

Quotation

Customer Name: Electro Systems

Date:	16/09/2025
Quote ref #:	Mod25090954
Customer ID:	Electro Systems
Valid Until:	16/12/2025
From:	Bongani Themba

Dear Eduan

With reference to your request for a quotation; We hereby have the pleasure of quoting you the following price:

<u>Description</u>	<u>Qty</u>	<u>Weight</u>	<u>Price (ea.)</u>	<u>Total</u>
Front End Electrical Control Panel	1	1293kg	R363,453.00	R363,453.00

Total : R363,453.00 net excl. VAT. ROE R1 = DKK0.35

Fixed Equipment - Delivery 6-8 weeks or 4 weeks after last ACB delivery (whichever is later)
Withdrawable Equipment - Delivery 18-20 weeks or 4 weeks after last ACB delivery (whichever is later)

Should you have any question to the above and below quotation, please feel free to contact me by phone or email.

Best regards

Ananda Daly



Electro Modular Nelspruit

Mobile : +27 66 483 5711

Email : estimator@electromodular.co.za

Authorized supplier for

Logstrup

Attention:

1. All circuit breakers above 700A will be mounted and fitted with copper. The circuit breakers are to be free issued with vertical connections.
2. The pricing is based on the information supplied to us. All designs are to be checked and confirmed by the purchaser.
3. Unless priced as separate line item, no transport has been allowed for. Suitable specialist transport is to be arranged by the Purchaser. These loads are inherently heavy and difficult to transport.
4. Delivery is calculated on current factory loading and will be verified when the order is placed.
5. 4.5mm Aluminum gland plates are included on the incomers.
6. Site Work is NOT included.
7. MCC's will not be released until a release document has been signed. Inspection can be done via a site visit, Video or Photo Inspection.

Commercial Terms	Electro Systems Modular Standard Terms & Conditions will apply for terms and conditions not specifically noted in this quotation.
Price	The quoted prices are net prices in Rand excl. Vat. Packing and Crating is excluded.
Terms of Delivery	Delivery is Ex. Works Nelspruit.
Exchange rate	75% of the price is subjected to the rate of change.
Terms of Payment	C.O.D. without account. Account holders = 30 Days from date of invoice with no settlement discount and penalty clauses. Overdue accounts to be charged at 2,5% interest per month.
Weight	The weight is indicative and an accumulation of net weight of included Løgstrup parts, (excl. packing material).
Copper	<p>Copper Busbar rails are priced on today's market price (LME).</p> <p>Electro Modular reserves the right to align the copper prices according to market prices at the time of order.</p> <p>Included at "net" quantity and volume. This means that "scrap" due to the actual cutting lengths is not considered.</p> <p>In some cases, this may lead to slightly higher required copper usage than stated in the quotation.</p>

General Clarifications

This quotation is based on the Løgstrup modular system, designed and manufactured of high-quality Motor Control Centers parts.

The system is designed to meet or exceed the requirements within IEC 61439-1 for low voltage enclosures. It is the responsibility of the customer to meet additional standards and any local codes.

The overall design configuration and optional features in this quotation are based on our interpretation of customer specifications. Any significant deviations that we are aware of will be listed separately in the relevant section. It is however still the responsibility of the customer to review the quotation and ensure that our design proposal meets the intended requirements.

This quotation is based on delivery of the modular system, mechanically assembled according to attached drawing.

Mechanical Design General

Please refer to the attached general arrangement drawings for details regarding the dimensional layout of each individual panel board.

Structure							
	Material	Thick (mm)	Paint			Gasket	IP Rating
			Non	Colour	Thick (µ mm)		
Base	Steel	2.5		RAL 9005	60-80		
Frame	Aluzinc	2.0	X				
Covers							
Front	Aluzinc	1.6		XXX	50-60	X	5X
Side	Aluzinc	1.6		XXX	50-60	X	5X
Rear	Aluzinc	1.6	X			X	4X
Top	Aluzinc	1.6	X			X	4X
Internal	Aluzinc	1	X				2X
Doors	Aluzinc	1.6		XXX	50-60	X	4X
Plate / Gland Plates							
Incomer	Aluminum	4.5	X			X	
Wireways	Aluzinc	2.0	X			X	
Mounting	Aluzinc	2.0	X				

XXX - Standard colours are B-26 Electric Orange, RAL 7035, RAL 7032. Non-Standard Colours will be quoted separately.

Corrosion

The Løgstrup plates and doors are tested according to ISO 12944 for corrosion environmental class C4 giving an expected lifetime of more than 15 years in an indoor coastal area with industry like shipyards and chemical plants by 1000h in salt mist solution according to ISO 7253.

Locking type

Single point lock type 8mm square manual lock
4-point locking device type
ALL lever handle with 8mm square lock insert.

Characteristics						
Location	Indoor					
Temp	35°C average over 24 hours					
Altitude	≤2000m					
Protection	Arc Resistant			Non-Arc Resistant		
				X		
Bucket Mounting	Fixed			Draw-out		
	X					
Form of Separation	2A	2B	3A	3B	4A	4B
				X		
Access	Front	Rear		Front and Rear		
	X					
Cables	Bottom	Top		Single	3-core	
Incoming	X					
Outgoing						

Standards			
	Standards	Class	Comply
Electrical	IEC 61439-1/2		X
	IEC/TR 61641	C	
	IEC 60364-3		X
	IEC 62208		X
	IEC 60529		X
Corrosio n	ISO 12944	C4	X
	ISO 7253		X
Seismic	IEC 721-2-6	Z1	X
	UBC 2		X
ROHS			

Busbar Design

Løgstrup main and distribution busbars are based on 12mm copper rails, using 2, 2x2 or 3x2 bars per phase. Cu.

Busbar

Please refer to the attached general arrangement drawings for placement, dimensions, ampere ratings and short circuit levels of the busbar system.

Vertical distribution busbars

Vertical busbars for withdrawable/removable units are tinned in order to avoid oxidation of the copper bars and ensure clean and efficient contact surface on future connection points.

Vertical Busbar Connections

The connections between fixed type equipment and vertical busbars are excluded. The connection points on the Vertical Busbars are included, in the form of a BCB Connector. The cables between the BCB Connector and the Bucket are excluded.

Earthing

In accordance with IEC 60364-3, the protective circuit is a TN-S system, with separate neutral and protective bus bars throughout the system.