stored in fault history
Control specifica-tions	Switching frequency	4-32 kHz (8 kHz default)
	Accel/decel	0.00 to 600.0 Seconds
	Speed control accuracy (with open loop vector control)	Better than 0.5% speed holding accuracy
	Skip frequencies	One configurable bands 0 to maximum frequency
	PC setup software	N/A
	Maximum output frequency	500 Hz
	Primary command source modes	Terminal mode, keypad mode, fieldbus control, User PI mode
	Selectable operating modes	General, pump, or fan
Analog inputs	Two differential current or voltage	0-10 VDC, 4 to 20mA
	Resolution	11 bit + sign
Analog outputs	Analog output / digital outout	0-10 VDC: one analog usable for meter (freq., current, voltage) or digital output
	Frequency range	N/A
	Resolution	N/A
Digital inputs	Four digital inputs	Two programmable digital inputs, two user selectable analog/digital inputs - pull up
	Input impedance	PNP, 12-24VDC, (10V logic 0), 2.4KΩ
	Filtering	N/A
Digital outputs	One relay outputs	Built-in form C relay
	Maximum switching voltage	250 V AC / 30 V DC
	Maximum continuous current	2 A rms