



NVE8284603

Regenerative Unit

ATVRU75N4

ATVRD15N4



Altivar Regenerative Unit
User Manual
See [NVE88423](#)
on [www.se.com](#)

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only appropriately trained persons who are familiar with and fully understand the contents of the present manual and all other pertinent product documentation and who have received all necessary training to recognize and avoid hazards involved are authorized to work on and with this equipment.
- Installation, adjustment, repair, and maintenance must be performed by qualified personnel.
- Verify compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Before performing work and/or applying voltage on the equipment, follow the instructions given in the appropriate installation manual.

Failure to follow these instructions will result in death or serious injury.

CAUTION

SHARP EDGES



Use all necessary personal protective equipment (PPE) such as gloves when performing any type of work whatsoever on or with this product.

Failure to follow these instructions can result in injury or equipment damage.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this product. © 2025 Schneider Electric. All Rights Reserved.



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Опция для продуктов Altivar и Altistart. Пожалуйста, обратитесь к сообщению о преобразователе частоты EAC / программном сартере в приложении к началу работы, размещенном на веб-сайте производителя.

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Short-Circuit Current Ratings (SCCR) and Branch Circuit Protection

The combinations in the table below have been tested per UL61800-5-1. (Reference UL file E116875). These ratings allow proper coordination of short circuit protection. The product would exceed a 100 kA interrupt rating on the output. The opening of the branch circuit protective device may be an indication that a fault current has been interrupted.

⚠️ DANGER

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- Current-carrying parts and other components of the controller should be examined and replaced if damaged.
- If burnout of the current element of an overload relay occurs, the complete overload relay must be replaced.

Failure to follow these instructions will result in death or serious injury.

75°C (167°F) copper conductor with the AWG wire size shown on nameplate for all sizes.

Suitable for use on a circuit capable of delivering not more than _X_ rms symmetrical kiloAmperes, _Y_ Volts maximum, when protected by _Z1_ with a maximum rating of _Z2_, and by _Z3_ with a maximum rating of _Z4_.

ATV Regenerative Unit Short Circuit Current Ratings ^{1,2} With Enclosure			Minimum Enclosure Volume	DC fuses			With GV•P			With Fuses				
Input Voltage 50/60 Hz (Y)	Power Ratings			Maximum braking power on DC bus	Rating ⁴ (Z3, Z4)	Max I ² t	GV•P (Z1, Z2)		SCCR (X)	600 V Class J ⁵ (Z1, Z2)	SCCR (X)			
	(kW)	(HP)					Type E ³	Voltage Rating						
	(L)	(in3)		(kW)	(A)	(A ² .s)	—	(V)	(HP)	(kA)	(A)			
480 Vac Three-phase	7.5	10	ATVRU75N4	53	3223	0.33	3	300	GV3P32	20	100			
						0.50	5	300						
						0.68	6	300						
						1.0	7	300						
						1.4	9	300						
						2.0	14	300						
						2.7	17	300						
						3.6	21	685						
						5.0	24	685						
						6.8	30	1100						
15	20	ATVRD15N4				9.9	40	1900	GV3P50	30	65			
						13.5	40	3100						

1. The amp rating of the short circuit protection devices in the table are maximum values. Smaller amp sizes may be used.

Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes.

2. Ratings apply to an Altivar Regenerative Unit mounted in a Type 1, 3R, 4(X) or 12 rated enclosure. Minimum enclosure volume allows for specified SCCR. Thermal requirements may require a larger enclosure.

3. For GV2P/3P use, 480 V ratings are for Wye connected electrical distribution systems. GV3P●● self protected manual combination starter must be used with GV3G66 + GVAM11 insulating barrier and auxiliary contact to meet UL 508 Type E rating. The GVAM11 provides a visual indication if the GV3P has tripped.

4. Use semiconductors protection class fuses.

5. Use Class CC or J fast acting or time delay.

6. UL61800-5-1 Par. 6.3.7DV.2.1.1 require publishing the standard Type E combination motor controller power rating since this is a basic identification marking of type E devices. However, when applied as an input overcurrent protective device for a drive, the rated current of the Type E combination motor controller, not the rated power, is the key parameter for dimensioning (reference UL61800-5-1Par. 5.2.3.6.2DV.4.1.11 & 5.2.3.6.2DV.4.1.12).

Schneider Electric GV•P Type E combination motor controllers are adjustable, their current range is shown on the adjustment dial and their selection is based on the input current and not the power rating of the drive.

Note:

• The Altivar Regenerative Unit has a 100 kA interrupt rating on the output. In addition to providing a rating based on shorting the output, these short circuit current ratings have been obtained by shorting components internal to the Altivar Regenerative unit. These ratings allow proper coordination of short circuit protection.