

Smart choice for power distribution



sentron
3VT



SIEMENS

Introducing Sentron VT

A new generation of Moulded Case Circuit Breakers (MCCBs)

The compact design of **Sentron VT** family of Moulded Case Circuit Breakers (MCCBs) coupled with its excellent features make things easier in the world of electrical distribution.

New **Sentron VT** offers choice of trip units - "Thermomagnetic" trip unit and "Microprocessor based" trip unit for overload and short circuit protection. The Microprocessor based range in addition to wide band overload protection, offers the time based short circuit protection and earth fault protection.

The **Sentron VT** circuit breaker range comply with latest standards : IEC 60947-1, IEC 60947-2, IEC 60947-4-1, IEC 60947-5-1 and have been designed to protect cables, motors, transformers, capacitors, busbars as well as other plant equipment against overload and short circuit.

Features:

- Current limiting
- Suitable for line-load reversibility
- 3Pole and 4Pole
- 4th Pole 100% rated
- Overload protection on 4th Pole
- Microprocessor or Thermomagnetic trip unit
- Plug-in and Draw-out versions
- Motorised switching
- Suitable for Isolation
- N, H and L breaking capacities in same frame size
- Shunt release with built-in cut-off contact
- Extension link and phase barriers provided as standard with MCCB

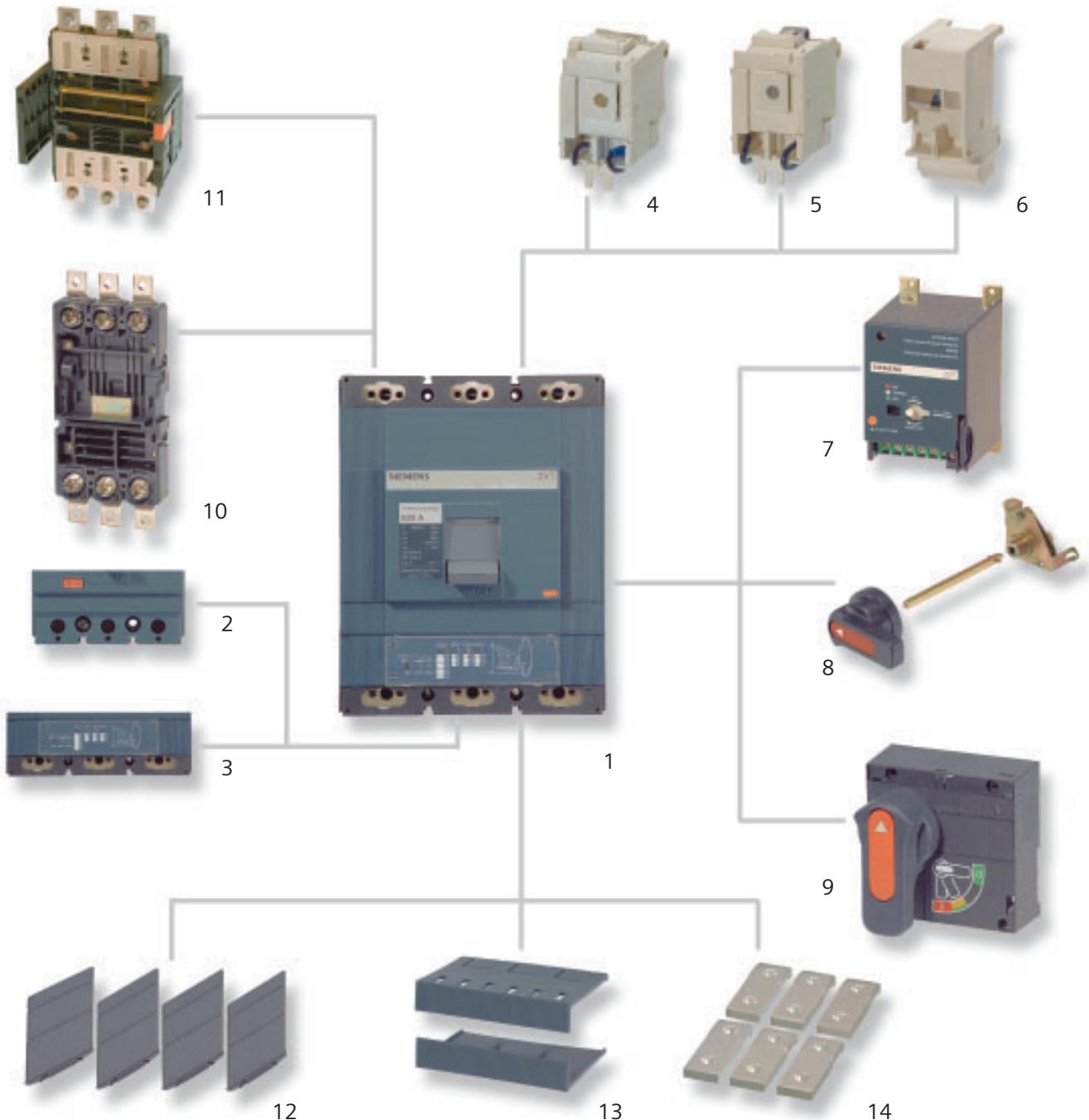
Benefits:



- Economically fulfills high demand of today's electrical distribution system
- Saves panel size and costly floor space due to compact size
- Microprocessor based trip unit ensures accurate protection, measures TRUE RMS current
- Low thermal and dynamic stress on downstream breakers due to low let through energy
- Gives flexibility of remote operation
- Ease of maintenance due to plug-in or draw-out versions
- Offers earth fault protection

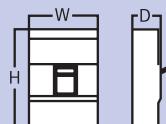


Full Range



- 1 3VT Molded case circuit-breaker
- 2 Thermal-magnetic overcurrent trip unit
- 3 Microprocessor overcurrent trip unit
- 4 Undervoltage release
- 5 Shunt release
- 6 Auxiliary / Alarm switches
- 7 Motorized operating mechanism
- 8 Rotary handle operating mechanism
- 9 Front-operated rotary operating mechanism
- 10 Plug-in base
- 11 Withdrawable version
- 12 Phase barriers
- 13 Terminal covers
- 14 Extended front busbar connecting bars

Technical Specifications

Type		VT80 N / H	VT81 N / H
			
Rated current In at 40°, at 50/60 Hz	A	10, 16, 20, 25, 32, 40, 50, 63	32, 40, 50, 63, 80, 100
Frame size maximum rated current	A	63	100
Rated impulse voltage Uimp	kV	6	6
Rated insulation voltage Ui	V	500 V	500 V
Rated operational AC voltage Ue at 50/60Hz	V	440 V	440 V
Number of poles		3, 4	3, 4
Rated ultimate short-circuit breaking capacity Icu (up to 415V AC 50Hz)	kA	25/50	25/50
Rated service short-circuit breaking capacity Ics (up to 415V AC 50Hz)	kA	18.75/37.5	18.75/37.5
Permissible ambient temperature	Operation °C	-5...+60	-5...+60
Over current trip unit	Thermal magnetic release Microprocessor release	• –	• –
Outline dimension 	W 3P 4P	mm mm	76.2 103
	H	mm	120
	D (N/H switching)	mm	79

¹⁾ In cases where higher current ratings and communication-capability are required, please ask for SENTRON circuitbreaker 3VL

²⁾ with ETU

• Available – Not Available

Note: For detail dimensional drawings please contact our Sales Office.

VT82 N / H	VT83 N / H	VT84 N / H	VT85 N/H/L
			
32, 40 ,50 ,63, 80, 100, 125, 160	160, 200, 250	250, 315, 400	400, 500, 630
160	250	400	630
8	8	8	8
690 V	690 V	690 V	690 V
440 V	440 V	440 V	440 V
3, 4	3, 4	3, 4	3, 4
25/50	35/50	35/50	35/50/65
18.75/37.5	35/37.5	35/37.5	35/37.5/48.75
-5...+60	-5...+60	-5...+60	-5...+60
• -	• •	• •	• •
90 120	105 140	140 184	210 280
120	170/254 ²⁾	254	268
70/79	103.5	103.5	103.5

Motorised drive :

- The **Sentron VT** range of circuit breaker can be equipped with motorised drive for remote closing and opening.
- All motorised drive mechanisms are equipped with a manual operation option for maintenance purpose and emergency operation.
- At site conversion from manually operated MCCB to motor operated MCCB is possible.



Plug-in MCCB :

- **Sentron VT** MCCB is available in plug-in type mounting.
- Available up to 400 A in 3 pole and 4 pole options.
- Fullfills demand of electrical inspectorate of physical / visual isolation.

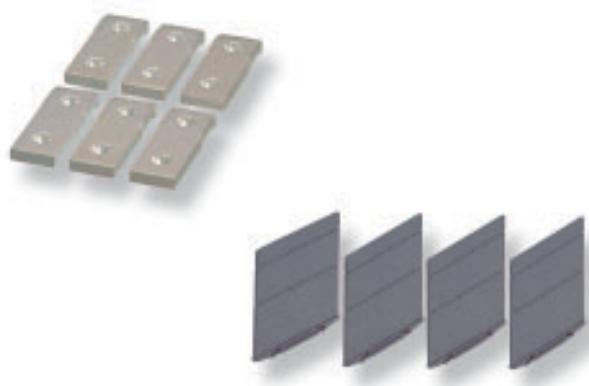
Draw-out MCCB :

- **Sentron VT** MCCB is available in draw-out type mounting.
- Available for 250 A to 630 A in 3 pole and 4 pole options.
- Fullfills demand of electrical inspectorate of physical / visual isolation.



Rotary drive :

- The **Sentron VT** circuit breaker can be fitted with either a special rotary drive for direct operations or with the extended rotary drive, for circuit breakers installed in switchgear cubicles and distribution boards.
- All rotary operating mechanism can be padlocked in 'OFF' position with the help of suitable padlocks thereby ensuring complete safety to operating personnel during maintenance.
- Door interlock and defeat facility is available as standard.



Extension link and Phase Barrier :

- All **Sentron VT** MCCB comes equipped with extension link as well as phase barrier as standard. These help in increasing safety of MCCB installation.

Added Safety :

Sentron VT MCCB are "suitable for isolation" in accordance with (IEC-60947-1; 03.2004, IEC-60947-2; 04.2003)

When MCCB is in OFF position this ensures:

- Rotary handle cannot indicate OFF position unless the contacts are positively open
- Fully open contacts are capable of withstanding over voltage, thus no possibility of re-strike
- MCCB has overvoltage withstand capability between fix and moving contact

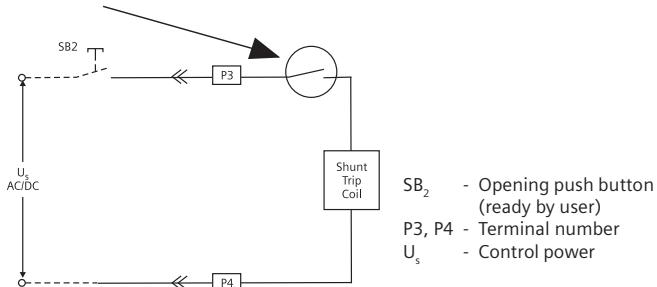
Sentron VT MCCB are suitable for "Emergency OFF" duty in accordance with (IEC-60947-1; 03.2004, IEC-60947-2; 04.2003). Hence **Sentron VT** is suitable to be used as:

- Main control switch and emergency OFF switch in conjunction with lockable rotary operating mechanism and terminal cover.



Shunt Release (ST) :

- It is used for remote tripping of the circuit-breaker
- These devices operate in compliance with IEC 60947 (tripping voltage range 0.70 to 1.10 Ue)
- Shunt Trip coil comes equipped with its dedicated cut-off contact



Undervoltage Release (UVR) :

- All undervoltage releases have been designed and tested to fulfill all applicable requirements in accordance with IEC 60947 (release voltage 0.70 to 0.35 Ue, response voltage 0.85 to 1.10 Ue)
- Undervoltage release is rated for continuous duty

Auxiliary / Alarm Switches (HS / AS) :

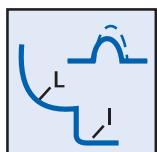
- Auxiliary switches (HS) are used for ON and OFF position indication and control
- The alarm switches (AS) are active when the circuit-breaker has been tripped due to an overcurrent e.g. overload or short-circuit



Possible complements for the insulated accessory subsections in the 3VT circuit-breakers

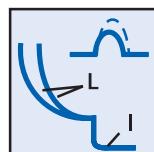
Installation Position of Accessories	
Left side	Right side
–	Alarm switch
–	Auxiliary switch
–	Auxiliary + Alarm switch
–	Two sets of auxiliary switches
Shunt trip	–
Shunt trip	Alarm switch
Shunt trip	Auxiliary switch
Shunt trip	Auxiliary + Alarm switch
Under voltage release	–
Under voltage release	Alarm switch
Under voltage release	Auxiliary switch
Under voltage release	Auxiliary + Alarm switch

Thermal-magnetic overcurrent trip unit :



Overload protection (fixed)

Short-circuit protection (fixed)



Overload protection (adjustable $I_r = 0.7$ to $1 \times I_n$)

Short-circuit protection (fixed)

	VT 80 (10 – 63A)	VT 81 (32 – 100A)	VT 82 (32 – 160A)	VT 83 (160 – 250A)	VT 84 (250 – 400A)	VT 85 (400 – 630A)
Fixed O/L - Fixed S/C	✓	✓	✓	✓	✓	✓
Adj. O/L - Fixed S/C	-	-	✓	✓	✓	✓ *
Adj. O/L - Adj. S/C	-	-	-	✓ #	✓ #	✓ #

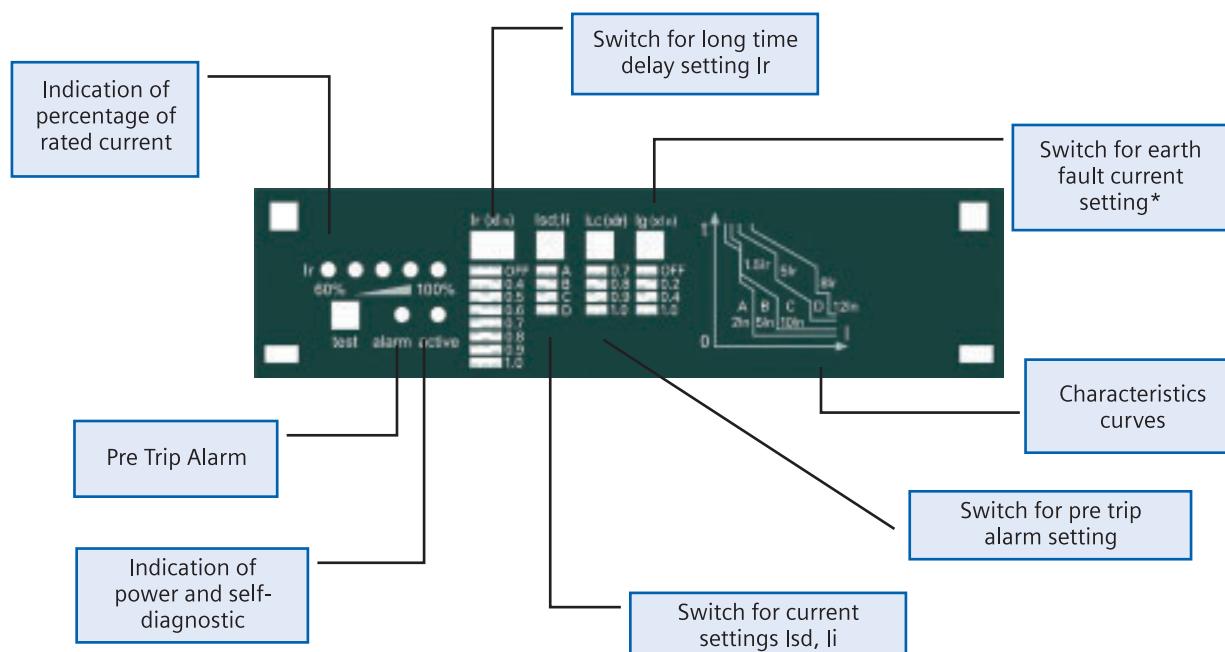
✓ Available

- Not Available

* Electronic Trip Unit

Microprocessor based Trip Unit

Microprocessor based Trip Unit



* Available for 4-pole version only

Microprocessor based trip unit settings:

L - Overload protection (adjustable): $I_r = 0.4 - 1.0 \times I_n$

S - Short time short-circuit protection (adjustable):

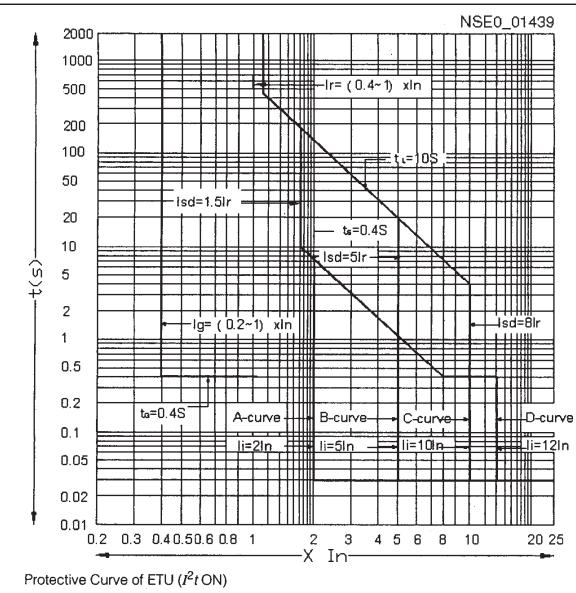
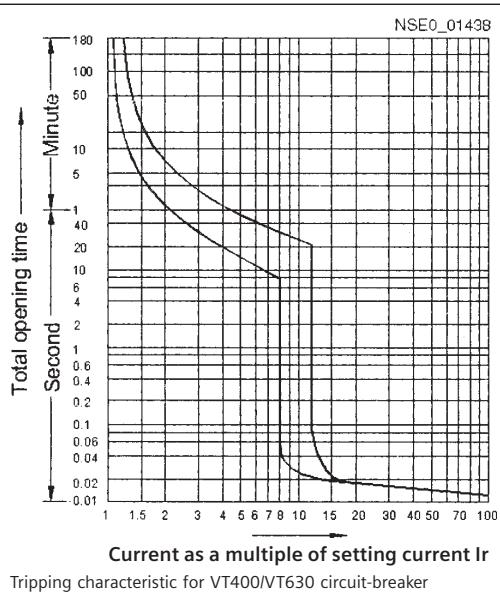
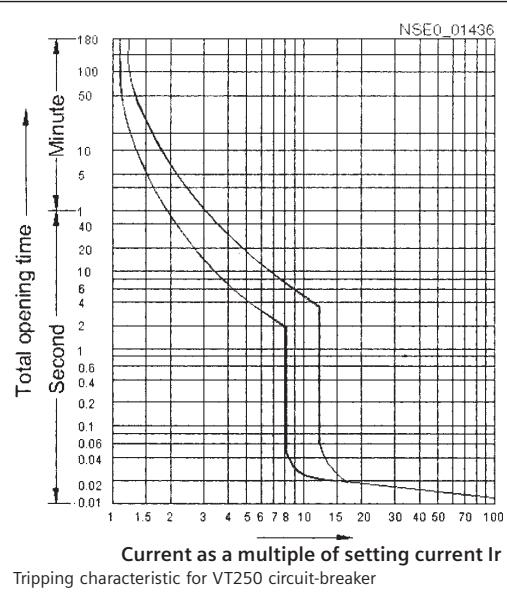
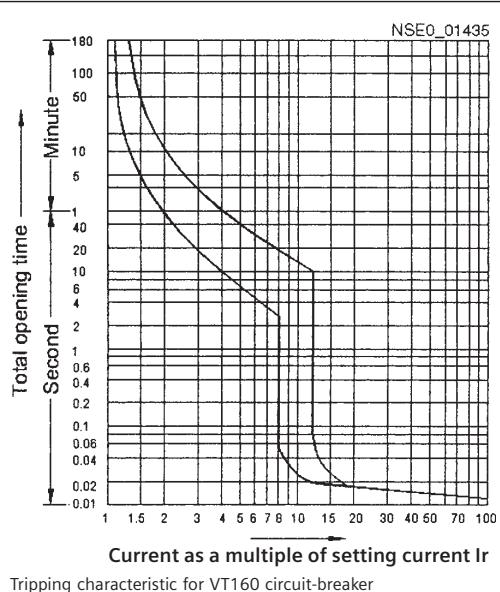
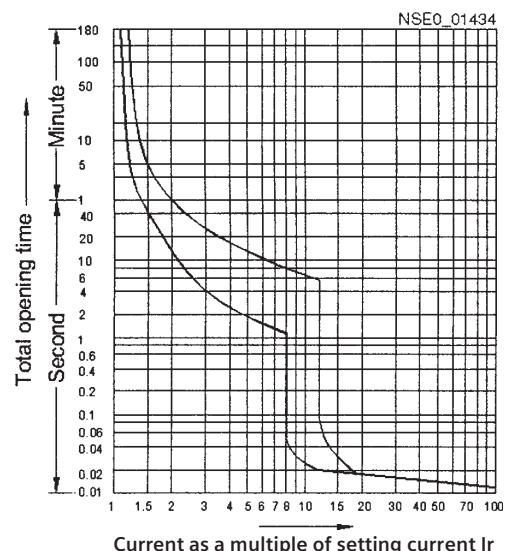
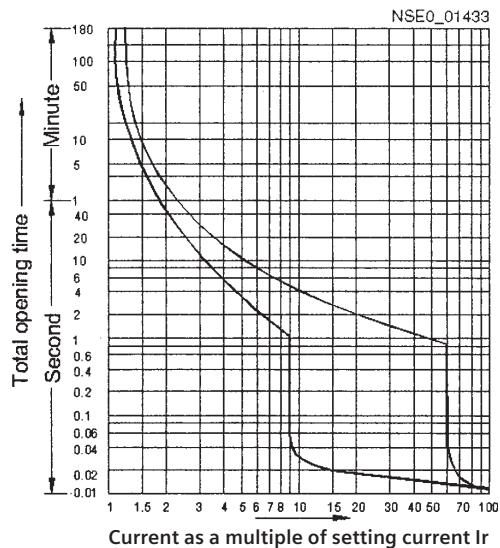
$I_{sd} = 1.5; 5; 8 \times I_r$

I - Short-circuit protection (adjustable): $I_i = 2; 5; 10; 12 \times I_n$

G - Ground fault protection (adjustable)¹): $I_g = 0.2; 0.4; 1.0 \times I_n; OFF$

Pre-Alarm: $I_{LC} = 0.7 - 1.0 \times I_n$

Characteristic Curves



Curves shown above are average characteristic curves

Catalogue References

3VT MCCB with Thermal - Magnetic trip unit (Overload & Short Circuit protection)

Frame	Br._Cap. Icu @ 415 V	Rated Current	3 Pole Type reference	4 Pole Type reference	
VT 80	25 kA	10 A	3VT8010-1AA03-0AA2	3VT8010-1AA04-0AA2	
		16 A	3VT8016-1AA03-0AA2	3VT8016-1AA04-0AA2	
		20 A	3VT8020-1AA03-0AA2	3VT8020-1AA04-0AA2	
		25 A	3VT8025-1AA03-0AA2	3VT8025-1AA04-0AA2	
		32 A	3VT8032-1AA03-0AA2	3VT8032-1AA04-0AA2	
		40 A	3VT8040-1AA03-0AA2	3VT8040-1AA04-0AA2	
		50 A	3VT8050-1AA03-0AA2	3VT8050-1AA04-0AA2	
		63 A	3VT8063-1AA03-0AA2	3VT8063-1AA04-0AA2	
		80 A	3VT8108-1AA03-0AA2	3VT8108-1AA04-0AA2	
		100 A	3VT8110-1AA03-0AA2	3VT8110-1AA04-0AA2	
VT 81		32 A	3VT8203-1AA03-0AA2	3VT8203-1AA04-0AA2	
		63 A	3VT8206-1AA03-0AA2	3VT8206-1AA04-0AA2	
VT 82		80 A	3VT8208-1AA03-0AA2	3VT8208-1AA04-0AA2	
		100 A	3VT8210-1AA03-0AA2	3VT8210-1AA04-0AA2	
		125 A	3VT8212-1AA03-0AA2	3VT8212-1AA04-0AA2	
		160 A	3VT8216-1AA03-0AA2	3VT8216-1AA04-0AA2	
VT 83	35 kA	200 A	3VT8320-1AA03-0AA2	3VT8320-1AA04-0AA2	
VT 84		250 A	3VT8325-1AA03-0AA2	3VT8325-1AA04-0AA2	
VT 85		315 A	3VT8431-1AA03-0AA2	3VT8431-1AA04-0AA2	
VT 80		400 A	3VT8440-1AA03-0AA2	3VT8440-1AA04-0AA2	
VT 81		500 A	3VT8550-1AA03-0AA2	3VT8550-1AA04-0AA2	
VT 82		630 A	3VT8563-1AA03-0AA2	3VT8563-1AA04-0AA2	
VT 80	50 kA	32 A	3VT8032-2AA03-0AA2	3VT8032-2AA04-0AA2	
VT 81		63 A	3VT8063-2AA03-0AA2	3VT8063-2AA04-0AA2	
VT 82		80 A	3VT8108-2AA03-0AA2	3VT8108-2AA04-0AA2	
VT 83		100 A	3VT8110-2AA03-0AA2	3VT8110-2AA04-0AA2	
VT 84		125 A	3VT8212-2AA03-0AA2	3VT8212-2AA04-0AA2	
VT 85		160 A	3VT8216-2AA03-0AA2	3VT8216-2AA04-0AA2	
VT 80		200 A	3VT8320-2AA03-0AA2	3VT8320-2AA04-0AA2	
VT 81		250 A	3VT8325-2AA03-0AA2	3VT8325-2AA04-0AA2	
VT 82		315 A	3VT8431-2AA03-0AA2	3VT8431-2AA04-0AA2	
VT 83		400 A	3VT8440-2AA03-0AA2	3VT8440-2AA04-0AA2	
VT 84		500 A	3VT8550-2AA03-0AA2	3VT8550-2AA04-0AA2	
VT 85		630 A	3VT8563-2AA03-0AA2	3VT8563-2AA04-0AA2	
VT 85	65 kA	400 A	3VT8540-3AA03-0AA2	3VT8540-3AA04-0AA2	
		630 A	3VT8563-3AA03-0AA2	3VT8563-3AA04-0AA2	

3VT MCCB with Adjustable Thermal - Magnetic trip unit (Overload & Short Circuit protection)

Frame	Br._Cap. Icu @ 415 V	Rated Current	3 Pole Type reference	4 Pole Type reference
VT 82	25 kA	22 - 32 A	3VT8203-1BA03-0AA2	3VT8203-1BA04-0AA2
		44 - 63 A	3VT8206-1BA03-0AA2	3VT8206-1BA04-0AA2
		56 - 80 A	3VT8208-1BA03-0AA2	3VT8208-1BA04-0AA2
		70 - 100 A	3VT8210-1BA03-0AA2	3VT8210-1BA04-0AA2
		87 - 125 A	3VT8212-1BA03-0AA2	3VT8212-1BA04-0AA2
		112 - 160 A	3VT8216-1BA03-0AA2	3VT8216-1BA04-0AA2
		140 - 200 A	3VT8320-1BA03-0AA2	3VT8320-1BA04-0AA2
		175 - 250 A	3VT8325-1BA03-0AA2	3VT8325-1BA04-0AA2
		220 - 315 A	3VT8431-1BA03-0AA2	3VT8431-1BA04-0AA2
		280 - 400 A	3VT8440-1BA03-0AA2	3VT8440-1BA04-0AA2
VT 82	35 kA	250 - 630 A	3VT8563-1FA03-0AA2 ⁵	3VT8563-1FA04-0AA2 ⁵
		22 - 32 A	3VT8203-2BA03-0AA2	3VT8203-2BA04-0AA2
		44 - 63 A	3VT8206-2BA03-0AA2	3VT8206-2BA04-0AA2
		56 - 80 A	3VT8208-2BA03-0AA2	3VT8208-2BA04-0AA2
		70 - 100 A	3VT8210-2BA03-0AA2	3VT8210-2BA04-0AA2
		87 - 125 A	3VT8212-2BA03-0AA2	3VT8212-2BA04-0AA2
		112 - 160 A	3VT8216-2BA03-0AA2	3VT8216-2BA04-0AA2
		140 - 200 A	3VT8320-2BA03-0AA2	3VT8320-2BA04-0AA2
		175 - 250 A	3VT8325-2BA03-0AA2	3VT8325-2BA04-0AA2
		220 - 315 A	3VT8431-2BA03-0AA2	3VT8431-2BA04-0AA2
		280 - 400 A	3VT8440-2BA03-0AA2	3VT8440-2BA04-0AA2
		250 - 630 A	3VT8563-2FA03-0AA2 ⁵	3VT8563-2FA04-0AA2 ⁵
VT 85	65 kA	400 A	3VT8540-3FA03-0AA2 ⁵	3VT8540-3FA04-0AA2 ⁵
		630 A	3VT8563-3FA03-0AA2 ⁵	3VT8563-3FA04-0AA2 ⁵

\$ - MCCB with electronic trip unit.

3VT MCCB with Microprocessor based trip unit (Overload & Short Circuit & Ground Fault Protection #)

Frame	Br._Cap. Icu @ 415 V	Rated Current	3 Pole Type reference	4 Pole Type reference
VT 83	35 kA	160 A	3VT8316-1EA03-0AA2	-
		200 A	3VT8320-1EA03-0AA2	-
		250 A	3VT8325-1EA03-0AA2	3VT8425-1EA04-0AA2
		400 A	3VT8440-1EA03-0AA2	3VT8440-1EA04-0AA2
		630 A	3VT8563-1EA03-0AA2	3VT8563-1EA04-0AA2
		160 A	3VT8316-2EA03-0AA2	-
VT 84	50 kA	200 A	3VT8320-2EA03-0AA2	-
		250 A	3VT8325-2EA03-0AA2	3VT8425-2EA04-0AA2
		400 A	3VT8440-2EA03-0AA2	3VT8440-2EA04-0AA2
		630 A	3VT8563-2EA03-0AA2	3VT8563-2EA04-0AA2
		400 A	3VT8540-3EA03-0AA2	3VT8540-3EA04-0AA2
		630 A	3VT8563-3EA03-0AA2	3VT8563-3EA04-0AA2

- Ground Fault protection is available in case of 4 pole MCCB.

Internal Accessories		Order No. supplement 3VT8 . . . - . @ @ (13 th 14th digit)
Without auxiliary switch and Without alarm/auxiliary switch		0A
With auxiliary switch (HS) and alarm switch (AS)		
1 x HS		0 B
1 x HS + 1 x AS		0 D
With shunt release (ST) 220V AC/DC		2 G
With shunt release (ST) + Aux (HS + AS) 220V AC/DC		2 K
With undervoltage release (UVR) 220V AC/DC		2 L
With undervoltage release (UVR) + Aux (HS + AS) 220V AC/DC		2 P

External Accessories		Order No. supplement 3VT8 . . . - . @ @ (15 th 16th digit)
Standard fixed type		A 2
Plug-in MCCB		F 2
Draw-out MCCB		H 2

Frame	Door operated rotary drive Type reference	Direct MCCB operated rotary drive Type reference	Motorised Drive 220V AC Type reference
VT 80	3VT9100-3MG12	-	-
VT 81	3VT9100-3MG12	-	-
VT 82	3VT9200-3MG12	-	3VT9200-3MN22
VT 83	3VT9300-3MG12	3VT9300-3MC12	3VT9300-3MN22
VT 84	3VT9400-3MG12	3VT9400-3MC12	3VT9400-3MN22
VT 85	3VT9500-3MG12	3VT9500-3MC12	3VT9500-3MN22

Your Partners

Sales offices:

- **Ahmedabad** - 380009
1st Floor, Shanti Chamber, Terapanth Marg
Opp. Dinesh Hall, Near I.T. Cross Road, Navrangpura
☎ : +91 79 27546803, 27546172
Fax: +91 79 27546711
- **Bangalore** - 560001
1st Floor, Jyothimahal, #49, St. Marks Road
☎ : +91 80 22042000
Fax: +91 80 22224131 / 51120735
- **Chandigarh** - 160019
SCO - 188-190, 2nd Floor
Sector 34A, Gurunanak Complex
☎ : +91 172 2666618, 2666619
Mobile: +91 9417121990
E-mail: siemenschd@satyam.net.in
- **Chennai** - 600034
4, Mahatma Gandhi Road
☎ : +91 44 28334000
Fax: +91 44 28334088
- **Coimbatore** - 641018
7th Floor, East Wing, Global Towers
1057, Avinashi Road
☎ : +91 422 4336100
Fax: +91 422 4336106
- **Hyderabad** - 500004
5-9-19, Lakshmi Narasinh Estate, 4th Floor
Secretariat Road, Opp. Secretariat, Saifabad
☎ : +91 40 23482500 (10 Lines)
Fax: +91 40 23243145 / 23243146
- **Kolkata** - 700042
43 Shanti Palli, R B Connector
Eastern Metropolitan Bypass
☎ : +91 33 24449000, 24428641-47
Fax: +91 33 24449010 / 13
- **Mumbai** - 400018
130, Pandurang Budhkar Marg, Worli
☎ : +91 22 24987000-02
Fax: +91 22 24987312
- **Nagpur** - 440010
5th Floor, Landmark Building, Ramdas Peth
☎ : +91 712 6633000
Fax: +91 712 6633111
- **New Delhi** - 110002
4A, Ring Road, I.P. Estate
☎ : +91 11 23455000-09
Fax: +91 11 23455030
- **Pune** - 411016
Tower B / 701 - 705, ICC Trade Tower
403A, Senapati Bapat Road
☎ : +91 20 2570 6000
Fax: +91 20 2570 6060

Territory managers :

- **Aurangabad**
Mobile: +91 9822193204
E-mail: siemens.nsk@gmail.com
- **Bareilly** - 243001
Flat no. T1, 129, Civil Lines
Mobile: +91 9897679061
E-mail: siemens.bly@gmail.com
- **Baroda** - 390007
1st Floor Vanijya Bhavan, Race Course Road
Mobile: +91 98255 06963
E-mail: sreejagannath.mohanta@siemens.com
- **Belgaum** - 590005
C/o "Shrihari", 1st Floor, Plot No. 61
5th Cross, Bhagya Nagar
☎ & Fax: +91 831 2495156
Mobile: +91 9880290835
E-mail: m.imran@siemens.com

- **Bhilai** - 490001
C/o. Mr. S. H. Siddiqui
Sector -1, Street- 9, Quarter No.1A
Mobile: +91 9826127525
E-mail: siemens_chg@sify.com
- **Bhopal** - 462023
C/o. Mr. A.K. Sundrani, Sector - D
Plot No. B-204, Meenal Residency, J.K. Road
☎ : +91 755 2688662
Mobile: +91 9425057945
E-mail: siemens@sancharnet.in
- **Bhubaneswar** - 751003
Flat No. 4C, Aditya Palace, 218/219, Paika Nagar
☎ : +91 755 2563124
Mobile: +91 9437013124
E-mail: angshumanrc@yahoo.com
- **Cochin** - 682016
K.G. Oxford Business Centre
39/4609, 3rd Floor, Sreekandath Road, Ravipuram
☎ : +91 484 4028611/22/33/44
Fax: +91 484 2371564
E-mail: kumchn@satyammall.com
- **Durgapur** - 713216
A-39, Moulana Azad Sarani, 1st Floor, City Centre
☎ : +91 343 2546777
Mobile: +91 9832172046
E-mail: dgp_sldgp@sancharnet.in
- **Guwahati** - 781003
G1, Hill View Apartment
Navagraha Path, Chhenikuthi Hill Side
☎ : +91 361 2663988
Mobile: +91 9864037562
E-mail: amarnath.karmakar@vsnl.net
- **Hardwar** - 249407
758, 1st Floor, Model Colony
Awas Vikas, Jwalapur, Uttaranchal
☎ & Fax: +91 1334 265491
Mobile: +91 9897070133
E-mail: siemens_hwd@datainfosys.net
- **Indore** - 452001
521 Suniket Apartments
Shri Nagar Extension, Main Khajrana Road
Mobile: +91 98266 41970
E-mail: siemens_indore@yahoo.com
- **Jaipur** - 302016
Flat No.101, Mahiraj Apartment
Basant Marg, Bani Park, Rajasthan
☎ & Fax: +91 141 2203058
Mobile: +91 9829244313
E-mail: siemens_jpr@il.in
- **Jalandhar** - 144002
635L, 1st Floor, Model Town, Punjab
☎ & Fax: +91 181 2460547
Mobile: +91 9814306636
E-mail: siemensjal@vsnl.net
- **Jamshedpur** - 831005
1511, Kirthar Apartment, Vijaya Heritage, Uliyan, Kadma
Mobile: +91 99343 11352
- **Kanpur** - 208001
Flat No.19-B, 4th Floor, Prabhu Vatika
7/109, Swarup Nagar, U.P.
☎ & Fax: +91 512 2423348
Mobile: +91 9839102434
E-mail: siemens_knp@satyam.net.in
- **Kolhapur** - 416001
B-7, Mahagaonkar Complex
1147/E, Rajaram Road, Opp. Kamala College
☎ : +91 231 2536626
Mobile: +91 9822558876
E-mail: amol.pandit@siemens.com
- **Lucknow** - 226001
28/45, Ashok Marg
☎ : +91 522 2231219, 2280305
Mobile: +91 9415012500
E-mail: siemens_lko@satyam.net.in
- **Ludhiana** - 141004
54, Defence colony
near E block Gurudwara, B.R.S. Nagar
☎ : +91 161 4616813
Mobile: +91 94170 45273
E-mail: siemens_ldh@satyam.net.in
- **Ludhiana** - 141004
House No. 228, 2nd Floor, B.R.S. Nagar
☎ & Fax: +91 161-4610776
Mobile: +91 9872000936
E-Mail: siemens.ludhiana@sify.com
- **Madurai** - 625016
Flat No, 210, II Floor, Arunachalam Apartment
Bharathiya 5th street, S.S. Colony
☎ & Fax: +91 452 2601305
Mobile: +91 9443369375
E-Mail: k.shankar@siemens.com
- **Nashik** - 422101
88, Shubhmangal Apartment, Chavan Mala, Nasik Road
Mobile: +91 9822193204
E-mail: siemens.nsk@gmail.com
- **Rajkot** - 360005
House No 97, Street No 3, Panchvati Park
Bh: Panchvati Hall, Panchvati Society
Mobile: +91 98258 18864
E-mail: vinod_naik_sf@yahoo.co.in
- **Ranchi** - 834 001
Flat No. 403, Rishab Towers
Near Line Tank, Behind Firayalals
Mobile: +91 99343 52756
- **Rourkela** - 769004
T-15 Civil Town
☎ : +91 661 2400880
Mobile: +91 9437041724
E-mail: ganguly_s_l@yahoo.co.in
- **Renukoot** - 231217
Room No.1 - 2, Adjacent Jain Complex, Murdhawa
Mobile: +91 9838007897
E-mail: siemens_ueast@sify.com
- **Surat** - 395009
Flat No: 104, A5 Block, Green Avenue Apartment, Adajan
Mobile: +91 98255 06962
E-mail: siemens.surat@gmail.com
- **Udaipur** - 313001
Oasis Park, Flat No.303, P.P. Singhal Marg, Ambavgarh
☎ : +91 294 2430345
Mobile: +91 9829039120
E-mail: siemens@datainfosys.net
- **Vapi** - 396195
Flat No. 302, Samrajaya IV
Royal Residency, Charwada Road
☎ : +91 260 6451156
Mobile: +91 98251 47957
E-Mail: siemens_vapi@sancharnet.in
- **Vijayawada** - 520010
G-2, Shreya Towers, Moghalrajapuram
Near Jammichettu Centre
☎ : +91 866 5529933
Mobile: +91 9866690935
E-mail: srishachandra.kartikeya@siemens.com
kartikeya_p@rediffmail.com
- **Visakhapatnam** - 530017
Flat No. 101, Shripal Towers, Kiralampudi Layout
Mobile: +91 9849077719
E-mail: siemensvizag@rediffmail.com

Siemens Ltd.
Automation and Drives Division
LV Control & Distribution Products
Thane Belapur Road
Thane 400601
Fax: +91 22 27623729
e-mail: lvsgr-mktg.india@siemens.com

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