

DATA SHEET

3VA53 400A Frame Thermal-magnetic Trip Circuit Breakers

With global certifications including UL489, CSA22.2 and IEC 60947-2.
Find out more at **usa.siemens.com/3VA**

SIEMENS

Technical Information

Interrupting Ratings for 3VA53

Interrupting Class	Breaker Type	RMS Symmetrical Amperes (kA)									
		Volts AC (50/60 Hz)					Volts DC				
		240	480Y/ 277V	480	600Y/ 347V	600	250 (2P)	600 (3P)	750 (3P)	750 (4P)	1000 (4P)
M	MJAS	85	35	35	18	18	50	50	10	50	10
H	HJAS	100	65	65	25	25	85	85	10	85	10
C	CJAS	200	100	100	35	35	100	100	10	100	10



3VA53 400A 3-Pole

Trip Settings for 3VA53

TM230 - FTAM

I_n (Amp)	I_r(Amp)	I_i (Amp)					
200	200	1000	1200	1400	1600	1800	2000
225	225	1125	1350	1575	1800	2025	2250
250	250	1250	1500	1750	2000	2250	2500
300	300	1500	1800	2100	2400	2700	3000
350	350	1750	2100	2450	2800	3150	3500
400	400	2000	2400	2800	3200	3600	4000

TM240 - ATAM

I_n (Amp)	I_r(Amp) 90%	I_r(Amp) 80%	I_i (Amp)					
200	180	160	1000	1200	1400	1600	1800	2000
225	203	180	1125	1350	1575	1800	2025	2250
250	225	200	1250	1500	1750	2000	2250	2500
300	270	240	1500	1800	2100	2400	2700	3000
350	315	280	1750	2100	2450	2800	3150	3500
400	360	320	2000	2400	2800	3200	3600	4000

Connections for 75C wire for 3VA53

Type	Minimum cable size	Maximum cable size	Part Number (kit of 3 lugs)	Part Number (kit of 4 lugs)
Steel wrap around (Cu cable only) single cable lugs	1/0	500 kcmil	**3VA9473-0JA13**	**3VA9474-0JA13**
Steel wrap around (Cu cable only) single cable lugs with control wire tap	1/0	500 kcmil	**3VA9473-0JH13**	**3VA9474-0JH13**
Aluminum body lug (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	**3VA9373-0JB13**⑤	**3VA9374-0JB13**⑤
Aluminum body lug with control wire tap (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	**3VA9373-0JG13**	**3VA9374-0JG13**
Copper body lug (Cu cable only) single cable lugs	AWG 1	600 kcmil	**3VA9373-0JD13**③	**3VA9374-0JD13**③
Copper body lug (Cu cable only) with control wire tap single cable lugs	AWG 1	600 kcmil	**3VA9373-0JK13**③	**3VA9374-0JK13**③
Aluminum body lug, 2 cables (Cu/Al cable) with 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JJ23**②	**3VA9474-0JJ23**②
Aluminum body lug, 2 cables (Cu/Al cable) with 1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	**3VA9373-0JJ24**③	**3VA9374-0JJ24**③
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JC23**②	**3VA9474-0JC23**②
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	**3VA9373-0JC24**③	**3VA9374-0JC24**③
Distribution lug, 6 Cables (Cu/Al cable) with 1 extended terminal cover	AWG 14	2 AWG	**3VA9373-0JF60**	**3VA9374-0JF60**
Copper body lug, 2 cables (Cu cable only) with 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JE23**④	**3VA9474-0JE23**④
Copper body lug, 2 cables (Cu cable only) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JL23**④	**3VA9474-0JL23**④

② 3VA53 Meets requirements for 100% rated breakers up to 300A.
③ 3VA53 Meets requirements for 100% rated breakers up to 400A, requires the use of 90 degree wire, size to 75 degree ampacity.
④ 3VA53 Meets requirements for 100% rated breakers up to 350A, requires the use of 90 degree wire, size to 75 degree ampacity.
⑤ Standard lug installed at the factory when breaker ordered with a "6" in the 12th position.

Dimensions

Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA53	3	5.4 (137)	9.8 (249)	5.4 (137)	11.5	5.2
3VA53	4	7.2 (183)	9.8 (249)	5.4 (137)	15.0	6.8

Applicable Standards:

- UL489 - Molded Case Circuit Breakers
- UL486A - Wire connectors and solderless lugs for use with copper
- UL486B- Wire connectors and solderless lugs for use with aluminum wire
- CSA-22.2 No. 5-13 - Molded Case Circuit Breakers, Molded case switches and circuit breaker enclosures
- EN 60947-1 AMD 2 - Molded case circuit breakers
- EN 60947-2 AMD 2 2013
- EN 50581 2012 - RoHS compliant
- All 3VA breakers are HACR rated per UL

Padlock Accessory

Description	Catalog Number
Padlocking Device for 3VA53 breaker	**3VA9338-0LB11**

Internal Accessories

Auxiliary and Alarm Switches (Form C –> 1 NO and 1 NC)

Switch Type	Width	AC 50/ 60 Hz	DC	Catalog Number
Auxiliary Switch (AUX) HQ	1 slot	24 … 300V	24 … 250V	**3VA9978-0AA12**
Leading Changeover Switch (LCS) HQ				**3VA9978-0AA22**
Trip/Bell Alarm Switch (TAS) HQ				**3VA9978-0AB12**
Auxiliary Switch (AUX) HP	2 slots	24 … 600V	24 … 250V	**3VA9978-0AA11**
Leading Changeover Switch (LCS) HP				**3VA9978-0AA21**
Trip/Bell Alarm Switch (TAS) HP				**3VA9978-0AB11**
Auxiliary Switch (AUX) HQ electronic	1 slot	24 … 300V	24 … 250V	**3VA9978-0AA13**
Leading Changeover Switch (LCS) HQ electronic				**3VA9978-0AA23**
Trip/Bell Alarm Switch (TAS) HQ electronic				**3VA9978-0AB13**

Shunt Trips

Type	VAC 50/60 Hz	VDC	Catalog Number (3 slots)
Shunt Trip Left (STL)	380 ... 600	—	**3VA9978-0BL20**
	—	12	**3VA9978-0BL10**
	24	24 ... 30	**3VA9978-0BL30**
	48 ... 60	48 ... 60	**3VA9978-0BL31**
	110 ... 127	110 ... 127	**3VA9978-0BL32**
	208 ... 277	220 ... 250	**3VA9978-0BL33**
Shunt Trip Flexible (STF)②	24	—	**3VA9978-0BA20**
	48 ... 60	—	**3VA9978-0BA21**
	110 ... 127	—	**3VA9978-0BA22**
	208 ... 277	—	**3VA9978-0BA23**
	380 ... 500	—	**3VA9978-0BA24**
	600	—	**3VA9978-0BA25**

Undervoltage Release

Undervoltage Release (UVR)	—	12	**3VA9978-0BB10**
	—	24	**3VA9978-0BB11**
	—	48	**3VA9978-0BB12**
	—	125 ... 127	**3VA9978-0BB14**
	—	250	**3VA9978-0BB16**
	24	—	**3VA9978-0BB20**
	120 ... 127	—	**3VA9978-0BB24**
	208 ... 230	—	**3VA9978-0BB25**
	440 ... 480	—	**3VA9978-0BB27**

Universal Release (Undervoltage and Shunt trip)

Universal Release (UNI)	—	12	**3VA9978-0BD11**
	—	24	**3VA9978-0BD12**
	—	48	**3VA9978-0BD13**

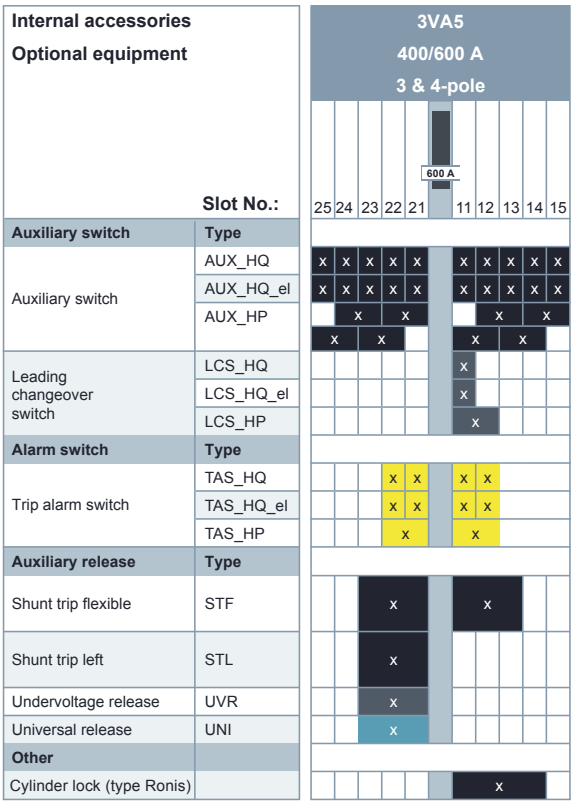
② Shunt trip flexible can be used in the left pocket of the 3VA5 breakers. They can be used in the left or right pocket of the 3VA6 breakers.

Time-delay Device for Undervoltage Release

Type	VAC 50/60 Hz	VDC	Delay Time	Catalog Number
Time-delay Device (mounted external to circuit breaker)	230	230	Fixed – 100ms minimum	**3VA9978-0BF22**
	—	24	Fixed – 100ms minimum	**3VA9978-0BF23**

Enclosures (3-pole only)

NEMA Type	Catalog Number
1 Surface	**3VAE6001S**
1 Flush	**3VAE6001F**
3R	**3VAE6003R**
12	**3VAE60012**
4X (304)	**3VAE6004X**
4X (316)	**3VAE6004X316**
Neutral	**HN656ACB**
200% Neutral	**HN678ACB**



Product Selection

3VA53 400A, 2-Pole in 3-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MJAS)	H-Interrupting Class (HJAS)	C-Interrupting Class (CJAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM	
200	3VA5320-5EC61-0AA0	3VA5320-6EC61-0AA0	3VA5320-7EC61-0AA0
225	3VA5322-5EC61-0AA0	3VA5322-6EC61-0AA0	3VA5322-7EC61-0AA0
250	3VA5325-5EC61-0AA0	3VA5325-6EC61-0AA0	3VA5325-7EC61-0AA0
300	3VA5330-5EC61-0AA0	3VA5330-6EC61-0AA0	3VA5330-7EC61-0AA0
350	3VA5335-5EC61-0AA0	3VA5335-6EC61-0AA0	3VA5335-7EC61-0AA0
400	3VA5340-5EC61-0AA0	3VA5340-6EC61-0AA0	3VA5340-7EC61-0AA0

3VA53 400A Frame, 3-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MJAS)	H-Interrupting Class (HJAS)	C-Interrupting Class (CJAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM①	
200	3VA5320-5EC31-0AA0	3VA5320-6EC31-0AA0	3VA5320-7EC31-0AA0
225	3VA5322-5EC31-0AA0	3VA5322-6EC31-0AA0	3VA5322-7EC31-0AA0
250	3VA5325-5EC31-0AA0	3VA5325-6EC31-0AA0	3VA5325-7EC31-0AA0
300	3VA5330-5EC31-0AA0	3VA5330-6EC31-0AA0	3VA5330-7EC31-0AA0
350	3VA5335-5EC31-0AA0	3VA5335-6EC31-0AA0	3VA5335-7EC31-0AA0
400	3VA5340-5EC31-0AA0	3VA5340-6EC31-0AA0	3VA5340-7EC31-0AA0
		TM240 ATAM	
200	3VA5320-5EF31-0AA0	3VA5320-6EF31-0AA0	3VA5320-7EF31-0AA0
225	3VA5322-5EF31-0AA0	3VA5322-6EF31-0AA0	3VA5322-7EF31-0AA0
250	3VA5325-5EF31-0AA0	3VA5325-6EF31-0AA0	3VA5325-7EF31-0AA0
300	3VA5330-5EF31-0AA0	3VA5330-6EF31-0AA0	3VA5330-7EF31-0AA0
350	3VA5335-5EF31-0AA0	3VA5335-6EF31-0AA0	3VA5335-7EF31-0AA0
400	3VA5340-5EF31-0AA0	3VA5340-6EF31-0AA0	3VA5340-7EF31-0AA0

① Available with NAVAL/50C ratings.



3VA53 400A 3-Pole

Ordering Information

The catalog numbers listed here are for complete, non-interchangeable trip circuit breakers without lugs.

For factory installed nut keepers (3VA94730QA00), change the 12th digit of the catalog number to "2" (required to install a breaker in a panelboard or switchboard that has a provision). (For example, a 35KA @480VAC, 400A, 3-pole, 3VA53 with nut keepers would be catalog number 3VA5340-5EC3**2**-0AA0).

For factory installed standard line and load lugs, change the 12th digit to "6" (standard lugs are identified in the lug table and footnotes in this section of the SpeedFax). (For example, a 35KA @480VAC, 400A, 3-pole, 3VA53 with lugs would be catalog number 3VA5340-5EC3**6**-0AA0). Alternate connectors can be ordered separately for field installation.

Note: Factory installed nut keepers and lugs are only available for 3 Pole breakers.

For NAVAL-rated thermal-magnetic trip circuit breakers (3 pole only), change the 13th digit of the catalog number to the number "1". (For example, a 35KA @480VAC, 400A, 3-pole, NAVAL rated 3VA53 would be catalog number 3VA5340-5EC31-**1**AA0)

3VA53 are available with 100% ratings (3 and 4 pole only). For 100% rated thermal-magnetic trip circuit breakers, change the 13th digit of the catalog number to the number "2". (For example, a 35KA @480VAC, 400A, 3-pole, 100% rated 3VA53 would be catalog number 3VA5340-5EC31-**2**AA0). Requires the use of rated lugs — see lug table below.

All 3VA53 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.

3VA53 400A Frame, 4-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MJAS)	H-Interrupting Class (HJAS)	C-Interrupting Class (CJAS)
	Catalog Number	Catalog Number	Catalog Number
	TM230 FTAM Unprotected Neutral		
200	3VA5320-5EC41-0AA0	3VA5320-6EC41-0AA0	3VA5320-7EC41-0AA0
225	3VA5322-5EC41-0AA0	3VA5322-6EC41-0AA0	3VA5322-7EC41-0AA0
250	3VA5325-5EC41-0AA0	3VA5325-6EC41-0AA0	3VA5325-7EC41-0AA0
300	3VA5330-5EC41-0AA0	3VA5330-6EC41-0AA0	3VA5330-7EC41-0AA0
350	3VA5335-5EC41-0AA0	3VA5335-6EC41-0AA0	3VA5335-7EC41-0AA0
400	3VA5340-5EC41-0AA0	3VA5340-6EC41-0AA0	3VA5340-7EC41-0AA0
	TM240 ATAM Unprotected Neutral		
200	3VA5320-5EF41-0AA0	3VA5320-6EF41-0AA0	3VA5320-7EF41-0AA0
225	3VA5322-5EF41-0AA0	3VA5322-6EF41-0AA0	3VA5322-7EF41-0AA0
250	3VA5325-5EF41-0AA0	3VA5325-6EF41-0AA0	3VA5325-7EF41-0AA0
300	3VA5330-5EF41-0AA0	3VA5330-6EF41-0AA0	3VA5330-7EF41-0AA0
350	3VA5335-5EF41-0AA0	3VA5335-6EF41-0AA0	3VA5335-7EF41-0AA0
400	3VA5340-5EF41-0AA0	3VA5340-6EF41-0AA0	3VA5340-7EF41-0AA0
	TM230 FTAM 100% Neutral		
200	3VA5320-5GC41-0AA0	3VA5320-6GC41-0AA0	3VA5320-7GC41-0AA0
225	3VA5322-5GC41-0AA0	3VA5322-6GC41-0AA0	3VA5322-7GC41-0AA0
250	3VA5325-5GC41-0AA0	3VA5325-6GC41-0AA0	3VA5325-7GC41-0AA0
300	3VA5330-5GC41-0AA0	3VA5330-6GC41-0AA0	3VA5330-7GC41-0AA0
350	3VA5335-5GC41-0AA0	3VA5335-6GC41-0AA0	3VA5335-7GC41-0AA0
400	3VA5340-5GC41-0AA0	3VA5340-6GC41-0AA0	3VA5340-7GC41-0AA0
	TM240 ATAM 100% Neutral		
200	3VA5320-5GF41-0AA0	3VA5320-6GF41-0AA0	3VA5320-7GF41-0AA0
225	3VA5322-5GF41-0AA0	3VA5322-6GF41-0AA0	3VA5322-7GF41-0AA0
250	3VA5325-5GF41-0AA0	3VA5325-6GF41-0AA0	3VA5325-7GF41-0AA0
300	3VA5330-5GF41-0AA0	3VA5330-6GF41-0AA0	3VA5330-7GF41-0AA0
350	3VA5335-5GF41-0AA0	3VA5335-6GF41-0AA0	3VA5335-7GF41-0AA0
400	3VA5340-5GF41-0AA0	3VA5340-6GF41-0AA0	3VA5340-7GF41-0AA0



3VA53 400A 4-Pole

Legal Manufacturer

Siemens Industry, Inc.
3617 Parkway Lane
Peachtree Corners, GA 30092
United States of America

Siemens Technical Support: 1-800-333-7421
usa.siemens.com/3VA

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