

# GA800

## 600 VAC DRIVE FOR INDUSTRIAL APPLICATIONS

### 400 - 500 HP: NORMAL DUTY

### 350 - 450 HP: HEAVY DUTY

- Same features and capabilities as 240 V and 480 V classes of GA800
- Optimized for 600V power systems, but also operable on 480V power systems (at reduced power)
- Available in IP20 protected chassis for cabinet mounting with heatsink internal or external (rated 50°C)
- Approximate Dimensions: H = 44.7", W = 20.1", D = 18.9"
- Available in Flange chassis (Type 12 backside) for dust protection when mounting heatsink external (rated 50°C)
- Type 1 adapter available for standalone installations (rated 40°C), including support for fuses ((increases total height to approximately 70.6")



## RATINGS AND MODELS

Normal Duty (ND) Output		Heavy Duty (HD) Output		Standard IP20 Drives	Flange Drives (Type 12 Backside)
HP	Amps	HP	Amps	Catalog Code GA80U	Catalog Code GA80U
400	382	350	336	5382ABM	5382AWM
450	412	400	382	5412ABM	5412AWM
500	472	450	412	5472ABM	5472AWM

## TYPE 1 ADAPTERS

Drive Catalog Code	Type 1 Adapters	Internal Fuses (Bussman FWP Series)
GA80U	Part Number	Part Number
5382ABM	UUX001701	UFU00254
5412ABM	UUX001701	UFU00254
5472ABM	UUX001701	O5P00017-0214

# GA800 600 V SPECIFICATIONS

## SPECIFICATIONS

Item	Specification
Overload Capacity	150% for 60 sec. (HD), 110% for 60 sec. (ND)
Output Frequency	0 to 590 Hz
Control Methods	Open and Closed Loop Current Vector Open and Closed Loop V/f
Motor Types	Induction Synchronous Reluctance
Protective Design Types	IP20 (NEMA 1 kit available) Flange (Type 12 backside)
Ambient Operating Temperature	-10 to +50°C (IP20 and flange types) -10 to +40°C (with NEMA 1 kit) Up to +60°C (with derate)
Global Certifications	UL, CSA, RoHS
Functional Safety	FS certifications pending (consult factory)
Standard I/O	(8) multi-function digital inputs (24Vdc) (3) multi-function analog inputs (0 +/- 10 VDC, 4-20 mA) (1) multi-function pulse inputs (2) Safe Torque Off inputs (1) fault relay output (form C) (3) multi-function relay outputs (form A) (2) multi-function analog output (0 +/- 10 VDC, 4-20mA) (1) multi-function pulse output
I/O Expansion	(3) Analog Inputs -10 to +10V, 13 bit plus sign, 4 to 20mA (16) Digital Inputs (2) Analog Outputs (-10 to +10V, 11 bit magnitude) (8) Digital Outputs (6 transistor, 2 relay)
Feedback (optional)	Incremental Absolute (Stegmann, Heidenhain, Resolver)
Network Communication	Standard: Modbus RTU, RS-485, 115 kbps Optional: EtherNet/IP, DeviceNet, Modbus TCP/IP, PROFINET, PROFIBUS-DP
Speed Control Range	1500:1 Closed Loop Vector (IM and PM Motors) 200:1 Open Loop Vector (IM Motors)
Speed Control Accuracy	≤ 0.02%: Closed Loop Vector; ≤ 0.2%: Open Loop Vector
Speed Response	≥ 50 Hz: Closed Loop Vector ≥ 20 Hz: Open Loop Vector
Function Block Diagrams	Up to 200 connections, 500 μs program scan time

IT'S PERSONAL

**YASKAWA**

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