

3VA Molded Case Circuit Breakers

3VA64 600A Electronic Trip Circuit Breakers

Technical information

Connections for 75C wire for 3VA54 and 3VA64

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	3VA9374-0JB13
Aluminum body lug with control wire tap (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	3VA9373-0JG13	3VA9374-0JG13
Aluminum body lug, 2 cables (Cu/Al cable) with 1 extended terminal cover	2/0	600 kcmil	3VA9473-0JJ23	3VA9474-0JJ23
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	3VA9473-0JC23	3VA9474-0JC23
Distribution lug, 6 Cables (Cu/Al cable) with 1 extended terminal cover	AWG 14	AWG 2	3VA9373-0JF60	3VA9374-0JF60
Copper body lug (Cu cable only) single cable lugs ^①	AWG 1	600 kcmil	3VA9373-0JD13	3VA9374-0JD13
Copper body lug (Cu cable only) with control wire tap single cable lugs ^①	AWG 1	600 kcmil	3VA9373-0JK13	3VA9374-0JK13
Copper body lug, 2 cables (Cu cable only) with 1 extended terminal cover ^②	2/0	600 kcmil	3VA9473-0JE23	3VA9474-0JE23
Copper body lug, 2 cables (Cu cable only) with control wire tap and 1 extended terminal cover ^②	2/0	600 kcmil	3VA9473-0JL23	3VA9474-0JL23

- ① Meets the requirement for 100% rated breakers up to 400A.
- ② Meets requirement for 100% rated breakers up to 400A, requires the use of 90 degree wire.

Enclosures for 3VA54 and 3VA64 (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

Internal accessories Optional equipment	Slot No.:	3VA5 & 3VA6 400/600 A 3-pole	3VA5 & 3VA6 400/600 A 4-pole
		25 24 23 22 21 11 12 13 14 15	35 34 33 32 31 25 24 23 22 21 11 12 13 14 15
Auxiliary switch	Type		
	AUX_HQ	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	AUX_HQ_el	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Auxiliary switch	AUX_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	LCS_HQ	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	LCS_HQ_el	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Leading changeover switch	LCS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	LCS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	LCS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Alarm switch	Type		
	TAS_HQ	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	TAS_HQ_el	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Trip alarm switch	TAS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	EAS_HQ	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	EAS_HQ_el	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Electrical alarm switch ^③	EAS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	EAS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	EAS_HP	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Auxiliary release	Type		
	STF	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	STL	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Undervoltage release	UVR	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	UNI	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	UNI	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
ETU/communication ^③	Type		
	COM060	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	COM060	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
Other	Type		
	Cylinder lock (type Ronis)	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
	Cylinder lock (type Ronis)	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x

Trip Settings for 3VA64

ETU320-LI, ETU330-LIG, ETU350-LSI

Continuous Amperage	LI, LIG, LSI			LSI		LIG	LI, LIG, LSI 4P only
	I _n (Amp)	I _r (Amp) (L)	t _{id} (sec) (L)	I _i (Amp) (I) ^②	I _{sd} = xI _r (Amp) (S)		
400	150 - 400	0.5 - 17	600-4800	1.5 - 10	0.08 - 0.4	80 - 400	0.5 - 1 / OFF
600	250 - 600	0.5 - 15	900-5400	1.5 - 9		120 - 600	0.5 - 1 / OFF

② I_i for ETU350 is fixed at the maximum level shown in table.

③ These accessories are for electronic trip breakers only.

See page 7-81 for internal accessory part numbers.

ETU550-LSI, ETU556 LSI(A), ETU560-LSIG, ETU820-LI, ETU830-LIG, ETU850-LSI, ETU856 LSI(A), ETU860-LSIG

Continuous Amperage	LI, LIG, LSI, LSIG, LSI(G)			LSI, LSIG, LSI(G)		LIG, LSIG, LSI(G)		LSI 3P with External CT	LI, LIG, LSI, LSIG, LSI(G) 4P only
	I _n (Amp)	I _r (Amp) (L) ^②	t _{id} (sec) (L)	I _i (Amp) (I)	I _{sd} (Amp) (S)	t _{sd} (sec) (S)	I _g (Amp) (G)		
400	150 - 400	0.5 - 25	600-4800	240 - 4000	0.05 - 0.5	80 - 400	0.05 - 0.8	80 - 640 / OFF	80 - 600 / OFF
600	250 - 600	0.5 - 15	900-5400	360 - 5400		120 - 600		120 - 960 / OFF	120 - 600 / OFF

② Adjustable in steps of 1A.

For specific trip settings refer to the Electronic Trip Unit section of the 3VA Systems Manual, which can be found in the document download center at https://digitalcontentcenter.compas.siemens-info.com/SIE_IM_3VA6_Systems_Manual.pdf