

4AV Non-Stabilized Power Supplies

Filtered for Supply of Electronic Controls

4AV3, 4AV5 power supplies,
filtered, three-phase

Overview

- Rated output voltage U_{2N} 24 V DC according to EN 61131-2¹⁾ and SIMATIC at input voltage +6 % to -10 % and load 0 % to 100 %
- Safety transformer according to EN 61558-2-6
- 4AV30 to 4AV35: **CE**, **cULus** at 60 °C;
4AV36, 4AV38, 4AV51: **CE**
- 4AV3: t_a = max. 60 °C/B, 4AV51: t_a = 40 °C/B
- Varistor suppressor circuit
- Status LED
- 4AV3: suitable for connection to public supply and industrial networks EN 61000-3-2, -3-3;
emitted interference EN 50081-1; interference immunity EN 50082-2;
4AV5: suitable for connection to industrial networks EN 61000-3-2, -3-3;
emitted interference EN 50081-1; interference immunity EN 50082-2
- Ripple < 5 %



4AV30 to 4AV33 (figure on the left) and 4AV38 (figure on the right)

¹⁾ EN 61131-2: equipment specification for power supply and interface for programmable controllers. [For limit values for 24 V DC see "Technical specifications".](#)

Schematics

Terminal designations and terminal assignments

	Rated input voltage U_{1N} V	Primary connections and links Rated voltage U_{1N} V	Terminals	Links
NSF0_00049b 4AV30 to 4AV35	Type 4AV3. 00 400 (415) ± 20 Δ 230 ± 10 Δ ¹⁾	420 400 (415) 380 240 230 220	1U1-1V1-1W1 1U1-1V1-1W1 1U1-1V1-1W1 1U1-1V1-1W1 1U1-1V1-1W1 1U1-1V1-1W1	1U2-1V2-1W2 1U4-1V4-1W4 (=factory setting) 1U3-1V3-1W3 1U1-1W2, 1V1-1U2, 1W1-1V2 1U1-1W4, 1V1-1U4, 1W1-1V4 1U1-1W3, 1V1-1U3, 1W1-1V3
NSF0_00052a 4AV31, 4AV33 and 4AV35	Type 4AV3. 01 500- 400 (415)	500 400 (415)	1U1-1V1-1W1 1U3-1V3-1W3	-- --
NSF0_00054a 4AV36: Secondary terminals 4AV38: Secondary flat connector				
NSF0_00055b 4AV30 to 4AV35	Type 4AV3. 02 575 (600) - 500 - 460 (480) - 400 (415) - 230 (240) - 200	575 (600) 500 460 (480) 400 (415) 230 (240) 200	1U1-1V1-1W1 1U3-1V3-1W3 1U4-1V4-1W4 1U5-1V5-1W5 1U5-1V5-1W5 1U6-1V6-1W6	1U2-1V2, 1V2-1W2 1U2-1V2, 1V2-1W2 1U2-1V2, 1V2-1W2 1U2-1V2, 1V2-1W2 (= factory setting) 1U2-1V5, 1V2-1W5, 1W2-1U5 1U2-1V6, 1V2-1W6, 1W2-1U6
NSF0_00179a 4AV51	Type 4AV51 .5 400 ± 20	420 400 380	420 V-420 V-420 V 400 V-400 V-400 V 380 V-380 V-380 V	-- -- --

¹⁾ Link Δ is possible, Δ disconnecting links are not included in the scope of supply.