

Single Phase Derate on GA500 Drives

Topic Description

Often at times, it may be desired to use **single phase input** on **GA500** drives.

Resolution

Refer to the tables below when choosing a **GA500** drive model for use with **single phase input**.

240V - 1-PH Input Models

Voltage	Catalog Code	Normal Duty		Heavy Duty	
		HP	Amps	HP	Amps
240V	GA50UB001XXX*	1/6	1.2	1/6	0.8
	GA50UB002XXX*	1/4	1.9	1/4	1.6
	GA50UB004XXX*	3/4	3.5	1/2	3
	GA50UB006XXX*	1.5	6	1	5
	GA50UB010XXX*	3	9.6	2	8
	GA50UB012XXX*	3	12.2	3	11
	GA50UB018XXX*	NA	NA	5	17.6

* The "XXX" represents the drive variant. Refer to the [GA500 Catalog Code key](#).

240V - 1-PH Input Derated Models

Voltage Class	Catalog Code	No Reactor		With Reactor					
		Drive Output Capacity		Drive Output Capacity		AC Input Type		DC Bus Type	
		Motor Power (HP)	Motor FLA	Motor Power (HP)	Motor FLA	Open	UL Type 1 Enclosed	Open	UL Type 1 Enclosed
						Reactor Part Number	Reactor Part Number	Reactor Part Number	Reactor Part Number
240V	GA50U2001XXX*	-	-	1/8	0.61	URX000283	URX000652	URX000033	URX000215
	GA50U2002XXX*	1/8	0.61	1/4	1.16	URX000291	URX000651	URX000036	URX000207
	GA50U2004XXX*	1/4	1.16	1/3	1.52	URX000295	URX000409	05P00608-3007	URX000208
	GA50U2006XXX*	1/3	1.52	1/2	2.2	URX000299	URX000410	05P00608-3007	URX000208
	GA50U2010XXX*	1/2	2.2	1	4.2	URX000303	URX000411	URX000043	N/A
	GA50U2012XXX*	1	4.2	1.5	6	URX000307	URX000413	05P00620-0113	URX000435
	GA50U2021XXX*	1.5	6	3	9.6	URX000315	URX000418	05P00620-0115	URX000259
	GA50U2030XXX*	1.5	6	3	9.6	URX000315	URX000418	05P00620-0115	URX000259
	GA50U2042XXX*	3	9.6	5	15.2	URX000323	URX000422	05P00620-0120	URX000261
	GA50U2056XXX*	3	9.6	5	15.2	URX000323	URX000422	05P00620-0120	URX000261
	GA50U2070XXX*	5	15.2	10	28	URX000329	URX000501	URX000064	URX000213
	GA50U2082XXX*	7.5	22	10	28	URX000329	URX000501	URX000063	URX000264

* The "XXX" represents the drive variant. Refer to the [GA500 Catalog Code key](#).

480V - 1-PH Input Derated Models

Voltage Class	Catalog Code	No Reactor		With Reactor					
		Drive Output Capacity		Drive Output Capacity		AC Input Type		DC Bus Type	
		Motor Power (HP)	Motor FLA	Motor Power (HP)	Motor FLA	Open	UL Type 1 Enclosed	Open	UL Type 1 Enclosed
						Reactor Part Number	Reactor Part Number	Reactor Part Number	Reactor Part Number
480V	GA50U4001XXX*	1/8	0.3	1/3	0.6	URX000291	URX000651	URX000036	N/A
	GA50U4002XXX*	1/4	0.6	1/3	0.8	URX000291	URX000651	URX000036	N/A
	GA50U4004XXX*	1/2	1.1	1	2.1	URX000299	URX000410	URX000040	N/A
	GA50U4005XXX*	1	2.1	2	3.0	URX000304	URX000504	05P00620-0110	URX000257
	GA50U4007XXX*	1	2.1	2	3.4	URX000304	URX000504	05P00620-0111	URX000208
	GA50U4009XXX*	2	3.4	3	4.8	URX000308	URX000414	05P00652-0213	URX000209
	GA50U4012XXX*	2	3.4	3	4.8	URX000308	URX000414	05P00652-0213	URX000209
	GA50U4018XXX*	2	3.4	3	5	URX000308	URX000414	05P00652-0213	URX000209
	GA50U4023XXX*	3	4.8	5	8	URX000313	URX000417	URX000048	URX000210
	GA50U4031XXX*	3	4.8	7.5	11	URX000316	URX000419	URX000052	URX000211
	GA50U4038XXX*	5	7.6	10	14	URX000320	URX000421	URX000055	URX000223
	GA50U4044XXX*	5	7.6	10	14	URX000320	URX000421	URX000055	URX000223
	GA50U4060XXX*	7.5	11	15	21	URX000327	URX000425	URX000057	URX000184

* The "XXX" represents the drive variant. Refer to the [GA500 Catalog Code key](#).

Related Documents

[Single Phase Input on V1000 or iQpump Micro Drives](#)
[Using a 3 phase drive on a single phase input application](#)

Product Types

GA500,

All Applications

Advanced Random Rotary Knife with Cam Blend, Air Compressor, Blister pack Thermoformer, Cartoner, Centrifuge, Conveyor, Crane/Hoist, Dynamometer, Elevators and Escalators, Extrusion, Fans/Blowers, Feed To Length, General Machinery, Irrigation, Labeler, Laundry, Linear Flying Shear, Machine Tool, Mixer, Other, Packaging, Palletizer, Precision Grinding, Pump, Punch Press, Rotary Knife, Rotary Placer, Rotary Table Indexer, Screw Feeder, Semiconductor, Solar Cell Tabbing and Bussing, Solar - Textured Etching, Synch-Belt, Textile, Winding,