



SIEMENS

DEALER



**TENCO GROUP**

Mobile: +91 982-671-9220 Website: [www.tencogroup.net](http://www.tencogroup.net)

A nighttime aerial view of a city with a large solar panel array in the foreground, a city skyline in the middle ground, and mountains in the background under a starry sky.

**Your trusted partner for  
reliable power**

**Low Voltage Power Distribution products**

Price List w.e.f. 1<sup>st</sup> October, 2015

[www.siemens.co.in](http://www.siemens.co.in)

Siemens switchgear. Tried, tested, trusted.

## LIST OF SITRAIN - INDIA TRAINING CENTERS (including Training Service Providers, TSPs)

Title	Course Code	Days
<b>Training Programmes on Automation Products</b>		
SIMATIC S7-1200 with STEP7 V13	AS-TIA1200	4
SIMATIC S7-1500 with STEP7 V13	AS-TIA1500	5
SIMATIC S7-300 Basic with STEP7 V5.5	AS-ST300	8
SIMATIC S7-400 Basic with STEP7 V5.5	AS-ST400	8
SIMATIC S7-300/400 Advance with STEP7 V5.5	AS-ST300/400	6
Networking on Profibus/Profinet with STEP7 V5.5	AS-STNET	5
SIMATIC WinCC Basic V7	AS-STWINCCB	5
SIMATIC WinCC Advance V7	AS-STWINCCA	3
DCS: SIMATIC PCS 7 Basic	AS-STPCS7B	10
DCS: SIMATIC PCS 7 Advance	AS-STPCS7A	10
DCS: SIMATIC PCS 7 SERV(Troubleshooting/Maint)	AS-STPCS7S	5
SIMATIC Distributed (Machine Safety) course	AS-STSAFM	3
SIMATIC Fail-safe (Process Safety) course	AS-STSAFP	3
<b>Training Program on Drive Products</b>		
Basics AC DC Drive	DR-BDT	5
Basic Drive with MM4 Maintenance	DR-MM4	5
SIMOVERT Masterdrive Vector control	DR-MDVC	6
SIMOREG 6RA70	DR-DC70	6
SINAMICS DCM 6RA80	DR-DCM	6

Title	Course Code	Days
SINAMICS V90	DR-V90	3
SINAMICS V20	DR-V20	3
SINAMICS G120	DR-G120	5
SINAMICS G130/G150	DR-G130	6
SINAMICS S120	DR-S120	6
SIMOTION System & Programming	DR-SIMO	8
SINAMICS Perfect Harmony GH180	DR-GH180	5
<b>Training Program on LV Switchgear Products</b>		
LV Switchgear Products & Maintenance	LV-SGPM	5
LV Power Distribution Systems	LV-PD	2
SIMOCODE AC-Motor control	LV-SM	2
Basic Automation for Switchgear User	LV-BAS	3
AC Motor Basics Control & Maintenance	LV-IM	3
SIRIUS Soft Starter	LV-SS	2
Sentron PAC Meter	LV-PAC	2
Sentron Power Manager	LV-SPM	2
<b>Training Program on Process Instrumentation and Mechatronics</b>		
Basic Course on Process Instrumentation	PIA100	4
Basic Course on Mechatronics (Siemens-Berlin Certification)	SMSCP-L1	30
Basic Course on Mechatronics (Siemens-India Certification)	CU-MEX	12

### Siemens Training Centres In India (Address & Contacts)

**Sitrain India (Kalwa)**  
Siemens Training Centre  
TSDC, Kalwa Works  
Thane-Belapur Road, Thane - 400601  
Contact: Ms. Shalaka Shinde  
Tel: +91-22-39663208/8087  
E-mail: customer.training.in@siemens.com

**TSP-West 1 (Navi-Mumbai)**  
Esskay Services  
Block No-801-802, B Wing  
Techno City Plot No. X-4/1 & X-4/2  
TTC Industrial Area, Mahape  
Navi Mumbai - 460710  
Contact: Ms. Pratiksha Kadam  
Tel: +91-22-27788403  
E-mail: mumtc@esskay.in

**TSP-Central (Nagpur)**  
Artech Solutions  
Raj Sahaydri, Hingna T-Point  
Nagpur - 440032  
Contact: Mr. Ritesh Agrawal  
Tel: +91-712-2243338  
E-mail: artech.nagpur@gmail.com

**TSP-East (Kolkata)**  
Esskay Services  
Lane-2 Swarupnagar  
Dankuni, Hooghly - 712311  
Contact: Mr. Dharmendra Kumar  
Tel: +91-33-26590258  
E-mail: koltc@esskay.in

**TSP-North 1 (Panchkula)**  
Industrial Automation Training Centre  
178, Phase II, Industrial Area  
Panchkula - 134113, Haryana (India)  
Contact: Ms. Vandita Dua  
Tel: +91-172-5044417  
E-mail: iatc@iautomation.in

**TSP - North2 (Jaipur)**  
Johns Electric Company Private Limited  
C-25(B), Malviya Industrial Area  
Jaipur - 302017, Rajasthan, India.  
Contact: Ms. Prachi Bhargava  
Tel: +91-141-2751694/357  
E-mail: prachibhargava@johnselectric.in

**TSP - South 1 (Coimbatore)**  
Karunya-Siemens Centre  
Karunya University, Karunya Nagar  
Coimbatore - 641114  
Contact: Dr. V. Jegathesan  
Tel: +91-422-2614400 / 4399  
E-mail: siemens@karunya.edu

**TSP - South 2 (Hyderabad)**  
Esskay Technologies  
9-10-13, 2nd Floor, Siddam Shetty Complex  
Above Canara Bank  
Opposite Raymond Showroom, Parklane  
Secunderabad - 500003  
Contact: Mr. Mohan  
Tel: +91-40-66776353/66386352

**TSP - South 3 (Chennai)**  
Vi-Microsystems Pvt. Ltd.  
Plot No. 75, Electronics Estate  
Perungudi, Chennai-600096  
Contact: Mr. VijayBabu  
Tel: +91-44-42047536  
E-mail: vijayababu@vimicrosystems.com

**TSP-West 2 Christiani Sharpline Technical Training (P) Ltd. (Kalwa)**  
Plot No. 19, TTC Industrial Area  
Vishnu Nagar, Digha  
Navi Mumbai - 400708  
Contact: Ms. Sarita Pawde  
Tel: +91-22-39154101/105  
E-mail: sarita@sharplinegroup.com

For information on prices of below products please refer to the  
LV Switchgear Motor Control Products valid Price List



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# SIEMENS



## The 3VA moulded case circuit breaker. A complete system designed with you in mind.

Totally Integrated Power – SENTRON

### Support for the engineering process

The 3VA moulded case circuit breaker is a well thought-out and highly variable system which provides optimum support in each process step – from engineering to daily operation of the electrical power distribution system.

### Find solutions

Choose from a wide product range of basic circuit breakers and accessories and configure the moulded case circuit breaker entirely to your individual requirements.

### Minimize effort

Reduce your planning and engineering effort thanks to the comprehensive CAX data offering.

### Increase transparency

Create a high level of transparency in your system and record all energy-relevant data.

### Ensure system availability

Profit from full selectivity and an intuitive handling concept and ensure high availability, safety and protection for your system.

[www.siemens.com/3VA](http://www.siemens.com/3VA)

Read the QR  
code with  
your QR  
code reader.



[www.siemens.co.in](http://www.siemens.co.in)

## MCCB: Sentron 3VA new

- Rated current: 16A to 630A
- 1 pole, 2 pole, 3 pole & 4 pole versions
- Thermal magnetic and Microprocessor based trip unit
- Common Internal accessories for the entire range
- Information on the GO - Unique Knowledge Manager (QR Code) for 24 X 7 Technical Information
- Innovative Accessories viz. Short Circuit Alarm Switch, Illuminated Handle, Shunt Trip Flexible etc



### Sentron 3VA MCCB, Thermal Magnetic Trip Unit, Fixed Thermal Fixed Magnetic (FTFM), Ics = 100% Icu, 415VAC, 50Hz

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit LP* ₹	Type	Unit LP* ₹
3VA10	16kA	16	3VA1096-2ED32-0AA0	6590.-	3VA1096-2ED42-0AA0	8555.-
		20	3VA1020-2ED32-0AA0	6590.-	3VA1020-2ED42-0AA0	8555.-
		25	3VA1025-2ED32-0AA0	6590.-	3VA1025-2ED42-0AA0	8555.-
		32	3VA1032-2ED32-0AA0	6590.-	3VA1032-2ED42-0AA0	8555.-
		40	3VA1040-2ED32-0AA0	6590.-	3VA1040-2ED42-0AA0	8555.-
		50	3VA1050-2ED32-0AA0	6590.-	3VA1050-2ED42-0AA0	8555.-
		63	3VA1063-2ED32-0AA0	6590.-	3VA1063-2ED42-0AA0	8555.-
		80	3VA1080-2ED32-0AA0	7215.-	3VA1080-2ED42-0AA0	9370.-
		100	3VA1010-2ED32-0AA0	8345.-	3VA1010-2ED42-0AA0	10875.-
3VA10	25kA	16	3VA1096-3ED32-0AA0	6770.-	3VA1096-3ED42-0AA0	8835.-
		20	3VA1020-3ED32-0AA0	6770.-	3VA1020-3ED42-0AA0	8835.-
		25	3VA1025-3ED32-0AA0	6770.-	3VA1025-3ED42-0AA0	8835.-
		32	3VA1032-3ED32-0AA0	6770.-	3VA1032-3ED42-0AA0	8835.-
		40	3VA1040-3ED32-0AA0	6770.-	3VA1040-3ED42-0AA0	8835.-
		50	3VA1050-3ED32-0AA0	6770.-	3VA1050-3ED42-0AA0	8835.-
		63	3VA1063-3ED32-0AA0	6770.-	3VA1063-3ED42-0AA0	8835.-
		80	3VA1080-3ED32-0AA0	7365.-	3VA1080-3ED42-0AA0	9585.-
		100	3VA1010-3ED32-0AA0	8525.-	3VA1010-3ED42-0AA0	11090.-
3VA11	25kA	125	3VA1112-3ED32-0AA0	14370.-	3VA1112-3ED42-0AA0	18655.-
		160	3VA1116-3ED32-0AA0	16720.-	3VA1116-3ED42-0AA0	21750.-
3VA10	36kA	16	3VA1096-4ED32-0AA0	7145.-	3VA1196-4GD42-0AA0	9890.-
		20	3VA1020-4ED32-0AA0	7145.-	3VA1120-4GD42-0AA0	9890.-
		25	3VA1025-4ED32-0AA0	7145.-	3VA1125-4GD42-0AA0	9890.-
		32	3VA1032-4ED32-0AA0	7145.-	3VA1132-4GD42-0AA0	9890.-
		40	3VA1040-4ED32-0AA0	7145.-	3VA1140-4GD42-0AA0	9890.-
		50	3VA1050-4ED32-0AA0	7145.-	3VA1150-4GD42-0AA0	9890.-
		63	3VA1063-4ED32-0AA0	7145.-	3VA1163-4GD42-0AA0	9890.-
		80	3VA1080-4ED32-0AA0	7505.-	3VA1180-4GD42-0AA0	10845.-
		100	3VA1010-4ED32-0AA0	8705.-	3VA1110-4GD42-0AA0	12530.-
3VA11	36kA	125	3VA1112-4ED32-0AA0	15600.-	3VA1112-4GD42-0AA0	20275.-
		160	3VA1116-4ED32-0AA0	18195.-	3VA1116-4GD42-0AA0	23650.-
3VA11	55kA	16	3VA1196-5ED32-0AA0	8385.-	3VA1196-5GD42-0AA0	10875.-
		20	3VA1120-5ED32-0AA0	8385.-	3VA1120-5GD42-0AA0	10875.-
		25	3VA1125-5ED32-0AA0	8385.-	3VA1125-5GD42-0AA0	10875.-
		32	3VA1132-5ED32-0AA0	8385.-	3VA1132-5GD42-0AA0	10875.-
		40	3VA1140-5ED32-0AA0	8385.-	3VA1140-5GD42-0AA0	10875.-
		50	3VA1150-5ED32-0AA0	8385.-	3VA1150-5GD42-0AA0	10875.-
		63	3VA1163-5ED32-0AA0	8385.-	3VA1163-5GD42-0AA0	10875.-
		80	3VA1180-5ED32-0AA0	9190.-	3VA1180-5GD42-0AA0	11940.-
		100	3VA1110-5ED32-0AA0	10635.-	3VA1110-5GD42-0AA0	13805.-
		125	3VA1112-5ED32-0AA0	17145.-	3VA1112-5GD42-0AA0	22280.-
		160	3VA1116-5ED32-0AA0	19990.-	3VA1116-5GD42-0AA0	26010.-

Std. Pkg. = 1 unit

\* LP - List Price

## Sentron 3VA MCCB, Thermal Magnetic Trip Unit, Adj. Thermal Fixed Magnetic (ATFM), Ics = 100% Icu, 415VAC, 50Hz

**new**

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit LP* ₹	Type	Unit LP* ₹
3VA11	25kA	16	3VA1196-3EE32-0AA0	8595.-	3VA1196-3GE42-0AA0	12310.-
		20	3VA1120-3EE32-0AA0	8595.-	3VA1120-3GE42-0AA0	12310.-
		25	3VA1125-3EE32-0AA0	8595.-	3VA1125-3GE42-0AA0	12310.-
		32	3VA1132-3EE32-0AA0	8595.-	3VA1132-3GE42-0AA0	12310.-
		40	3VA1140-3EE32-0AA0	8595.-	3VA1140-3GE42-0AA0	12310.-
		50	3VA1150-3EE32-0AA0	8595.-	3VA1150-3GE42-0AA0	12310.-
		63	3VA1163-3EE32-0AA0	8595.-	3VA1163-3GE42-0AA0	12310.-
		80	3VA1180-3EE32-0AA0	8595.-	3VA1180-3GE42-0AA0	12310.-
		100	3VA1110-3EE32-0AA0	9190.-	3VA1110-3GE42-0AA0	12310.-
		125	3VA1112-3EE32-0AA0	15600.-	3VA1112-3GE42-0AA0	19205.-
		160	3VA1116-3EE32-0AA0	17210.-	3VA1116-3GE42-0AA0	22315.-
3VA11	36kA	16	3VA1196-4EE32-0AA0	10610.-	3VA1196-4GE42-0AA0	13900.-
		20	3VA1120-4EE32-0AA0	10610.-	3VA1120-4GE42-0AA0	13900.-
		25	3VA1125-4EE32-0AA0	10610.-	3VA1125-4GE42-0AA0	13900.-
		32	3VA1132-4EE32-0AA0	10610.-	3VA1132-4GE42-0AA0	13900.-
		40	3VA1140-4EE32-0AA0	10610.-	3VA1140-4GE42-0AA0	13900.-
		50	3VA1150-4EE32-0AA0	10610.-	3VA1150-4GE42-0AA0	13900.-
		63	3VA1163-4EE32-0AA0	10610.-	3VA1163-4GE42-0AA0	13900.-
		80	3VA1180-4EE32-0AA0	10610.-	3VA1180-4GE42-0AA0	13900.-
		100	3VA1110-4EE32-0AA0	10610.-	3VA1110-4GE42-0AA0	13900.-
		125	3VA1112-4EE32-0AA0	16340.-	3VA1112-4GE42-0AA0	20805.-
		160	3VA1116-4EE32-0AA0	18695.-	3VA1116-4GE42-0AA0	24255.-
3VA12		200#	3VA1220-4EF32-0AA0	24825.-	3VA1220-4GF42-0AA0	30590.-
		250#	3VA1225-4EF32-0AA0	26315.-	3VA1225-4GF42-0AA0	33040.-
3VA11	55kA	16	3VA1196-5EE32-0AA0	12095.-	3VA1196-5GE42-0AA0	15280.-
		20	3VA1120-5EE32-0AA0	12095.-	3VA1120-5GE42-0AA0	15280.-
		25	3VA1125-5EE32-0AA0	12095.-	3VA1125-5GE42-0AA0	15280.-
		32	3VA1132-5EE32-0AA0	12095.-	3VA1132-5GE42-0AA0	15280.-
		40	3VA1140-5EE32-0AA0	12095.-	3VA1140-5GE42-0AA0	15280.-
		50	3VA1150-5EE32-0AA0	12095.-	3VA1150-5GE42-0AA0	15280.-
		63	3VA1163-5EE32-0AA0	12095.-	3VA1163-5GE42-0AA0	15280.-
		80	3VA1180-5EE32-0AA0	12095.-	3VA1180-5GE42-0AA0	15280.-
		100	3VA1110-5EE32-0AA0	12095.-	3VA1110-5GE42-0AA0	15280.-
		125	3VA1112-5EE32-0AA0	18995.-	3VA1112-5GE42-0AA0	22810.-
		160	3VA1116-5EE32-0AA0	20555.-	3VA1116-5GE42-0AA0	26525.-
3VA12		200#	3VA1220-5EF32-0AA0	25855.-	3VA1220-5GF42-0AA0	31570.-
		250#	3VA1225-5EF32-0AA0	27410.-	3VA1225-5GF42-0AA0	34725.-
3VA11	70kA	16	3VA1196-6EE32-0AA0	16550.-	3VA1196-6GE42-0AA0	20795.-
		20	3VA1120-6EE32-0AA0	16550.-	3VA1120-6GE42-0AA0	20795.-
		25	3VA1125-6EE32-0AA0	16550.-	3VA1125-6GE42-0AA0	20795.-
		32	3VA1132-6EE32-0AA0	16550.-	3VA1132-6GE42-0AA0	20795.-
		40	3VA1140-6EE32-0AA0	16550.-	3VA1140-6GE42-0AA0	20795.-
		50	3VA1150-6EE32-0AA0	16550.-	3VA1150-6GE42-0AA0	20795.-
		63	3VA1163-6EE32-0AA0	16550.-	3VA1163-6GE42-0AA0	20795.-
		80	3VA1180-6EE32-0AA0	16550.-	3VA1180-6GE42-0AA0	20795.-
		100	3VA1110-6EE32-0AA0	16550.-	3VA1110-6GE42-0AA0	20795.-
		125	3VA1112-6EE32-0AA0	30765.-	3VA1112-6GE42-0AA0	32995.-
		160	3VA1116-6EE32-0AA0	30765.-	3VA1116-6GE42-0AA0	32995.-
3VA12		200#	3VA1220-6EF32-0AA0	34865.-	3VA1220-6GF42-0AA0	44855.-
		250#	3VA1225-6EF32-0AA0	34865.-	3VA1225-6GF42-0AA0	44855.-

Std. Pkg. = 1 unit

# - Adjustable Thermal Adjustable Magnetic

\* LP - List Price

Sentron 3VA MCCB for Motor Starter Protection (Adjustable Magnetic trip unit, 3pole) **new**

Frame Size	Rated Current In (A)	Breaking Capacity (55kA, 415V, 50Hz)		Breaking Capacity (70kA, 415V, 50Hz)	
		Type	Unit LP* ₹	Type	Unit LP* ₹
3VA11	32	3VA1132-5MH32-0AA0	13285.-	3VA1132-6MH32-0AA0	14320.-
	40	3VA1140-5MH32-0AA0	13285.-	3VA1140-6MH32-0AA0	14320.-
	50	3VA1150-5MH32-0AA0	13285.-	3VA1150-6MH32-0AA0	14320.-
	63	3VA1163-5MH32-0AA0	13285.-	3VA1163-6MH32-0AA0	14320.-
	80	3VA1180-5MH32-0AA0	13285.-	3VA1180-6MH32-0AA0	14320.-
	100	3VA1110-5MH32-0AA0	13285.-	3VA1110-6MH32-0AA0	14320.-
	125	3VA1112-5MH32-0AA0	19055.-	3VA1112-6MH32-0AA0	20600.-
3VA12	160	3VA1216-5MH32-0AA0	20000.-	3VA1216-6MH32-0AA0	28500.-
	200	3VA1220-5MH32-0AA0	27500.-	3VA1220-6MH32-0AA0	33750.-

Sentron 3VA MCCB, Thermal Magnetic Trip Unit, Fixed Thermal Fixed Magnetic (FTFM), Ics = 100% Icu **new**

Frame Size	Breaking Capacity @ 415V AC, 50Hz	Rated Current In (A)	2 Pole	
			Type	Unit LP* ₹
3VA11	25kA	16	3VA1196-3ED22-0AA0	5625.-
		20	3VA1120-3ED22-0AA0	5625.-
		25	3VA1125-3ED22-0AA0	5625.-
		32	3VA1132-3ED22-0AA0	5625.-
		40	3VA1140-3ED22-0AA0	5625.-
		50	3VA1150-3ED22-0AA0	5625.-
		63	3VA1163-3ED22-0AA0	5625.-
		80	3VA1180-3ED22-0AA0	6155.-
		100	3VA1110-3ED22-0AA0	7215.-
		125	3VA1112-3ED22-0AA0	11670.-
		160	3VA1116-3ED22-0AA0	13480.-
3VA11	36kA	16	3VA1196-4ED22-0AA0	6155.-
		20	3VA1120-4ED22-0AA0	6155.-
		25	3VA1125-4ED22-0AA0	6155.-
		32	3VA1132-4ED22-0AA0	6155.-
		40	3VA1140-4ED22-0AA0	6155.-
		50	3VA1150-4ED22-0AA0	6155.-
		63	3VA1163-4ED22-0AA0	6155.-
		80	3VA1180-4ED22-0AA0	6795.-
		100	3VA1110-4ED22-0AA0	7855.-
		125	3VA1112-4ED22-0AA0	12520.-
		160	3VA1116-4ED22-0AA0	14645.-

3VA11<sup>1)</sup>, 1 Pole

3VA11, 2 Pole

Circuit Breakers

Sentron 3VA MCCB, Switch Disconnecter (without protection) **new**

Frame Size	Breaking Capacity	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit LP* ₹	Type	Unit LP* ₹
3VA11	NA	63	3VA1163-1AA32-0AA0	9335.-	3VA1163-1AA42-0AA0	13790.-
		100	3VA1110-1AA32-0AA0	9335.-	3VA1110-1AA42-0AA0	13790.-
		125	3VA1112-1AA32-0AA0	19095.-	3VA1112-1AA42-0AA0	25460.-
		160	3VA1116-1AA32-0AA0	19095.-	3VA1116-1AA42-0AA0	25460.-
3VA12	NA	250	3VA1225-1AA32-0AA0	19095.-	3VA1225-1AA42-0AA0	25460.-

<sup>1)</sup> Price upon enquiry

Std. Pkg. = 1 unit

\* LP - List Price

Siemens switchgear. Tried, tested, trusted.

**Sentron 3VA MCCB, Microprocessor Trip Unit, ETU320 LI, Ics = 100% Icu, 415VAC, 50Hz**

**new**

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit LP* ₹	Type	Unit LP* ₹
3VA20	36kA	25	3VA2025-4HL32-0AA0	16375.-	3VA2025-4HL42-0AA0	21115.-
		40	3VA2040-4HL32-0AA0	16375.-	3VA2040-4HL42-0AA0	21115.-
		63	3VA2063-4HL32-0AA0	16375.-	3VA2063-4HL42-0AA0	21115.-
		100	3VA2010-4HL32-0AA0	16375.-	3VA2010-4HL42-0AA0	21115.-
3VA21	36kA	160	3VA2116-4HL32-0AA0	22145.-	3VA2116-4HL42-0AA0	30900.-
3VA22		250	3VA2225-4HL32-0AA0	30385.-	3VA2225-4HL42-0AA0	41200.-
3VA20	55kA	25	3VA2025-5HL32-0AA0	20825.-	3VA2025-5HL42-0AA0	28530.-
		40	3VA2040-5HL32-0AA0	20825.-	3VA2040-5HL42-0AA0	28530.-
		63	3VA2063-5HL32-0AA0	20825.-	3VA2063-5HL42-0AA0	28530.-
		100	3VA2010-5HL32-0AA0	20825.-	3VA2010-5HL42-0AA0	28530.-
3VA21		160	3VA2116-5HL32-0AA0	26400.-	3VA2116-5HL42-0AA0	34185.-
3VA22		250	3VA2225-5HL32-0AA0	34495.-	3VA2225-5HL42-0AA0	45540.-
3VA23	55kA	400	3VA2340-5HL32-0AA0	43775.-	3VA2340-5HL42-0AA0	57370.-
3VA24		630	3VA2463-5HL32-0AA0	45320.-	3VA2463-5HL42-0AA0	60050.-
3VA20	85kA	25	3VA2025-6HL32-0AA0	27225.-	3VA2025-6HL42-0AA0	33735.-
		40	3VA2040-6HL32-0AA0	27225.-	3VA2040-6HL42-0AA0	33735.-
		63	3VA2063-6HL32-0AA0	27225.-	3VA2063-6HL42-0AA0	33735.-
		100	3VA2010-6HL32-0AA0	27225.-	3VA2010-6HL42-0AA0	33735.-
3VA21		160	3VA2116-6HL32-0AA0	35705.-	3VA2116-6HL42-0AA0	45570.-
3VA22		250	3VA2225-6HL32-0AA0	39650.-	3VA2225-6HL42-0AA0	57740.-
3VA23	85kA	400	3VA2340-6HL32-0AA0	49750.-	3VA2340-6HL42-0AA0	65335.-
3VA24		630	3VA2463-6HL32-0AA0	50985.-	3VA2463-6HL42-0AA0	79310.-

**Sentron 3VA MCCB, Microprocessor Trip Unit, ETU330 LIG, Ics = 100% Icu, 415VAC, 50Hz**

**new**

Frame Size	Breaking Capacity @ 415VAC, 50Hz	Rated Current In (A)	3 Pole		4 Pole	
			Type	Unit LP* ₹	Type	Unit LP* ₹
3VA20	36kA	25	3VA2025-4HM32-0AA0	22555.-	3VA2025-4HM42-0AA0	27810.-
		40	3VA2040-4HM32-0AA0	22555.-	3VA2040-4HM42-0AA0	27810.-
		63	3VA2063-4HM32-0AA0	22555.-	3VA2063-4HM42-0AA0	27810.-
		100	3VA2010-4HM32-0AA0	22555.-	3VA2010-4HM42-0AA0	27810.-
3VA21	36kA	160	3VA2116-4HM32-0AA0	28530.-	3VA2116-4HM42-0AA0	35535.-
3VA22		250	3VA2225-4HM32-0AA0	36050.-	3VA2225-4HM42-0AA0	45320.-
3VA20	55kA	25	3VA2025-5HM32-0AA0	25710.-	3VA2025-5HM42-0AA0	29460.-
		40	3VA2040-5HM32-0AA0	25710.-	3VA2040-5HM42-0AA0	29460.-
		63	3VA2063-5HM32-0AA0	25710.-	3VA2063-5HM42-0AA0	29460.-
		100	3VA2010-5HM32-0AA0	26245.-	3VA2010-5HM42-0AA0	30795.-
3VA21		160	3VA2116-5HM32-0AA0	35350.-	3VA2116-5HM42-0AA0	42420.-
3VA22		250	3VA2225-5HM32-0AA0	43115.-	3VA2225-5HM42-0AA0	53805.-
3VA23	55kA	400	3VA2340-5HM32-0AA0	52065.-	3VA2340-5HM42-0AA0	65665.-
3VA24		630	3VA2463-5HM32-0AA0	57275.-	3VA2463-5HM42-0AA0	72230.-
3VA20	85kA	25	3VA2025-6HM32-0AA0	32105.-	3VA2025-6HM42-0AA0	39045.-
		40	3VA2040-6HM32-0AA0	32105.-	3VA2040-6HM42-0AA0	39045.-
		63	3VA2063-6HM32-0AA0	32105.-	3VA2063-6HM42-0AA0	39045.-
		100	3VA2010-6HM32-0AA0	32105.-	3VA2010-6HM42-0AA0	39045.-
3VA21		160	3VA2116-6HM32-0AA0	40900.-	3VA2116-6HM42-0AA0	51345.-
3VA22		250	3VA2225-6HM32-0AA0	47895.-	3VA2225-6HM42-0AA0	67210.-
3VA23	85kA	400	3VA2340-6HM32-0AA0	58040.-	3VA2340-6HM42-0AA0	73625.-
3VA24		630	3VA2463-6HM32-0AA0	63845.-	3VA2463-6HM42-0AA0	80990.-

Std. Pkg. = 1 unit

\* LP - List Price

# Sentron 3VA - Accessories new

Frame	3VA1 100A / 160A / 250A	Unit MRP* ₹	3VA2 100A / 160A / 250A 3VA2 400A / 630A	Unit MRP* ₹
Accessory	Type		Type	
Auxiliary switch (AUX)	3VA9988-0AA12 (1 C/O)	1425.-	3VA9988-0AA12 (1 C/O)	1425.-
Alarm switch (TAS)	3VA9988-0AB12 (1 C/O)	2200.-	3VA9988-0AB12 (1 C/O)	2200.-
Short-circuit Alarm switch (SAS) for 3VA1 Only	3VA9988-0AB32 (for 3VA1 100A / 160A)	1170.-	–	
	3VA9988-0AB34 (for 3VA1 250A)	1170.-	–	
Electrical alarm switches (EAS) for 3VA2 Only	–		3VA9988-0AB22	1170.-
Under voltage release (UVR)				
120-127 V AC 50/60 Hz 208-230 V AC 50/60 Hz 380-400 V AC 50/60 Hz	3VA9908-0BB24	3375.-	3VA9908-0BB24	3375.-
	3VA9908-0BB25	3375.-	3VA9908-0BB25	3375.-
	3VA9908-0BB26	3375.-	3VA9908-0BB26	3375.-
Shunt release flexible (STF)				
110-127 V AC 50/60 HZ 208-277 V AC 50/60 HZ 380-500 V AC 50/60 HZ	3VA9988-0BA22	2535.-	3VA9988-0BA22	2535.-
	3VA9988-0BA23	2535.-	3VA9988-0BA23	2535.-
	3VA9988-0BA24	2535.-	3VA9988-0BA24	2535.-
<b>Extended Door Mounted Rotary Operator (including 8UC handle)</b>	3VA9157-0FK51 (for 3VA1 100A/ 160A)	2060.-	3VA9267-0FK51 (for 3VA2 100A/ 160A / 250A)	2165.-
	3VA9257-0FK51 (for 3VA1 250A)	2165.-	3VA9467-0FK54 (for 3VA2 400A/ 630A)	3605.-
Illuminated - Door mounted rotary operator 24V DC	3VA9157-0FK23 (for 3VA1 100A/ 160A)	4350.-	3VA9267-0FK23 (for 3VA2 100A/ 160A / 250A)	4775.-
	3VA9257-0FK23 (for 3VA1 250A)	4775.-	3VA9467-0FK23 (for 3VA2 400A/ 630A)	6075.-
Castell interlock kit* (for breakers with 8UC Handles) (To interlock two or more circuit breakers)	8UC60701YQ.. (for 3VA1 100A/ 160A)	3490.-	8UC60701YQ.. (for 3VA2 100A/ 160A / 250A)	3490.-
	8UC60701YQ.. (for 3VA1 250A)	3490.-	8UC60702YQ.. (for 3VA2 400A/ 630A)	3580.-
Sliding Bar Interlock (for same size breakers with Toggle Lever)	3VA9158-0VF30 (for 3VA1 100A/ 160A)	4350.-	3VA9168-0VF30 (for 3VA2 100A/ 160A/ 250A)	4775.-
	3VA9258-0VF30 (for 3VA1 250A)	4515.-	3VA9368-0VF30 (for 3VA2 400A/ 630A)	5090.-
Locking device for breaker with Toggle lever	3VA9088-0LB10	1330.-	3VA9388-0LB10	1750.-
Motorised drive - (Motorised operator - MO) 110-230V AC/ 110-250VDC	3VA9157-0HA20 (for 3VA1 100A/ 160A)	14590.-	3VA9267-0HA20 (for 3VA2 100A/ 160A / 250A)	19095.-
	3VA9257-0HA20 (for 3VA1 250A)	19095.-	3VA9467-0HA20 (for 3VA2 400A/ 630A)	22555.-
<b>Spreader links - Broadened (with phase barriers)</b>	3VA9153-0QC00 (for 3pole, 3VA1 100A/ 160A)	1810.-	3VA9263-0QC00 (for 3pole, 3VA2 100A/ 160A / 250A)	1910.-
	3VA9154-0QC00 (for 4pole, 3VA1 100A/ 160A)	2340.-	3VA9264-0QC00 (for 4pole, 3VA2 100A/ 160A / 250A)	2550.-
	3VA9253-0QC00 (for 3pole, 3VA1 250A)	1855.-	3VA9483-0QC00 (for 3pole, 3VA2 400A/ 630A)	2260.-
	3VA9254-0QC00 (for 4pole, 3VA1 250A)	2470.-	3VA9484-0QC00 (for 4pole, 3VA2 400A/ 630A)	3000.-
Rear Terminals - Flat 1 set = 2 short + 1 Long (3pole) / 2 short + 2 Long (4pole)	3VA9113-0QE00 (for 3pole, 3VA1 100A/ 160A)	1490.-	3VA9203-0QE00 (for 3pole, 3VA2 100A/ 160A / 250A)	1910.-
	3VA9114-0QE00 (for 4pole, 3VA1 100A/ 160A)	2020.-	3VA9204-0QE00 (for 4pole, 3VA2 100A/ 160A / 250A)	2550.-
	3VA9213-0QE00 (for 3pole, 3VA1 250A)	1915.-	3VA9403-0QE00 (for 3pole, 3VA2 400A/ 630A)	3090.-
	3VA9214-0QE00 (for 4pole, 3VA1 250A)	2550.-	3VA9404-0QE00 (for 4pole, 3VA2 400A/ 630A)	4120.-
Phase Barriers (1 set = 2 phase barriers)	3VA9152-0WA00 (for 3VA1 100A/ 160A)	280.-	3VA9262-0WA00 (for 3VA2 100A/ 160A/ 250A)	285.-
	3VA9252-0WA00 (for 3VA1 250A)	285.-	3VA9482-0WA00 (for 3VA2 400A/ 630A)	665.-



AUX

TAS

SAS

EAS

UVR

STF

## Notes:

# The 11th and 12th place of the type reference will indicate the alphabet type of lock & key. Combinations available are A, B, C, D, A-, -B, -C, AB, AC. 11th place will be A, B, C, D for castell lock type A, B, C, D respectively. 11th and 12 place will be A0, 0B, 0C, AB, AC for castell lock type A-, -B, -C, AB, AC respectively

For higher breaking capacities (110kA and 150kA) and other special application MCCB, contact our nearest Sales Office.

For side mounted handles please contact our nearest Sales Office.

\* 1 set contains rotary mechanism, coupler, shaft and 8UC Front drive.

Std. Pkg. = 1 unit

\* MRP - Maximum Retail Price

## ACB: SENTRON 3WL

- Conforms to IEC 60947-2
- Rated current - 630A to 6300A
- Accurate protection through microprocessor based trip unit
- Unique ready-to-close interlock for maximum safety
- Mechanical contact erosion indicator
- Fully rated upto 55°C
- Neutral 100% rated
- Integrated online test facility
- Unique CubicleBus technology
- Data communication and power management options



**Standard breaking capacity  $I_{cs} = 100\% I_{cu}$**

**Manually operated ACB**

**Microprocessor based trip unit ETU45B LSIN protection (Overload and short circuit protection)**

Frame Size	Rated Current In (A)	Type	Withdrawable design with Guide Frame		Fixed mounted design	
			Unit LP* ₹	Unit LP* ₹	Unit LP* ₹	Unit LP* ₹
			3 Pole	4 Pole	3 Pole	4 Pole
I	630	3WL1106....	232430.-	293575.-	153500.-	230195.-
	800	3WL1108....	234975.-	299360.-	158225.-	236075.-
	1000	3WL1110....	241195.-	320115.-	173670.-	249340.-
	1250	3WL1112....	292115.-	369405.-	213670.-	304445.-
	1600	3WL1116....	322135.-	405855.-	226150.-	327975.-
II	2000	3WL1220....	348080.-	460605.-	234450.-	341485.-
	2500	3WL1225....	409050.-	525185.-	249245.-	393685.-
	3200	3WL1232....	530165.-	728110.-	355300.-	598015.-
	4000	3WL1240....	609980.-	774480.-	483735.-	655435.-
III	5000	3WL1350....	986895.-	1251895.-	881230.-	1156450.-
	6300	3WL1363....	1326945.-	1667225.-	1150505.-	1516760.-

Prices of ACBs with other breaking capacities available on request.

L: Overload protection      S: Delayed Short Circuit protection      I: Short circuit protection  
G: Ground fault protection      N: Neutral protection

Note: Std. Pkg. = 1 unit

### Add on options (Factory fitted)

Microprocessor based Release	Add LP* ₹
For ground fault protection	16770.-
Protection function LSIN with Current display	7275.-
Protection function LSING with Current display	24045.-

For prices of breakers with other types of microprocessor based trip unit, please consult your nearest sales office

Motorised Mechanism	Add LP* ₹
208-240VAC, 220Vdc motor, closing coil & Shunt trip coil	61625.-
110-127VAC, 110Vdc motor, closing coil & Shunt trip coil	61625.-

Motorized mechanism with other control voltages are available on request

All ACBs are with Top Horizontal - Bottom Horizontal main terminals except 6300A & 4000A which have only Vertical-Vertical main termination.

Standard Accessories included for draw out type ACB (EDO/MDO) = Safety shutter, door sealing frame, trip unit transparent cover (Not applicable for ACBs without trip unit), trip signal switch, ready to close signal switch and auxiliary contacts 2NO+ 2NC

Standard accessories included for fixed type ACB (EF/MF) = Door sealing frame, trip unit transparent cover (Not applicable for ACBs without trip unit), trip signal switch, ready to close signal switch and auxiliary contacts 2NO+2NC

Neutral CT if required, shall be ordered separately. \*Castell locks are to be ordered separately.

Please consult your nearest sales office for complete ordering code.

### Add on options (Factory fitted)

Description	Add LP* ₹
Spring Charge Signal Switch	5315.-
Door Interlock	4510.-
Position Signal Switch for Withdrawable Breaker	11660.-
Castell lock mounting kit*	3795.-
Mutual Mechanical Interlocking (Bowden wire)	Upon Enquiry
Metering function Plus (voltage transformer must be ordered separately)	Upon Enquiry
Profibus communication connection ( Com15 + BSS)	Upon Enquiry
Modbus communication connection ( Com16 + BSS)	Upon Enquiry

ACB for 1000/1150 V AC operation and DC application available on request

## Accessories

Description	AC 50/60Hz V	DC V	Type	Unit MRP <sup>5</sup> ₹
Shunt Release or Closing Coil Suitable for continuous operation	—	24	3WL9111-0AD01-0AA0	10205.-
	110	110	3WL9111-0AD05-0AA0	10205.-
	230	220	3WL9111-0AD06-0AA0	10205.-
Under Voltage Release (Instantaneous)	380-415	—	3WL9111-0AE06-0AA0	11275.-
Motorised Operating Mechanism	—	24-30	3WL9111-0AF01-0AA0	56420.-
	110-127	110-125	3WL9111-0AF03-0AA0	56420.-
	208-240	220-250	3WL9111-0AF04-0AA0	56420.-
Auxiliary Switch Block	2NO+2NC		3WL9111-0AG01-0AA0	5980.-
Castell Lock	—	—	3WX3663-6JEL_ \$	3325.-

Please order necessary auxiliary terminal blocks as per circuit diagram while ordering accessories. Please consult your nearest sales office for type nos. and prices.

\$ Types of castell locks shall be of type A, B, C, D, AB, AC; \_ to be replaced by the type no.

Note: Std. Pkg. = 1 unit

\* LP - List Price      \$ MRP - Maximum Retail Price

## ACB: 3WT

- Conforms to IEC 60947-2
- Rated current - 630A to 4000A
- Accurate protection through microprocessor based trip unit
- Unique ready-to-close interlock for maximum safety
- Mechanical contact erosion indicator
- Fully rated upto 50°C
- Neutral 100% rated
- Integrated online test facility
- LCD Display, as standard

Also available for  
690V AC operation



## Standard breaking capacity, 500VAC $I_{cs} = 100\% I_{cu}$ .

Microprocessor based trip unit ETU37WT: LSING + Display

Frame Size	Rated current In (A)		Withdrawable design with Guide Frame <sup>2)</sup>			
			3 Pole	Unit LP* ₹	4 Pole	Unit LP* ₹
I	630	MDO	3WT8061-6AA04-5AB2	181690.-	3WT8065-6AA04-5AB2	236205.-
		EDO	3WT8061-6UA34-5AB2	235010.-	3WT8065-6UA34-5AB2	289525.-
	800	MDO	3WT8081-6AA04-5AB2	191750.-	3WT8085-6AA04-5AB2	251015.-
		EDO	3WT8081-6UA34-5AB2	245070.-	3WT8085-6UA34-5AB2	304335.-
	1000	MDO	3WT8101-6AA04-5AB2	196950.-	3WT8105-6AA04-5AB2	255485.-
		EDO	3WT8101-6UA34-5AB2	250270.-	3WT8105-6UA34-5AB2	308805.-
	1250	MDO	3WT8121-6AA04-5AB2	241920.-	3WT8125-6AA04-5AB2	287590.-
		EDO	3WT8121-6UA34-5AB2	295240.-	3WT8125-6UA34-5AB2	340910.-
	1600	MDO	3WT8161-6AA04-5AB2	259640.-	3WT8165-6AA04-5AB2	314310.-
		EDO	3WT8161-6UA34-5AB2	312960.-	3WT8165-6UA34-5AB2	367630.-
II	2000	MDO	3WT8202-6AA04-5AB2	326230.-	3WT8206-6AA04-5AB2	401505.-
		EDO	3WT8202-6UA34-5AB2	379550.-	3WT8206-6UA34-5AB2	454825.-
	2500	MDO	3WT8252-6AA04-5AB2	369520.-	3WT8256-6AA04-5AB2	469785.-
		EDO	3WT8252-6UA34-5AB2	422840.-	3WT8256-6UA34-5AB2	523105.-
	3200	MDO	3WT8322-6AA04-5AB2	473745.-	3WT8326-6AA04-5AB2	581290.-
		EDO	3WT8322-6UA34-5AB2	527065.-	3WT8326-6UA34-5AB2	634610.-

### Microprocessor based Trip Units

ETU35WT: LSI + Display

5

Reduce

2255.-

5

Reduce

2255.-

Microprocessor based trip unit ETU37WT: LSING + Display

Frame Size	Rated current In (A)		Fixed Mounted design <sup>3)</sup>			
			3 Pole	Unit LP* ₹	4 Pole	Unit LP* ₹
I	630	MF	3WT8061-6AA00-0AA2	133515.-	3WT8065-6AA00-0AA2	180640.-
		EF	3WT8061-6UA30-0AA2	186835.-	3WT8065-6UA30-0AA2	233960.-
	800	MF	3WT8081-6AA00-0AA2	144125.-	3WT8085-6AA00-0AA2	198310.-
		EF	3WT8081-6UA30-0AA2	197445.-	3WT8085-6UA30-0AA2	251630.-
	1000	MF	3WT8101-6AA00-0AA2	146915.-	3WT8105-6AA00-0AA2	210070.-
		EF	3WT8101-6UA30-0AA2	200235.-	3WT8105-6UA30-0AA2	263390.-
	1250	MF	3WT8121-6AA00-0AA2	199835.-	3WT8125-6AA00-0AA2	236315.-
		EF	3WT8121-6UA30-0AA2	253155.-	3WT8125-6UA30-0AA2	289635.-
	1600	MF	3WT8161-6AA00-0AA2	204050.-	3WT8165-6AA00-0AA2	253130.-
		EF	3WT8161-6UA30-0AA2	257370.-	3WT8165-6UA30-0AA2	306450.-
II	2000	MF	3WT8202-6AA00-0AA2	229485.-	3WT8206-6AA00-0AA2	329420.-
		EF	3WT8202-6UA30-0AA2	282805.-	3WT8206-6UA30-0AA2	382740.-
	2500	MF	3WT8252-6AA00-0AA2	259030.-	3WT8256-6AA00-0AA2	386770.-
		EF	3WT8252-6UA30-0AA2	312350.-	3WT8256-6UA30-0AA2	440090.-
	3200	MF	3WT8322-6AA00-0AA2	394395.-	3WT8326-6AA00-0AA2	485710.-
		EF	3WT8322-6UA30-0AA2	447715.-	3WT8326-6UA30-0AA2	539030.-

### Microprocessor based Trip Units

ETU35WT: LSI + Display

5

Reduce

2255.-

5

Reduce

2255.-

For Non-Automatic ACBs please deduct ₹ 5125/- from the LPs of the ACBs marked ●. For type nos. of Non-Automatic ACBs contact nearest sales office  
For Non-Automatic ACBs marked ● please consult nearest sales office

L: Overload protection    S: Delayed Short Circuit protection    I: Short circuit protection    G: Ground fault protection<sup>1)</sup>    N: Neutral protection<sup>1)</sup>

Standard accessories included for electrical ACB (EDO/EF) = Motor operated mechanism, with mechanical and electrical closing, motor and closing solenoid of 220-240VAC/DC and shunt release of 220-240V AC/DC.

<sup>1)</sup> Current transformer for N-conductor shall be ordered separately for 3P ACB with Earth Fault and Neutral Conductor Protection.

<sup>2)</sup> Standard Accessories included for draw out type ACB (EDO/MDO) = Safety shutter, sealing cap over Off button, door sealing frame, trip unit transparent cover, trip signaling contact, ready to close signaling contact, auxiliary contacts 2NO+ 2NC

<sup>3)</sup> Standard accessories included for fixed type ACB (EF/MF) = Door sealing frame, trip unit transparent cover, trip signaling contact, ready to close signaling contact, auxiliary contacts 2NO+2NC

Note: Please contact nearest sales office for information on prices of 4000A ACB. Additional LP for 690 AC ACB - ₹ 24150/-

Std. Pkg. = 1 unit

\* LP - List Price

3WT Accessories

Description	AC 50/60Hz V	DC V	Type	Unit MRP ₹
Motorized Operating Mechanism with Electrical closing	110-127	110-125	3WT9831-1JH00	56155.-
	220-240	220-250	3WT9831-1JK00	56155.-
Shunt Release or Closing Coil Suitable for continuous operation	–	24	3WT9851-1JB00	3970.-
	110-127	110-125	3WT9851-1JH00	3970.-
	220-240	220-250	3WT9851-1JK00	3970.-
Under Voltage Release Instantaneous	110-127	110-125	3WT9853-1JH00	5000.-
	208-240	220-250	3WT9853-1JK00	5000.-
	380-415	–	3WT9853-1JM00	5000.-
Auxiliary Terminal Block	Fixed circuit breaker		3WT9825-1JC00	3505.-
	Drawout circuit breaker		3WT9827-1JA00	3505.-
Auxiliary Switch Block	2 Change over		3WT9816-1CE00	1990.-
Position Signal Switch for Withdrawable Breaker	3NO+3NC, 2NO+2NC, 1NO+1NC		3WT9884-1JC10	5000.-
5 digit operating cycle counter			3WT9864-0CA00	8150.-
Blocking Device for preventing opening of cubicle door in service position: for Withdrawable Breaker			3WT9867-1JC00	3770.-
Blocking Device for preventing opening of cubicle door in ON position: for Fixed Breaker			3WT9867-2JA00	3770.-
Castell Lock Mounting Kit (to prevent unauthorized closing of the circuit breaker)			3WT9863-6JE00	5675.-
Castell Lock			3WX3663-6JEL_#	3325.-
Door Sealing Frame (Also suitable for 3WL ACB)			3WX3686-0JA00	2115.-
External Current Sensor for N-conductor (For 3P ACB with Neutral or E/F Protection)	Size I		3WL9111-0AA21-0AA0	16515.-
	Size II		3WL9111-0AA22-0AA0	19190.-
External Current Sensor for N-conductor with copper connectors (for 3P ACB with Neutral or E/F protection)	Size I		3WL9111-0AA31-0AA0	18120.-
	Size II		3WL9111-0AA32-0AA0	20800.-

# Types of castell locks shall be of type A, B, C, D, AB, AC; \_ to be replaced by the type no.  
For fitment of motor/ shunt/ closing coil/ UV release/ addl. auxiliary contacts please order necessary Auxiliary terminal blocks as per circuit diagram.  
**Note: Std. Pkg. = 1 unit**



Retrofit solution

Description	Unit LP* ₹
Ready to fit kit for upgrading from our old or other make conventional Air Circuit Breaker to modern Sentron range of ACBs. <ul style="list-style-type: none"><li>Minimum Shut Down Time</li><li>No change in the existing panel except door cut out</li><li>No change in the existing panel bus-bars</li><li>Proven Siemens Design</li><li>No over heating</li><li>Cost Effective &amp; Quality Solution</li></ul>	Upon enquiry

For more details write to us at: [ics.india@siemens.com](mailto:ics.india@siemens.com)

SENTRON Auto transfer controllers

In accordance with IEC 60947-6-1, IEC standard for transfer switching equipments

new ATC 3100		ATC 5300	
	Rated supply voltage up to 400V AC		Rated supply voltage up to 690V AC
	Trafo to Trafo and Trafo to generator configurations		Trafo to Trafo, Trafo to generator and generator to generator configurations
	Generator control with output signal to start and stop generator		Communication capable on Modbus RTU
	Selectable operating modes and monitoring of fire alarm signal		Dedicated software for Parameterization and remote control
	Monitoring and display of status of normal and replacement supply		Energy cost control function (EJP function) and programmable I/Os & generator-testing facility

Description	Type	Unit LP* ₹	Std. pkg. (nos.)
ATC 3100 new	3KC9000-8EL10	49495.-	1
Connection cable 3KC ATC3100 to MCCBs / ACBs new	3KC9000-8EL62	10005.-	1
ATC 5300	3KC9-000-8TL30	78405.-	1
SENTRON SOFTWARE ATC (For ATC5300)	3KC9-000-8TL70	56650.-	1

## Integrated and safe planning of complete power distribution system

SIMARIS software tools



### SIMARIS design

#### Power distribution network planning

- From medium-voltage in-feed down to final distribution
- Network calculation based on IS/ IEC standards
- Automatic selection of appropriate switchgear & components

#### Automatic network calculations

- Estimation of energy source capacity
- Voltage drop calculation
- Fault level calculation
- Switchgear selection
- Cable sizing & scheduling
- Load flow studies
- Energy balance (capacitive compensation)
- Selectivity i.e. Protection co-ordination study



### SIMARIS curves

#### Visualization & evaluation:

- Tripping characteristics
- Cut-off current characteristics
- Let-through energy curves

#### Smartphone App



Download **free** version from [www.siemens.com/simaris](http://www.siemens.com/simaris)

## MCCB: Sentron 3VT1...5

Type 2 Co-ordination available

- Rated current - 16A to 1600A
- 3 and 4 pole versions
- Breaking capacity from 25kA to 65kA
- Thermal magnetic and Microprocessor based trip unit
- Switch disconnecter for complete range
- Special purpose trip unit for motor & generator protection
- Under voltage & shunt release with multiple voltage settings
- Fixed mounted, plug-in and draw-out versions



### 3VT1, Thermal Magnetic trip unit, Icu = 25kA, 415 V AC, 50 Hz MCCB (Fixed Overload & Fixed Short Circuit Settings) for line protection

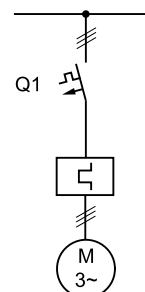
Rated current I <sub>n</sub> (A)	3 Pole		4 Pole		Std. pkg. (nos.)
	Type	Unit MRP* ₹	Type	Unit MRP* ₹	
40	3VT1704-2DA36-0AA0	6835.-	3VT1704-2EA46-0AA0	9230.-	1
63	3VT1706-2DA36-0AA0	6835.-	3VT1706-2EA46-0AA0	9230.-	1
80	3VT1708-2DA36-0AA0	6835.-	3VT1708-2EA46-0AA0	9230.-	1
100	3VT1710-2DA36-0AA0	6835.-	3VT1710-2EA46-0AA0	9230.-	1
125	3VT1712-2DA36-0AA0	9045.-	3VT1712-2EA46-0AA0	12510.-	1
160	3VT1716-2DA36-0AA0	12355.-	3VT1716-2EA46-0AA0	15645.-	1

### 3VT1, Thermal Magnetic trip unit, Icu = 25kA, 415 V AC, 50 Hz MCCB (Adjustable Overload & Adjustable Short Circuit Settings) for line protection

Rated current I <sub>n</sub> (A)	3 Pole		4 Pole		Std. pkg. (nos.)
	Type	Unit MRP* ₹	Type	Unit MRP* ₹	
16	3VT1701-2DC36-0AA0	7500.-	3VT1701-2EC46-0AA0	11320.-	1
25	3VT1792-2DC36-0AA0	7500.-	3VT1792-2EC46-0AA0	11320.-	1
32	3VT1703-2DC36-0AA0	7500.-	3VT1703-2EC46-0AA0	11320.-	1
40	3VT1704-2DC36-0AA0	7500.-	3VT1704-2EC46-0AA0	11320.-	1
63	3VT1706-2DC36-0AA0	7500.-	3VT1706-2EC46-0AA0	11320.-	1
80	3VT1708-2DC36-0AA0	7500.-	3VT1708-2EC46-0AA0	11320.-	1
100	3VT1710-2DC36-0AA0	7500.-	3VT1710-2EC46-0AA0	11320.-	1
125	3VT1712-2DC36-0AA0	9690.-	3VT1712-2EC46-0AA0	13250.-	1
160	3VT1716-2DC36-0AA0	13335.-	3VT1716-2EC46-0AA0	16970.-	1

### 3VT1, Thermal Magnetic trip unit for Motor Protection, Icu = 25kA, 415 V AC, 50 Hz MCCB (Adjustable Overload & Fixed Short Circuit Settings)

Rated current I <sub>n</sub> (A)	3 Pole Type	Unit MRP* ₹	Std. pkg. (nos.)
16	3VT1701-2DM36-0AA0	7385.-	1
20	3VT1702-2DM36-0AA0	7385.-	1
25	3VT1792-2DM36-0AA0	7385.-	1
32	3VT1703-2DM36-0AA0	7385.-	1
40	3VT1704-2DM36-0AA0	7385.-	1
50	3VT1705-2DM36-0AA0	7385.-	1
63	3VT1706-2DM36-0AA0	7385.-	1
80	3VT1708-2DM36-0AA0	7385.-	1
100	3VT1710-2DM36-0AA0	7385.-	1



### Switch disconnecter

Rated current I <sub>n</sub> (A)	3 Pole		4 Pole		Std. pkg. (nos.)
	Type	Unit MRP* ₹	Type	Unit MRP* ₹	
160	3VT1716-2DE36-0AA0	10485.-	3VT1716-2EE46-0AA0	13210.-	1

Note: Std. Pkg. = 1 unit

\* MRP - Maximum Retail Price

## Main switching unit without Trip Unit (ETU)

To be ordered along with trip unit or switch disconnector unit

Frame Size	Breaking capacity (Icu, 415V AC, 50Hz)	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
			Type	Unit LP* ₹	Type	Unit LP* ₹	
3VT2	36 kA	250	3VT2725-2AA36-0AA0	7260.-	3VT2725-2AA46-0AA0	11290.-	1
3VT3		630	3VT3763-2AA36-0AA0	17740.-	3VT3763-2AA46-0AA0	24990.-	1
3VT2	65 kA	250	3VT2725-3AA36-0AA0	9070.-	3VT2725-3AA46-0AA0	14075.-	1
3VT3		630	3VT3763-3AA36-0AA0	20330.-	3VT3763-3AA46-0AA0	26980.-	1
3VT4		1000	3VT4710-3AA30-0AA0	32525.-			1
3VT5	55 kA	1600	3VT5716-3AA30-0AA0	48790.-			1



## Microprocessor based Trip Unit (ETU)

To be ordered along with the MCCB Main switching unit

Trip unit for system protection ETU LP, LI function  
(Fixed Overload & Fixed Short Circuit, 3P / 4P)

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit LP* ₹	Std. pkg. (nos.)
3VT2	160	3VT9216-6AB00	6330.-	1
	200	3VT9220-6AB00	9490.-	1
	250	3VT9225-6AB00	15035.-	1
3VT3	315	3VT9331-6AB00	12660.-	1
	400	3VT9340-6AB00	13450.-	1
	630	3VT9363-6AB00	18195.-	1

Trip unit for Motor & Generator Protection ETU MP, LI function  
(Adj Overload & Adj Short Circuit Settings 3P / 4P)

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit LP* ₹	Std. pkg. (nos.)
3VT2	100	3VT9210-6AP00	7525.-	1
	160	3VT9216-6AP00	7915.-	1
	250	3VT9225-6AP00	16615.-	1
3VT3	400	3VT9340-6AP00	16615.-	1
	630	3VT9363-6AP00	20575.-	1

Trip unit for system protection ETU DP, LI function  
(Adj Overload & Adj Short Circuit, 3P / 4P)<sup>s</sup>

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit LP* ₹	Std. pkg. (nos.)
3VT2	100	3VT9210-6AC00	5585.-	1
	160	3VT9216-6AC00	7840.-	1
	250	3VT9225-6AC00	16575.-	1
3VT3	250	3VT9325-6AC00	14315.-	1
	400	3VT9340-6AC00	14315.-	1
	630	3VT9363-6AC00	18835.-	1
3VT4	800	3VT9480-6AC00	15675.-	1
	1000	3VT9410-6AC00	49370.-	1
3VT5	1250	3VT9512-6AC00	53475.-	1
	1600	3VT9516-6AC00	90495.-	1

Switch Disconnector Unit, 3P / 4P<sup>s</sup>

Frame size	Rated current I <sub>n</sub> (A)	Type	Unit LP* ₹	Std. pkg. (nos.)
3VT2	250	3VT9225-6DT00	3960.-	1
3VT3	630	3VT9363-6DT00	6330.-	1
3VT4	1000	3VT9410-6DT00	22440.-	1
3VT5	1600	3VT9516-6DT00	29925.-	1

### Benefits of interchangeable trip units

- Suitable for various applications
- Easy upgradation at site

Note: The ordering of the microprocessor based MCCB would involve

## Main switching unit + Trip unit



Main switching unit



Trip unit



Complete unit

\$: Please note 3VT4 & 3VT5 trip unit prices are only for 3 pole

Note: Std. Pkg. = 1 unit

\* LP - List Price

## Accessories for 3VT1...5

Accessory			3VT1 Type	Unit MRP* ₹	3VT2 Type	Unit MRP* ₹	3VT3 Type	Unit MRP* ₹	3VT4/5 Type	Unit MRP* ₹
Auxiliary Switch			3VT9100-2AB10 (Changeover Switch)	1150.-	3VT9300-2AF10 (1NO+1NC)	1785.-	3VT9300-2AF10 (1NO+1NC)	1785.-	3VT9500-2AF10 (2NO+2NC)	2960.-
					3VT9300-2AC10 (1NO)	895.-	3VT9300-2AC10 (1NO)	895.-		
Alarm Switch			3VT9100-2AH10 (Changeover Switch)	1150.-	3VT9300-2AD10 (1NC)	895.-	3VT9300-2AD10 (1NC)	895.-		
Shunt Release		AC 230V/ DC 220V	3VT9100-1SE00@	1560.-	3VT9300-1SE00\$	2020.-	3VT9300-1SE00\$	2020.-	3VT9500-1SJ00	2235.-
		AC/DC 110V	3VT9100-1SD00	1560.-	3VT9300-1SD00	2020.-	3VT9300-1SD00	2020.-	3VT9500-1SH00	2235.-
Under-voltage Release		AC 230V/ DC 220V	3VT9100-1UE00^	1920.-	3VT9300-1UE00\$	2450.-	3VT9300-1UE00\$	2450.-	3VT9500-1UJ00	2425.-
Spreader Links		one set = 3 links (3 pole)	3VT9100-4ED30	535.-	3VT9200-4EG30	675.-	3VT9300-4EG30	905.-		
		4 pole spreaders (one set = 4 links + 3 phase barriers)	3VT9100-4ED48	690.-	3VT9200-4ED48	895.-	3VT9300-4ED48	1170.-		
Motorised Drive		AC 230 V/ DC 220 V	3VT9100-3ME00#	6795.-	3VT9200-3MQ00	22240.-	3VT9300-3MQ00	23105.-	3VT9500-3MQ00	43325.-
		Extension cable <sup>3</sup> for motorized operating mechanism, 12 wires, length 60 cm	3VT91003MF00	1275.-	3VT93003MF00	1275.-	3VT93003MF00	1275.-		
Phase Barriers		One set = 2 Pcs.	3VT9100-8CE30	480.-	3VT9300-8CE30	675.-	3VT9300-8CE30	675.-	3VT9500-8CE30	740.-
Panel door mounted rotary operating handles <sup>2</sup>		1 set **	3VT9100-3HQ00	1530.-	3VT9200-3HQ00	1935.-	3VT9300-3HQ00	2085.-	3VT9500-3HQ00	4440.-
Castell Interlock Kit <sup>1</sup>		1 set (1 lock + 1 key)	8UC60700YQ..	3490.-	8UC60701YQ..	3490.-	8UC60701YQ..	3490.-	8UC60702YQ..	3580.-

## Notes:

- The 11th and 12th place of the type reference will indicate the alphabet type of lock & key. Combinations available are A, B, C, D, A-, -B, -C, AB, AC. 11th place will be A, B, C, D for castell lock type A, B, C, D respectively. 11th and 12 place will be AO, OB, OC, AB, AC for castell lock type A-, -B, -C, AB, AC respectively.
- For direct & lateral mounted handles please contact your nearest Sales Office.
- Pre wired motorised drive cable to be ordered separately along with the motorised drive

# Lateral Motorised Drive

@ Also suitable for 400V AC

\$ Also suitable for 400/500V AC

^ Not suitable for 220V DC, suitable for 400V AC

\*\* 1 set contains rotary mechanism, coupler, shaft and door drive

\* MRP - Maximum Retail Price



## SIEPAN 8PU

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Delivering high performance reliability with low foot print and savings in energy costs.

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- What if you can save upto 40% in energy costs?
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## MCCB: Sentron 3VL

- Upto 16A to 1600A
- 3 pole & 4 pole versions
- Thermal magnetic and Microprocessor based trip unit



### 3VL MCCB, Thermal-magnetic trip unit (fixed overload and fixed short circuit), Icu = 55kA, 415V AC, 50 Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL160X VL160X = 3VL1	16	3VL1796-1DA36-0AA0	9350.-	3VL1796-1EH46-0AA0	12205.-	1
	20	3VL1702-1DA36-0AA0	9350.-	3VL1702-1EH46-0AA0	12205.-	1
	32	3VL1703-1DA36-0AA0	9350.-	3VL1703-1EH46-0AA0	12205.-	1
	63	3VL1706-1DA36-0AA0	9350.-	3VL1706-1EH46-0AA0	12205.-	1
	100	3VL1710-1DA36-0AA0	9780.-	3VL1710-1EH46-0AA0	12755.-	1
	125	3VL1712-1DA36-0AA0	13755.-	3VL1712-1EH46-0AA0	16090.-	1
	160	3VL1716-1DA36-0AA0	17125.-	3VL1716-1EH46-0AA0	20370.-	1

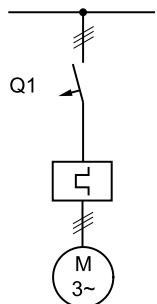
### 3VL MCCB, Thermal-magnetic trip unit (adjustable overload and short circuit), Icu = 55kA, 415V AC, 50 Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL160X / VL160 VL160X = 3VL1 VL160 = 3VL2	20	3VL1702-1DD36-0AA0	13360.-	3VL1702-1EA46-0AA0#	17810.-	1
	32	3VL1703-1DD36-0AA0	13360.-	3VL1703-1EA46-0AA0#	17810.-	1
	63	3VL1706-1DD36-0AA0	13360.-	3VL2706-1EM46-0AA0	17810.-	1
	100	3VL1710-1DD36-0AA0	13970.-	3VL2710-1EM46-0AA0	18625.-	1
	125	3VL1712-1DD36-0AA0	15960.-	3VL2712-1EM46-0AA0	20285.-	1
	160	3VL1716-1DD36-0AA0	20040.-	3VL2716-1EM46-0AA0	26230.-	1
	200	3VL3720-1DC36-0AA0	27990.-	3VL3720-1EM46-0AA0	39055.-	1
VL 250	250	3VL3725-1DC36-0AA0	30365.-	3VL3725-1EM46-0AA0	39055.-	1
	315	3VL4731-1DC36-0AA0	40095.-	3VL4731-1EM46-0AA0	48930.-	1
VL 400	400	3VL4740-1DC36-0AA0	40095.-	3VL4740-1EM46-0AA0	48930.-	1
	500	3VL5750-1DC36-0AA0	45895.-	3VL5750-1EM46-0AA0	54570.-	1
VL 630	630	3VL5763-1DC36-0AA0	45895.-	3VL5763-1EM46-0AA0	54570.-	1

### 3VL MCCB, Thermal-magnetic trip unit (adjustable overload and short circuit), Icu = 70kA, 415V AC, 50 Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL160X / VL160 VL160X = 3VL1 VL160 = 3VL2	20	3VL1702-2DD36-0AA0	21385.-	3VL1702-2EA46-0AA0#	27285.-	1
	32	3VL1703-2DD36-0AA0	21385.-	3VL1703-2EA46-0AA0#	27285.-	1
	63	3VL1706-2DD36-0AA0	21385.-	3VL2706-2EM46-0AA0	27285.-	1
	100	3VL1710-2DD36-0AA0	21385.-	3VL2710-2EM46-0AA0	27285.-	1
	125	3VL1712-2DD36-0AA0	30480.-	3VL2712-2EM46-0AA0	39700.-	1
	160	3VL1716-2DD36-0AA0	31810.-	3VL2716-2EM46-0AA0	40775.-	1
	200	3VL3720-2DC36-0AA0	34480.-	3VL3720-2EM46-0AA0	46910.-	1
VL 250	250	3VL3725-2DC36-0AA0	37525.-	3VL3725-2EM46-0AA0	46910.-	1
	315	3VL4731-2DC36-0AA0	40290.-	3VL4731-2EM46-0AA0	52375.-	1
VL 400	400	3VL4740-2DC36-0AA0	40290.-	3VL4740-2EM46-0AA0	52375.-	1
	500	3VL5750-2DC36-0AA0	50435.-	3VL5750-2EM46-0AA0	66085.-	1
VL 630	630	3VL5763-2DC36-0AA0	50435.-	3VL5763-2EM46-0AA0	66085.-	1

### 3VL MCCB for Motor protection (Magnetic trip unit, 3 Pole)



Frame size	Rated current I <sub>n</sub> (A)	standard breaking capacity (55 kA, 415V, 50 Hz)		high breaking capacity (70 kA, 415V, 50 Hz)		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL160	63 A	3VL2706-1DK36-0AA0	16125.-	3VL2706-2DK36-0AA0	20105.-	1
	100 A	3VL2710-1DK36-0AA0	16125.-	3VL2710-2DK36-0AA0	20105.-	1
	160 A	3VL2716-1DK36-0AA0	24305.-	3VL2716-2DK36-0AA0	31175.-	1
VL250	250 A	3VL3725-1DK36-0AA0	32685.-	3VL3725-2DK36-0AA0	37105.-	1
VL400	315 A	3VL4731-1DK36-0AA0	38340.-	3VL4731-2DK36-0AA0	40010.-	1
VL630	500 A	3VL5750-1DK36-0AA0	44155.-	3VL5750-2DK36-0AA0	46125.-	1

# Fixed overload & fixed short circuit with neutral protection

**Note:** Std. Pkg. = 1 unit

**Note:** While ordering suffix "Z+H32" with MCCB MLFB for Frames VL160X to VL400 for all release types except ETU42 release.

\* LP - List Price

**3VL MCCB, ETU10, LI, Microprocessor based trip unit, Icu = 55kA, 415V AC, 50Hz**

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL 160	63	3VL2706-1SB36-0AA0	24695.-	3VL2706-1TA46-0AA0	32210.-	1
	100	3VL2710-1SB36-0AA0	24695.-	3VL2710-1TA46-0AA0	32210.-	1
	160	3VL2716-1SB36-0AA0	31350.-	3VL2716-1TA46-0AA0	43270.-	1
VL 250	200	3VL3720-1SB36-0AA0	41725.-	3VL3720-1TA46-0AA0	53575.-	1
	250	3VL3725-1SB36-0AA0	41725.-	3VL3725-1TA46-0AA0	53575.-	1
VL 400	315	3VL4731-1SB36-0AA0	45205.-	3VL4731-1TA46-0AA0	59835.-	1
	400	3VL4740-1SB36-0AA0	45205.-	3VL4740-1TA46-0AA0	59835.-	1
VL 630	630	3VL5763-1SB36-0AA0	50805.-	3VL5763-1TA46-0AA0	80430.-	1
VL 800	800	3VL6780-1SB36-0AA0	71525.-	3VL6780-1TA46-0AA0	101840.-	1
VL 1250	1000	3VL7710-1SB36-0AA0	97950.-	3VL7710-1TA46-0AA0	150385.-	1
	1250	3VL7712-1SB36-0AA0	125670.-	3VL7712-1TA46-0AA0	192845.-	1
VL 1600	1600	3VL8716-1SB30-0AA0	166835.-	3VL8716-1TA40-0AA0	226425.-	1

**3VL MCCB, ETU10, LI, Microprocessor based trip unit, Icu = 70kA, 415V AC, 50 Hz**

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL 160	63	3VL2706-2SB36-0AA0	29630.-	3VL2706-2TA46-0AA0	36715.-	1
	100	3VL2710-2SB36-0AA0	29630.-	3VL2710-2TA46-0AA0	36715.-	1
	160	3VL2716-2SB36-0AA0	38860.-	3VL2716-2TA46-0AA0	49600.-	1
VL 250	200	3VL3720-2SB36-0AA0	43155.-	3VL3720-2TA46-0AA0	62845.-	1
	250	3VL3725-2SB36-0AA0	43155.-	3VL3725-2TA46-0AA0	62845.-	1
VL 400	315	3VL4731-2SB36-0AA0	47330.-	3VL4731-2TA46-0AA0	72140.-	1
	400	3VL4740-2SB36-0AA0	47330.-	3VL4740-2TA46-0AA0	72140.-	1
VL 630	630	3VL5763-2SB36-0AA0	56260.-	3VL5763-2TA46-0AA0	89555.-	1
VL 800	800	3VL6780-2SB36-0AA0	84940.-	3VL6780-2TA46-0AA0	111585.-	1
VL 1250	1000	3VL7710-2SB36-0AA0	130015.-	3VL7710-2TA46-0AA0	191755.-	1
	1250	3VL7712-2SB36-0AA0	153835.-	3VL7712-2TA46-0AA0	215590.-	1
VL 1600	1600	3VL8716-2SB30-0AA0	186350.-	3VL8716-2TA40-0AA0	239430.-	1

**3VL MCCB, ETU12, LIG, Microprocessor based trip unit, Icu = 55kA, 415V AC, 50Hz**

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL 160	63	3VL2706-1SL36-0AA0	29820.-	3VL2706-1TN46-0AA0	37830.-	1
	100	3VL2710-1SL36-0AA0	29820.-	3VL2710-1TN46-0AA0	37830.-	1
	160	3VL2716-1SL36-0AA0	36725.-	3VL2716-1TN46-0AA0	49295.-	1
VL 250	200	3VL3720-1SL36-0AA0	50635.-	3VL3720-1TN46-0AA0	63415.-	1
	250	3VL3725-1SL36-0AA0	50635.-	3VL3725-1TN46-0AA0	63415.-	1
VL 400	315	3VL4731-1SL36-0AA0	54635.-	3VL4731-1TN46-0AA0	71260.-	1
	400	3VL4740-1SL36-0AA0	54635.-	3VL4740-1TN46-0AA0	71260.-	1
VL 630	630	3VL5763-1SL36-0AA0	59310.-	3VL5763-1TN46-0AA0	88390.-	1
VL 800	800	3VL6780-1SL36-0AA0	81200.-	3VL6780-1TN46-0AA0	111045.-	1
VL 1250	1000	3VL7710-1SL36-0AA0	107440.-	3VL7710-1TN46-0AA0	159830.-	1
	1250	3VL7712-1SL36-0AA0	134160.-	3VL7712-1TN46-0AA0	200755.-	1
VL 1600	1600	3VL8716-1SL30-0AA0	173830.-	3VL8716-1TN40-0AA0	233120.-	1

**3VL MCCB, ETU12, LIG Microprocessor based trip unit, Icu = 70kA, 415V AC, 50Hz**

Frame size	Rated current (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL 160	63	3VL2706-2SL36-0AA0	34945.-	3VL2706-2TN46-0AA0	42500.-	1
	100	3VL2710-2SL36-0AA0	34945.-	3VL2710-2TN46-0AA0	42500.-	1
	160	3VL2716-2SL36-0AA0	44525.-	3VL2716-2TN46-0AA0	55890.-	1
VL 250	200	3VL3720-2SL36-0AA0	52130.-	3VL3720-2TN46-0AA0	73150.-	1
	250	3VL3725-2SL36-0AA0	52130.-	3VL3725-2TN46-0AA0	73150.-	1
VL 400	315	3VL4731-2SL36-0AA0	58075.-	3VL4731-2TN46-0AA0	83710.-	1
	400	3VL4740-2SL36-0AA0	58075.-	3VL4740-2TN46-0AA0	83710.-	1
VL 630	630	3VL5763-2SL36-0AA0	64570.-	3VL5763-2TN46-0AA0	97195.-	1
VL 800	800	3VL6780-2SL36-0AA0	94140.-	3VL6780-2TN46-0AA0	120435.-	1
VL 1250	1000	3VL7710-2SL36-0AA0	138330.-	3VL7710-2TN46-0AA0	200310.-	1
	1250	3VL7712-2SL36-0AA0	161290.-	3VL7712-2TN46-0AA0	222680.-	1
VL 1600	1600	3VL8716-2SL30-0AA0	192610.-	3VL8716-2TN40-0AA0	245630.-	1

L: Overload protection

I: Short circuit protection

G: Ground fault protection

**Note: Std. Pkg. = 1 unit****Note:** While ordering suffix "Z+I32" with MCCB MLFB for Frames VL160X to VL400 for all release types except ETU42 release.

\* LP - List Price

Siemens switchgear. Tried, tested, trusted.

3VL MCCB, Magnetic trip unit (for short circuit protection), Icu = 55kA, 415V AC, 50Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL400	400	3VL4740-1DE36-0AA0	32700.-	3VL4740-1EE46-0AA0	40010.-	1
VL630	630	3VL5763-1DE36-0AA0	36600.-	3VL5763-1EE46-0AA0	42490.-	1
VL800	800	3VL6780-1DE36-0AA0	58225.-	3VL6780-1EE46-0AA0	69885.-	1
VL1250	1250	3VL7712-1DE36-0AA0	97075.-	3VL7712-1EE46-0AA0	147780.-	1
VL1600	1600	3VL8716-1DE30-0AA0	155325.-	3VL8716-1EE40-0AA0	196510.-	1

3VL MCCB, Magnetic trip unit (for short circuit protection), Icu = 70kA, 415V AC, 50Hz

Frame size	Rated current I <sub>n</sub> (A)	3 pole		4 pole		Std. pkg. (nos.)
		Type	Unit LP* ₹	Type	Unit LP* ₹	
VL400	400	3VL4740-2DE36-0AA0	37065.-	3VL4740-2EE46-0AA0	44825.-	1
VL630	630	3VL5763-2DE36-0AA0	42360.-	3VL5763-2EE46-0AA0	52010.-	1
VL800	800	3VL6780-2DE36-0AA0	70015.-	3VL6780-2EE46-0AA0	93430.-	1
VL1250	1250	3VL7712-2DE36-0AA0	126715.-	3VL7712-2EE46-0AA0	157685.-	1
VL1600	1600	3VL8716-2DE30-0AA0	160620.-	3VL8716-2EE40-0AA0	202395.-	1

Accessories for 3VL

Frame	VL 160 X / VL 160 / VL 250 / VL 400		VL 630 / VL 800 / VL 1250 / VL 1600		Std.
Accessory	Type	Unit MRP* ₹	Type	Unit MRP* ₹	pkg. (nos.)
Auxiliary switch	3VL9400-2AB00 (1NO + 1NC)	1525.-	3VL9800-2AC00 (2NO + 2NC)	2805.-	1
Auxiliary switch + Alarm switch	3VL9400-2AD00 (1NO + 1NC & 1NO)	2350.-	3VL9800-2AE00 (1NO + 1NC & 1NO)	3260.-	1
Under voltage release					
110 V AC	3VL9400-1UG00	3600.-	3VL9800-1UG00	4265.-	1
220 - 250 V AC	3VL9400-1UH00	3600.-	3VL9800-1UH00	4265.-	1
415 V AC	3VL9400-1UJ00	3600.-	3VL9800-1UJ00	4265.-	1
110 V DC	3VL9400-1UR00	3600.-	3VL9800-1UR00	4265.-	1
Shunt release					
24 V DC	3VL9400-1SC00	2710.-	3VL9800-1SC00	3605.-	1
110 - 127 V DC	3VL9400-1SK00	2710.-	3VL9800-1SK00	3605.-	1
110 - 127 V AC	3VL9400-1SR00	2710.-	3VL9800-1SR00	3605.-	1
208 - 277 V AC	3VL9400-1ST00	2710.-	3VL9800-1ST00	3605.-	1
Rotary drive kit (including 8UC handle with door interlock defeat & padlocking facility)	3VL9.00-3HQ00		3VL9600-3HQ00 (VL630-VL800)	3530.-	1
	↓				
	1 (For VL 160X)	2160.-			
	3 (For VL 160/250)	2185.-	3VL9800-3HF05 (VL1250-VL1600)	8025.-	1
	4 (For VL 400)	2920.-			
Castell interlock kit* (To interlock two or more circuit breakers)	8UC6070-1YQ.. (For VL160X/VL160/VL250)	3490.-	8UC6070-2YQ.. (For VL630/VL800)	3580.-	1
	8UC6070-2YQ.. (For VL400)	3580.-			
Motorised drive (Motorised operator-MO) 230-250V AC/DC	3VL9.00-3ME10		Factory fitted assembly with MCCB for VL630/800 with Z option Z-M23 ( MCCB prices additional)	22440.-	1
	↓				
	1 (For VL160X)	15595.-			
	3 (For VL160/250)	16840.-			
	4 (For VL 400)	19335.-	Factory fitted assembly with MCCB for VL1000/1600 with Z option Z-M23 ( MCCB prices additional)	27195.-	1
Motorised drive (Stored Energy Operator -SEO) 220-250V AC/DC	3VL9.00-3MQ00		3VL9.00-3MQ00		
	↓		↓		
	3 (For VL160X/VL160/VL250)	25915.-	6 (For VL630-VL800)	43810.-	1
	4 (For VL 400)	34860.-	8 (For VL1250-VL1600)	51435.-	1
Spreader links (with phase barriers)	3VL9216-4ED30 (VL160X/VL160-3P)	1005.-	3VL9500-4ED30 (VL630-3P)	1605.-	1
	3VL9216-4ED40 (VL160X/VL160-4P)	1225.-	3VL9500-4ED40 <sup>ss</sup> (VL630-4P)	1955.-	1
	3VL9300-4ED30 (VL250-3P)	1335.-	3VL9600-4ED30 (VL800-3P)	1955.-	1
	3VL9300-4ED40 (VL250-4P)	1720.-	3VL9600-4ED40 <sup>ss</sup> (VL800-4P)	2430.-	1
	3VL9400-4ED30 (VL400-3P)	1470.-	NA (for VL1250 / VL1600)		
	3VL9400-4ED40 (VL400-4P)	1845.-			

Note: # The 11th and 12th place of the type reference will indicate the alphabet type of lock & key. Combinations available are A, B, C, D, A-, -B, -C, AB, AC. 11th place will be A, B, C, D for castell lock type A, B, C, D respectively. 11th and 12 place will be A0, 0B, 0C, AB, AC for castell lock type A-, -B, -C, AB, AC respectively

Spreader link 1 set = 3 nos. links and 2 nos. phase barriers in case of 3 pole and 5 nos. links and 3 nos. phase barriers in case of 4 pole, <sup>55</sup> - 4 nos. links and 3 nos. phase barriers in case of 4 pole.

While ordering suffix "Z+I32" with MCCB MLFB for Frames VL160X to VL400 for all release types except ETU42 release

NA - Not Available

Note: Std. Pkg. = 1 unit

\* LP - List Price                      MRP - Maximum Retail Price

# Electrical SCADA: The 'SMART' choice for Metering, Monitoring, Controlling and Energy Management

SENTRON powermanager software

'Electrical SCADA' supports 24x7 monitoring of power distribution system from a centralized location. With its controlling, analysis, recording and reporting functions it enhances the **operational efficiency, improving productivity and profitability.**

Our 'Electrical SCADA' solution (Software, switchgear and meters) is **TÜV certified** and supports seamless introduction, documentation & maintenance of your plant **in accordance with the provisions of ISO 50001** (standard governing energy management system).

## Key Features:

- Single Line Diagram of power distribution network
- Monitoring and Controlling of circuit breakers from remote
- Analysis of energy consumption pattern, load trends, peaks
- Reporting real-time data & automated archiving
- Timely alerts and alarms on SCADA screen, e-mail, SMS

Contact [globalproducts.in@siemens.com](mailto:globalproducts.in@siemens.com) for FREE demo and software (30-day-trial).



## Energy Management System

### (A) Hardware Solutions

#### Complete Range of Power Monitoring Devices for LV and HV Networks



- High IP65 protection from front for usage in extremely wet and dusty environments
- Integrated Digital Inputs (DI) and Digital Outputs (DO)

#### PAC 3100: Cost Effective Solution for digital measurement

- Display of instantaneous, maximum and minimum values
- Measurement of Active & Reactive Power (Import / Export / Net)
- CT polarity reversal correction from the device

#### PAC 3200: Specialist solution for precise energy data capture

- Dual Metering function
- Integrated ethernet interface for MODBUS TCP communication
- Optional communication over PROFIBUS DP and PROFINET

#### PAC 4200: Professional solution for communication and monitoring

- Integrated gateway functionality for MODBUS RTU devices
- Reliable event recording with battery backup
- Sliding window for maximum demand

Description	Type	Unit LP* ₹
PAC 3100 with integrated RS 485 port for MODBUS RTU Class 1 accuracy, screw terminals AC/DC wide voltage power supply 110...240V AC $\pm 10\%$ , 50/60Hz, 110...250V DC $\pm 10\%$	7KM3133-0BA00-3AA0	24560.-
PAC 3200 with integrated ethernet port for MODBUS TCP Class 0.5s accuracy, screw terminals With AC/DC wide voltage power supply 95...240V AC $\pm 10\%$ , 50/60Hz, 110...340V DC $\pm 10\%$	7KM2112-0BA00-3AA0 <sup>#</sup>	38615.-
PAC 4200 with integrated ethernet port for MODBUS TCP Class 0.2s accuracy, screw terminals With AC/DC wide voltage power supply 95...240V AC $\pm 10\%$ , 50/60Hz, 110...340V DC $\pm 10\%$	7KM4212-0BA00-3AA0 <sup>#</sup>	Upon Enquiry

#### Expansion Modules (for PAC3200 and PAC4200)

Description	Type	Unit LP * ₹
PROFIBUS DP expansion module	7KM9300-0AB01-0AA0	10280.-
RS485 expansion module for MODBUS RTU	7KM9300-0AM00-0AA0	8120.-
Switched Ethernet PROFINET expansion module	7KM9300-0AE01-0AA0	Upon Enquiry
Digital Expansion Module 4DI/2DO <sup>§</sup>	7KM9200-0AB00-0AA0	Upon Enquiry

<sup>#</sup> For extra low DC voltage (22 ... 65 V DC  $\pm 10\%$ ) option, please contact your nearest Siemens partner.

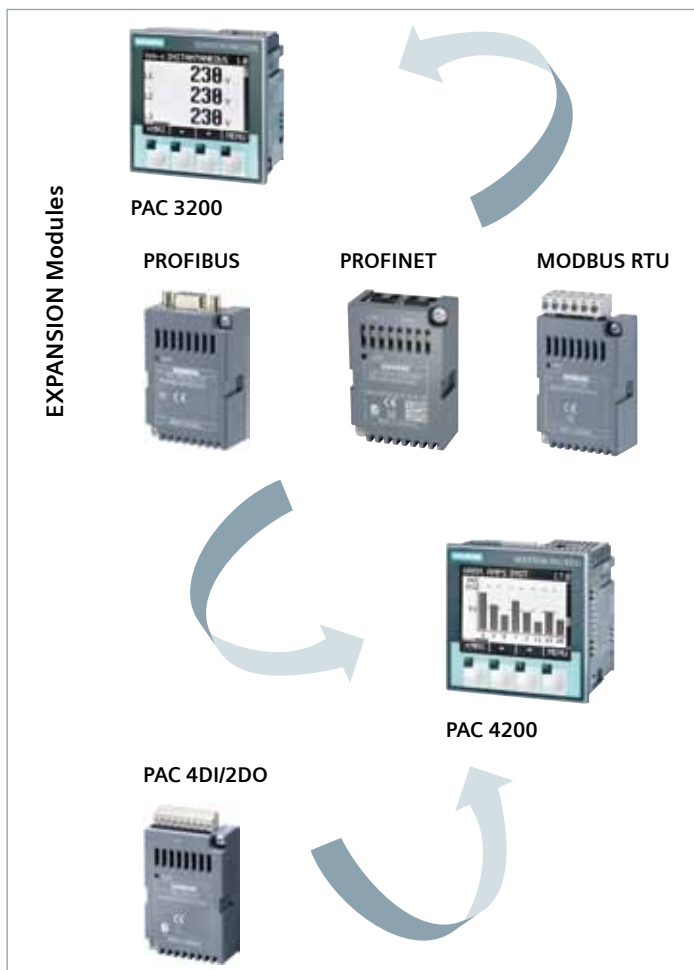
<sup>§</sup> To be used only with PAC 4200. Maximum 2 no.s can be connected if communication expansion module is not connected.  
For exact configuration, please contact the nearest Sales Office.

### (B) Software Solution

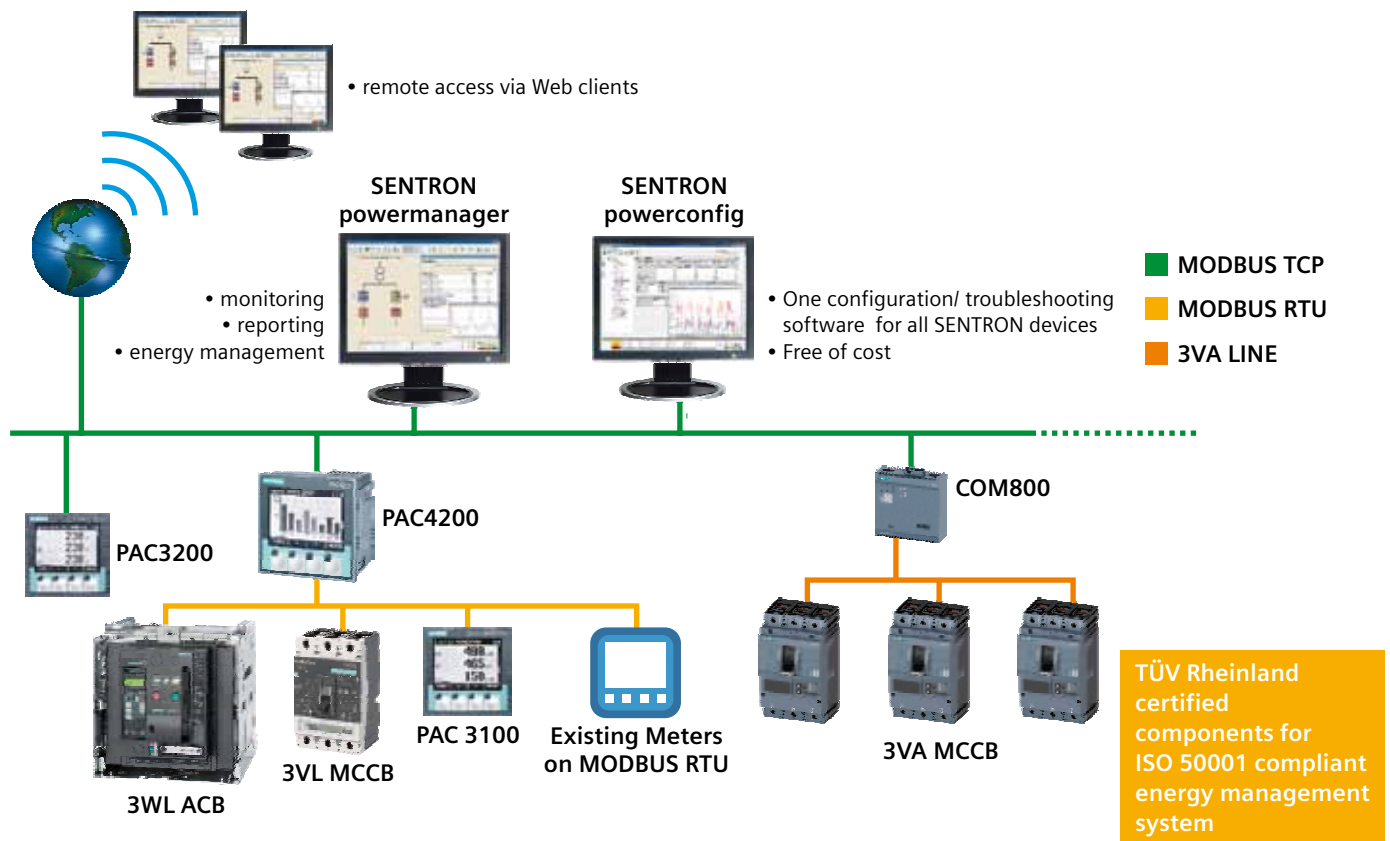
Description	Unit LP* ₹
SENTRON powermanager: Complete Energy Management Software	Upon Enquiry

Note: Std. Pkg. = 1 unit

\* LP - List Price



# Single Platform Energy Management Solution for LV power distribution



**new**



## Professional Solution for Power Quality Measurement

SENTRON 7KM PAC 5100/5200

- Measured value capture in accordance with power quality standard IEC 61000-4-30
- Recording of power quality anomalies like sag, swell and interruption

- Integrated web server to set parameters and display measured values on HTML pages

*For more details, contact your nearest Siemens partner.*

## 3NP1 Fuse Switch Disconnecter up to 630A

- 160-630A in 3- pole versions
- Rated voltage of 690V AC/440V DC
- Suitable for floor & busbar mounting
- With mechanical & electronic fuse monitoring



### Application:

Machine Protection

Frequency Converter Protection

Compensation Systems (Capacitor Panels)

Distribution Boards and Switchboards

### Benefits:

- Cost and space savings thanks to the compact design
- Selection charts with semiconductor fuses in accordance with IEC 60269-2
- Direct connection of stripped conductors supports considerably faster mounting / installation
- Ease of mounting with direct bus bar mounting option
- Leading auxiliary switches with respect to main contacts available

### Floor mounting

Rated current (A)	Suitable for DIN fuse size	Connection	Type	Unit LP* ₹
100 <sup>1</sup>	000	Box terminal	3NP1123-1CA20	4445.-
160	00 / 000	Flat connector	3NP1133-1CA10	4630.-
160	00 / 000	Box terminal	3NP1133-1CA20	5550.-
250	1 and 0	Flat connector	3NP1143-1DA10	13490.-
250	1 and 0	Box terminal	3NP1143-1DA20	15875.-
400	2 and 1	Flat connector	3NP1153-1DA10	18530.-
630	3 and 2	Flat connector	3NP1163-1DA10	24905.-

### Auxillary Contact (1 C/O type)

Size	MLFB	Unit LP* ₹
000	3NP1920-1FA00	905.-
00	3NP1930-1FA00	905.-
1	3NP1940-1FA00	985.-
2	3NP1940-1FA00	985.-
3	3NP1940-1FA00	985.-

1) Can be used for upto 160A in combination with feeder terminal 3NP1923-1BD00 (to be ordered seperately)

All MLFBs with standard package 1 unit

\* LP - List Price

### 40 mm busbar system

Rated current (A)	Suitable for DIN fuse size	Connection	Type	Unit LP* ₹
100 <sup>1</sup>	000	Box terminal	3NP1123-1BB20	6220.-
160	00 / 000	Flat connector	3NP1133-1BB10	7045.-
160	00 / 000	Box terminal	3NP1133-1BB20	7500.-



### 3NP1 with in built mechanical fuse monitoring

Rated current (A)	Suitable for DIN fuse size	Connection	Type	Unit LP* ₹
160	000/00	Flat Terminals	3NP1133-1CA11	15885.-
250	1 and 0	Flat Terminals	3NP1143-1DA11	24165.-
400	2 and 1	Flat Terminals	3NP1153-1DA11	28905.-
630	3 and 2	Flat Terminals	3NP1163-1DA11	35015.-



For variants suitable for 60mm busbar system, inbuilt electronic fuse monitoring, please contact our nearest Siemens office

## Superswitch 3KL/3KT/3KA

- Wide range: upto 800A in SDF/1600A in SD
- Suitable for isolation as per IEC60947
- Suitable for power distribution as well as motor feeders
- Available in DP, TP, TPN & TPSN<sup>2</sup> version
- Handles with IP65 Ingress protection



### Switch Disconnecter fuse, 3KL8, 2 Pole (in Open Execution DP)



Rated Current I <sub>e</sub> @ 440V 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
100A	3KL8211-2TA00	5380.-	1
125A	3KL8221-2TA00	6840.-	1
160A	3KL8231-2TA00	7105.-	1
200A	3KL8311-2UA00	8955.-	1
250A	3KL8321-2UA00	10745.-	1
315A	3KL8331-2UA00	13685.-	1
400A	3KL8341-2UA00	16320.-	1
500A	3KL8411-2UA00	22465.-	1
630A	3KL8421-2UA00	26350.-	1
800A	3KL8431-2UA00	30410.-	1

For 2 pole version of 3KT8 please contact our nearest Siemens Sales office

### Switch Disconnecter fuse, 3KL8<sup>1)</sup>, 3 Pole, for Motor Feeder Protection (in Open Execution TP)

Rated current I <sub>e</sub> @ 690V AC, 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
20A	3KL8111-1TA00	2025.-	1
32A	3KL8121-1TA00	2055.-	1
63A	3KL8151-1TA00	2930.-	1
100A	3KL8211-1TA00	5740.-	1
125A	3KL8221-1TA00	7115.-	1
160A	3KL8231-1TA00	8025.-	1
200A	3KL8311-1UA00	10985.-	1
250A	3KL8321-1UA00	13040.-	1
315A	3KL8331-1UA00	16110.-	1
400A <sup>5</sup>	3KL8341-1UA00	19410.-	1
500A	3KL8411-1UA00	29815.-	1
630A	3KL8421-1UA00	31190.-	1
800A <sup>5</sup>	3KL8431-1UA00	33795.-	1

3KL8 TP SDFs: Unit MRP\*s are inclusive of front drive (Handle) kit and phase barriers

### Switch Disconnecter fuse: 3KL8<sup>1)</sup> for power distribution and motor protection (in Open Execution TPN)

Rated current I <sub>e</sub> @ 690V AC 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	SDF suitable for BS type HRC Fuses	Unit MRP* ₹	SDF suitable for cylindrical type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
20A	3KL8111-3TA00	2220.-	3KL8111-3TJ00	2155.-	3KL8111-3TC00	2190.-	1
32A	3KL8121-3TA00	2280.-	3KL8121-3TJ00	2230.-	3KL8121-3TC00	2255.-	1
63A	3KL8151-3TA00	3225.-	3KL8151-3TJ00	3110.-	3KL8151-3TC00	3140.-	1
100A	3KL8211-3TA00	6425.-	3KL8211-3TJ00	6305.-	—	—	1
125A	3KL8221-3TA00	8410.-	3KL8221-3TJ00	8295.-	—	—	1
160A	3KL8231-3TA00	9165.-	3KL8231-3TJ00	9050.-	—	—	1
200A	3KL8311-3UA00	11720.-	3KL8311-3UJ00	11830.-	—	—	1
250A	3KL8321-3UA00	13910.-	3KL8321-3UJ00	14025.-	—	—	1
315A	3KL8331-3UA00	17190.-	3KL8331-3UJ00	17305.-	—	—	1
400A <sup>5</sup>	3KL8341-3UA00	20715.-	3KL8341-3UJ00	20825.-	—	—	1
500A	3KL8411-3UA00	32105.-	3KL8411-3UJ00	32225.-	—	—	1
630A	3KL8421-3UA00	33290.-	3KL8421-3UJ00	33395.-	—	—	1
800A <sup>5</sup>	3KL8431-3UA00	36070.-	3KL8431-3UJ00	36185.-	—	—	1



### Switch Disconnecter fuse, 3KL8<sup>1)</sup>, TPSN (in Open Execution TPSN<sup>2)</sup>)

Rated current I <sub>e</sub> @ 690V AC, 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
200A	3KL8311-4UA00	12300.-	1
250A	3KL8321-4UA00	14330.-	1
315A	3KL8331-4UA00	17705.-	1
400A <sup>5</sup>	3KL8341-4UA00	21335.-	1
500A	3KL8411-4UA00	33075.-	1
630A	3KL8421-4UA00	34280.-	1
800A <sup>5</sup>	3KL8431-4UA00	37150.-	1

3KL8 TPN/TPSN SDFs: Unit MRP\*s are inclusive of front drive (Handle) kit, fuse cover, terminal cover / isolable neutral cover, and phase barriers.

\* TPSN is 3pole with switched neutral

<sup>5</sup> Rating AC23A @ 550V, this can be utilised to AC23B @ 690V.

<sup>1)</sup> 3KL 8 is rated for 690V, 50Hz, AC23A Utilisation Category.

<sup>2)</sup> For ratings upto 160A, add on switched neutral kit to be used.

Notes: All SDF Unit MRPs are without fuses

All Superswitch's are supplied with Front drive (Handle) as standard

Std. Pkg. = 1 unit

\* MRP - Maximum Retail Price

## Superswitch 3KL/3KT/3KA

- With roller contact mechanism
- With POSITIVE OFF indication
- Suitable for both AC and DC voltage networks



### Switch disconnecter fuse in SS Enclosure: 3KL8<sup>1)</sup> (TPN)

Rated current I <sub>e</sub> @ 690V AC, 50Hz	SDF Suitable for DIN Type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
20A	3KL8111-3TA10	4640.-	1
32A	3KL8121-3TA10	4770.-	1
63A	3KL8151-3TA10	5665.-	1
100A	3KL8211-3TA10	9320.-	1
125A	3KL8221-3TA10	11060.-	1
160A	3KL8231-3TA10	11860.-	1
200A	3KL8311-3UA10	15645.-	1
250A	3KL8321-3UA10	17910.-	1
315A	3KL8331-3UA10	21300.-	1
400A <sup>3)</sup>	3KL8341-3UA10	24770.-	1
500A	3KL8411-3UA10	37485.-	1
630A	3KL8421-3UA10	39810.-	1
800A <sup>3)</sup>	3KL8431-3UA10	42740.-	1

SS stands for Sheet Steel.

SDF's in enclosure are without fuse cover & enclosure mounting hardware

1) Gland plates are not in the scope of supply

2) For Eco version (Icw = 50kA) please contact nearest Siemens sales office

### Switch disconnecter: 3KA8<sup>^</sup> (in Open Execution TPN)

Rated current I <sub>e</sub> @ 690V AC, 50Hz	Switch Disconnecter	Unit MRP* ₹	Std. pkg. (nos.)
63A	3KA8151-3TE00	3380.-	1
100A	3KA8211-3TE00	5785.-	1
125A	3KA8221-3TE00	7225.-	1
160A	3KA8231-3TE00	7275.-	1
200A	3KA8311-3UE00	9810.-	1
250A	3KA8321-3UE00	12520.-	1
400A	3KA8341-3UE00	18440.-	1
630A	3KA8351-3UE00	26965.-	1
800A <sup>2)</sup>	3KA8431-3UE00	31980.-	1
1000A <sup>2)</sup>	3KA8441-3UE00	39970.-	1
1200A <sup>2)</sup> @	3KA8451-3UE00	50960.-	1
1600A <sup>2)</sup> @	3KA8461-3UE00	68040.-	1



### Switch disconnecter fuse: 3KT8<sup>5</sup> for power distribution (in Open Execution TPN)

Rated current I <sub>e</sub> @ 440V AC 50Hz	SDF suitable for DIN type HRC Fuses	Unit MRP* ₹	SDF suitable for BS type HRC Fuses	Unit MRP* ₹	SDF suitable for cylindrical type HRC Fuses	Unit MRP* ₹	Std. pkg. (nos.)
32A	3KT8121-3TA00	2250.-	3KT8121-3TJ00	2195.-	3KT8121-3TC00	2235.-	1
50A	3KT8141-3TA00	2875.-	3KT8141-3TJ00	2760.-	3KT8141-3TC00	2645.-	1
80A	3KT8161-3TA00	5050.-	3KT8161-3TJ00	4935.-	–	–	1
100A	3KT8211-3TA00	6370.-	3KT8211-3TJ00	6260.-	–	–	1
125A	3KT8221-3TA00	8345.-	3KT8221-3TJ00	8230.-	–	–	1
160A	3KT8231-3TA00	9110.-	3KT8231-3TJ00	8995.-	–	–	1
200A	3KT8311-3UA00	11645.-	3KT8311-3UJ00	11755.-	–	–	1
250A	3KT8321-3UA00	13820.-	3KT8321-3UJ00	13930.-	–	–	1
315A	3KT8331-3UA00	17080.-	3KT8331-3UJ00	17195.-	–	–	1
400A	3KT8341-3UA00	20590.-	3KT8341-3UJ00	20705.-	–	–	1
500A	3KT8411-3UA00	31765.-	3KT8411-3UJ00	31880.-	–	–	1
630A	3KT8421-3UA00	33100.-	3KT8421-3UJ00	33215.-	–	–	1
800A	3KT8431-3UA00	35875.-	3KT8431-3UJ00	35990.-	–	–	1

## SS Enclosure for 3KT/3KL/3KA



Current rating	Type <sup>1)</sup>	Unit MRP* ₹	Std. pkg. (nos.)
20A- 80A	3KX8155-4AC	2170.-	1
100A-160A	3KX8235-4AC	2540.-	1
200A-400A	3KX8345-4AC	3380.-	1
500A-800A	3KX8435-4AC	5190.-	1

Please note: SDF/SD to be ordered separately.

SS stands for Sheet Steel

1) Gland plates are not in the scope of supply

Note:

SDFs 3KT8 : Unit MRPs\* inclusive of front drive ( handle) kit and phase barriers

\$ 3KT8 is rated for 440V, 50Hz, AC22A Utilisation Category. Equivalent AC23A ratings also available.

^ 3KA8 is rated for 690V, 50Hz, AC23A Utilisation Category.

@ rating AC21 at 500V, 50Hz

Notes: All SDF Unit MRPs are without fuses

All Superswitch's are supplied with Front drive (Handle) as standard

Std. Pkg. = 1 unit

\* MRP - Maximum Retail Price

## Accessories for Superswitch 3KT8/3KL8/3KA8

Description	3KT812/14/16 3KL811/12/15 3KA815	Unit MRP* ₹	3KT821/22/23 3KL821/22/23 3KA821/22/23	Unit MRP* ₹	3KT831/32/33/34 3KL831/32/33/34 3KA831/32/34/35	Unit MRP* ₹	3KT841/42/43 3KL841/42/43 3KA843/44/45/46	Unit MRP* ₹	Std. pkg. (nos.)
Fuse Cover	3KX8150-0AC	265.-	3KX8230-0AC	385.-	3KX8340-0AC	560.-	3KX8430-0AC	795.-	1
Terminal Cover (1 set)	–	–	3KX8231-0AC	325.-	3KX8341-0AC	625.-	3KX8431-0AC	725.-	1
Isolable Neutral cover	–	–	3KX8232-0AC	160.-	3KX8342-0AC	260.-	3KX8432-0AC	325.-	1
Phase Barrier <sup>§</sup>	3KX8153-0AC	115.-	3KX8233-0AC	115.-	3KX8343-0AC	155.-	3KX8433-0AC	210.-	1
Auxiliary Switch (1NO+1NC)	3SB5400-0A	155.-	3KX3522-1YC	495.-	3KX3552-1YC	595.-	3KX3582-1YC	725.-	1
Auxiliary Switch (2NO+2NC)	–	–	3KX3522-1YD	890.-	3KX3552-1YD	1290.-	3KX3582-1YD	1400.-	1
Auxiliary switch cover	3KX8154-0AC	50.-	3KX8234-0AC	50.-	–	–	–	–	1
Front Drive (Handle)	8UC616	660.-	8UC626	750.-	8UC6314-1BB00	1140.-	8UC6414-1BB00	1665.-	1
Add on Switched 4th Pole	3KX8155-5AC	1230.-	3KX3528-1YN	1280.-	3KX3558-1YN	1700.-	3KX3588-1YN (3KL841/2/3) (3KA843/4)	1910.-	1
							3KX8465-6AC (3KA845/6)	1910.-	1
Add on neutral link	3KX8125-7AC (3KL811/3KL812) (3KT812)	155.-	3KX8225-7AC (3KL821/822) (3KA821/822) (3KT821/3KT822)	160.-	3KX8345-7AC (3KL831/2/3/4) (3KA831/2/3/4) (3KT831/2/3/4)	440.-	3KX8435-7AC (3KL841/2/3) (3KT841/2/3) (3KA843/4/5/6)	685.-	1
	3KX8155-7AC (3KL815/3KA815) (3KT814/816)	155.-	3KX8235-7AC (3KL823) (3KA823) (3KT823)	205.-					1
Add-on Isolable neutral	3KX8125-6AC (3KL811/ 3KL812) (3KT812)	240.-	3KX8225-6AC (3KL821/822) (3KA821/822) (3KT821/3KT822)	345.-	3KX8315-6AC (3KL831) (3KA831) (3KT831)	630.-	3KX8425-6AC (3KL841/42) (3KT841/42) 3KA835	990.-	1
					3KX8335-6AC (3KL832/3) (3KA832) (3KT832/3)	630.-	3KX8435-6AC (3KL843) (3KT843) (3KA843/4/5/6)	1230.-	1
	3KX8155-6AC (3KL815/3KA815) (3KT814/816)	240.-	3KX8235-6AC (3KL823) (3KA823) (3KT823)	380.-	3KX8345-6AC (3KL834)(3KA834) (3KT834)	810.-			1
Castell interlock <sup>1</sup>	8UC6070-0YQ..	3490.-	8UC6070-1YQ..	3490.-	8UC6070-2YQ..	3580.-	8UC6070-2YQ..	3580.-	1
Key interlock	–	–	–	–	3KX3588-1YP(.) <sup>*</sup>	1620.-	3KX3588-1YP(.) <sup>*</sup>	1620.-	1
Depth setting template	–	–	–	–	8UC6046	125.-	8UC6046	125.-	1
DIN Rail mounting kit	3KX8155-3AC	1325.-	–	–	–	–	–	–	1
Fuse Monitor	3VU1340-1MS00	3535.-	3VU1340-1MS00	3535.-	3VU1340-1MS00	3535.-	3VU1340-1MS00	3535.-	1
Adapter Plate to replace old 3KL with 3KL8	3KX8155-1AC	360.-	–	–	–	–	–	–	1
Fuse safety Barrier	3KX81501AC	80.-	3KX82301AC	115.-	–	–	–	–	1

# Type of keys are Type A - F depending on the last digit (.) to be replaced by letters A - F.

1 The 11th and 12th place of the type reference will indicate the alphabet type of lock & key. Combinations available are A, B, C, D, A-, -B, -C, AB, AC. 11th place will be A, B, C, D for castell lock type A, B, C, D respectively. 11th and 12 place will be A0, 0B, 0C, AB, AC for castell lock type A-, -B, -C, AB, AC respectively.

\$ For phase barriers of BS type switches contact nearest Siemens sales office

**Note: Std. Pkg. = 1 unit**

## Fuse selection guide For SuperSwitch

Rated current in (A)	SDF type	DIN fuse size	DIN fuse type	BS fuse size	BS fuse type	NFC fuse size
20A	3KL8111	00/000	3NA78	A2	TSA/TIA	14X51
32A	3KL/ 3KT8121	00/000	3NA78	A2	TSA/TIA	14X51
50A	3KT8141	00/000	3NA78	A3	TIS/TSS	14X51
63A	3KL8151	00/000	3NA78	A3	TIS/TSS	14X51
80A	3KT8161	00/000	3NA78	A3	TSDS/TIS/TSS	–
100A	3KL/ 3KT8211	00/000	3NA78	A4	TCP	–
125A	3KL/ 3KT8221	00/000	3NA78	A4	TCP/TSFP	–
160A	3KL/ 3KT8231	00/000	3NA78	A4	TCP/TSFP	–
200A	3KL/ 3KT8311	1 - 2	3NA71, 72	B2	TSF/TF	–
250A	3KL/ 3KT8321	1 - 2	3NA71, 72	B2/B3/B4	TSF/TF/TKF/TSK	–
315A	3KL/ 3KT8331	1 - 2	3NA72	B2/B3/B4	TSF/TF/TKF/TSK	–
400A	3KL/ 3KT8341	1 - 2	3NA72	B2/B3/B4	TSF/TF/TKF/TSK/TMF	–
500A	3KL/ 3KT8411	3	3NA33	C1/C2	TTM	–
630A	3KL/ 3KT8421	3	3NA33	C1/C2	TTM	–
800A	3KL/ 3KT8431	3	3NA33	C1/C2	TSLS	–

\* MRP - Maximum Retail Price

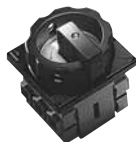
## Main control and EMERGENCY STOP switches 3LD<sup>1)</sup>

- Rated current range: 16A-250A
- Conforms to IEC 60947-3 / UL508
- Can be used for motor & power distribution application



### Main and EMERGENCY-STOP switches with rotary operating mechanism

Front mounting - Four hole mounting  
Lockable in OFF position with upto 3 padlocks,  
Degree of Protection IP65



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit LP* ₹
3	16	7.5	3LD2003-0TK5□	1875.-
	25	9.5	3LD2103-0TK5□	2075.-
	32	11.5	3LD2203-0TK5□	2315.-
	63	22	3LD2504-0TK5□	3960.-
	100	37	3LD2704-0TK5□	6005.-
	125	45	3LD2804-0TK5□	7650.-
	160	75	3LD2305-0TK1□	Upon enquiry
	250	132	3LD2405-0TK1□	Upon enquiry

□ - 1: Black OR  
□ - 3: Red/yellow

### Main control and EMERGENCY-STOP switches with selector switch operating mechanism

Front mounting - Four hole mounting  
Lockable in OFF position with upto 2 padlocks,  
Degree of Protection IP65,  
Including terminal cover for incoming side



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit LP* ₹
3	16	7.5	3LD2022-0TK1□	1675.-
	25	9.5	3LD2122-0TK1□	1840.-
	32	11.5	3LD2222-0TK1□	2225.-

□ - 1: Black OR  
□ - 3: Red/yellow

### Changeover switches with selector switch operating mechanism

Front mounting - Four hole mounting  
Selector switch cannot be locked  
Degree of Protection IP65  
Black Actuator



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit LP* ₹
3	25	9.5	3LD2123-7UK01	4105.-
	32	11.5	3LD2223-7UK01	4490.-
	63	22	3LD2524-7UK01	7430.-
	100	37	3LD2724-7UK01	13815.-
	160	75	3LD2305-7UK01	Upon enquiry
	250	132	3LD2405-7UK01	Upon enquiry

### Main control and EMERGENCY-STOP switches

In Moulded plastic enclosures  
Lockable in OFF position with upto 3 padlocks,  
Degree of Protection IP65,  
with centre hole mounting  
with N and/or PE ground terminals



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit LP* ₹
3	16	7.5	3LD2064-0TB5□	2670.-
	25	9.5	3LD2164-0TB5□	2900.-
	32	11.5	3LD2264-0TB5□	3445.-
	63	22	3LD2565-0TB5□	5700.-
	100	37	3LD2766-0TB5□	12955.-
	125	45	3LD2866-0TB5□	23450.-

□ - 1: Black OR  
□ - 3: Red/yellow

### Main and EMERGENCY-STOP switches with door coupling rotary operating mechanism

Panel mounting with 300mm switch shaft -  
Four hole mounting  
Lockable in OFF position with upto 3 padlocks,  
Degree of Protection IP65  
Including terminal cover for incoming side



No of Poles	Rated current (A) Ie AC21A	Motor KW AC 23A, 380....440V, 50/60Hz	Type	Unit LP* ₹
3	16	7.5	3LD2013-0TK5□	2995.-
	25	9.5	3LD2113-0TK5□	3330.-
	32	11.5	3LD2213-0TK5□	3675.-
	63	22	3LD2514-0TK5□	4405.-
	100	37	3LD2714-0TK5□	7240.-
	125	45	3LD2814-0TK5□	9045.-
	160	75	3LD2318-0TK1□	Upon enquiry
	250	132	3LD2418-0TK1□	Upon enquiry

□ - 1: Black OR  
□ - 3: Red/yellow

Note: 3LD23/24 knob operated mechanism

\* LP - List Price

<sup>1)</sup> All MLFBs with standard package 1 unit

## Accessories for 3LD

Mounting	Description	For Switch	Type	Unit LP* ₹	Std. pkg. (nos.)
For front mounting	Add on switched 4th pole (N Conductor Leading switch ON, delayed switch OFF)	3LD21 and 3LD22	3LD9220-0B	835.-	1
		3LD25	3LD9250-0BA	1225.-	1
		3LD27 and 3LD28	3LD9280-0B	1525.-	1
	N or PE terminal Continuous	3LD20	3LD9200-2B	555.-	1
		3LD21 and 3LD22	3LD9220-2B	635.-	1
		3LD25	3LD9250-2BA	840.-	1
		3LD27 and 3LD28	3LD9280-2B	1025.-	1
	Auxiliary switches For mounting on left and/or right 1NO+1NC	3LD20, 3LD21, 3LD22, 3LD25, 3LD27 and 3LD28	3LD9200-5B	930.-	1
For floor mounting or 3LD moulded plastic enclosures	Add on switched 4th pole (N Conductor Leading switch ON, delayed switch OFF)	3LD21 and 3LD22	3LD9220-0C	835.-	1
		3LD25	3LD9250-0CA	1225.-	1
		3LD27 and 3LD28	3LD9280-0C	1525.-	1
	N or PE terminal Continuous	3LD20	3LD9200-2C	755.-	1
		3LD21 and 3LD22	3LD9220-2C	635.-	1
		3LD25	3LD9250-2CA	840.-	1
		3LD27 and 3LD28	3LD9280-2C	1025.-	1
	Auxiliary switches For mounting on left and/or right 1NO+1NC	3LD20, 3LD21, 3LD22, 3LD25, 3LD27 and 3LD28	3LD9200-5C	875.-	1
Terminal cover for touch protection can be snapped on at top & bottom for front and floor mounting	4 pole	3LD20	3LD9201-1A	285.-	4
	3 pole	3LD21 and 3LD22	3LD9221-0A	260.-	4
	3 pole	3LD25	3LD9251-0A	290.-	4
	1 pole	3LD27 and 3LD28	3LD9281-2A	140.-	4

Also available: 3LD for Solar Photo voltaic applications. Please contact your nearest Siemens partner for more details.

## Motor control switches 3LA0

Description		Motor output 415V, 50Hz, 3Ph kW	Type	Unit LP* ₹	Std. pkg. (nos.)
Open execution	On/Off	7.5	■ 3LA0201-1YA	1485.-	10
		30	■ 3LA0601-1YB	3455.-	5
	System selector	5.5	■ 3LA0202-1YA	1700.-	10
		30	■ 3LA0602-1YB	4835.-	5
	Reversing	5.5	■ 3LA0203-1YA	1700.-	10
		30	■ 3LA0603-1YB	4835.-	5
	Star-delta	12	■ 3LA0204-5YA	2390.-	10
		30	■ 3LA0604-1YB	6580.-	5
	2 speed pole changing i) Separate windings ii) Dahlander Reversing pole changing	5.5	■ 3LA0205-2YA	1700.-	10
		5.5	■ 3LA0205-1YA	2290.-	10
		5.5	■ 3LA0205-3YA	3285.-	10
In sheet steel housing	On/Off	7.5	■ 3LA0221-1YA	2015.-	1
		30	■ 3LA0621-1YB	5200.-	1
	System selector	5.5	■ 3LA0222-1YA	2335.-	1
	Reversing	5.5	■ 3LA0223-1YA	2760.-	1



## Spares & accessories for motor control switches

Description	Type	Unit LP* ₹	Std. pkg. (nos.)
Ball handle – Black	■ 3LX0 211-1YA	90.-	10
Machine handle – Black	■ 3LX0 611-2YA	240.-	10
Indicating dial for size 2	■ 3LX0 220-1YA	70.-	10
Indicating dial for size 6	■ 3LX0 620-1YA	70.-	10
Catching lever for the drive mechanism of size 2 switch (2 nos. reqd. per switch)	■ 3LY0 220-2YA	70.-	10
Tension spring for the drive mechanism of size 2 switch	■ 3LY0 210-1YA	55.-	10

\*\* All parts supplied loose in polythene bags.

## Heavy duty switches 3LA0

No. of poles	Rated current of switch A AC 23A	Open execution		
		Type	Unit LP* ₹	Std. pkg. (nos.)
2	25*	■ 3LA0205-4YA	1020.-	10
	63	■ 3LA0605-1YB	2445.-	5
4	25*	■ 3LA0205-5YA	1700.-	10
	63	■ 3LA0605-2YB	4465.-	5

# AC22A=25A, AC23A = 16A

## Control switches 3ST

Switch	Description	Type	Unit LP* ₹	Std. pkg. (nos.)
2-Pole On-Off <sup>1), 2)</sup> 3-Pole On-Off <sup>1), 2)</sup>	415V, 50Hz/8.5A	■ 3ST1 400-0AF08	500.-	10
		■ 3ST1 400-1AH08	615.-	10
Ammeter selector	0–L1–L2–L3	■ 3ST1 400-2RQ08	915.-	10
Voltmeter selector	0–L1L2–L2L3–L3L1	■ 3ST1 400-1RK08	640.-	10

1) 12th place code '8' represents black knob. Replace it by '9' for red knob.

2) 9th place code 'A' represents rotation < 360°. For 360° rotation, replace it by 'B'

■ Stock items

\* LP - List Price

# SIEMENS



With  
**SLR**

## All round protection guaranteed

### Betagard 5SL MCB – Inspiring Safety

Betagard 5SL MCB is the only patented MCB with a unique **SLR** (Slide Latch-Release) feature for tool free removal of MCB from DIN rail. It allows removal of individual MCB from a bus bar mounted assembly without disturbing adjacent devices.

Betagard 5SL MCBs are attractive, functional and the ergonomically designed lever allows user-friendly switching. On-Off Status is easily recognizable, thanks to the color coded switching position indicator on the lever. Betagard





5SL range is available in rated current from 0.5A to 63A in B and C Characteristics.

#### Applications:

1. Telecom application (AC MCB with 60V DC/ pole rating)
2. Residential & Commercial
3. Street lights etc.

# Betagard Miniature Circuit Breakers Type 5SL6 and 5SL4

- Standards: IS/IEC 60898-1:2002
- Voltage: Un 240/415V, 50...60Hz can be used in systems upto 60V DC for 1P and 110V DC for 2P
- With ISI marking: CM/L No. 2255548

	$I_n$ A	MW#	7500A		10000A	Std. Pkg. (Nos.)
			Characteristic B	Characteristic C		
1P, 240/415 V AC	0.5	1	--	5SL61057RC	5SL41057RC	1/12
	1		--	5SL61017RC	--	1/12
	2		--	5SL61027RC	5SL41027RC	1/12
	3		--	5SL61037RC	5SL41037RC	1/12
	4		--	5SL61047RC	5SL41047RC	1/12
	6		5SL61066RC	5SL61067RC	5SL41067RC	1/12
	8		--	5SL61087RC	5SL41087RC	1/12
	10		5SL61106RC	5SL61107RC	5SL41107RC	1/12
	13		--	5SL61137RC	5SL41137RC	1/12
	16		5SL61166RC	5SL61167RC	5SL41167RC	1/12
	20		5SL61206RC	5SL61207RC	5SL41207RC	1/12
	25		5SL61256RC	5SL61257RC	5SL41257RC	1/12
	32		5SL61326RC	5SL61327RC	5SL41327RC	1/12
	40		5SL61406RC	5SL61407RC	5SL41407RC	1/12
	50		5SL61506RC	5SL61507RC	5SL41507RC	1/12
	63		5SL61636RC	5SL61637RC	5SL41637RC	1/12
2P, 415 V AC	0.5	2	--	5SL62057RC	5SL42057RC	1/6
	1		--	5SL62017RC	--	1/6
	2		--	5SL62027RC	5SL42027RC	1/6
	3		--	5SL62037RC	5SL42037RC	1/6
	4		--	5SL62047RC	5SL42047RC	1/6
	6		5SL62066RC	5SL62067RC	5SL42067RC	1/6
	8		--	5SL62087RC	5SL42087RC	1/6
	10		5SL62106RC	5SL62107RC	5SL42107RC	1/6
	13		--	5SL62137RC	5SL42137RC	1/6
	16		5SL62166RC	5SL62167RC	5SL42167RC	1/6
	20		5SL62206RC	5SL62207RC	5SL42207RC	1/6
	25		5SL62256RC	5SL62257RC	5SL42257RC	1/6
	32		5SL62326RC	5SL62327RC	5SL42327RC	1/6
	40		5SL62406RC	5SL62407RC	5SL42407RC	1/6
	50		5SL62506RC	5SL62507RC	5SL42507RC	1/6
	63		5SL62636RC	5SL62637RC	5SL42637RC	1/6
3P, 415 V AC	0.5	3	--	5SL63057RC	5SL43057RC	1/4
	1		--	5SL63017RC	--	1/4
	2		--	5SL63027RC	5SL43027RC	1/4
	3		--	--	5SL43037RC	1/4
	4		--	5SL63047RC	5SL43047RC	1/4
	6		5SL63066RC	5SL63067RC	5SL43067RC	1/4
	8		--	--	5SL43087RC	1/4
	10		5SL63106RC	5SL63107RC	5SL43107RC	1/4
	13		--	--	5SL43137RC	1/4
	16		5SL63166RC	5SL63167RC	5SL43167RC	1/4
	20		5SL63206RC	5SL63207RC	5SL43207RC	1/4
	25		5SL63256RC	5SL63257RC	5SL43257RC	1/4
	32		5SL63326RC	5SL63327RC	5SL43327RC	1/4
	40		5SL63406RC	5SL63407RC	5SL43407RC	1/4
	50		5SL63506RC	5SL63507RC	5SL43507RC	1/4
	63		5SL63636RC	5SL63637RC	5SL43637RC	1/4
4P, 415 V AC	0.5	4	--	5SL64057RC	5SL44057RC	1/3
	1		--	5SL64017RC	--	1/3
	2		--	5SL64027RC	5SL44027RC	1/3
	3		--	--	5SL44037RC	1/3
	4		--	5SL64047RC	5SL44047RC	1/3
	6		5SL64066RC	5SL64067RC	5SL44067RC	1/3
	8		--	--	5SL44087RC	1/3
	10		5SL64106RC	5SL64107RC	5SL44107RC	1/3
	13		--	--	5SL44137RC	1/3
	16		5SL64166RC	5SL64167RC	5SL44167RC	1/3
	20		5SL64206RC	5SL64207RC	5SL44207RC	1/3
	25		5SL64256RC	5SL64257RC	5SL44257RC	1/3
	32		5SL64326RC	5SL64327RC	5SL44327RC	1/3
	40		5SL64406RC	5SL64407RC	5SL44407RC	1/3
	50		5SL64506RC	5SL64507RC	5SL44507RC	1/3
	63		5SL64636RC	5SL64637RC	5SL44637RC	1/3

# 1 MW (Module Width) = 18 mm

Refer latest Electrical Installations from A to Z MRP for prices





# Betagard Circuit Breakers

## 5SY7 Circuit Breakers

- Standards: IEC/EN 60947-2
- Voltage: Un 230/400V, 50...60Hz can be used in systems upto 60V DC for 1P and 110V DC for 2P
- Breaking capacity: 15kA as per IEC/EN 60947-2

## 5SY5 Circuit Breakers

- Standards: IS/IEC 60947-2
- Voltage: 220V DC/1P & 440VDC/2P
- Breaking capacity: 10kA as per IS/IEC 60947-2

	Rated current I <sub>n</sub> (A)	MW#	15000A		10000A		Std. Pkg. (Nos)
			Characteristic D, AC CBs		Characterestic C, DC CBs		
	0.5	1	1P, 230/400V AC	5SY71058CC	1P, 220V DC	5SY51057CC	1/12
	1			5SY71018CC		5SY51017CC	1/12
	2			5SY71028CC		5SY51027CC	1/12
	3			5SY71038CC		5SY51037CC	1/12
	4			5SY71048CC		5SY51047CC	1/12
	6			5SY71068CC		5SY51067CC	1/12
	8			5SY71088CC		5SY51087CC	1/12
	10			5SY71108CC		5SY51107CC	1/12
	13			5SY71138CC		5SY51137CC	1/12
	16			5SY71168CC		5SY51167CC	1/12
	20			5SY71208CC		5SY51207CC	1/12
	25			5SY71258CC		5SY51257CC	1/12
	32			5SY71328CC		5SY51327CC	1/12
	40			5SY71408CC		5SY51407CC	1/12
	50			5SY71508CC		5SY51507CC	1/12
	63			5SY71638CC		5SY51637CC	1/12
	0.5	2	2P, 400V AC	5SY72058CC	2P, 440V DC	5SY52057CC	1/6
	1			5SY72018CC		5SY52017CC	1/6
	2			5SY72028CC		5SY52027CC	1/6
	3			5SY72038CC		5SY52037CC	1/6
	4			5SY72048CC		5SY52047CC	1/6
	6			5SY72068CC		5SY52067CC	1/6
	8			5SY72088CC		5SY52087CC	1/6
	10			5SY72108CC		5SY52107CC	1/6
	13			5SY72138CC		5SY52137CC	1/6
	16			5SY72168CC		5SY52167CC	1/6
	20			5SY72208CC		5SY52207CC	1/6
	25			5SY72258CC		5SY52257CC	1/6
	32			5SY72328CC		5SY52327CC	1/6
	40			5SY72408CC		5SY52407CC	1/6
	50			5SY72508CC		5SY52507CC	1/6
	63			5SY72638CC		5SY52637CC	1/6
	0.5	3	3P, 400V AC	5SY73058CC	--	--	1/4
	1			5SY73018CC		--	1/4
	2			5SY73028CC		--	1/4
	3			5SY73038CC		--	1/4
	4			5SY73048CC		--	1/4
	6			5SY73068CC		--	1/4
	8			5SY73088CC		--	1/4
	10			5SY73108CC		--	1/4
	13			5SY73138CC		--	1/4
	16			5SY73168CC		--	1/4
	20			5SY73208CC		--	1/4
	25			5SY73258CC		--	1/4
	32			5SY73328CC		--	1/4
	40			5SY73408CC		--	1/4
	50			5SY73508CC		--	1/4
	63			5SY73638CC		--	1/4
	0.5	4	4P, 400V AC	5SY74058CC	--	--	1/3
	1			5SY74018CC		--	1/3
	2			5SY74028CC		--	1/3
	3			5SY74038CC		--	1/3
	4			5SY74048CC		--	1/3
	6			5SY74068CC		--	1/3
	8			5SY74088CC		--	1/3
	10			5SY74108CC		--	1/3
	13			5SY74138CC		--	1/3
	16			5SY74168CC		--	1/3
	20			5SY74208CC		--	1/3
	25			5SY74258CC		--	1/3
	32			5SY74328CC		--	1/3
	40			5SY74408CC		--	1/3
	50			5SY74508CC		--	1/3
	63			5SY74638CC		--	1/3

# 1 MW (Module Width) = 18 mm

Refer latest Electrical Installations from A to Z MRP for prices



# SIEMENS

## Geared to perform in the toughest situation

### Siemens range of fuses

Fuses are the fastest & simplest current limiting devices, suitable for protection of lines, systems, devices in both – distribution & control circuits.

Available in Varied design - with a wide current range, multiple voltage ratings and high short circuit strength, Siemens fuses are perfectly equipped to minimize the effect of over currents, thus allowing you to protect property as well as lives

Siemens Fuses offer:

- High switching capacity
- Compact Design
- Low Watt Losses

With Siemens fuses - protection is Easy, Safe and Reliable!!



## HRC fuses (DIN) 3NA

- High Breaking capacity of 120kA
- Dual indication for fault detection
- ISI marked
- Highly compact: upto 100A in size 000

### Upto 800A, 500V AC, S.C. breaking capacity 120kA

Size	Rated current (A)	Type	Unit MRP* ₹	Std. pkg.** (nos.)
000	2	3NA78020RC	320.-	5/10
	4	3NA78040RC	320.-	5/10
	6	3NA78010RC	320.-	5/10
	10	3NA78030RC	320.-	5/10
	16	3NA78050RC	325.-	5/10
	20	3NA78070RC	325.-	5/10
	25	3NA78100RC	325.-	5/10
	32	3NA78120RC	325.-	5/10
	40	3NA78170RC	350.-	5/10
	50	3NA78200RC	350.-	5/10
00	63	3NA78220RC	385.-	5/10
	80	3NA78240RC	415.-	5/10
	100	3NA78300RC	415.-	5/10
	125	3NA78320RC	505.-	5/10
	160	3NA78360RC	530.-	5/10
1	50	3NA71200RC	690.-	1/10
	63	3NA71220RC	690.-	1/10
	80	3NA71240RC	690.-	1/10
	100	3NA71300RC	690.-	1/10
	125	3NA71320RC	715.-	1/10
	160	3NA71360RC	740.-	1/10
	200	3NA71400RC	740.-	1/10
	224	3NA71420RC	760.-	1/10
	250	3NA71440RC	830.-	1/10
2	200	3NA72400RC	1020.-	1/10
	250	3NA72440RC	1060.-	1/10
	315	3NA72520RC	1095.-	1/10
	400*	3NA72600RC	1095.-	1/10
3	315	3NA33520RC	1515.-	1/5
	400	3NA33600RC	1515.-	1/5
	500	3NA33650RC	1700.-	1/5
	630	3NA33720RC	1730.-	1/5
	800*	3NA33754RC	2105.-	1/5

\* 400A & 800A rated at 415V AC

### 690V AC, S.C. breaking capacity 120kA

Size	Rated current (A)	Type	Unit MRP* ₹	Std. pkg.** (nos.)
00	40	3NA78176RC	425.-	5/10
	50	3NA78206RC	425.-	5/10
	63	3NA78226RC	455.-	5/10
	80	3NA78246RC	480.-	5/10
	100	3NA78306RC	480.-	5/10
1	125	3NA71326RC	835.-	1/10
	160	3NA71366RC	865.-	1/10
	200	3NA71406RC	865.-	1/10
2	250	3NA72446RC	1145.-	1/10
	315	3NA72526RC	1230.-	1/10
3	400	3NA33606RC	1785.-	1/5
	425	3NA33626RC	1785.-	1/5
	500	3NA33656RC	1900.-	1/5



### Isolating links (DIN)

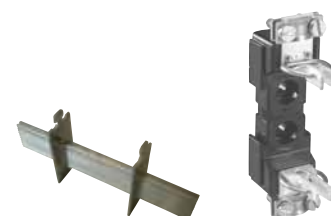
Size	Rated current (A)	Type	Unit MRP* ₹	Std. pkg.** (nos.)
00	160	■ 3NG1000	335.-	1
1	250	■ 3NG1250	495.-	1
2	400	■ 3NG1300	810.-	1
3	630	■ 3NG1400	845.-	1

### Fuse bases (DIN)

Size	Rated current (A)	Suitable for fuse link type	Type	Unit MRP* ₹	Std. pkg.** (nos.)
00	160	3NA7 8	■ 3NH3030 (Screw-in connection at both ends)	405.-	1/10
00	160	3NA7 8	■ 3NH3032 (Plug-in connection at both ends)	425.-	1/10
1	250	3NA7 1	■ 3NH3230	790.-	1/5
2	400	3NA7 2	■ 3NH3330	1145.-	1/5
3	630	3NA3 3	■ 3NH3430	1620.-	1/5
3	800	3NA3 3	■ 3NH3430-4RC	1950.-	1/5

### Fuse puller

Description	Type	MRP* ₹	Std. pkg.** (nos.)
Suitable for 3KL8/3KT8 and all sizes of fuse links/isolating links	■ 3NX1011	1650.-	1
Suitable only for fuse links and isolating links	3NX1010	825.-	1



### 690V AC, S.C. breaking capacity 120kA

Size	Rated current (A)	Type	Unit MRP* ₹
000	2A	3NA78026	Upon enquiry
	4A	3NA78046	Upon enquiry
	6A	3NA78016	Upon enquiry
	10A	3NA78036	Upon enquiry
	16A	3NA78056	Upon enquiry
	20A	3NA78076	Upon enquiry
	25A	3NA78106	Upon enquiry
	32A	3NA78126	Upon enquiry
	35A	3NA78146	Upon enquiry

\*\* Purchase MOQ for our authorised dealers is in multiples of standard packing, contact Siemens Sales Office for further details

\* MRP - Maximum Retail Price

Also available: Fuses for Solar Photo voltaic applications, domestic installations and control circuits protection. Please contact your nearest Siemens partner for more details.

## HRC fuses (BS) 3NW

- 2A-800A
- Rated at 415V AC/240V DC
- Breaking capacity 80kA (AC)



### Blade tag

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
2	■ 3NWS2	75.-	20
4	■ 3NWS4	75.-	20
6	■ 3NWS6	75.-	20
10	■ 3NWS10	75.-	20
16	■ 3NWS16	75.-	20
20	■ 3NWS20	85.-	20
25	■ 3NWS25	85.-	20
32	3NWS32	85.-	20

### Offset tag

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
2	3NWTIA2	111.-	20
4	3NWTIA4	111.-	20
6	3NWTIA6	111.-	20
10	■ 3NWTIA10	111.-	20
16	■ 3NWTIA16	111.-	20
20	■ 3NWTIA20	111.-	20
25	■ 3NWTIA25	111.-	20
32	■ 3NWTIA32	111.-	20
40	3NWTIS40	170.-	20
50	■ 3NWTIS50	170.-	20
63	■ 3NWTIS63	170.-	20
80	3NWTCP80	440.-	10
100	■ 3NWTCP100	440.-	10
125	3NWTFP125	670.-	5
160	3NWTFP160	670.-	5
200	3NWTFP200	670.-	5

### Central tag

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
80	3NWTC80	470.-	10
100	3NWTC100	470.-	10
125	3NWTF125	735.-	5
160	3NWTF160	735.-	5
200	3NWTF200	735.-	5
250	3NWKTF250	1050.-	1
315	3NWKTF315	1050.-	1
355	3NWTMF355	1450.-	1
400	3NWTMF400	1450.-	1
500	3NWTMT500	2280.-	1
630	3NWTMT630	3020.-	1
710	3NWTLM710	3440.-	1
800	3NWTLM800	3440.-	1

\*\* Purchase MOQ for our authorised dealers is in multiples of standard packing, contact Siemens Sales Office for further details

■ Stock items

\* MRP - Maximum Retail Price

### Offset tag

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
6	3NWTSA6	85.-	20
10	3NWTSA10	85.-	20
16	3NWTSA16	85.-	20
20	3NWTSA20	85.-	20
25	3NWTSA25	85.-	20
32	3NWTSA32	85.-	20
36	3NWTSS36	185.-	20
40	3NWTSS40	185.-	20
50	3NWTSS50	185.-	20
63	3NWTSS63	185.-	20
80	3NWTSDS80	265.-	20
100	3NWTSDS100	265.-	20
125	3NWTSP125	435.-	5
160	3NWTSP160	435.-	5
200	3NWTSP200	435.-	5

### Central tag

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
80	3NWTSDC80	325.-	10
100	3NWTSDC100	325.-	10
125	3NWTSF125	440.-	5
160	3NWTSF160	440.-	5
200	3NWTSF200	440.-	5
250	3NWTSK250	790.-	1
315	3NWTSK315	790.-	1
355	3NWTSM355	1325.-	1
400	3NWTSM400	1325.-	1
450	3NWTST450	1350.-	1
500	3NWTST500	1350.-	1
560	3NWTSL560	2185.-	1
630	3NWTSL630	2185.-	1
800	3NWTSL800	3160.-	1

### Fuse holders (for fuses type 3NW TIA, TSA, TIS, TSS, TSDS)

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
32	3NWC32F9	1290.-	10
63	3NWC63F9	1510.-	10
100	3NWC100F9	1665.-	10

### Fuse holders (for fuses Type 3NW NS) & Isolating link

Rated current A	Type	Unit MRP* ₹	Std. pkg.** (nos.)
20	■ 3NW20NNSF	155.-	10
32	■ 3NW32NNSF	195.-	10
32A (Iso. Link)	■ 3NW32NNSL	90.-	10

Please order in multiples of standard packing.

## Fuses for semiconductor protection - SITOR 3NE / 3NC

- Current Range upto 1600A
- Operating voltage: 500V - 2000V AC
- Suitable for mounting in fuse base / SDF / busbars

### 3NE4 type

Rated voltage V	Rated current (A)	Type	Utilization category	DIN size	Unit LP* ₹	Std. pkg.** (nos.)
1000	32	■ 3NE4101	gR	1	1530.-	1
	40	■ 3NE4102	gR	1	1535.-	1
	50	■ 3NE4117	gR	1	1610.-	1
	80	■ 3NE4120	aR	1	1740.-	1
	100	■ 3NE4121	aR	1	1905.-	1
	125	■ 3NE4122	aR	1	2050.-	1
	160	■ 3NE4124	aR	1	2250.-	1
800	250	■ 3NE43276	aR	–	4565.-	1
	315	■ 3NE43306	aR	–	4705.-	1
	450	■ 3NE43336	aR	–	4930.-	1
	500	■ 3NE43346	aR	–	4965.-	1
	710	■ 3NE43376	aR	–	5400.-	1



### 3NE9 type 600 V AC

Rated current (A)	Type	Utilization category	Size	Unit LP* ₹	Std. pkg.** (nos.)
850	3NE94406	gR	–	17950.-	3
1250	3NE9450	aR	–	16925.-	3



### 3NE8 type<sup>1)</sup> 690 V AC

Rated current (A)	Type	Utilization category	Size	Unit LP* ₹	Std. pkg.** (nos.)
25	3NE80151	gR	00	2995.-	3
35	3NE80031	gR	00	2995.-	3
50	3NE80171	gR	00	2995.-	3
63	3NE80181	gR	00	2995.-	3
80	3NE80201	aR	00	3330.-	3
100	3NE80211	aR	00	3480.-	3
125	3NE80221	aR	00	3530.-	3
160	3NE80241	aR	00	3875.-	3



### 3NE1 type<sup>1)</sup> 690 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit LP* ₹	Std. pkg.** (nos.)
16	3NE18130	gS	000	3530.-	3
20	3NE18140	gS	000	3530.-	3
25	3NE18150	gS	000	3530.-	3
35	3NE18030	gS	000	3530.-	3
40	3NE18020	gS	000	3530.-	3
50	3NE18170	gS	000	3530.-	3
63	3NE18180	gS	000	3530.-	3
80	3NE18200	gS	000	3530.-	3
100	3NE10210	gS	00	4815.-	3
125	3NE10220	gS	00	4815.-	3
160	3NE12240	gS	1	11670.-	3
200	3NE12250	gS	1	11670.-	3
250	3NE12270	gS	1	12250.-	3
315	3NE12300	gS	1	13135.-	3
350	3NE13310	gS	2	16320.-	3
400	3NE13320	gS	2	16455.-	3
450	3NE13330	gS	2	16560.-	3
500	3NE13340	gS	2	16815.-	3
560	3NE14350	gS	3	16900.-	3
630	3NE14360	gS	3	17635.-	3
710	3NE14370	gS	3	18340.-	3
800	3NE14380	gS	3	19255.-	3



### 3NE8 type 690 V AC / 700V DC

Rated current (A)	Type	Utilization category	Size	Unit LP* ₹	Std. pkg.** (nos.)
20	3NE87141	gR	000	2730.-	10
25	3NE87151	gR	000	2730.-	10
32	3NE87011	gR	000	2730.-	10
40	3NE87021	gR	000	2730.-	10
50	3NE87171	gR	000	2810.-	10
63	3NE87181	aR	000	2810.-	10
80	3NE87201	aR	000	2950.-	10
100	3NE87211	aR	000	2950.-	10
125	3NE87221	aR	000	2950.-	10
160	3NE87241	aR	000	3065.-	10
200	3NE87251	aR	000	3130.-	10
250	3NE87271	aR	000	3400.-	10
315	3NE87311	aR	000	4465.-	10



\*\* Purchase MOQ for our authorised dealers is in multiples of standard packing, contact Siemens Sales Office for further details

■ Stock items

\* LP - List Price

**Please order in multiples of standard packing.**

<sup>1)</sup> Suitable for mounting on fuse base / 3KL8 / 3NP1

# Fuses for semiconductor protection - SITOR 3NE/3NC



## 3NE3 type 1000 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit LP* ₹	Std. pkg.** (nos.)
100	3NE3221	aR	1	8385.-	3
125	3NE3222	aR	1	8625.-	3
160	3NE3224	aR	1	8625.-	3
200	3NE3225	aR	1	8760.-	3
250	3NE3227	aR	1	8990.-	3
315	3NE32300B	aR	1	9360.-	3
350	3NE3231	aR	1	11120.-	3
400	3NE32320B	aR	1	11915.-	3
450	3NE3233	aR	1	12335.-	3
400	3NE33320B	aR	2	12030.-	3
450	3NE3333	aR	2	12660.-	3
500	3NE33340B	aR	2	12895.-	3
560	3NE3335	aR	2	13385.-	3
630	3NE3336	aR	2	14025.-	3
710 <sup>^</sup>	3NE33378	aR	2	20800.-	3
800 <sup>^</sup>	3NE33388	aR	2	21370.-	3
900 <sup>^</sup>	3NE33408	aR	2	25455.-	3
100	3NE34210C	aR	3	17520.-	3
224	3NE36260C	aR	3	17150.-	3
315	3NE34300C	aR	3	18350.-	3
400	3NE34320C	aR	3	19430.-	3
450	3NE36350C	aR	3	20615.-	3
500	3NE34340C	aR	3	24665.-	3
630	3NE36360C	aR	3	28540.-	3
710	3NE36370C	aR	3	29585.-	3

<sup>^</sup> 710A: 900V AC; 800A: 800V AC; 900A: 690V AC



## 3NC type 690V AC<sup>#</sup>

Rated current (A)	Type	Utilization category	DIN Size	Unit LP* ₹	Std. pkg.** (nos.)
150	3NC84233C	gR	3	17020.-	3
200	3NC84253C	gR	3	11870.-	3
250	3NC84273C	gR	3	13585.-	3
350	3NC84313C	gR	3	14005.-	3
500	3NC84343C	gR	3	15140.-	3
1000	3NC84443C	aR	3	27495.-	3

<sup>#</sup> 1000A, 600V AC

Utilization category as per VDE 0636/IEC 60269	
Semiconductor	aR, gR, gS
Cable & Conductor	gG
Motor	aM
1st letter	2nd letter
a = Partial range of protection (accompanied fuses)	G(-L) = Cable & conductor protection (general purpose fuses)
g = Complete range protection (general purpose fuses)	M = Motor protection
	R, S = Semiconductor protection

\*\* Purchase MOQ for our authorised dealers is in multiples of standard packing, contact Siemens Sales Office for further details

\* LP - List Price

## 3NE5 type 1500 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit LP* ₹	Std. pkg.** (nos.)
160	3NE54240C	aR	3	23220.-	2
224	3NE54260C	aR	3	27920.-	2
250	3NE56270C	aR	3	25895.-	3
315	3NE54300C	aR	3	29075.-	2
350	3NE54310C	aR	3	24935.-	2
450	3NE56330C	aR	3	28090.-	3
600	3NE56430C	aR	3	29460.-	3

## 3NE7 type 2000 V AC

Rated current (A)	Type	Utilization category	DIN Size	Unit LP* ₹	Std. pkg.** (nos.)
200	3NE74250U	aR	3	Upon Enquiry	2
250	3NE74270U	aR	3	Upon Enquiry	2
350	3NE74310U	aR	3	Upon Enquiry	2
400	3NE74320U	aR	3	Upon Enquiry	2
450	3NE76331U	aR	3	Upon Enquiry	2
525	3NE76481U	aR	3	Upon Enquiry	2
630	3NE76361U	aR	3	Upon Enquiry	2
710	3NE76371U	aR	3	Upon Enquiry	2

### Also Available

1. Cylindrical fuse range upto 100A, for both general purpose & Semiconductor protection
2. Fuses for Photovoltaic application (DC 1000V / 1500V)
3. D-Type fuse Range upto 100A

For more details please contact your nearest sales office.

Please order in multiples of standard packing.

## Fuseless selection Iq = 50 kA, IS/IEC:60947-4-1 (3VT with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e MCCB + Contactor + Bi-relay mentioned below.
- In case this combination is changed to accommodate another brand / rating of MCCB / contactor / bi-relay, it shall be the responsibility of the person making such a change to assure the coordination.**
- Selection is for normal starting conditions with starting time  $\leq 6$  seconds. (For heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- MCCB protection setting should be maintained as per below chart.
- For charts with 3VT MCCB for ratings below 75kW, please consult Siemens.
- Recommended selection.

### Direct-on-line feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor	
				MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp
1	75	131	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3RU21 56-5DB10-8K	110 - 160	3RT1055	150
2	90	156	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	315	12.5 X Ir	3RU21 56-5EB10-8K	140 - 200	3RT1056	185
3	110	189	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3RU21 66-5FB10-8K	180 - 250	3RT1064	225
4	132	227	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	455	12.5 X Ir	3RU21 66-5GB10-8K	220 - 320	3RT1065	265
5	160	271	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	550	12.5 X Ir	3RU21 66-5GB10-8K	220 - 320	3RT1066	300
6	200	339	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3RU21 76-5HB10-8K	280 - 400	3RT1076	500
7	250	398	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3RU21 76-5JB10-8K	350 - 500	3RT1076	500

### Star-Delta feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Phase Current Iph (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor (Line/Delta)		Contactor (Star)	
					MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp	Type	Amp
1	75	131	75.6	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	200	12.5 X Ir	3RU11 46-4LB0	70 - 90	3RT1055	150	3RT1044	65
2	90	156	90.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3RU11 46-4MB0	80 - 100	3RT1056	185	3RT1044	65
3	110	189	109	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	290	12.5 X Ir	3RU21 56-5CB10-8K	90 - 125	3RT1064	225	3RT1054	115
4	132	227	131.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	345	12.5 X Ir	3RU21 56-5DB10-8K	110 - 160	3RT1065	265	3RT1054	115
5	160	271	156.5	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3RU21 56-5EB10-8K	140 - 200	3RT1066	300	3RT1054	115
6	200	339	195.7	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	500	12.5 X Ir	3RU21 56-5FB10-8K	180 - 250	3RT1076	500	3RT1056	185
7	250	398	229.8	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	575	12.5 X Ir	3RU21 56-5GB10-8K	220 - 320	3RT1076	500	3RT1065	265

Note: For ratings below 75kW, with SCPD 3RV MPCB, please refer to LV SGR - Motor Control Products Price list page no. 76 or consult nearest Siemens Office.

For Type 2 Co-ordination chart with SCPD 3VL MCCB, please refer to LV SGR - Motor Control Products Price list page no. 76 or consult nearest Siemens Office.

## Fuseless selection Iq = 50 kA, IS/IEC:60947-4-1 (3VT with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e MCCB + Contactor + Bi-relay mentioned below.
- In case this combination is changed to accommodate another brand / rating of MCCB / contactor / bi-relay, it shall be the responsibility of the person making such a change to assure the coordination.**
- Selection is for normal starting conditions with starting time  $\leq 6$  seconds. (For heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- MCCB protection setting should be maintained as per below chart.
- For charts with 3VT MCCB for ratings below 75kW, please consult Siemens.
- Recommended selection.

### Direct-on-line feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current IL (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor	
				MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp
1	75	131	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3UA62 30-5A	85 - 135	3TF52	170
2	90	156	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	315	12.5 X Ir	3UA62 30-5B	115-180	3TF53	205
3	110	189	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3UA62 30-5C	160 - 250	3TF53	205
4	132	227	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	455	12.5 X Ir	3UA62 30-5C	160 - 250	3TF54	250
5	160	271	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	550	12.5 X Ir	3UA62 30-5D	200 - 320	3TF55	300
6	200	339	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3UA62 30-5E	250 - 400	3TF57	475
7	250	398	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	630	12.5 X Ir	3UA68 30-5F	320 - 500	3TF57	475

### Star-Delta feeder

Sr No	kW 415V, 3ph, 50/60 Hz	Rated current I <sub>L</sub> (A)	Phase Current I <sub>ph</sub> (A)	Breaking Capacity Iq	Circuit Breaker				Bi-relay		Contactor (Line/Delta)		Contactor (Star)	
					MCCB	Rated current In (A)	Overload Setting Ir (A)	S/C Setting .. X Ir	Type	Range (A)	Type	Amp	Type	Amp
1	75	131	75.6	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	200	12.5 X Ir	3UA58 00-8YZ1	70 - 95	3TF52	170	3TF47	63
2	90	156	90.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9325-6AC00	250	231	12.5 X Ir	3UA58 30-5B	70 - 95	3TF53	205	3TF47	63
3	110	189	109	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	290	12.5 X Ir	3UA58 30-5D	95 - 120	3TF53	205	3TF50	110
4	132	227	131.1	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	345	12.5 X Ir	3UA62 30-5B	115 - 180	3TF54	250	3TF50	110
5	160	271	156.5	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9340-6AC00	400	400	12.5 X Ir	3UA62 30-5B	115 - 180	3TF55	300	3TF50	110
6	200	339	195.7	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	500	12.5 X Ir	3UA62 30-5C	160 - 250	3TF57	475	3TF52	170
7	250	398	229.8	50 / 65kA	3VT3763-3AA36-0AA0 + 3VT9363-6AC00	630	575	12.5 X Ir	3UA62 30-5D	160 - 250	3TF57	475	3TF54	250

**Note:** For ratings below 75kW, with SCPD 3RV MPCB, please refer to LV SGR - Motor Control Products Price list page no. 78 or consult nearest Siemens Office.

For Type 2 Co-ordination chart with SCPD 3VL MCCB, please refer to LV SGR - Motor Control Products Price list page no. 78 or consult nearest Siemens Office.

Fuse protected selection type 2, Iq = 50kA, IS/IEC:60947-4-1  
(3KL with 3RT & 3RU)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. SDF + DIN Fuse + Contactor + Bi-Relay (+ timer).
- In case this combination is changed to accommodate another brand/rating of SDF/DIN Fuse/Contactor/BMR, it shall be the responsibility of the person making such a change to assure type 2 performance.
- Selection is for **normal starting** conditions with starting time ≤ 6 seconds. (For **heavy starting** applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.)
- The electronic star-delta timer type 3RP should be used in star-delta feeders.
- SDF: Switch Disconnector Fuse. All fuses are DIN HRC type.
- Tested Type 2 combinations
- Low LCC = Low Life Cycle Cost

Direct-on-line feeder, for Low LCC

SL Motor	Motor	SDF		HRC Fuse		Contactor		Bi-Relay	
kW 415V, 3ph, 50/60 Hz	I <sub>L</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp
0.37	1	3KL811	20	3NA78040RC	4	3RT20 15-1AP01	7	3RU21 16-0KB0	0.9 - 1.25
0.55	1.3	3KL811	20	3NA78040RC	4	3RT20 15-1AP01	7	3RU21 16-1AB0	1.1 - 1.6
0.75	1.9	3KL811	20	3NA78010RC	6	3RT20 15-1AP01	7	3RU21 16-1BB0	1.4 - 2
1.10	2.6	3KL811	20	3NA78010RC	6	3RT20 15-1AP01	7	3RU21 16-1DB0	2.2 - 3.2
1.50	3.7	3KL811	20	3NA78030RC	10	3RT20 15-1AP01	7	3RU21 16-1EB0	2.8 - 4
2.20	4.8	3KL811	20	3NA78050RC	16	3RT20 15-1AP01	7	3RU21 16-1GB0	4.5 - 6.3
3.7	7.8	3KL811	20	3NA78070RC	20	3RT20 23-1AL20	9	3RU21 26-1JB0	7 - 10
5.5	11.2	3KL812	32	3NA78100RC	25	3RT20 24-1AL20	12	3RU21 26-1KB0	9 - 12.5
7.5	16	3KL812	32	3NA78120RC	32	3RT20 25-1AL20	17	3RU21 26-4AB0	11 - 16
11	20.8	3KL815	63	3NA78200RC	50	3RT20 26-1AL20	25	3RU21 26-4DB0	20 - 25
15	28	3KL815	63	3NA78220RC	63	3RT20 27-1AL20	32	3RU21 26-4EB0	27 - 32
18.5	34	3KL815	63	3NA78220RC	63	3RT10 35-1AL20	40	3RU11 36-4FB0	28 - 40
22	40	3KL821	100	3NA78240RC	80	3RT10 36-1AL20	50	3RU11 36-4GB0	36 - 45
30	53	3KL821	100	3NA78300RC	100	3RT10 44-1AL20	65	3RU11 46-4JB0	45 - 63
37	65	3KL822	125	3NA78320RC	125	3RT10 45-1AL20	80	3RU11 46-4KB0	57 - 75
45	78	3KL822	125	3NA78320RC	125	3RT10 46-1AL20	95	3RU11 46-4LB0	70 - 90
55	96	3KL823	160	3NA78360RC	160	3RT10 54-6LA06	115	3RU11 46-4MB0	80 - 100
75	131	3KL831	200	3NA71400RC	200	3RT10 55-6LA06	150	3RU21 56-5DB10-8K	110 - 160
90	156	3KL832	250	3NA71440RC	250	3RT10 56-6LA06	185	3RU21 56-5EB10-8K	140 - 200
110	189	3KL832	250	3NA71440RC	250	3RT10 64-6LA06	225	3RU21 66-5FB10-8K	180 - 250
132	227	3KL833	315	3NA72520RC	315	3RT10 65-6LA06	265	3RU21 66-5FB10-8K	180 - 250
160	271	3KL834	400	3NA72600RC	400	3RT10 66-6LA06	300	3RU21 66-5GB10-8K	220 - 320
200	339	3KL841	500	3NA33650RC	500	3RT10 75-6LA06	400	3RU21 76-5HB10-8K	280 - 400
250	398	3KL841	500	3NA33650RC	500	3RT10 76-6LA06	500	3RU21 76-5JB10-8K	350 - 500

Star-Delta feeder, for Low LCC

SL Motor	Motor		SDF		HRC Fuses		Contactor Line/Delta		Contactor Star		Bi-Relay		Timer
kW 415V, 3ph, 50/60Hz	I <sub>L</sub> Amp	I <sub>ph</sub> Amp	Type	Amp	Type	Amp	Type	Amp	Type	Amp	Type (60°C)	Set-Range Amp	Type
4	7.8	4.5	3KL811	20	3NA78030RC	10	3RT20 23-1AL20	9	3RT20 23-1AL20	9	3RU21 26-1FB0	3.5 - 5	3RP15
5.5	11.2	6.5	3KL811	20	3NA78050RC	16	3RT20 23-1AL20	9	3RT20 23-1AL20	9	3RU21 26-1HB0	5.5 - 8	3RP15
7.5	16	9.2	3KL811	20	3NA78070RC	20	3RT20 24-1AL20	12	3RT20 23-1AL20	9	3RU21 26-1JB0	7 - 10	3RP15
11	20.8	12	3KL812	32	3NA78100RC	25	3RT20 24-1AL20	12	3RT20 23-1AL20	9	3RU21 26-1KB0	9 - 12.5	3RP15
15	28	16.2	3KL812	32	3NA78120RC	32	3RT20 26-1AL20	25	3RT20 25-1AL20	17	3RU21 26-4BB0	14 - 20	3RP15
18.5	34	19.7	3KL815	63	3NA78200RC	50	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4BB0	14 - 20	3RP15
22	40	23.2	3KL815	63	3NA78200RC	50	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4DB0	18 - 25	3RP15
30	53	30.6	3KL815	63	3NA78220RC	63	3RT10 34-1AL20	32	3RT10 34-1AL20	32	3RU11 36-4EB0	22 - 32	3RP15
37	65	37.5	3KL821	100	3NA78240RC	80	3RT10 35-1AL20	40	3RT10 34-1AL20	32	3RU11 36-4FB0	28 - 40	3RP15
45	78	45	3KL821	100	3NA78300RC	100	3RT10 36-1AL20	50	3RT10 34-1AL20	32	3RU11 36-4HB0	40 - 50	3RP15
55	96	55.4	3KL821	100	3NA78300RC	100	3RT10 44-1AL20	65	3RT10 34-1AL20	32	3RU1146-4JB0	45 - 63	3RP15
75	131	75.6	3KL823	160	3NA78360RC	160	3RT10 45-1AL20	80	3RT10 44-1AL20	65	3RU11 46-4LB0	70 - 90	3RP15
90	156	90.1	3KL823	160	3NA78360RC	160	3RT10 46-1AL20	95	3RT10 44-1AL20	65	3RU11 46-4MB0	80 - 100	3RP15
110	189	109	3KL831	200	3NA71400RC	200	3RT10 54-6LA06	115	3RT10 54-6LA06	115	3RU21 56-5CB10-8K	90 - 125	3RP15
132	227	131.1	3KL832	250	3NA71440RC	250	3RT10 55-6LA06	150	3RT10 54-6LA06	115	3RU21 56-5DB10-8K	110 - 160	3RP15
160	271	156.5	3KL833	315	3NA72520RC	315	3RT10 56-6LA06	185	3RT10 54-6LA06	115	3RU21 56-5EB10-8K	140 - 200	3RP15
200	339	195.7	3KL834	400	3NA72600RC	400	3RT10 64-6LA06	225	3RT10 56-6LA06	185	3RU21 66-5FB10-8K	180 - 250	3RP15
250	398	229.8	3KL841	500	3NA33650RC	500	3RT10 65-6LA06	265	3RT10 65-6LA06	265	3RU21 66-5GB10-8K	220 - 320	3RP15

## Fuse protected selection type 2, I<sub>q</sub> = 50kA, IS/IEC:60947-4-1 (3KL with 3TF & 3UA)

Suitable for IE2 motors

- The selection is valid only for complete Siemens combinations i.e. SDF + DIN Fuse + Contactor + Bi-relay (+ timer).
- In case this combination is changed to accommodate another brand/rating of SDF/DIN Fuse/Contactor/BMR, it shall be the responsibility of the person making such a change to assure type 2 performance.**
- Selection is for **normal starting** conditions with starting time ≤ 6 seconds. (For **heavy starting applications e.g. ID/FD fans, reciprocating compressor, ball mills etc., please consult Siemens.**)
- At 60°C service temperature the bi-relay has to be derated. The bi-relay can be used upto the maximum current setting indicated. For example - A bi-relay with setting 32-50A, at 60°C can be used only upto 47A. This however does not mean that at 60°C, the 50A setting corresponds to 47A. It means that, the bi-relay should not be set beyond 47A.
- The electronic star-delta timer type 3RP should be used in star-delta feeders.**
- SDF: Switch Disconnecter Fuse. **All fuses are DIN HRC type.**
- Tested Type 2 combinations
- Low LCC = Low Life Cycle Cost

### Direct-on-line feeder, for Low LCC

SL Motor	Motor	SDF		HRC Fuse		Contactor		Bi-Relay		Bi-Relay	
kW 415V, 3ph, 50Hz	I <sub>L</sub> Amp	Type	Rating	Type	Amp	Type	Amp	Type (50°C)	Set-Range Amp	Type (60°C)	Available Set-Range Amp
0.37	1	3KL811	20	3NA78040RC	4	3TF30	9	3UA5000-0K	0.8 - 1.25	3UA5000-0K	0.8 - 1.17
0.55	1.3	3KL811	20	3NA78040RC	4	3TF30	9	3UA5000-1A	1 - 1.6	3UA5000-1A	1 - 1.5
0.75	1.9	3KL811	20	3NA78010RC	6	3TF30	9	3UA5000-1B	1.25 - 2	3UA5000-1C	1.6 - 2.3
1.1	2.6	3KL811	20	3NA78010RC	6	3TF30	9	3UA5000-1D	2 - 3.2	3UA5000-1D	2 - 3
1.5	3.7	3KL811	20	3NA78030RC	10	3TF30	9	3UA5000-1E	2.5 - 4	3UA5000-1E	2.5 - 3.7
2.2	4.8	3KL811	20	3NA78050RC	16	3TF30	9	3UA5000-1F	3.2 - 5	3UA5000-1G	4 - 5.9
3.7	7.8	3KL811	20	3NA78070RC	20	3TF30	9	3UA5000-1H	5 - 8	3UA5000-1J	6.3 - 9.4
5.5	11.2	3KL812	32	3NA78100RC	25	3TF31	12	3UA5000-1K	8 - 12.5	3UA5000-1K	8 - 11.7
7.5	16	3KL812	32	3NA78120RC	32	3TF32	16	3UA5200-2A	10 - 16	3UA5200-2B	12.5 - 18.7
9.3	19	3KL815	63	3NA78200RC	50	3TF34	32	3UA5500-2B	12.5 - 20	3UA5500-2C	16 - 23.4
11	20.8	3KL815	63	3NA78200RC	50	3TF34	32	3UA5500-2C	16 - 25	3UA5500-2C	16 - 23.4
15	28	3KL815	63	3NA78220RC	63	3TF34	32	3UA5500-2D	20 - 32	3UA5500-2D	20 - 30
18.5	34	3KL815	63	3NA78220RC	63	3TF35	38	3UA5500-2Q	25 - 36	3UA5500-2R	32 - 37.4
22	40	3KL821	100	3NA78240RC	80	3TF46	45	3UA5800-2FZ1	32 - 50	3UA5800-2FZ1	32 - 47
30	53	3KL821	100	3NA78300RC	100	3TF47	63	3UA5800-2TZ1	40 - 57	3UA5800-2PZ1	50 - 59
37	65	3KL822	125	3NA78320RC	125	3TF477	70	3UA5800-2VZ2	57 - 70	3UA5800-2VZ2	57 - 65.5
45	78	3KL822	125	3NA78320RC	125	3TF49	85	3UA5800-8YZ1	70 - 95	3UA5800-8YZ1	70 - 88.9
55	96	3KL823	160	3NA78360RC	160	3TF50	110	3UA5830-5C	85 - 105	3UA5830-5C	85 - 98.2
75	131	3KL831	200	3NA71400RC	200	3TF51	140	3UA6230-5A	85 - 135	3UA6230-5B	115 - 168
90	156	3KL832	250	3NA71440RC	250	3TF52	170	3UA6230-5B	115 - 180	3UA6230-5B	115 - 168
110	189	3KL832	250	3NA71440RC	250	3TF53	205	3UA6230-5C	160 - 250	3UA6230-5C	160 - 234
132	227	3KL833	315	3NA72520RC	315	3TF54	250	3UA6230-5C	160 - 250	3UA6230-5C	160 - 234
160	271	3KL834	400	3NA72600RC	400	3TF55	300	3UA6230-5D	200 - 320	3UA6230-5D	200 - 299
200	339	3KL841	500	3NA33650RC	500	3TF56	400	3UA6230-5E	250 - 400	3UA6230-5E	250 - 374
250	398	3KL841	500	3NA33650RC	500	3TF57	475	3UA6830-5F	320 - 500	3UA6830-5F	320 - 468

### Star-Delta feeder, for Low LCC

SL Motor	Motor		SDF		HRC Fuses		Contactor Line/Delta		Contactor Star		Bi-Relay		Bi-Relay		Timer
kW 415V, 3ph, 50Hz	I <sub>L</sub> Amp.	I <sub>ph</sub> Amp	Type	Rating	Type	Amp	Type	Amp	Type	Amp	Type (50°C)	Set-Range Amp	Type (60°C)	Available Set-Range Amp	Type
3.7	7.8	4.5	3KL811	20	3NA78030RC	10	3TF30	9	3TF30	9	3UA5000-1F	3.2-5	3UA5000-1F	3.2-4.7	3RP15
5.5	11.2	6.5	3KL811	20	3NA78050RC	16	3TF30	9	3TF30	9	3UA5000-1H	5-8	3UA5000-1H	5-7.5	3RP15
7.5	16	9.2	3KL811	20	3NA78070RC	20	3TF31	12	3TF30	9	3UA5000-1J	6.3-10	3UA5000-1J	6.3-9.4	3RP15
9.3	19	11	3KL812	32	3NA78100RC	25	3TF31	12	3TF30	9	3UA5000-1K	8-12.5	3UA5000-1K	8-11.7	3RP15
11	20.8	12	3KL812	32	3NA78100RC	25	3TF31	12	3TF30	9	3UA5000-1K	8-12.5	3UA5000-2S	10-13.6	3RP15
15	28	16.2	3KL812	32	3NA78120RC	32	3TF33	22	3TF32	16	3UA5200-2B	12.5-20	3UA5200-2B	12.5-18.7	3RP15
18.5	34	19.7	3KL815	63	3NA78200RC	50	3TF34	32	3TF34	32	3UA5500-2B	12.5-20	3UA5500-2C	16-23.4	3RP15
22	40	23.2	3KL815	63	3NA78200RC	50	3TF34	32	3TF34	32	3UA5500-2C	16-25	3UA5500-2D	22-30	3RP15
30	53	30.6	3KL815	63	3NA78220RC	63	3TF34	32	3TF34	32	3UA5500-2D	20-32	3UA5500-2Q	25-33.7	3RP15
37	65	37.5	3KL821	100	3NA78240RC	80	3TF35	38	3TF34	32	3UA5500-2R	32-40	3UA5500-8M	36-45	3RP15
45	78	45	3KL821	100	3NA78300RC	100	3TF46	45	3TF34	32	3UA5800-2FZ1	32-50	3UA5800-2FZ1	32-47	3RP15
55	96	55.4	3KL821	100	3NA78300RC	100	3TF47	63	3TF34	32	3UA5800-2TZ1	40-57	3UA5800-2PZ1	50-59	3RP15
75	131	75.6	3KL823	160	3NA78360RC	160	3TF49	85	3TF47	63	3UA5800-8YZ1	70-95	3UA5800-8YZ1	70-88.9	3RP15
90	156	90.1	3KL823	160	3NA78360RC	160	3TF50	110	3TF47	63	3UA5830-5B	70-95	3UA5830-5C	85-98.2	3RP15
110	189	109	3KL831	200	3NA71400RC	200	3TF50	110	3TF50	110	3UA5830-5D	95-120	3UA5830-5D	95-112	3RP15
132	227	131.1	3KL832	250	3NA71440RC	250	3TF51	140	3TF50	110	3UA6230-5B	115-180	3UA6230-5B	115-168	3RP15
160	271	156.5	3KL833	315	3NA72520RC	315	3TF52	170	3TF50	110	3UA6230-5B	115-180	3UA6230-5B	115-168	3RP15
200	339	195.7	3KL834	400	3NA72600RC	400	3TF54	250	3TF52	170	3UA6230-5C	160-250	3UA6230-5C	160-234	3RP15
250	398	229.8	3KL841	500	3NA72600RC	400	3TF54	250	3TF54	250	3UA6230-5C	160-250	3UA6230-5D	200-299	3RP15

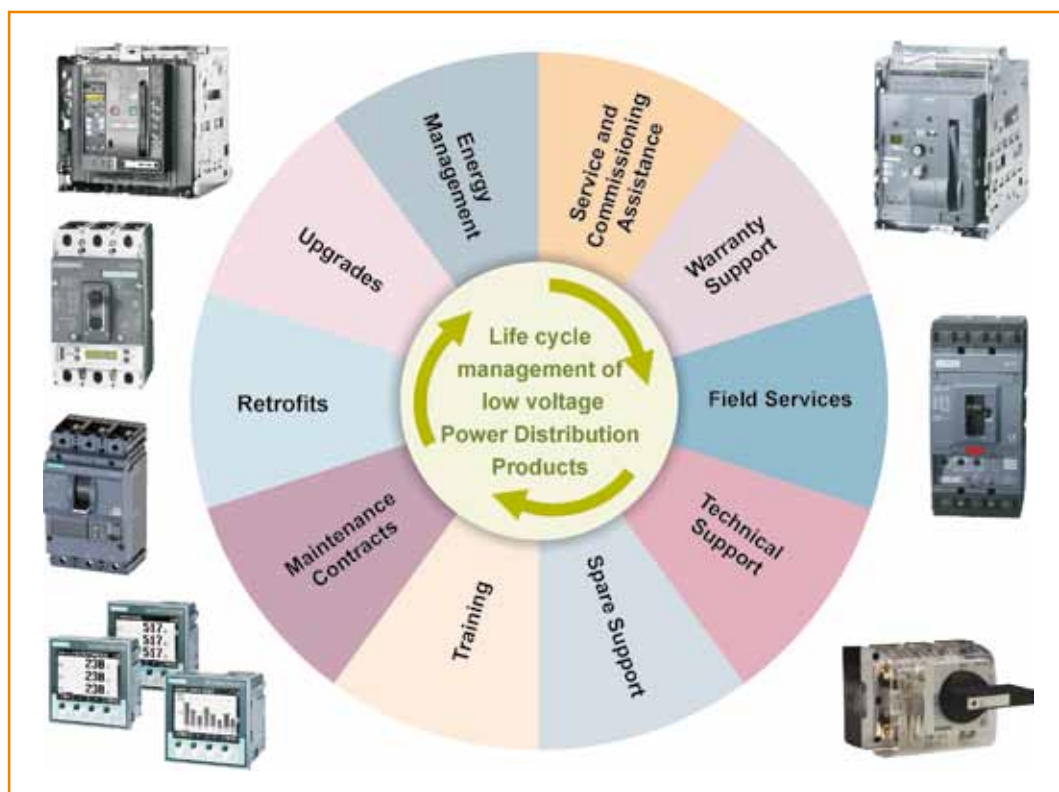
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