PowerXL DG1 Configuration to Siemens PLC

Introduction

The purpose of this application note is to demonstrate how to operate a PowerXL DG1 drive via a Profibus DP network and a Siemens Simatic PLC with a Profibus master module. The PowerXL drive has a Profibus Option Card that can be added to either of two option board slots. A GSD file is available for the drive and it may be downloaded from the Eaton website at www.eaton.com/dg1. The Profibus parameters such as address and baud rate can be configured from the keypad on the drive. This will be described in more detail later in this document.

While this application example uses a Siemens Simatic S7-1200 controller with a Profibus DP master module to control and monitor the PowerXL drive over Profibus, any Profibus master may be used for this purpose. Siemens Simatic Step 7 Basic, V13 programming software was used for this application example. The Simatic S7 PLC will be configured to poll the PowerXL DG1 drive to operate the drive and monitor drive parameters.

The DG1 drive supports Telegram 1 for its I/O data, which consists of 4 input bytes and 4 output bytes. The input data includes status bits and Actual Motor Speed. The output data includes control bits and Motor Speed Reference.

Configuring the PowerXL DG1 Drive

To install and configure the Profibus option board parameters from the drives keypad/display:

- 1. With the power off to the drive, insert the Profibus option board into slot A. Power the drive.
- 2. Then press the up arrow key until "Option Boards" is encountered.
- 3. Press the *right* arrow key which will display and highlight "Slot A: Profibus". Press the OK button.
- 4. Press the down arrow key to highlight "Parameters". Press OK.
- 5. "Slave Address" should now be highlighted. Press *OK* again and the default address will be displayed.
- 6. To change the slave address, press the *right* arrow key and when the address number starts blinking, press the *up/down* arrow keys to change the address. Press *OK* when finished.
- 7. Press the *down* arrow key to view the baud rate selection. "Automatic" is the default and the recommended setting.
- 8. Press the down arrow key to view the I/O Data. "Standard Telegram 1" is the only selection.
- 9. Press the down arrow key to view the Operate Mode. ProfiDrive is what is used for this example.
- 10. The Profibus option board configuration is complete. Return to the main menu by pressing the *left* arrow key four times, then the *down* arrow key five times to highlight "Parameters".
- 11. Press the *right* arrow key to highlight "Basic Parameters" then the *right* arrow key again to view the Basic Parameters.
- 12. Scroll down with the *down* arrow key until the following parameters are encountered. Configure these two parameters as follows:
 - a. Remote 1 Control Place: Fieldbus
 - b. Remote 1 Reference: Fieldbus Ref



Power cycle the drive to activate these new configuration parameters. Refer to the Communication manual for this drive for additional details. Publication MN040010EN.

Creating a Project in Siemens Simatic Software

Create a project in Simatic software by starting the software and selecting *Create New Project*. Enter a Project name and Path where the project will be stored, then select the *Create* button per the following:

Create new project	
Project name:	DG1 Drive
Path:	C:\Documents\Drives\DG1 Drive
Author:	mL
Comment:	<u>^</u>
	✓
	Create

From the next screen, select *Configure* a device, then select Add new device. An S7-1200 PLC is being used for this application. Select the CPU under Unspecified CPU 1200. Choose the correct version (V3.0 for this example) and select the *ADD* button. The following Project View will be displayed, showing a generic CPU.



Click the *CPU* box to select it, then select <u>detect</u> in the yellow area below it. The Hardware Detection screen will be displayed as follows:

Hardware detection for	PLC_1				
		Type of the PG/PC inter PG/PC inter	iace: 🖣	L_PN/IE ₩ Intel(R) 82579LM Gigabit I	Network Connection 💌 👻 🕰
	Compatible access	ible nodes of the selected	linterface	:	
	Device	Device type	Туре	Address	MAC address
Flash LED	PLC_1	CPU 1214C DC/D	PN/IE	192.168.0.2	00-1B-1B-70-66-EB
Online status information:	:				
Scan and information	retrieval completed				~
Display only problem	reports				
					Detect <u>C</u> ancel

For this example, the Ethernet port on the PLC is being used to communicate with the PLC. It will also be used to upload/download the project later. Set up your software to communicate to your PLC. Once communications is properly set up, select the *Detect* button and the software will detect the actual controller type and the Profibus master module connected to it as follows:



Connect a standard Profibus cable between the Profibus master and the DG1 drive's Profibus Option Card. Use the standard Profibus connectors and turn on the termination on one or both ends.

Then in the Simatic software, select the *Options* drop down menu and choose: "Install general station description file (gsd)". Download the GSD file from the Eaton website, then search for it on your hard drive by selecting the ellipses in the upper right hand corner of the following screen:

Install general s	tation description f	ile			×			
Source path:	C:\Users\E0057779\Documents\Drives\DG1 Drive\Profibus_Latest_GSD							
Content of imp	oorted path							
File		Version	Language	Status	Info			
019d0cff.gsd			Default	Already installed	Eaton Drive			
					_			
					_			
					_			
					_			
					_			
					_			
					_			
				Install	Cancel			

Select the two boxes by selecting the box next to File, then select *Install* and follow the directions to install the GSD file for the PowerXL DG1 Drive.

Per the following, select the Network View tab.

DG1_Drive Devices & netwo	orks			_∎≡×	Hardware catalog	
		📱 Topology view	🛔 Network view 🚺	Device view	Options	
Network 🔛 Connections		Network overview	Connections VPN			
	^	Pevice	Туре	Address in subr	✓ Catalog	
		▼ S7-1200 station_1	S7-1200 station		<search></search>	itig itif
PLC 1		CM 1243-5	CM 1243-5		🔽 Filter	
CPU 1214C		▶ PLC_1	CPU 1214C DC/DC/DC		Controllers	
					🕨 🫅 HMI	
					PC systems	
	- 11				Drives & starters	
					Network components	
	- 11				Detecting & Monitoring	
					Distributed I/O	
					Field devices	
	_				Other field devices	
	4					

The PLC will be displayed. In the *Catalog* at the far right, select the arrow next to "Other field device", then next to Profibus DP / Drives / Eaton Corp / Eaton / ??? / Profibus Option Card. Drag and drop the device called Profibus Option Card below the category Profibus Option Card and drop it below the controller/Profibus master on the Network View screen. Then select the pink square on the controller/Profibus master and drag it to the pink square on the Profibus Option Board and release the mouse button. The following should now be displayed:

DG1_Drive → Devices & networks	_∎≡×	Hardware catalog	┓
🛃 Topology view 🛛 🚠 Network vie	w 🛐 Device view	Options	
💦 Network 🔛 Connections HMI connection 💌 🐫 🛄 🎽 📑	Network overview 4		
4 Master system: PLC_1.DP-Mastersystem (1)	Device	✓ Catalog	
	 S7-1200 station 1 	<search></search>	init init i
	► CM1243-5		•
PLC_1	► PLC 1	Filter	
		Controllers	^
	Slave_1		
		PC systems	
PLC 1.DP-Mastersystem (1)		Drives & starters	
		Network components	
-		Detecting & Monitoring	
		Distributed I/O	
		Field devices	
			_
Slave_1			=
РКОРІВОЗ Ортіо			
CM 1243-5		 Drives Ciamons AC 	
		The Eastern Corp	
		Taton Colp.	
✓		PROFIBUS Option Card	
< III > 🔁	< III >	PROFIBUS Option Card	
DP-Mastersystem [Mastersystem] Reporties	iagnostics	Vaasa Control	
Cananda 10 tana Cantan canatanta Tanta		Encoders	
General TO tags System constants Texts		▶ 🛅 Gateways	
General		ta lafamustim	· · · ·
PROFIBUS		Information	
Overview of addresses		Device:	^
Hardware identifier Name DP-Maste	rsystem		
Number 1			

The Profibus network has been created in the offline project. Double click the *Slave_1 Profibus Option Card* and the following will be displayed:

		📱 Topology view	h Network view	Device view
Slave_1	•	🖽 🏑 🗄 🔍 ± '	De	vice overview
			<u>^</u>	Module
				Slave_1 🔺
	~			Standerd Tele 🔳
	4aver			
			-	
		DP-NORM	-	
			-	
			~	
<				
		Properties	🗓 Info 追 🗓 Diag	nostics 🔤 🗖 🗏 🥆
General				
No 'proper	ties' available			
No 'propertie	s' can be shown	at the moment. There is e	either no object selected	or the
selected obj	ect does not hav	e any displayable properti	es.	

2_1 [CPU 1214C DC/DC/DC] >	Distributed I/O 🔸 DP-Mastersys	tem (1): PROFIBUS_1	> Slave_1 🔄 🖬 ≣ 🗙
	🛃 Topology	view 🔒 Network vi	ew 📑 Device view
Slave_1	📃 🚮 🔛 🍳 ± 100%		Device overview
		<u>^</u>	Wodule
			Slave_1
Saler			Standerd Tele
	DP-NORM		
<		✓	<pre></pre>
Slave 1 [Module]	2 Propert	ies Tillnfo (i) 🖫 [Diagnostics
Coneral IO tags Syste			
General To tags Syste			
General	PROFIBUS address		
General DP parameters Device-specific parameters	Interface networked with		
Hex parameter assignment	Subnet:	PROFIBUS_1	•
Watchdog		Add new subnet	
STNOFREEZE Hardware identifier			
hardware identifier	Parameters		
	Addroces	3	
-	Nutress.	100	· ·
4	Highest address:	126	
•	Transmission speed:	1.5 Mbps	*

Double click the *Slave_1* box and its Properties will open below it as follows:

Change the *Address* to match what you configured on the DG1 keypad for the Profibus Option Card earlier. For this example, the DG1 Profibus address being used is 3. The Transmission speed will default to 1.5 Mbps, which is fine. Any speed will work here because the drive's option card is set to Auto. The data rate is dependent on the overall network cable length.

DPV1 under General DP Parameters is correct.

There are a handful of Device-specific parameters. The following three parameters must be set to the following:

Local / remote selection:	Remote control	-	
Remote 1 control place:	Fieldbus	•	
Remote 1 reference:	Fieldbus Ref	•	

The other parameters shown in this category may also be modified at this time. This file is sent to the drive when the Profibus connection is initialized. None of the other categories are significant.

DG1_Drive → PLC_1 [CPU 12	14C DC/D	C/DC] → Distributed I/O → D	P-Master	system (1): PROFIE	8US_1 →	Slave_1 _	.∎≡×
			📱 To	pology v	iew 📥	Network	view 📑 Device	e view
det 🕨		Device overview						
	^	Module	Rack	Slot	I address	Q address	Туре	Order n
		Slave_1	0	0			PROFIBUS Option C	^
A		Standerd Telegram 1_1	0	Slot 1	256259	256259	Standerd Telegram 1	≣
1 aver			0	2				
\$	=		0	3				
			0	4				
_			0	5				
			0	6				
			0	7				
			0	8				
			0	9				
			0	10				
			0	11				
			0	12				

With the Slave_1 (DG1 drive) selected, the Device overview tab looks like the following:

Standard Telegram 1 contains 4 input bytes and 4 output bytes. The addresses assigned for this I/O data for the DG1 drive by the Siemens software are displayed here. Input: 256-259 and Output: 256-259. These addresses must now be added to the PLC Tags area by selecting it from the Project tree on the left as follows:



Double click Show all tags under PLC Tags to display the following:

DG1_	DG1_Drive → PLC_1 [CPU 1214C DC/DC/DC] → PLC tags								
				🕣 Tags	🗉 User c	onstant	s 🔎	System cons	tants
<u> </u>	🖉 🖻 🖻 🕅								
PL	.C tags								
	Name	Tag table	Data type	Address	Retain	Visibl	Acces	Comment	
1	<add new=""></add>	-	I			V	V		

Double click in the top row under the Address column and enter IW256. Then enter IW258 in the row below it, QW256 in the next row and finally QW258 in the row below that as follows:

DG1_Drive → PLC_1 [CPU 1214C DC/DC/DC] → PLC tags ■							_∎≡×		
					🕣 Tags 🛛 🗉	Usero	onstant	s 🔎	System constants
-	Ē	🖻 🛃 🛈							
P	LC t	ags							
		Name	Tag table	Data type	Address	Retain	Visibl	Acces	Comment
1	-00	Tag_1	Default tag table	Word	%IW256				
2	-00	Tag_2	Default tag table	Word	%IW258				
з	-00	Tag_3	Default tag table	Word	%QW256				
4	-00	Tag_4	Default tag table	Word	%QW258				
5		<add new=""></add>	-				~	V	

Note that the software puts % in front of these addresses. There is no need to enter it when entering the addresses.

Add the following in the Name column for the 4 rows:

- Status_Bits
 Speed_Actual
- 3. Control_Bits
- 4. Speed_Reference

DG1_Drive → PLC_1 [CPU 1214C DC/DC/DC] → PLC tags							
onstants							
2 2 2 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							
11							

Next, double click "Add new watch table" under "Watch and Force tables" in the Project Tree on the left per the following:



In the new watch table that should now be displayed, add the 4 I/O addresses. Note that the names for these addresses that you entered into the PLC Tags area are automatically populated as the addresses are entered. This watch table will allow testing the DG1 drive over Profibus without writing a program. This will allow monitoring the status bits and the actual speed, while controlling the drive to RUN and provide speed reference.

Project tree		G1_D	rive PLC_1 [CPU	1214C DC/DC	/DC] 🕨 Watch and	force tables 🕨	Watch table_1	_∎≣×
Devices								
🖻 O O	B	₫° ₫°	19 Lo 91 90 27	00n 00n ⊳ 1				
		i	Name	Address	Display format	Monitor value	Modify value	1
▼ 🔄 DG1_Drive	^	1	"Status_Bits"	%IW256	Hex			
💕 Add new device		2	"Speed_Actual"	%IW258	Hex			
Devices & networks		З	"Control_Bits"	%QW256	Hex			
▼ 1 PLC_1 [CPU 1214C DC/DC/DC]		4	"Speed_Reference"	%QW258	Hex			
Device configuration		5		<add new=""></add>				
🛂 Online & diagnostics								
🕨 🚘 Program blocks								
Technology objects								
External source files								
🔻 🚂 PLC tags								
lange Show all tags								
💕 Add new tag table								
🍯 Default tag table [26]								
PLC data types	≡							
 Watch and force tables 								
💣 Add new watch table								
Force table								
Watch table_1								
🔤 Program info								
Device proxy data								
Text lists								

Downloading the program to the Siemens S7 PLC

The project must first be compiled with no errors before it is downloaded to the PLC. In the Project Tree under PLC_1 [CPU....], double click *Device Configuration* as follows to display the Device View containing the PLC.



Select the *PLC* then click the *Compile* button. The compile button is just to the left of the *Download* button on the tool bar. Shown below are, from left to right: *Compile* button, *download* button and the *upload* button. As you hover over each of these buttons in the software, it will display its function.

ow	Help	р

DG1	_Drive	PLC_	1 [CP	U 1214C	DC/DC/DC]												_ 1	∎∎×
										🖉 Т	opolo	gy vi	ew	🔥 Ne	twork vie	ew 🚺	Device	view
	PLC_1			•		Q .	100%)	-				Devi	ce overvi	iew			
. In seine is		vizes the	0.000	iau							^	E	9	Module			Slot	Lade
	esminin	nzes ure	Overv	ie w.													103	^
				35							=						102	=
			(A)	ac)										 CM124 	13-5		101	
			<u> </u>	V.										DP	interface		101 2	
														 PLC_1 			1	
	103	102	101		1		2	3	4	5				DI1	4/DO10_1		11	01
Rack (,		-											AI2	_1		12	64
Luck_				SIEMENS	\$8647C \$***							_					13	
												4		HSC	<u>_1</u>		116	100
			1											HSC	2		11/	100
			CM 199 DP			DCDCDC						-		HSC	3		1 10	100
			-								-			HSC	*		1 20	101
				F										HSC			1 20	102
														Puls	 se 1		1 32	
														Puls	se_2		1 33	
														Puls	se_3		1 34	
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														► PRC	FINET inte	rface_1	1 X1	
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										0	Prop	ertie	s	🗓 Info	追 🗓 🕻)iagnosti	cs	
Ge	neral (i) Cro	ss-re	ferences	Compile													
Com	piling co	mpleted	(error	s:0;warni	ings: 0)													
1	Path	· ·			Description							(Go to	?	Errors	Warning	s Time	
	PLC_1												~		0	0	9:08:	D6 AM
0	Ha	rdware o	onfigu	ration									~		0	0	9:08:	06 AM
0	👻 Pro	gram bl	ocks										~		0	0	9:08:	12 AM
\bigcirc		Main (O	B1)		Block was suc	cessf	fully com	piled.					- 🔁		0	0	9:08:	14 AM
\bigcirc					Compiling cor	nplet	ed (erro	rs: 0; wa	rnings: 0))					0	0	9:08:	21 AM

The results of the compile process will be displayed in the area below the PLC as follows:

Next, select the *download* button to download the project to the PLC. The following window will be displayed. If the controller was in the Run mode, it must be stopped for the download. Select *Stop all* per the following, then select the *Load* button.

Load pre	eview			×
? c	heck	before loading		
Status	1	Target	Message	Action
+0	0	▼ PLC_1	Ready for loading.	
	0	Stop modules	The modules are stopped for downloading to device.	Stop all 💌
	0	Device configurati	Delete and replace system data in target	Download to device
	0	Software	Download software to device	Consistent download
<				>
				Pefrech
				Neitesti
			Finish	Load Cancel
	_			

The results of the *Load* will be displayed in the lower portion of the project screen as shown below. *Start all* should be selected, then select the *Finish* button. This will complete the download and place the PLC into the Run mode per the following:

DG1	_Drive	→ PLC_	1 [CP	U 1214	IC DC	/DC/DC]											-		×
											📲 Тор	ology vie	ew 🖁	Netv	work vi	ew 🚺	Devic	e viev	v
dt-	PLC_1			-	- 👜) 🔍 ±	100%		-	Б		Device o	vervie	w				
	1	Load re:	sults										-	_					Ic
		? s	itatus a	and actic	ons afte	er downlo	ading to	device											*
		Status	1	Target			Me	ssage							Action	1			
		4	%	➡ PLC	<u>_1</u>		Dov	wnloadin	ig to devi	ice compl	leted with	out error.							
	103			•	Start n	nodules	Sta	irt modul	les after	download	ling to dev	/ice.			🛃 Sti	art all			.1
Rack_(o																		
																			0
																			0
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																			1
																			2
		<	_	_	_	_		_	_										
																			~
<													Finish		Load		Cancel		•
													_						$\mathbf{\nabla}$
Ge	eneral	Cros	s-ref	erences	s	Compile	2												
1	Message	•										Go to	?	Date	e	Time			
Š	Proje	ect DG1_Dr	rive op ding to	ened.										7191	2014	8:05:48	AM		
ŏ	 ■ F 	LC_1	ing to	device.										7/9/	/2014	9:10:32	AM		
õ		 Hardwa 	re con	figuratio	on									7/9/	/2014	9:10:41	AM		
\bigcirc		PLC_	1 stop	ped.										7/9/	/2014	9:13:04	AM		
\bigcirc		Hard	ware	configura	ation w	vas loadeo	d succes	ssfully.						7/9/	2014	9:13:10	AM		
\bigcirc		'Main' w	as loa	ded suc	.cessfu	lly.								7/9/	2014	9:13:10	AM		

With the PLC selected, select *Go online* from the Tool Bar to go online with the project running in the PLC.

Option	ns Too	ols Wir 🍽 🛨 🚺	ndow	Help 1 🔃 🚹 🖳 📮 💋 Go or	nline 🔊	Go offline	- <mark></mark>		¥ -	3 🛄					Totally	/ Inte	egra
DG1_	Drive	PLC_	_1 [CP	U 1214C DC/DC/DC]											_ !	7 6	×
								2	Topolog	y viev	N	🔒 Netwo	rk view	۲I	Device	view	
# •	PLC_1				± 100%	6	•			De	evice	e overview					
									^	-	М	odule			Slot	I ad	c
															103		^
			-	x3 ³					≡						102		≣
			an l	, ci							•	CM1243-5			101		
			<u> </u>	v								DP inter	ace		101 2		
											•	PLC_1			1		
	103	102	101	1	2	3	4	5		_		DI14/DO	10_1		11	0	1
Back 0										_		AI2_1			12	64.	-
Nack_0				SIEMENS SINUTCOS-CER						_					13		
					i					•		HSC_1			116	100)
			-	•	-							HSC_2			1 17	100).
			Chindd DP		ić.					-		HSC_3			1 18	100	,
										_					1 19	101	
										-		HSC 6			1 20	101	
												Pulse 1			1 3 2	102	
							Ï					Pulse 2			1 33		
												Pulse 3			1 34		
												Pulse 4			1 35		
												PROFINE	Tinterfac	e_1	1 X1		
															2		
									~						з		~
<									> 🔁		<					>	
									Q Prop	erties		1 Info	B Diag	nostics		7 8	-
Cor	oral	Cros	o rofe	oronooo Compilo													
Ger	erai	CIUS	s-iere	erences compile													
											2	Data	-				_
! M	Projec	+ DC1 D	rive or	anad						30 to	1	7/0/20	14 9-0	ne 15-40 AM			
× -	Start	lownloa	dina ta	device								719120	14 0.0	10-32 AN	л Л		
× ·	→ PL(C 1	unig to	device.								7/9/20	14 9-1	10:32 AM	л И		
ă	- 12 -	Hardwa	re con	figuration								7/9/20	14 9:1	10:41 AN	и.		
ŏ		PLC	1 stop	ped.								7/9/20	14 9:1	13:04 AN	Л		
ŏ		Haro	dware o	, configuration was loaded suc	cessfully.							7/9/20	14 9:1	13:10 AN	л		
õ		PLC_	1 start	ted.								7/9/20	14 9:1	15:44 AN	л		
0		'Main' w	vas Ioa	ded successfully.								7/9/20	14 9:1	13:10 AN	Л		
0	Loadii	ng comp	leted ((errors: 0; warnings: 0).								7/9/20	14 9:1	15:44 AN	И		



When online, the Simatic software should look like the following:

In the Project Tree on the left, double click *Watch table_1* under *Watch and force tables* to display the following:

Project tree		G1_D	rive 🕨 PLC_1 [CPU	1214C DC/DC/	/DC] 🕨 Watch and	force tables 🔸	Watch table_1	_ 🖬 🖬 🗙			
Devices											
B 0 0	1	# # 10 9, 9. 7 7 °°° °°									
		i	Name	Address	Display format	Monitor value	Modify value	1			
▼ DG1_Drive	A 1	1	"Status_Bits"	%IW256	Hex						
💕 Add new device		2	"Speed_Actual"	%IW258	Hex						
Devices & networks		З	"Control_Bits"	%QW256	Hex						
PLC_1 [CPU 1214C DC/DC/DC]	~	4	"Speed_Reference"	%QW258	Hex						
Device configuration		5		<add new=""></add>							
Q Online & diagnostics											
🕨 🚘 Program blocks											
Technology objects											
External source files											
🔻 🚂 PLC tags											
🍇 Show all tags											
💕 Add new tag table											
💥 Default tag table [26]											
PLC data types	≡										
🚔 Add new watch table											
Force table											
Watch table_1											
🔤 Program info											
Device proxy data											
Text lists											
Local modules	~										
Distributed I/O	~										

Below is the Tool Bar above the Watch List.

P 🕈 🗗	Lo 91 %	Ø 00h 00h ▷ 1
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If the second icon from the right is selected, the Watch List will begin monitoring and displaying the I/O data as follows:

-	# # Io 9, 9, 20 ₽ ™ ™												
	i Name	Address	Display format	Monitor value	Modify value	9							
1	"Status_Bits"	%IW256	Hex	16#0000									
2	"Speed_Actual"	%IW258	Hex	16#0000									
з	"Control_Bits"	%QW256	Hex	16#0000									
4	"Speed_Reference"	%QW258	Hex	16#0000									
5		<add new=""></add>											

In the *Modify value* column for QW256 the following 2 hexadecimal values may be used to start and stop the drive:

Start: 0x047F Stop: 0x047E

Please refer to page 88 of the PowerXL DG1 Series VFD Communication Manual, publication MN040010EN for additional control word options. Page 89 shows the layout of the Status word. Page 90 shows the speed values per the following:

0 represents 0.00 Hz 4000 represents 100% Speed (CW) (60.00 Hz if the Maximum Speed is set to 60.00 Hz) C000 represents -100% Speed (CCW) (-60.00 Hz if the Maximum Speed is set to 60.00 Hz)

The data can be entered/viewed in different formats by changing the Display Format for any value.

Each time values are entered or modified in the "Modify Value" column for the Control Word or the Speed Reference, the lightning bolt with a 1 under it shown below must be selected to instruct the software and the PLC to write the value or values to the drive.



References

PowerXL DG1 Series VFD Installation Manual, Publication MN040002EN PowerXL DG1 Series VFD Application Manual, Publication MN040004EN PowerXL DG1 Series Option Cards User Manual, Publication MN040007E

Additional Help

In the US or Canada: please contact the Technical Resource Center at 1-877-ETN-CARE or 1-877-326-2273 option 2, option 6.

All other supporting documentation is located on the Eaton web site at www.eaton.com/Drives





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