

CAMGRO S SYSTEM

SUB MAIN DISTRIBUTION BOARDS

*QUALITY, SIMPLICITY,
ROBUSTNESS AND RELIABILITY*



Energy



Industry




Residential



Infrastructure



Wide range of Robust, Reliable and Safe Sub Main Distribution Boards

Camgro  System Sub Main Distribution Boards, delivered complete with M/s.Schneider Electric components and integrated within enclosures for high performances up to 800A for residential, commercial, infrastructure, industrial and Oil & Gas installations.




Product Features

Durable

- ◆ Enclosures are fabricated from 1.5mm thick electro galvanized steel sheets
- ◆ Fully tested and certified high performance tin plated bus bar system.

Guaranteed Safety

- ◆ CAMGRO  System is designed and built to the latest international standard IEC 61439-1 & 2.
- ◆ Safety is enhanced by thermoplastic barriers to maintain alignment and isolation between phases.
- ◆ Fully shrouded live busbars with dead front door.
- ◆ Unused branch busbars protected with end caps.

Salient Features

- ◆ Busbar system is designed for ratings of 250A, 400A, 630A & 800A.
- ◆ Busbar system is suitable for outgoing breakers up to 630A.
- ◆ Wide range of outgoing starting from 4way up to 16 way TP with a maximum rating of 630A.
- ◆ Modular construction.
- ◆ Electrostatic polyester powder coating with RAL-7032 shade for corrosion resistance.
- ◆ Adequate cabling space.
- ◆ Ready to add Metering.
- ◆ Optimized maintenance and operation.
- ◆ Approved by ADDC and inline with the requirements of all U.A.E authorities, as well as inline with the specifications of authorities in the Gulf countries

Technical Specifications

Constructional Characteristics

- ◆ Complies with IEC 61439-1 & 2.
- ◆ Totally Type Tested, KEMA / DEKRA certified.
- ◆ Degree of protection conforms to IP 54 as per IEC 60529.
- ◆ Form of separation conforms to Form 2b.
- ◆ Enclosure with pan assembly.
- ◆ Tin plated copper neutral busbar with Nuts & Bolts.
- ◆ Tin plated copper earth busbar with Nuts & Bolts.
- ◆ Properly identified internal components.
- ◆ Suitable for Wall/Floor mounting.

Electrical Characteristics

- ◆ Rated Operational Voltage (Ue) : 690V.
- ◆ Rated Insulation Voltage (Ui) : 690V.
- ◆ Rated Frequency : 50/60Hz.
- ◆ Rated Impulse withstand Voltage (Uimp) : 6 KV.
- ◆ Rated Current (In) : up to 800A.
- ◆ Rated Short Time Withstand Current (Icw) : up to 50KA/1sec.
- ◆ Rated Peak Withstand Current (Ipk) : up to 105KA.
- ◆ Clearance : > 5.5 mm.
- ◆ Creepage : > 10 mm

Busbar Systems

- ◆ Fully type tested encapsulated busbar system.
- ◆ Tin plated copper Busbars.
- ◆ Main Busbar is suitable for incomers up to 800A.
- ◆ Rating: 250A, 400A, 630A & 800A.
- ◆ Outgoing connections up to 250A for 250A,400A,630A and up to 630A for 800A.
- ◆ Short time Withstand currents (Icw) : 36kA for 1Sec.(250A),
42kA for 1Sec.(400A),
50kA for 1Sec.(630A, 800A).

Busbar types:

Type of MCCB	Standard Range of MCCB / Isolator				Economy Range of MCCB		
Incoming Rating	250A	400A	630A	800A	250A	400A	630A
Busbar Rating	250A	400A	630A	800A	250A	400A	630A



Metering Kit

- ◆ 1 Ammeter (72 X 72mm) with Selector Switch.
 - ◆ 1 Voltmeter (72 X 72mm) with Selector Switch.
 - ◆ 3 RYB Pilot Lamps.
- Plus current Transformers, control fuses and wiring loom.

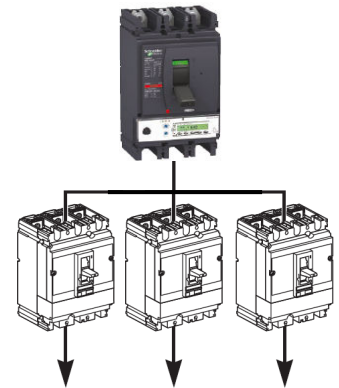


Incoming Devices

Technical Specifications

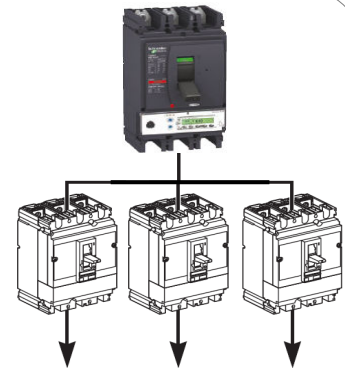
Standard range of Moulded Case Circuit Breakers and Non-Auto MCCB conforming to IEC 60947-2

Rated current (In)	250A 800A.							
Rated operational voltage(Ue)	Up to 690V.							
Rated frequency	50/60 Hz.							
Breaker Rating	250A		400A		630A		800A	
Breaking Capacity (Icu) (kA rms) at 415V	36	50	50	70	50	70	50	
Service Breaking Capacity Ics.....% Icu	100%		100%		100%		100%	
Protection trip unit	Thermal magnetic or Electronic		Electronic		Electronic		Electronic	
Switch Disconnecter	250A		400A		630A		800A	
Short-circuit making capacity Icm (kA peak) with upstream protection circuit breaker	330		330		330		330	



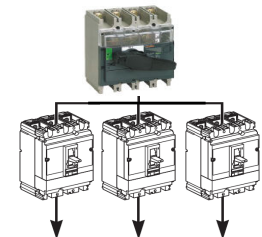
Economy range of Moulded Case Circuit Breakers conforming to IEC 60947-2

Rated current (In)	250A..... 630A.							
Rated operational voltage(Ue)	Up to 550V.							
Rated frequency	50/60 Hz.							
Breaker Rating	250A		400A		630A			
Breaking Capacity (Icu) (kA rms) at 415V	25	36	36	50	36	50		
Service Breaking Capacity Ics.....% Icu	50%		50%		50%			
Protection trip unit	Thermal magnetic							



Onload Isolators conforming to IEC 60947-3

Rated current (in)	250A.....800A.				
Rated operational voltage(Ue)	Up to 690V.				
Rated frequency	50/60 Hz.				
Isolator rating	250A	320A	400A	630A	800A
Short-circuit making capacity Icm (kA peak) with upstream protection circuit breaker	330	330	330	330	330

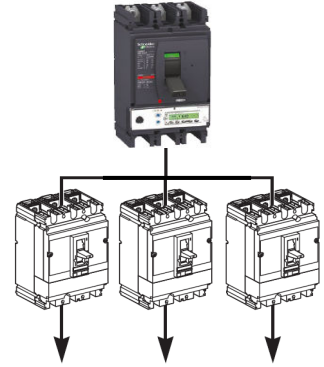


Outgoing Devices

Technical Specifications

Standard range of Moulded Case Circuit Breakers conforming to IEC 60947-2

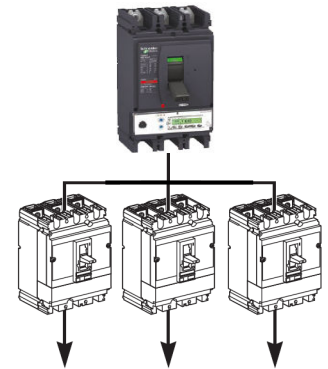
Rated current (In)	16A.....630A.							
Rated operational voltage(Ue)	Up to 690V.							
Rated frequency	50/60 Hz.							
Breaker rating	16....250A		16.... 250A		* 400A		* 630A	
No. of poles	1P		3P		3P		3P	
Breaking Capacity (Icu) (kA rms) at 240V	25	40	-	-	-	-	-	-
Breaking Capacity (Icu) (kA rms) at 415V	-		36	50	50	70	50	70
Service Breaking Capacity Ics.....% Icu	100%		100%		100%		100%	
Protection trip unit	Thermal magnetic or Electronic				Electronic			



* To select only in 800A Sub Main Distribution Boards.

Economy range of Moulded Case Circuit Breakers conforming to IEC 60947-2

Rated current (In)	16A....400A									
Rated operational voltage(Ue)	Up to 550V									
Rated frequency	50/60 Hz									
Breaker rating	16....100A				250A			* 400A		
No. of Poles	1P	3P	1P	3P	3P	3P	3P	3P	3P	3P
Breaking Capacity (Icu) (kA rms) at 240V in 1P	18	-	25	-	-	-	-	-	-	-
Breaking Capacity (Icu) (kA rms) at 415V in 3P	-	15	-	30	18	25	36	36	50	-
Service Breaking Capacity Ics.....% Icu	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Protection trip unit	Thermal magnetic									



* To select only in 800A Sub Main Distribution Boards.

Accessories / Auxiliaries



MX Shunt trip for Standard

OF : Display contact



Aux. Contact for Standard

MX : Shunt opening release



Aux. Contact for Economy

MN : Under voltage release



MX Shunt Trip for Economy




Earth Leakage Relay

Selection Process

Selection of Sub Main Distribution Boards.

CGS N S1 04 N2

CAMGRO  System ←

Outgoing breaker type. ←

- N : Standard range of MCCBs
- E : Economy range of MCCBs
- NE : Combinations of Normal & Economy range of MCCBs

Busbar Ratings. ←

- S1 : 250A – 3 Pole.
- S2 : 400A – 3 Pole.
- S3 : 630A – 3 Pole.
- S4 : 800A – 3 Pole.

No. of outgoing ways. ←

- 04 : 4 ways TP
- 06 : 6 ways TP
- 08 : 8 ways TP
- 10 : 10 ways TP
- 12 : 12 ways TP
- 14 : 14 ways TP
- 16 : 16 ways TP

Incoming Breaker type ←

Standard Range of MCCBs

- N2 : 250A MCCB
- N4 : 400A MCCB
- N6 : 630A MCCB
- N8 : 800A MCCB

Economy Range of MCCBs

- E2 : 250A MCCB
- E4 : 400A MCCB
- E6 : 630A MCCB

Onload Isolators

- I2 : 250A Isolator
- I4 : 400A Isolator
- I6 : 630A Isolator
- I8 : 800A Isolator

Non Auto MCCBs

- NA2 : 250A NON AUTO MCCB
- NA4 : 400A NON AUTO MCCB
- NA6 : 630A NON AUTO MCCB
- NA8 : 800A NON AUTO MCCB

Certificates

250A.....800A Type Tested Certificates.

KEMA Quality

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S1 System: 250A Sub Main Distribution Board

Ratings: U: 690 V, Ump: 6 kV, Uie: 415 V, Incoming unit: 250 A, low 36 kA – 1.0 s, loc: incoming unit 36 kA at 415 V, loc: outgoing units 3036 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9, 10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902-04-INC, dated 6 April, 2011.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 6 April, 2011

Number: 2137902-102
DEKRA Certification B.V.

F. S. Strikwerda
Certification Manager

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DEKRA Certification B.V., Utrechtseweg 310, 6812 AR Amhem, P.O. Box 5185, 6802 ED Amhem, The Netherlands
T +31 26 369 2000 F +31 26 362 9800 www.dekra-certification.com Company registration 09683396



CAMGRO S1 SYSTEM
250A Sub Main Distribution Board

KEMA Quality

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S2 System: 400A Sub Main Distribution Board

Ratings: U: 690 V, Ump: 6 kV, Uie: 415 V, Incoming unit: 400 A, low 42 kA – 1.0 s, loc: incoming unit 50 kA at 415 V, loc: outgoing units 3036 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9, 10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902-04-INC, dated 6 April, 2011.

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Amhem, 6 April, 2011

Number: 2137902-103
DEKRA Certification B.V.

F. S. Strikwerda
Certification Manager

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CAMGRO S2 SYSTEM
400A Sub Main Distribution Board

KEMA Quality

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S3 System: 630A Sub Main Distribution Board

Ratings: U: 690 V, Ump: 6 kV, Uie: 415 V, Incoming unit: 630/800 A, low 50 kA – 1.0 s, loc: incoming unit 50 kA at 415 V, loc: outgoing units 3036 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9, 10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902-04-INC, dated 6 April, 2011.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 6 April, 2011

Number: 2137902-104
DEKRA Certification B.V.

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Certification Manager

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CAMGRO S3 SYSTEM
630A Sub Main Distribution Board

KEMA Quality

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S4 System: 800A Sub Main Distribution Board

Ratings: U: 690 V, Ump: 6 kV, Uie: 415 V, Incoming unit: 800 A, low 50 kA – 1.0 s, loc: incoming unit 50 kA at 415 V, loc: outgoing units 50 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (U.A.E.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9, 10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with their relevant product standard, is not part of this project

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Amhem, 6 April, 2011

Number: 2137902-105
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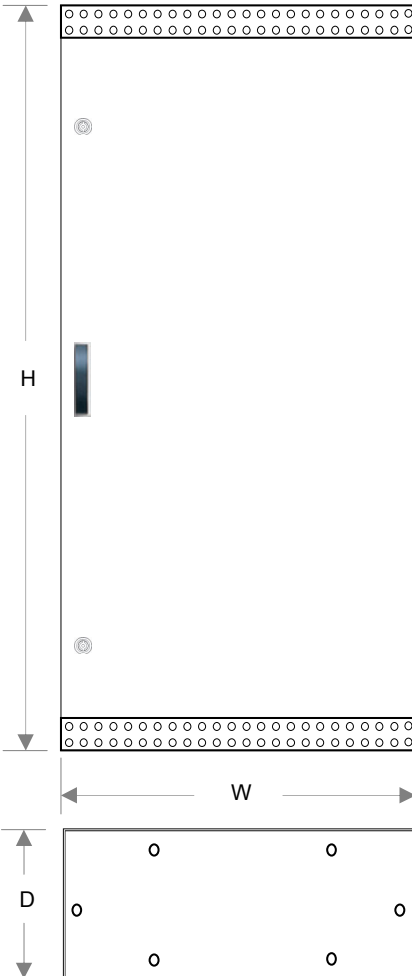
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CAMGRO S4 SYSTEM
800A Sub Main Distribution Board

Dimensions

Enclosure size.



Incomer Busbar Rating	No. of Outgoings in TP	Sub Main Distribution Board dimensions are in "mm"								
		Economy			Standard * Up To 250A			Standard & Economy * Up To 250A		
		W	H	D	W	H	D	W	H	D
250A	4 Way	740	985	220	800	1045	250	800	1045	250
	6 & 8 Way	740	1135	220	800	1250	250	800	1250	250
	10 & 12 Way	740	1285	220	800	1465	250	800	1465	250
	14 & 16 Way	740	1435	220	800	1675	250	800	1675	250
400A	4 Way	740	1180	220	800	1240	250	800	1240	250
	6 & 8 Way	740	1330	220	800	1450	250	800	1450	250
	10 & 12 Way	740	1480	220	800	1660	250	800	1660	250
	14 & 16 Way	740	1630	220	800	1870	250	800	1870	250
630A	4 Way	740	1180	220	800	1240	250	800	1240	250
	6 & 8 Way	740	1330	220	800	1450	250	800	1450	250
	10 & 12 Way	740	1480	220	800	1660	250	800	1660	250
	14 & 16 Way	740	1630	220	800	1870	250	800	1870	250
800A	4 Way	800	1320	400	1000	1370	400	1000	1370	400
	6 & 8 Way	800	1470	400	1000	1580	400	1000	1580	400
	10 & 12 Way	800	1620	400	1000	1790	400	1000	1790	400
	14 & 16 Way	800	1770	400	1000	2000	400	1000	2000	400

* 400A / 630A available in 800A Sub Main Distribution Board on request.

* Dimensions will vary for 400A / 630A please consult us.

Contact us

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