

DATA SHEET

3VA55 800A 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 3VA55

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	MMAS	85	35	35	18	18	50	50	50	50	18
H	HMAS	100	65	65	25	25	85	85	85	85	25
C	CMAS	200	100	100	50	50	100	100	100	100	50



3VA55 800A 3-Pole

Trip Settings for 3VA55

TM230 - FTAM

I_n (Amp)	I_r(Amp)	I_i (Amp)					
600	600	3000	3600	4200	4800	5400	6000
700	700	3500	4200	4900	5600	6300	7000
800	800	4000	4800	5600	6400	7200	8000

Connections for 75C wire for 3VA55

Type	Minimum cable size	Maximum cable size	Part Number (kit of 3 lugs)	Part Number (kit of 4 lugs)
Aluminum body lug, 2 cables (Cu/Al cable)	4/0	600 kcmil	**3VA9573-0JB23**①④	**3VA9574-0JB23**①④
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap	4/0	600 kcmil	**3VA9573-0JG23**①	**3VA9574-0JG23**①
Aluminum body lug, 2 cables (Cu/Al cable) with 1 extended terminal cover	400 kcmil	750 kcmil	**3VA9673-0JJ24**②⑥	**3VA9674-0JJ24**②⑥
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	400 kcmil	750 kcmil	**3VA9673-0JC24**②⑥	**3VA9674-0JC24**②⑥
Aluminum body lug, 3 cables (Cu/Al cable)	4/0	400 kcmil	**3VA9673-0JB32**①	**3VA9674-0JB32**①
Aluminum body lug, 3 cables (Cu/Al cable) with control wire tap	4/0	400 kcmil	**3VA9673-0JG32**①	**3VA9674-0JG32**①
Aluminum body lug, 3 cables (Cu/Al cable) with 1 extended terminal cover	500 kcmil	750 kcmil	**3VA9673-0JJ34**③	**3VA9674-0JJ34**③
Aluminum body lug, 3 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	500 kcmil	750 kcmil	**3VA9673-0JC34**③	**3VA9674-0JC34**③
Aluminum body lug, 4 cables (Cu/Al cable) with 1 extended terminal cover	4/0	500 kcmil	**3VA9673-0JJ43**③⑤	**3VA9674-0JJ43**③⑤
Aluminum body lug, 4 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	4/0	500 kcmil	**3VA9673-0JC43**③	**3VA9674-0JC43**③
Aluminum body lug, 4 cables (Cu/Al cable) with 1 extended terminal cover	4/0	600 kcmil	**3VA9673-0JJ44**③	**3VA9674-0JJ44**③
Aluminum body lug, 4 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	4/0	600 kcmil	**3VA9673-0JC44**③	**3VA9674-0JC44**③
Copper body lug, 3 cables (Cu/Al cable) with control wire tap	4/0	400 kcmil	**3VA9673-0JK32**③	**3VA9674-0JK32**③
Copper body lug, 4 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	4/0	500 kcmil	**3VA9673-0JL43**③	**3VA9674-0JL43**③

① 3VA55 and 3VA65 Meets requirements for 100% rated breakers up to 600A.
② 3VA55 Meets requirements for 100% rated breakers up to 700A, requires the use of 90 degree wire, size to 75 degree ampacity.
③ 3VA55 and 3VA65 Meets requirements for 100% rated breakers up to 800A, requires the use of 90 degree wire, size to 75 degree ampacity.
④ Standard lug for the 600A and 700A 3VA55 and the 600A 3VA65 will be installed at the factory when the breaker is ordered with a "6" in the 12th position.
⑤ Standard lug for the 800A 3VA55/65 and the 1000A 3VA66 will ship with the breaker from the factory for field installation when the breaker is ordered with a "6" in the 12th position.
⑥ 3VA65 Meets requirements for 100% rated breakers up to 600A.

Dimensions

Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA55	2(3)	8.3 (210)	12.5 (318)	5.8 (147)	29.3	13.3
3VA55	3	8.3 (210)	12.5 (318)	5.8 (147)	29.4	13.4
3VA55	4	11.1 (280)	12.5 (318)	5.8 (147)	37.4	17.0

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 3VA55 breaker	**3VA9578-0LB10**

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	**3VAE8001S**
1 Flush	**3VAE8001F**
3R	**3VAE8003R**
12	**3VAE80012**
4X (304)	**3VAE8004X**
4X (316)	**3VAE8004X316**
Neutral	**HN656ACB**
200% Neutral	**HN678ACB**

Internal accessories Optional equipment	Slot No.:	3VA5 & 3VA6 800A & 1000A 3- & 4-pole 24 23 22 21 1250 A 11 12 13 14 15 16
Auxiliary switch	**Type**	
Auxiliary switch	AUX_HQ	x x x x x x x x x x
	AUX_HQ_el	x x x x x x x x x x
	AUX_HP	x x x x x x
		x x x x
Leading changeover switch	LCS_HQ	x
	LCS_HQ_el	x
	LCS_HP	x
Alarm switch	**Type**	
Trip alarm switch	TAS_HQ	x x
	TAS_HQ_el	x x
	TAS_HP	x
Electrical alarm switch (3VA6)	EAS_HQ	x
	EAS_HQ_el	x
Electrical alarm switch	SAS_HQ	
	SAS_HQ_el	
Auxiliary release	**Type**	
Shunt trip flexible	STF	x
Shunt trip left	STL	x
	STL (EI)	
Residual current release	RCR	
Undervoltage release	UVR	x
Universal release	UNI	x
ETU/communication②	**Type**	
Communication module 3VA server	COM060	x
24 V module		x
Other		
Cylinder lock (type Ronis)		x

Internal Booster

Product Selection

3VA55 800A, 2-pole in 3-pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MMAS)	H-Interrupting Class (HMAS)	C-Interrupting Class (CMAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM	
600	3VA5560-5EC62-0AA0	3VA5560-6EC62-0AA0	3VA5560-7EC62-0AA0
700	3VA5570-5EC62-0AA0	3VA5570-6EC62-0AA0	3VA5570-7EC62-0AA0
800	3VA5580-5EC62-0AA0	3VA5580-6EC62-0AA0	3VA5580-7EC62-0AA0

3VA55 800A, 3-pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MMAS)	H-Interrupting Class (HMAS)	C-Interrupting Class (CMAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM①	
600	3VA5560-5EC32-0AA0	3VA5560-6EC32-0AA0	3VA5560-7EC32-0AA0
700	3VA5570-5EC32-0AA0	3VA5570-6EC32-0AA0	3VA5570-7EC32-0AA0
800	3VA5580-5EC32-0AA0	3VA5580-6EC32-0AA0	3VA5580-7EC32-0AA0

3VA55 800A, 4-pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MMAS)	H-Interrupting Class (HMAS)	C-Interrupting Class (CMAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM Unprotected Neutral	
600	3VA5560-5EC42-0AA0	3VA5560-6EC42-0AA0	3VA5560-7EC42-0AA0
700	3VA5570-5EC42-0AA0	3VA5570-6EC42-0AA0	3VA5570-7EC42-0AA0
800	3VA5580-5EC42-0AA0	3VA5580-6EC42-0AA0	3VA5580-7EC42-0AA0
		TM230 FTAM 100% Neutral	
600	3VA5560-5GC42-0AA0	3VA5560-6GC42-0AA0	3VA5560-7GC42-0AA0
700	3VA5570-5GC42-0AA0	3VA5570-6GC42-0AA0	3VA5570-7GC42-0AA0
800	3VA5580-5GC42-0AA0	3VA5580-6GC42-0AA0	3VA5580-7GC42-0AA0

① Available with NAVAL/50C ratings.

Ordering Information

The catalog numbers listed here are for complete, non-interchangeable trip circuit breakers with nutkeepers on both line and load ends..

To include standard line and load lugs, shipped with the breaker for field installation, 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, 800A, 3-pole, 3VA55 with lugs would be catalog number 3VA5580-5EC3**6**-0AA0). Alternate connectors can be ordered separately for field installation.

For NAVAL-rated (3-pole only) thermal-magnetic trip circuit breakers, change the 13th digit of the catalog number to the number "1". (For example, a 35KA @480VAC, 800A, 3-pole, NAVAL rated 3VA55 would be catalog number 3VA5580-5EC32-**1**AA0)

3VA55 are available with 100% rating (only 3 and 4 pole). 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, 800A, 3-pole, 100% rated 3VA55 would be catalog number 3VA5580-5EC32-**2**AA0). Requires the use of rated lugs.

All 3VA55 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.



3VA55 800A 3-Pole



3VA55 800A 4-Pole

Notes

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

Order No. CBDS-VA55T-0925

This document contains a general description of available technical options only, and its effectiveness will be subject to specific variables including field conditions and project parameters. Siemens does not make representations, warranties, or assurances as to the accuracy or completeness of the content contained herein. Siemens reserves the right to modify the technology and product specifications in its sole discretion without advance notice.

© 2025 by Siemens Industry, Inc.