

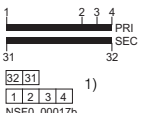
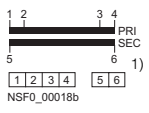
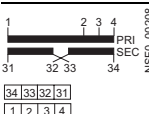
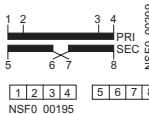
Single-Phase Transformers

4AM, 4AT Safety, Isolating, Control and Mains Transformers

General data

Schematics

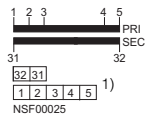
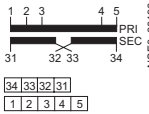
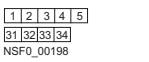
With one input voltage

Circuit diagrams and terminal assignments ¹⁾	Rated input voltage U_{1N}	Rated output voltage U_{2N}	Terminals Transformer type	Primary			Secondary	
	V	V		Terminals U_{1N}	$U_{1N} + 5\%$	$U_{1N} - 5\%$	Terminals U_{2N}	Links
 4AM (≤ 2.5 kVA)	$U_{1N} \pm 5\%$	U_{2N}	4AM23 to 4AM65	1-3	1-4	1-2	31-32	--
 4AT (4 kVA ... 16 kVA)			4AT30 to 4AT45	1-3	1-4	2-3	5-6	--
 4AM32 to 4AM65 (≤ 2.5 kVA)	$U_{1N} \pm 5\%$	2 x 115	4AM32 to 4AM65	1-3	1-4	1-2	230 V: 31-34 ²⁾ 115 V: 31-34 ²⁾	32-33 31-32; 33-34
 4AT30 to 4AT39 (4 kVA ... 10 kVA)			4AT30 to 4AT39	1-3	1-4	2-3	230 V: 5-8 115 V: 5-8	6-7 5-6; 7-8

¹⁾ For Cage Clamp terminals, the ground connection is routed to the terminal.
The order of terminal assignments then changes as follows $\begin{bmatrix} \pm & 1 & 2 \end{bmatrix}$.
NSFO_00183

²⁾ Terminals 31–34 are duplicated in the Cage Clamp version.

For European voltages

Circuit diagrams and terminal assignments ¹⁾	Rated input voltage U_{1N}	Rated output voltage U_{2N}	Terminals Transformer type	Primary			Secondary	
	V	V		Terminals U_{1N}	$U_{1N} + 15\text{ V}$	$U_{1N} - 15\text{ V}$	Terminals U_{2N}	Links
 4AM32 to 4AM65 (≤ 2.5 kVA)	400/230 $\pm$ 15	24 42	4AM32 to 4AM65	400 V: 2-5 230 V: 2-4	1-5 1-4	15 V 3-5 3-4	24 V: 31-32 42 V: 31-32	-- --
 4AM32 to 4AM65 (≤ 2.5 kVA)	400/230 $\pm$ 15	2 x 115	4AM32 to 4AM65, 4AT30 to 4AT39	400 V: 2-5 230 V: 2-4	1-5 1-4	15 V 3-5 3-4	230 V: 31-34 ²⁾ 115 V: 31-34 ²⁾	32-33 31-32; 33-34
 4AT30 to 4AT39 (4 kVA ... 10 kVA)								

¹⁾ For Cage Clamp terminals, the ground connection is routed to the terminal.
The order of terminal assignments then changes as follows $\begin{bmatrix} \pm & 1 & 2 \end{bmatrix}$.
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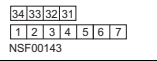
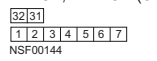
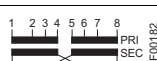
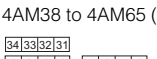
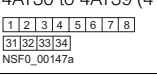
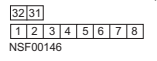
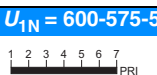
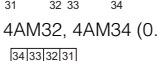
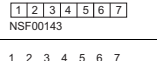
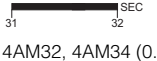
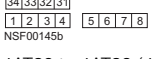
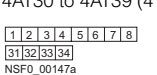
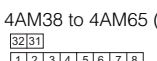
²⁾ Terminals 31–34 are duplicated in the Cage Clamp version.

Single-Phase Transformers

4AM, 4AT Safety, Isolating, Control and Mains Transformers

General data

Multi-voltage version

Circuit diagrams and terminal assignments	Rated input voltage	Rated output voltage	Connections and links			Secondary		
	U_{1N}	U_{2N}	Primary Rated voltage	Terminals	Circuit terminals	Rated voltage	Terminals	Circuit terminals
	V	V	V			V		
$U_{1N} = 550-525-500-480-460-440-415-400-380-230-208$								
 4AM32, 4AM34 (0.063 kVA; 0.1 kVA)  NSF00143	550-525-500-480-460-440-415-400-380-230-208	2 × 115	550 525 500 480 460 440 415 400	1-7 2-7 3-7 1-6 2-6 3-6 1-5 2-5	--	230 115	31-34	32-33 31-32; 33-34
 4AM32, 4AM34 (0.063 kVA; 0.1 kVA)  NSF00144		24	380 230 208	3-5 2-4 3-4		24	31-32	--
 4AM32, 4AM34 (0.063 kVA; 0.1 kVA)  NSF00144		42				42	31-32	--
 4AM38 to 4AM65 (0.16 kVA ... 2.5 kVA)  NSF00145b 4AT30 to 4AT39 (4 kVA ... 10 kVA)  NSF0_00147a	550-525-500-480-460-440-415-400-380-230-208	2 × 115	550 525 500 480 460 440 415 400 380 230 208	1-8 4-5 3-5 2-5 4-6 3-6 3-7 2-6 2-7 1-6; 4-8 1-7; 3-8		230 115	31-34	32-33 31-32; 33-34
 4AM38 to 4AM65 (0.16 kVA ... 2.5 kVA)  NSF00146		24				24	31-32	--
 4AM38 to 4AM65 (0.16 kVA ... 2.5 kVA)  NSF00146		42				42	31-32	--
$U_{1N} = 600-575-550-525-500-480-460-440-415-400-240-230$								
 4AM32, 4AM34 (0.063 kVA; 0.1 kVA)  NSF00143	600-575-550-525-500-480-460-440-415-400-240-230	2 × 115	600 575 550 525 500 480 460 440	1-7 2-7 3-7 1-6 2-6 3-6 1-5 2-5	--	230 115	31-34	32-33 31-32; 33-34
 4AM32, 4AM34 (0.063 kVA; 0.1 kVA)  NSF00144		24	415 400 240 230	3-5 3-5 1-4 2-4		24	31-32	--
 4AM32, 4AM34 (0.063 kVA; 0.1 kVA)  NSF00144		42				42	31-32	--
 4AM38 to 4AM65 (0.16 kVA ... 2.5 kVA) NSF00145b 4AT30 to 4AT39 (4 kVA ... 10 kVA) NSF0_00147a	600-575-550-525-500-480-460-440-415-400-240-230	2 × 115	600 575 550 525 500 480 460 440 415 400 240 230	1-8 4-5 4-6 4-7 3-5 3-6 3-7 2-5 2-6 2-7 1-7; 3-8 1-7; 3-8		230 115	31-34	32-33 31-32; 33-34
 4AM38 to 4AM65 (0.16 kVA ... 2.5 kVA) NSF00146		24				24	31-32	--
 4AM38 to 4AM65 (0.16 kVA ... 2.5 kVA) NSF00146		42				24	31-32	--