

G9[®] ASD Specifications

The G9 adjustable speed drive is the most advanced low voltage, severe duty drive ever offered by Toshiba. Designed with the end-user in mind, this drive combines a rugged, proven power platform with the latest in power devices and an advanced micro-processor to provide users with a smarter, stronger, more reliable drive with flexible application control.

Product Scope

200 to 230 V at 0.75 to 100 HP
380 to 460 V at 1 to 350 HP

Highlights

- 115% Continuous Overload Rating, 150% for 120 Seconds¹
- Eight Programmable Discrete Inputs
- Three Programmable Discrete Output Contacts: One Form-C & Two Form-A
- Three Programmable Inputs: One 0 to 20 mA or 0 to 10 VDC Input, One 0 to 10 VDC Input, & One ± 10 VDC Input
- Two Programmable Analog Output: FM Terminal from 0 to 20 mA or 0 to 10 VDC & AM Terminal from 0 to 20 mA
- Regenerative Power Ride-Through
- DC-Link Reactors on Most HP Ratings
- Two-Wire/Four-Wire RS485
- Auto-Restart Operation/Catch a Spinning Motor

Standard Features

- UL Type-1 & NEMA 1 Enclosure
- Built-In Dynamic Braking Circuit
- 100 KAIC or 200 KAIC
- Built-In Real-Time Clock
- EOI: Backlit Plain-English LCD & Four-Digit/Seven-Digit LED Display
- Save, Restore, & Clone Multiple Drive Settings
- Ambient Temperature: 14° to 104°F (-10° to 40°C)
- Altitude: Up to 1000 Meters without Derate
- Humidity: 95% Non-Condensing
- Standards/Compliance: UL Listed in US & Canada, & American Recovery & Reinvestment Act Compliant (ARRA)



¹ 110% Continuous, 150% for 60 Seconds (≥ 60 HP, 230 V; 100 HP, 460 V)



G9® ASD**G9 230 V Power Unit
Pricing & Dimensions**

VAC	HP	FLA	Model Number	Frame	H	W	D	Shipping Weight (lbs.)
					Dimensions (in.)			
230	0.75	3.5	VT130G9U2010	2	11.2	5.2	6.1	8
230	1	4.2	VT130G9U2015	2	11.2	5.2	6.1	8
230	2	6.9	VT130G9U2025	2	11.2	5.2	6.1	8
230	3	10.0	VT130G9U2035	3	12.4	6.1	6.6	12
230	5	15.2	VT130G9U2055	3	12.4	6.1	6.6	12
230	7.5	23.8	VT130G9U2080	4	15.0	6.9	6.6	17
230	10	28.6	VT130G9U2110	5A	15.1	8.3	7.6	21
230	15	46.8	VT130G9U2160	5B	19.3	9.1	7.6	38
230	20	57.2	VT130G9U2220	5B	19.3	9.1	7.6	38
230	25	76.0	VT130G9U2270	6	25.9	11.1	13.2	97
230	30	90.0	VT130G9U2330	7B	33.1	14.3	15.0	165
230	40	104	VT130G9U2400	7B	33.1	14.3	15.0	165
230	50	152	VT130G9U2500	7B	33.1	14.3	15.0	165
230	60	176	VT130G9U2600	7B	33.1	14.3	15.0	165
230	75	221	VT130G9U2750	9	51.7	14.6	17.6	321
230	100	285	VT130G9U210K	10	53.1	14.8	17.6	362

G9[®] ASD

460 V G9 Power Unit Pricing & Dimensions



VAC	HP	FLA	Model Number	Frame	H	W	D	Shipping Weight (lbs.)	
					Dimensions (in.)				
460	1	2.7	VT130G9U4015		2	11.2	5.2	6.1	9.0
460	2	3.6	VT130G9U4025		2	11.2	5.2	6.1	9.0
460	3	5.0	VT130G9U4035		2	11.2	5.2	6.1	9.0
460	5	9.1	VT130G9U4055		3	12.4	6.1	6.6	12.0
460	7.5	12.4	VT130G9U4080		4	15.0	6.9	6.6	17.0
460	10	15.3	VT130G9U4110		4	15.0	6.9	6.6	17.0
460	15	24.0	VT130G9U4160		5A	15.1	8.3	7.6	22.0
460	20	28.6	VT130G9U4220		5B	19.3	9.1	7.6	38.0
460	25	35.7	VT130G9U4270		5B	19.3	9.1	7.6	38.0
460	30	42.0	VT130G9U4330		6	25.9	11.1	13.2	96.0
460	40	57.2	VT130G9U4400		7A	30.8	11.1	14.3	124
460	50	68.5	VT130G9U4500		7A	30.8	11.1	14.3	124
460	60	81.5	VT130G9U4600		8	36.1	14.3	15.3	183
460	75	100.8	VT130G9U4750		8	36.1	14.3	15.3	183
460	100	138.7	VT130G9U410K		8	36.1	14.3	15.3	183
460	125	179	VT130G9U412K		9	51.7	14.6	17.6	321
460	150	215	VT130G9U415K		10	53.2	15.7	17.6	362
460	200	259	VT130G9U420K		11	63.1	15.0	17.6	405
460	250	314	VT130G9U425K		12	68.5	18.9	17.6	596
460	300	387	VT130G9U430K		13	70.0	25.6	17.6	860
460	350	427	VT130G9U435K		13	70.0	25.6	17.6	860

AS3/AS1

G9/P9

GX9

Micro Drives

W7/WX9

Plus Pack

LV Options

Reactors & Filters

G9® ASD

Assembly Unit Numbering Convention

The G9 assembly unit combines the G9 power unit with commonly used options such as manual bypass and input disconnects in an easy-to-install turn-key package. G9 assembly units include a ground lug and door-mounted electronic operator interface.

Bypass units include an ASD/bypass selector switch, a bypass-start lighted push-button (red), and a bypass-stop lighted push-button (green). They are used for system control and are all located on the enclosure door.

Ordering Information: Use the following part numbering convention to configure the G9 assembly unit package when placing your order.

Example Part Number:	G9	4	###/###K	AA
Series: G9 — G9 ASD				
Voltage: 2 — 230 4 — 460				
Model Number: 010 — 0.75 HP 015 — 1 HP 025 — 2 HP 035 — 3 HP 055 — 5 HP 080 — 7.5 HP 110 — 10 HP 160 — 15 HP 220 — 20 HP 270 — 25 HP 330 — 30 HP 400 — 40 HP 500 — 50 HP 600 — 60 HP 750 — 75 HP 10K — 100 HP 12K — 125 HP 15K — 150 HP 20K — 200 HP 25K — 250 HP 30K — 300 HP 35K — 350 HP				
Style: AA — Includes Motor Circuit Protector AE — Includes Motor Circuit Protector, Three-contactor Bypass, and Overload Protection				



VAC	HP	FLA	Model Number		H	W	D
					Dimensions (in.)		
AA - Includes Motor Circuit Protector							
230	3	10.0	G92035AA		36	24	10
230	5	15.2	G92055AA		36	24	10
230	7.5	23.8	G92080AA		48	24	12
230	10	28.6	G92110AA		48	36	20
230	15	46.8	G92160AA		48	36	20
230	20	57.2	G92220AA		48	36	20
230	25	76	G92270AA		48	36	20
230	30	90	G92330AA		60	36	20
230	40	104	G92400AA		60	36	20
230	50	152	G92500AA		90	36	24
230	60	176	G92600AA		90	36	24
230	75	221	G92750AA		90	36	24
230	100	285	G9210KAA		90	48	30

VAC	HP	FLA	Model Number		H	W	D
					Dimensions (in.)		
AE - Includes Motor Circuit Protector, Three-Contactor Bypass, and Overload Protection							
230	3	10.0	G92035AE		36	24	10
230	5	15.2	G92055AE		36	24	10
230	7.5	23.8	G92080AE		48	24	12
230	10	28.6	G92110AE		48	36	20
230	15	46.8	G92160AE		48	36	20
230	20	57.2	G92220AE		48	36	20
230	25	76	G92270AE		48	36	20
230	30	90	G92330AE		60	36	20
230	40	104	G92400AE		60	36	20
230	50	152	G92500AE		90	36	24
230	60	176	G92600AE		90	36	24
230	75	221	G92750AE		90	36	24
230	100	285	G9210KAE		90	48	30

For quotes, please contact TIC-ASD@toshiba.com

G9® ASD

460 V G9 Assembly Unit
Pricing & Dimensions

VAC	HP	FLA	Model Number		H	W	D
					Dimensions (in.)		
AA - Includes Motor Circuit Protector							
460	5	9.1	G94055AA		36	24	10
460	7.5	12.4	G94080AA		36	24	10
460	10	15.3	G94110AA		48	24	12
460	15	24.0	G94160AA		48	36	20
460	20	28.6	G94220AA		48	36	20
460	25	35.7	G94270AA		48	36	20
460	30	42.0	G94330AA		48	36	20
460	40	57.2	G94400AA		48	36	20
460	50	68.5	G94500AA		48	36	20
460	60	81.5	G94600AA		60	36	20
460	75	101	G94750AA		60	36	20
460	100	139	G9410KAA		90	36	24
460	125	179	G9412KAA		90	36	24
460	150	215	G9415KAA		90	36	24
460	200	259	G9420KAA		90	48	30
460	250	314	G9425KAA		90	48	30
460	300	387	G9430KAA		90	48	30
460	350	427	G9435KAA		90	48	30

VAC	HP	FLA	Model Number		H	W	D
					Dimensions (in.)		
AE - Includes Motor Circuit Protector, Three-Contactor Bypass, and Overload Protection							
460	5	9.1	G94055AE		36	24	10
460	7.5	12.4	G94080AE		36	24	10
460	10	15.3	G94110AE		48	24	12
460	15	24.0	G94160AE		48	36	20
460	20	28.6	G94220AE		48	36	20
460	25	35.7	G94270AE		48	36	20
460	30	42.0	G94330AE		48	36	20
460	40	57.2	G94400AE		48	36	20
460	50	68.5	G94500AE		48	36	20
460	60	81.5	G94600AE		60	36	20
460	75	101	G94750AE		60	36	20
460	100	139	G9410KAE		90	36	24
460	125	179	G9412KAE		90	36	24
460	150	215	G9415KAE		90	36	24
460	200	259	G9420KAE		90	48	30
460	250	314	G9425KAE		90	48	30
460	300	387	G9430KAE		90	48	30
460	350	427	G9435KAE		90	48	30



G9 230V Assembly Unit Enclosure Options

Suffix	Description	
NF	1 to 25 HP Fan & Filtered Dust-inhibiting Enclosure	
	30 to 100 HP Fan & Filtered Dust-inhibiting Enclosure	
	125 HP Fan & Filtered Dust-inhibiting Enclosure	
N3	1 to 25 HP Fan & Filtered Enclosure for Outdoor Use	
	30 to 100 HP Fan & Filtered Enclosure for Outdoor Use	
NC	0.75 to 7.5 HP NEMA 12 Option	
	10 to 15 HP NEMA 12 Option	
	20 to 50 HP NEMA 12 Option	
	60 to 100 HP NEMA 12 Option	
N4	0.75 to 7.5 HP NEMA 4 Option	
	10 to 25 HP NEMA 4 Option	
	30 to 50 HP NEMA 4 Option	
	60 to 100 HP NEMA 4 Option	

G9 460V Assembly Unit Enclosure Options

Suffix	Description	
NF	1 to 50 HP Fan & Filtered Dust-inhibiting Enclosure	
	60 to 200 HP Fan & Filtered Dust-inhibiting Enclosure	
	250 to 350 HP Fan & Filtered Dust-inhibiting Enclosure	
N3	1 to 50 HP Fan & Filtered Enclosure for Outdoor Use	
	60 to 200 HP Fan & Filtered Enclosure for Outdoor Use	
	250 to 350 HP Fan & Filtered Enclosure for Outdoor Use	
NC	1 to 15 HP NEMA 12 Option	
	20 to 30 HP NEMA 12 Option	
	40 to 100 HP NEMA 12 Option	
	125 to 200 HP NEMA 12 Option	
	250 to 350 HP NEMA 12 Option	
N4	1 to 15 HP NEMA 4 Option	
	20 to 30 HP NEMA 4 Option	
	40 to 100 HP NEMA 4 Option	
	125 to 200 HP NEMA 4 Option	
	250 to 350 HP NEMA 4 Option	