RELIANCE ELECTRIC

GV3000/SE AC General Purpose and Vector Drive Version 6.0

Instruction Manual

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Rockwell Automation

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2 - DESCRIPTION

Inverter Selection

Example for a complete type designation as it occurs on the inverter name plate:

GV3000E-AC030-AA-DBU-RFI defines a frequency converter
of the **GV3000**/SE family with **E**uropean approval, **AC**-Input, **30** Amp rated current,
AA (enclosure type IP20), with **DBU** (Braking unit), with **RFI** (Radio Freq. Interference line filter).

Table 2-8a: Selection of Inverters GV3000E-AC for Motors 0.37 up-to 22 kW

TECHNICAL DATA					SPECIFICATION NUMBERS			
TYPE GV3000E-	INVERTER NOM. CURRENT (2 kHz)		MOTOR NOM. POWER 400VAC		BASIC VERSION with DC-BUS TERMINALS and BRAKING UNIT * (2) (3)		VERSION with DC-BUS TERMINALS, BRAKING UNIT and RFI-FILTER * (1) (2) (3)	
	V/Hz	Vec.	V/Hz	Vec.	Code	Part No.	Code	Part No.
AC003-	3.1	2.1	1.1	0.75	AA-DBU	896.01.11	AA-DBU-RFI	896.01.31
AC004-	3.8	3.1	1.5	1.1	AA-DBU	896.02.11	AA-DBU-RFI	896.02.31
AC005-	5.5	3.8	2.2	1.5	AA-DBU	896.03.11	AA-DBU-RFI	896.03.31
AC008-	8.5	6.7	4	3	AA-DBU	896.05.11	AA-DBU-RFI	896.05.31
AC012-	12.6	9.3	5.5	4	AA-DBU	896.06.11	AA-DBU-RFI	896.06.31
AC015-	15	11	7.5	5.5	AA-DBU	896.07.11	AA-DBU-RFI	896.07.31
AC024-	24	16.5	11	7.5	AA-DBU	896.08.11	AA-DBU-RFI	896.08.31
AC030-	30	22	15	11	AA-DBU	896.09.11	AA-DBU-RFI	896.09.31
AC039-	38	22	18.5	11	AA-DBU	896.10.12	AA-DBU-RFI	896.10.32
AC044-	43	30	22	15	AA-DBU	896.11.12	AA-DBU-RFI	896.11.32

Table 2-8b: Selection of UL/cUL-Inverters GV3000U- for Motors >15 up-to 132 kW
(For NEMA Design Inverters GV3000U- for Motors 0.37 up-to 15 kW refer to Appendix B)

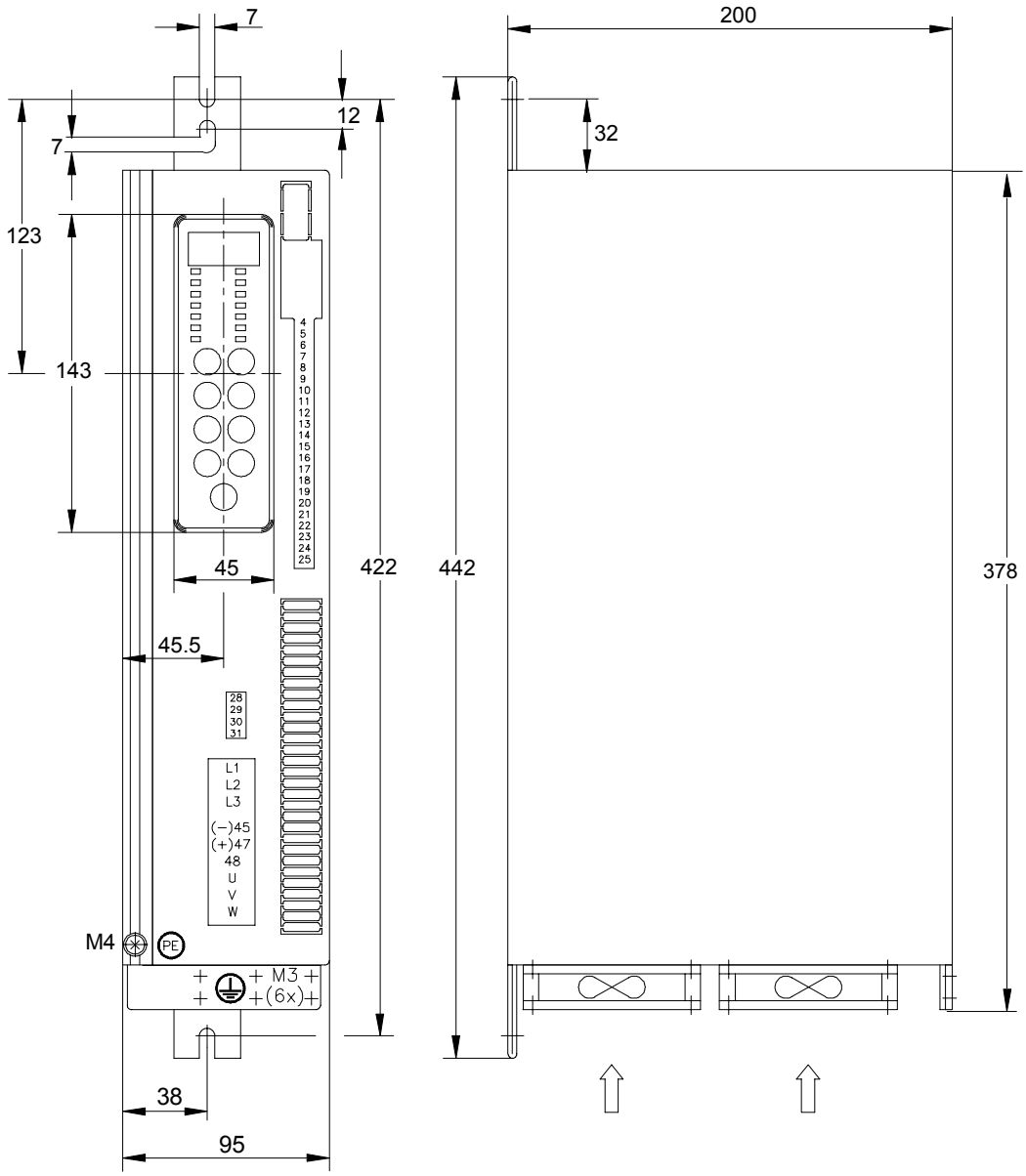
TECHNICAL DATA					SPECIFICATION NUMBERS					
TYPE GV3000U-	INVERTER NOM. CURRENT (2 kHz)		MOTOR NOM. POWER 400VAC		BASIC VERSION IP20		VERSION with BRAKING UNIT * (2)		VERSION with DC-BUS TERMINAL * (3)	
	V/Hz	Vec.	V/Hz	Vec.	Code	Part No	Code	Part No.	Code	Part No.
AC038-	38	32	18.5	15	AA	896.10.00	AA-DBU	896.10.10	AA-DBT	896.10.80
AC043-	43	38	22	18.5	AA	896.11.00	AA-DBU	896.11.10	AA-DBT	896.11.80
AC058-	63	45	30	22	AA	896.12.00	AA-DBU	896.12.10	AA-DBT	896.12.80
AC070-	70	45	37	22	AA	896.13.00	AA-DBU	896.13.10	AA-DBT	896.13.80
AC089-	90	70	45	37	AA	896.14.00	AA-DBU	896.14.10	AA-DBT	896.14.80
AC106-	116	89	55	45	AA	896.15.00	AA-DBU	896.15.10	AA-DBT	896.15.80
AC140-	140	89	75	45	AA	896.16.00	AA-DBU	896.16.10	AA-DBT	896.16.80
AC180-	180	140	90	75	AA	896.17.00	AA-DBU	896.17.10	AA-DBT	896.17.80
AC210-	210	152	110	75	AA	896.18.00	AA-DBU	896.18.10	AA-DBT	896.18.80
AC240-	240	152	132	75	AA	896.19.00	AA-DBU	896.19.10	AA-DBT	896.19.80
DC240-	240	152	132	75	AA	896.19.50	--	--	--	--

* See different versions as illustrated in Figure 2-1 (Number in brackets represents illustration number)

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3 - INSTALLATION

Dimensions



Weight: 5.5 kg (with EMC-filter)

Cooling air for type 003 - 008: 58 m³/h
type 012 - 015: 116 m³/h

Fig. 3-3: Dimensions (mm) of the GV3000/SE Type AC003 - 015

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SPARE PARTS

Only original spare parts according to the following tables should be used.

Table 4-1: Replacement Parts List for GV3000/SE Type AC003 - 030 and 039/044

Part Description	Part Number	Quantity per Type:					
		003/004	**005/008**	**012/015**	**024**	**030**	**039/044**
Regulator Card GVE	814.61.00	1	1	1	1	1	1
Keypad	814.63.00	1	1	1	1	1	1
Fan	922.67.05	1*	1	2	2	-	-
	922.68.05	-	-	-	-	2	2
Cover	957.85.00	1	1	1	-	-	-
	957.85.10-	-	-	-	1	1	1

* On Inverters type 896.01/02.31 only (with RFI-filter)

Table 4-2: Replacement Inverters GV3000/SE Type AC003 - 030 and 039/044

	Part Number for Type:					
Type	**003**	**004**	**005**	**008**	**012**	**015**
A	896.01.11	896.02.11	896.03.11	896.05.11	896.06.11	896.07.11
B	896.01.31	896.02.31	896.03.31	896.05.31	896.06.31	896.07.31

	Part Number for Type:			
Type	**024**	**030**	**039**	**044**
A	896.08.11	896.09.11	896.10.12	896.11.12
B	896.08.31	896.09.31	896.10.32	896.11.32

A: Basic version with DC-bus terminals and braking unit
B: Version with DC-bus terminals, braking unit and RFI-filter

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C - Cross Reference Part Numbers - Catalogue Numbers

Cross Reference List
Part Numbers - Catalogue Numbers

This appendix provides a cross reference lists for part numbers of the GV3000 Inverters with options and associated Rockwell Automation catalogue numbers and Reliance US-Model Numbers.
Part numbers without catalogue numbers are spare parts. (Refer to Tables 4-1 to 4-6).

Table C-1 - Cross Reference List

Part Number	Catalogue Number	US-Model-Number
896.01.11	GV3000E-AC003-AA-DBU	31ER4060
896.02.11	GV3000E-AC004-AA-DBU	38ER4060
896.03.11	GV3000E-AC005-AA-DBU	55ER4060
896.05.11	GV3000E-AC008-AA-DBU	85ER4060
896.06.11	GV3000E-AC012-AA-DBU	126ER4060
896.07.11	GV3000E-AC015-AA-DBU	150ER4060
896.08.11	GV3000E-AC024-AA-DBU	240ER4060
896.09.11	GV3000E-AC030-AA-DBU	300ER4060
896.01.31	GV3000E-AC003-AA-DBU-RFI	31ET4060
896.02.31	GV3000E-AC004-AA-DBU-RFI	38ET4060
896.03.31	GV3000E-AC005-AA-DBU-RFI	55ET4060
896.05.31	GV3000E-AC008-AA-DBU-RFI	85ET4060
896.06.31	GV3000E-AC012-AA-DBU-RFI	126ET4060
896.07.31	GV3000E-AC015-AA-DBU-RFI	150ET4060
896.08.31	GV3000E-AC024-AA-DBU-RFI	240ET4060
896.09.31	GV3000E-AC030-AA-DBU-RFI	300ET4060
896.00.70	GV3000U-AC002-AF-DBT	1V4460
896.02.70	GV3000U-AC004-AF-DBT	2V4460
896.03.70	GV3000U-AC006-AF-DBT	3V4460
896.05.70	GV3000U-AC009-AF-DBT	5V4460
896.06.70	GV3000U-AC012-AJ-DBT	7V4260
896.07.70	GV3000U-AC015-AJ-DBT	10V4260
896.08.70	GV3000U-AC023-AJ-DBT	15V4260
896.09.70	GV3000U-AC032-AJ-DBT	25G4260
896.00.80	GV3000U-AC002-AA-DBT	1V4160
896.02.80	GV3000U-AC004-AA-DBT	2V4160
896.03.80	GV3000U-AC006-AA-DBT	3V4160
896.05.80	GV3000U-AC009-AA-DBT	5V4160
896.06.80	GV3000U-AC012-AA-DBT	7V4160
896.07.80	GV3000U-AC015-AA-DBT	10V4160
896.08.80	GV3000U-AC023-AA-DBT	15V4160
896.09.80	GV3000U-AC032-AA-DBT	25G4160
896.14.80	GV3000U-AC089-AA-DBT	50R4160
896.14.91	GV3000E-AC089-AA-DBT-RFI	50T4160
896.15.80	GV3000U-AC106-AA-DBT	75R4160
896.15.91	GV3000E-AC106-AA-DBT-RFI	75T4160
896.18.80	GV3000U-AC210-AA-DBT	125R4160

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