

590+ DRV Series DC Drive – 220-660 VAC ±10%; 50-60 Hz ±5%

FRAME SIZE		1	2	3	4	5	7
Dimensions	(RG)	373 x 196 x 229 14.7 x 7.7 x 9	500 x 196 x 295 19.7 x 7.7 x 11.6	686 x 432 x 241 27 x 17 x 9.5	1092 x 549 x 386 43 x 21.6 x 15.2	1422 x 965 x 470 56 x 38 x 18.5	1727 x 1524 x 457 68 x 60 x 18
	(NRG)						1422 x 1422 x 457 56 x 56 x 18
Weight (Kg/Lb.)		8.2 / 18	17 / 36	82 / 180	191 / 420	261 / 575	??? / ???
Encl. Protection		IP20 Open Chassis					
Mounting Options		Panel					
Cooling Fan		Internal					External – 120V
Supply		Three-Phase					
POWER RATINGS							
HP at 230 VAC		3 – 10	15 – 50	60 – 75	100 – 250	–	–
HP at 460 VAC		7.5 – 20	30 – 100	125 – 150	200 – 500	600 – 900	600 – 1500
HP at 575 VAC		–	–	–	250 – 600	700 – 1100	700 – 1750
HP at 660 VAC		–	–	–	–	–	900 – 2000
Current		15 – 35	55 – 165	206 – 246	360 – 815	1000 – 1500	1050 – 2400
FIELD SUPPLY RATINGS							
Volts		Adjustable from 0 – 90% VDC of input supply (default is 90%)					
Current		4	10	10	30	30	60
External Supply Connection		No	Yes				
OPTIONS AND TECHNICAL SPECIFICATIONS							
Keypad Type		6901 – Standard remote mountable, does not hold configuration					
Control Supply TX		Optional	220/240/440/480 – 110/120 Standard				
Supply Fuses		Standard					
Armature Fuse		Standard – Regenerative units only					
Contactor		AC	3-pole DC	200/250 hp frame 4 has 3 pole DC, 300 hp and higher has DC 1-pole DC			
DB Contact		Need external option	Standard	Need external option			
Blower Starter Option		Yes					
Ambient		0-45°C (32-113°F); Derate 1% per °C to 55°C (131°F) maximum			0-40°C (32-104°F); Derate 1% per °C to 55°C (131°F) maximum		
Altitude		500m (1640 ft.) ASL; derate 1% per 200m (656 ft.) above 500m (1640 ft.) to 5000m (16400 ft.) max.					
Overload		200% for 10 seconds, 150% for 30 seconds					
INPUTS AND OUTPUTS							
Analog Inputs		Five; one dedicated for Speed or Current Demand, four configurable; 12-bit, 0 – 10 or ±10 VDC at 1mA, 10ms, 100K ohms impedance					
Analog Outputs		Three; one dedicated for Armature Current Output, two configurable; (0 – 10 or ±10 VDC); 10 bit, 5mA					
Digital Inputs		Nine; four dedicated (Program Stop / Coast Stop / Start / Run), five configurable; 15mA at 24 VDC, 10ms, 4.7K ohm impedance					
Digital Outputs		Three configurable; 24 VDC, 10ms, 100mA					
Thermistor Input		Isolated (TH1, TH2 only)					
Speed Feedback Option Cards		Analog Tachometer (AH385870U001) for 10-199V AC or DC tachometers Encoder (AH387775U0xx – xx = 05, 12, 15, or 24); Line driver output, 100 kHz, 10mA per channel Acrylic Microtach (AH386025U002), Glass Microtach (AH386025U001); 100 kHz,					
STANDARDS (SEE PRODUCT MANUAL FOR INSTALLATION REQUIREMENTS TO MEET REQUIRED STANDARDS)							
UL & cUL (Canada)		Listed component under UL508C (industrial control equipment)					
EMC Standards		EN55011 (1991), EN50081-2 (1994), EN50082-2 (1995)					
CE		EN50178 (1998) and EMC standards (when used as stand-alone equipment) EN60204-1 and EMC standards (when used as part of other equipment)					
SOFTWARE AND COMMUNICATIONS							
Setup		Configuration using the keypad or software (DSELite) of all function blocks					
Communication		P3 programming port included					
Techbox Options		Link, Profibus, DeviceNet, ControlNet, CanOpen, LonWorks, Ethernet IP, Ethernet Modbus TCP, ModbusPlus and Serial (Modbus RTU/EI Bisynch)					

590+ Series DC Controller – 220-660 VAC ±10%; 50-60 Hz ±5%												
FRAME SIZE		1	2	3	4	5	7					
Dimensions	(RG)			500 x 300 x 211 19.7 x 11.8 x 8.3	700 x 253 x 358 27.6 x 10 x 14.2	700 x 506 x 358 27.6 x 20 x 14.2	1407 x 851 x 349 55.4 x 33.5 x 16.4					
	(NRG)			82 / 180	191 / 420	261 / 575	955 x 851 x 349 37.6 x 33.5 x 16.4					
Weight (Kg/Lb.)	(RG)					82 / 180	191 / 420	261 / 575	288.5 / 636			
	(NRG)							Open Chassis		178.5 / 394		
Encl. Protection								Panel				
Mounting Options								Internal				External – 120V
Cooling Fan			Three-Phase									
Supply												
POWER RATINGS												
HP at 230 VAC					60 – 75	100 – 250	–	–				
HP at 460 VAC	125 – 150	200 – 500			600 – 900	600 – 1500						
HP at 575 VAC	–	250 – 600			700 – 1100	700 – 1750						
HP at 660 VAC	–	–			–	900 – 2000						
Current	246	380 – 830			1580	1050 – 2400						
FIELD SUPPLY RATINGS												
Volts			Adjustable from 0 – 90% VDC of input supply (default is 90%)									
Current			10	30	30	60						
External Supply Connection			Yes									
OPTIONS AND TECHNICAL SPECIFICATIONS												
Keypad Type			6901 – Standard remote mountable, does not hold configuration									
Ambient			0-45°C (32-113°F); Derate 1% per °C to 55°C (131°F) maximum			0-40°C (32-104°F); Derate 1% per °C to 55°C (131°F) maximum						
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