

GV3000/SE AC Drives

MODIFIED STANDARD V*S DRIVES GV3000/SE NEMA Style Drives: 460 VAC

Refer to the Standard Motor and Drives Catalog for Standard features and Standard options.



Base Drive MN	30V4160	40V4160	50V4160		200V4160	250V4160	300V4160	350V4160	400V4160
HP Rating	30	40	50	See Power Module pricing for ratings from 60 to 200	200	250	300	350	400
FLA @ 4 kHz	40	54	67		240	302	361	414	477
Base Drive List	\$7,722	\$8,692	\$9,249		\$27,950	\$30,900	\$36,668	\$38,561	\$42,053
Enclosure Options									
NEMA 1 Cabinet	3,950	3,950	3,950		Standard	Standard	Standard	Standard	Standard
NEMA 1A - Force Vent w/ Fan & Filter (Add to NEMA 1 List Price)	693	693	693		Standard	Standard	Standard	Standard	Standard
NEMA 12/4 Cabinet	7,800 ⁽²⁾	7,800 ⁽²⁾	8,200 ⁽²⁾		CF	CF	CF	CF	CF
2nd Bay - 24" Rittal Structure	NA	NA	NA		3,285	3,285	3,285	3,285	3,285
Input Protection & Disconnect Options									
Input Fuses Only	317	317	611		Standard	Standard	Standard	Standard	Standard
Fused Disconnect Switch & Door Handle	757	757	1,208		2,825	2,825	2,825	2,825	2,825
Circuit Breaker Only	865	911	911		NA	NA	NA	NA	NA
Circuit Breaker Disconnect & Door Handle	1,131	1,177	1,177		NA	NA	NA	NA	NA
Door Mounted Operator Devices									
Door Mounted OIM ⁽⁶⁾	754	754	754		LED OIM Standard	LED OIM Standard	LED OIM Standard	LED OIM Standard	LED OIM Standard
Maintained Start/Stop Switch	106	106	106		106	106	106	106	106
Momentary Start/Stop Pushbuttons	172	172	172		172	172	172	172	172
E-Stop Pushbutton (Mushroom Head)	120	120	120		120	120	120	120	120
Jog Pushbutton	86	86	86		86	86	86	86	86
2 or 3 Position Selection Switch	120	120	120		120	120	120	120	120
Pilot Light ⁽¹⁾	86	86	86		86	86	86	86	86
Contactors, Overloads, Starters, Control Transformers & Line Reactors									
Input Contactor ⁽¹⁾	467	467	467		⁽⁵⁾	2,966 ⁽⁴⁾	2,966 ⁽⁴⁾	2,966 ⁽⁴⁾	2,966 ⁽⁴⁾
Output Contactor ⁽¹⁾	467	467	467		⁽⁵⁾	2,966 ⁽⁴⁾	2,966 ⁽⁴⁾	2,966 ⁽⁴⁾	2,966 ⁽⁴⁾
Drive Bypass Control ⁽¹⁾	1,185	1,286	1,286		⁽⁵⁾	6,763 ⁽⁴⁾	6,763 ⁽⁴⁾	6,763 ⁽⁴⁾	6,763 ⁽⁴⁾
Motor Overload Relay	181	376	376		⁽⁵⁾	430 ⁽⁴⁾	430 ⁽⁴⁾	430 ⁽⁴⁾	430 ⁽⁴⁾
Blower Motor Starter ⁽¹⁾	408	408	408		⁽⁵⁾	408	408	408	408
Control Transformer: 460:120 VAC, 250 VA	375	375	375		⁽⁵⁾	375 ⁽⁴⁾	375 ⁽⁴⁾	375 ⁽⁴⁾	375 ⁽⁴⁾
3% Impedance Input Line Reactor	640	706	774		⁽⁵⁾	2,966 ⁽⁴⁾	3,101 ⁽⁴⁾	4,018 ⁽⁴⁾	4,369 ⁽⁴⁾
Dynamic Braking - Transistor + Resistor									
20% Duty Braking ⁽³⁾	CF	CF	CF	CF	CF	CF	CF	CF	CF
>20% Duty Braking ⁽³⁾	CF	CF	CF	CF	CF	CF	CF	CF	CF

(1) Requires Control Transformer option

(2) Usually includes a cooling device and control transformer

(3) Dynamic Braking resistors may be mounted externally on top of cabinet

(4) Requires the Adder for a second cabinet bay

(5) Price Power Module Style Drive (page D-18MOD) for 200 HP GV3000 drives requiring these modifications.

(6) Not available on NEMA 4 enclosures

CF = Contact Factory

DISCOUNT: MS-1AC

GV3000 ENCLOSURE DIMENSIONS

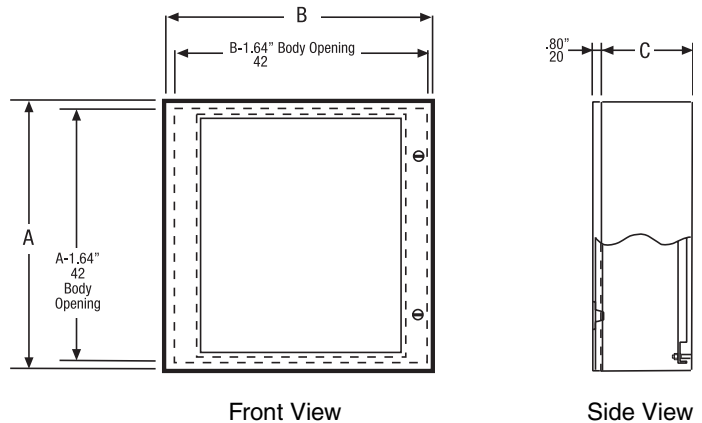
GV3000 HP	IP20 / NEMA 1	IP65 / NEMA 4	IP54 / NEMA 12
1.0 - .5.0	A	B	B
7.5 - 15	B	C	C
20	B	C ⁽²⁾	C ⁽²⁾
25 - 30	C	C ⁽²⁾	C ⁽²⁾
40	C	C ⁽²⁾	C ⁽²⁾
50	C	C ⁽²⁾	C ⁽²⁾
60	C	C ⁽²⁾	C ⁽²⁾
75	D	E ⁽²⁾	D ⁽²⁾
100	D ⁽¹⁾	E ⁽²⁾	D ⁽²⁾
125	D ⁽¹⁾	E ⁽²⁾	D ⁽²⁾
150	D ⁽¹⁾	E ⁽²⁾	D ⁽²⁾
200	D ⁽¹⁾	E ⁽²⁾	D ⁽²⁾
200V4160	Standard	N/A	Consult Factory
250V4160	Standard	N/A	
300V4160	Standard	N/A	
350V4160	Standard	N/A	
400V4160	Standard	N/A	

- (1) NEMA 1 drives will usually include a fan and filter for positive pressure ventilation.
- (2) NEMA 4 and 12 drives usually include a cooling device.

Wall-Mounted Cabinets*

Cabinet Version	Enclosure Size (AxBxC) mm(in)	Approximate Weight kg(lb)
A	610(24)x610(24)x406(16)	40(89)
B	914(36)x762(30)x406(16)	47(103)
C	1219(48)x914(36)x406(16)	59(130)

Wall-mounted cabinets are gray with white interior panels. Enclosures with heat exchangers add 8 inches to width.



Floor-Mounted Cabinets*

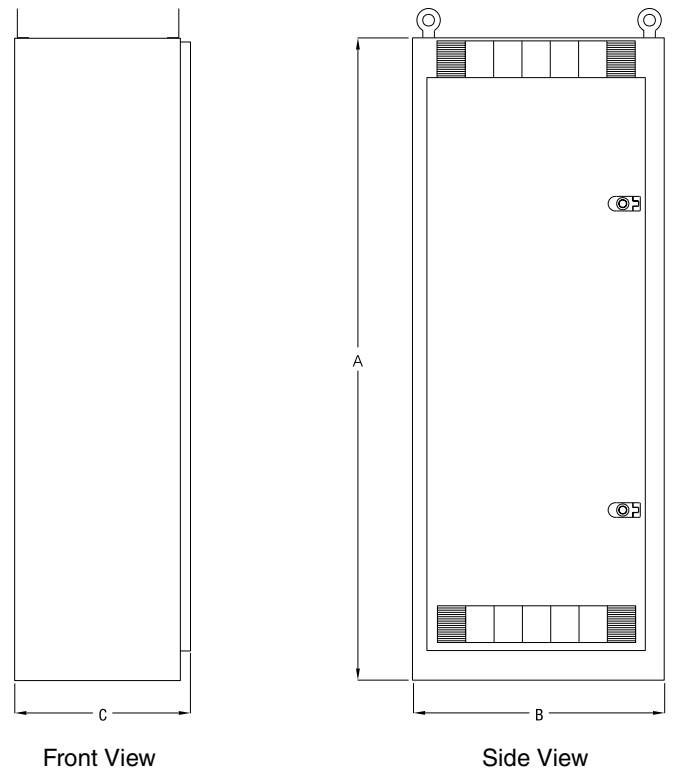
Cabinet Version	Enclosure Size (A x B x C) mm (in)	Approximate Weight kg(lb)
D	2204 (87) x 864 (34) x 610 (24)	328 (725)
E	1830 (72) x 914 (36) x 610 (24)	328 (725)

- Version "E" is NEMA 4 only.
- Versions "D" and "G" cabinets are gray with white interior panels.

Enclosures with heat exchanges add about 10 inches to the width.

Enclosures with air conditioners add 15 inches to the width.

* Dimensions are estimates and are subject to change after engineering and drafting.



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GV3000/SE MODIFICATIONS AND OPTIONS

Factory Installation of Standard Kits

The following installation options allow kits to be preinstalled.

Note: The price includes installation and the kit only. The drive is to be priced separately.

Factory Installed Kits				
Kit M/N	Description	Kit and Installation List	Enclosure Required	Notes
2SI3000	Super RMI Card ⁽¹⁾	\$675	no	
2LB3000	115 V Control Interface	930	no	
2RK3000	Cabinet Mounted OIM	754	yes	Not available on NEMA 4 applications
2AX3000	AutoMax Network Card ⁽¹⁾	630	no	
2DV3000	DeviceNet Card ⁽¹⁾	1,050	no	
2NB3000	Interbus S Network ⁽¹⁾	980	no	
2CN3000	ControlNet 1.5 ⁽¹⁾	980	no	
2PB3000	Profibus DP Card	1,150	no	

(1) Only one I/O or communication card can be added in the GV3000. A 2LB3000 can also be added but must be supplied loose or will be panel mounted in the GV3000/SE pre-configured enclosure.

Pre-Defined Operator Interface

The following are commonly requested operator interface functions and devices. Each option includes the appropriate operator device(s), engraved nameplate(s) (if specified), and any additional control hardware required for the pre-defined function. These options require an enclosure option to also be selected.

Pre-Defined Operator Interface		
Description	List	Notes
Start, Stop PB	\$172	
Jog PB	86	
Auto/Manual SS	120	
Speed Pot	150	
E-stop PB	190	
E-stop PB, Reset PB	190	
Drive Mode, Bypass Mode PL's ⁽¹⁾	270	Requires Bypass Option
Forward/Reverse SS	120	
Power On, Run & Drive Fault PL's ⁽¹⁾⁽²⁾	405	
Nameplate, lamacoid	35	Specify wording on order form
Relay, Plug-in 24 VDC/115 VAC coil ⁽¹⁾	270	
Timer Relay Electronic - 2 Form C Contacts ⁽¹⁾	360	
Voltage Relay - Electronic - 2 Form C Contacts ⁽¹⁾	360	
Brake Control AC Type with Contactor and Fuses ⁽¹⁾	655	
Cabinet Space Heater	600	Requires customer supplied 115 VAC

(1) 115 VAC control transformer must be included for this option

(2) Super RMI card is required for this modification. Add 2SI3000

DISCOUNT: MS-1AC