



Enclosed Automatic Transfer Switch

ABOUT US

L&T Electrical & Automation (E&A) is a market leader for electrical distribution, monitoring and control solutions in the low voltage category.

Popular among customers as L&T Switchgear, E&A offers a wide range of low and medium voltage switchgear, motor starters, electrical systems, industrial automation, building electrical solutions, energy management solutions, electrical modernization solutions and metering solutions. Its products and solutions cater to key sectors of economy like industries, utilities, infrastructure, building and agriculture.

E&A's manufacturing operations at Navi Mumbai, Ahmednagar, Vadodara, Coimbatore and Mysuru in India adhere to global practices of excellence and receive support from well-equipped in-house design and development centres as well as tooling facilities that contribute to precision in manufacturing.



Switchgear Factory, Navi Mumbai



Switchgear Factory, Ahmednagar



Switchgear Factory, Vadodara

SWITCHGEAR TRAINING CENTRES

L&T Electrical & Automation, India's leading switchgear company, is dedicated to promoting excellence in among the fraternity of electrical practitioners. Beginning with a single Switchgear Training Centre (STC) in Pune in 1986, the initiative has grown to cover 6 state-of-the-art facilities at strategic locations across the country.

The STCs offer a wide range of courses with hands-on training for students, electricians, electrical engineers, panel builders and consultants. A cutting-edge curriculum, refreshed regularly, helps enhance on-site electrical safety, system reliability and cost efficiency.



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Introduction

Rapid industrialization and urbanization are leading to ever-rising demand for reliable electricity.

Technological advancement and changing lifestyles have given rise to many applications which demand 24 X7 uninterruptible power supply. In some industries, power outages for even short duration may lead to considerable commercial losses.

E&A's Enclosed Automatic Transfer Switch(ATS) constantly monitors the incoming power sources and seamlessly switches the load to the 'back-up' supply when it senses variation or abnormality in the main supply. Once main supply is restored, the load is automatically shifted to the main supply.

Option of priority source selection and swapping gives additional flexibility to suit different site requirements.

These switches are very convenient to use as one does not have to manually operate the switch.

The typical applications are in critical processes in various industries and also in growing residential, commercial & infrastructure segments.

Enclosed Automatic Transfer Switch (ATS):

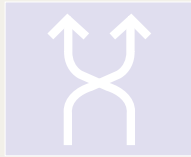
E&A's C-Line Motorised Changeover switch alongwith AuxC 2000 controller is completely pre-programmed and pre-wired Automatic Source Transfer Solution.

What's more is that the complete ensemble is mounted in a smart engineered SS enclosure providing a ready, convenient -to-use solution.

Automatic Solution | Pre-wired | Flexible Settings

Enclosed Automatic Transfer Switch

Range:
125A to 630A,
415V AC



Flexibility

- Priority Source Selection
- Adjustable Time Delay (0.1 sec to 3 hours)
- Suitable for 3-Phase as well as 1-Phase Sources



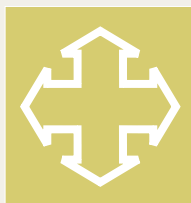
Performance

- Double-Break Contact System offering High Short-time withstand (I_{cw})
- High Mechanical & Electrical Life: Double than requirement of IS/IEC Standard
- Suitable for Aluminium Termination



Safety

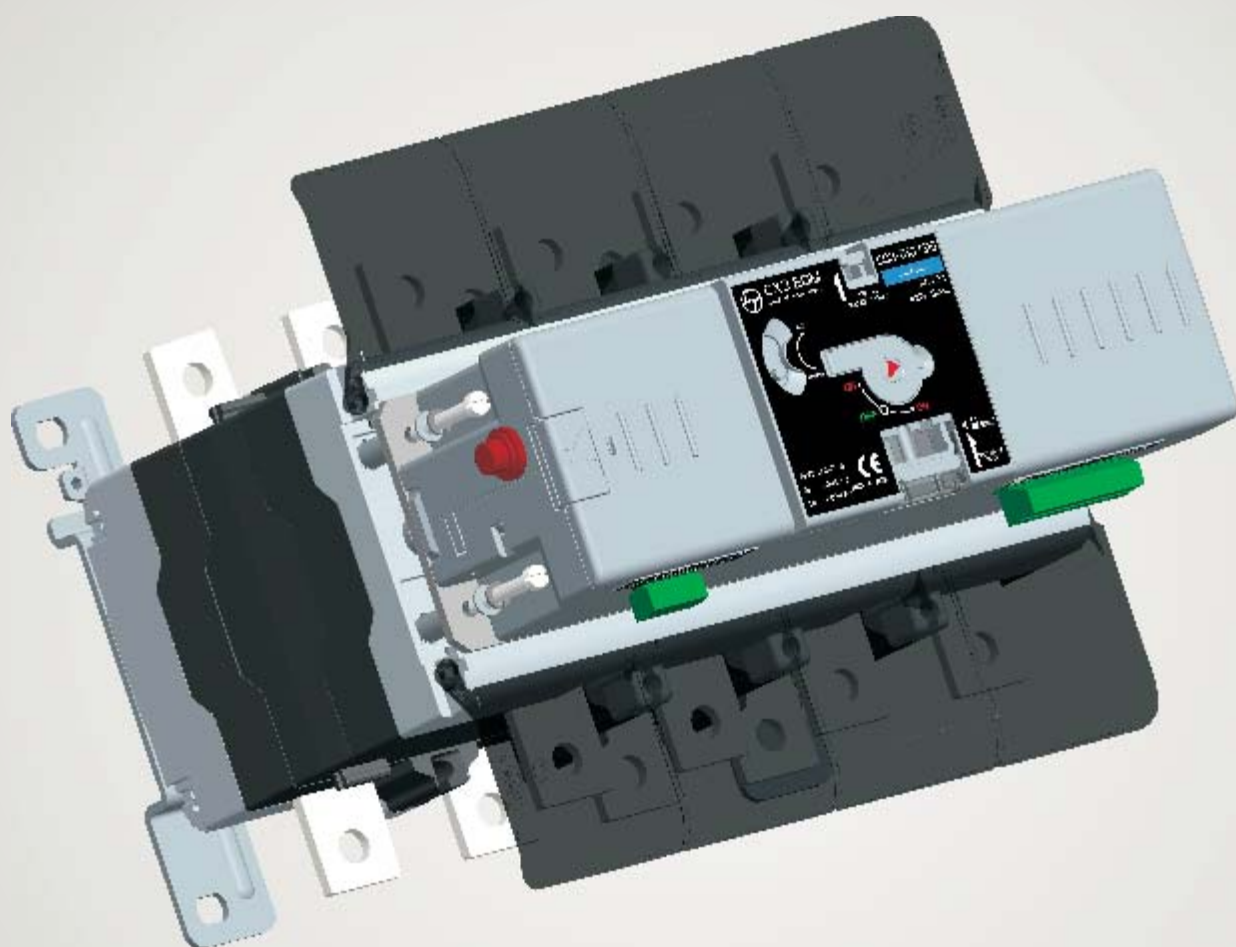
- Protections : UV/OV, Phase Sequence, Single Phasing, Frequency
- Authorized Access Control through Password Protection
- Inbuilt Terminal Shrouds, Phase Barriers & Source Separator

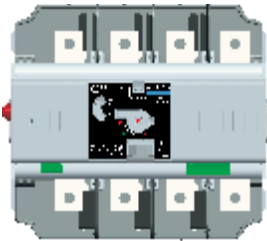


Convenience

- Ample Space for Cable Termination, No need of Separate Cable Gland Box
- Ease of Generator Control (ON-OFF Cooling Cycle, Self-Test)
- Cyclic Event Logger : Logs 100 Events

Motorised Changeover Product Features





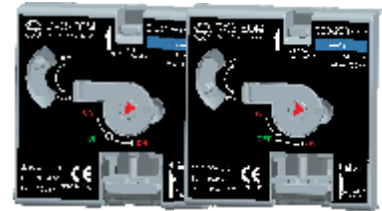
Clear termination access

Motorised kit (EOM) fits well within the body of the manual changeover switch, enabling clear access to the terminals even after mounting the motorised kit



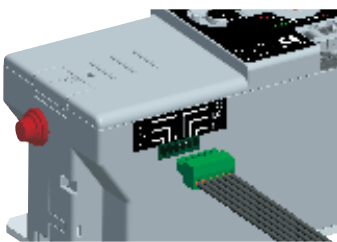
Manual override

Manual operation of motorised changeover switch is also feasible through the manual override feature. As a safety feature, the control supply of motorised kit (EOM) is automatically cut off during the insertion of handle



Manual and Auto mode selection

The selector switch enables/disables the control supply to motorised changeover switch. Electrical operation is possible only in auto mode while manual mode allows the user to operate the motorised changeover switch manually using the handle safely by cut-off of control supply to motorised changeover switch



Auxiliary contacts

It consists two sets of changeover contacts one for each S-D. It is prewired and prefitted in motorised changeover switch



Pad locking

Provision for padlocking in OFF position with three padlocks of Ø5 to Ø7. Padlocking possible in both auto and manual mode



Fuse protection

Inbuilt glass fuse of 5 x 20 size protects the motorised kit (EOM) during abnormalities. Also, spare fuse holder has been provided for storage of fuse

AuXC-2000 Controller



E&A's micro-processor based Automatic Transfer Controller AuXC-2000 in E&A Enclosed ATS is the answer to all auto source transfer requirements.

AuXC-2000 Controller

Intuitive user interface

- 5 keys navigation keypad for parameters setting
- 128x80 pixel, Backlit LCD screen with 4 Grey levels

Status at a glance

- 4 LEDs for plant synoptic (source line and ATS status)
- 2 LEDs for alarm presence and AUTO mode active

Flexibility to suit site conditions

- Suitable for switching between Utility-Utility or Utility-Generator Genset-Genset
- Selection between auto and manual mode of switching
- Enabling and disabling of priority supply
- Settable transition time for allevents

Programmable digital inputs, outputs & alarms to control changeover device

- 6 programmable digital inputs
- 6 + 1 digital outputs:
 - 6 relay with NO contact (8A, 250V AC)
 - 1 relay with changeover contact (8A, 250V AC)
- 18 alarms (4 user programmable alarms)

Password access to prevent any unauthorized access

- The password is used to enable or disable the access to setting menu and to commands menu

Generator setup

- Management of generator set start-stop & cooling cycle
- Management of automatic test for generators with emergency and rotation

Failure simulation

- Test the changeover setup without connecting actual load

Event Logger

- Storage of last 100 events

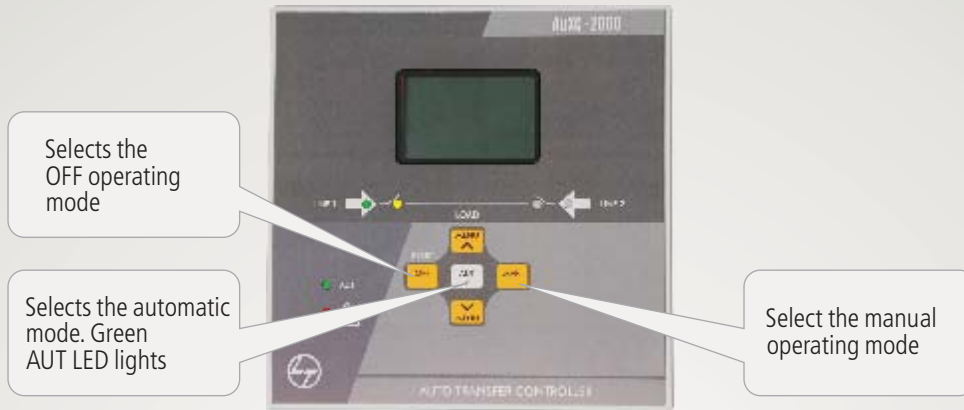
Measuring accuracy	
Mains and generator voltage	±0.25% f.s. ±1digit
Real time clock	
Energy storage	Back-up capacitors
Operating time without supply voltage	About 5 minutes
Digital inputs: terminals 15 - 20	
Input type	Negative
Current input	≤8mA
Input "low" voltage	≤2.2
Input "high" voltage	≥3.4
Input delay	≥50ms
OUT1 and OUT 2 outputs: terminals 9,10 e 11,12	
Contact type	2 x 1 NO
Rated current	AC1 - 8A 250V~ DC1 - 8A 30V= AC15 -1.5A 250V~
Max rated voltage	300V~
Mechanical / electrical endurance	1x10 ⁷ / 1x10 ⁵ ops
OUT3 output: terminals 22, 23, 24	
Contact type	1 changeover
Rated current	AC1 - 8A 250V~ DC1 - 8A 30V= AC15 -1.5A 250V~
Max rated voltage	300V~
Mechanical / electrical endurance	1x10 ⁷ / 1x10 ⁵ ops

OUT4 and OUT 5 outputs: terminals 25,26,27	
Contact type	2 x 1 NO + contact common
Rated current	AC1 - 8A 250V~ DC1 - 8A 30V= AC15 -1.5A 250V~
Max rated voltage	300V~
Mechanical / electrical endurance	1x10 ⁷ / 1x10 ⁵ ops
Maximum current at contact common	10A
OUT6 and OUT 7 outputs: terminals 28,29,30	
Contact type	2 x 1 NO + contact common
Rated current	AC1 - 8A 250V~ DC1 - 8A 30V= AC15 -1.5A 250V~
Max rated voltage	300V~
Mechanical / electrical endurance	1x10 ⁷ / 1x10 ⁵ ops
Maximum current at contact common	10A
Connections	
Terminal type	Plug-in / removable
Cable cross section (min... max)	0.2-2.5 mm ²
Tightening torque	0.56 Nm
Housing	
Version	Flushmount
Material	Polycarbonate
Degree of protection	IP40 on front / IP20 terminals
Weight	680g

* Note: This product has been designed for environment A. Use of this product in environment B may cause unwanted electromagnetic disturbances in which case the user may be required to take adequate mitigation measures.

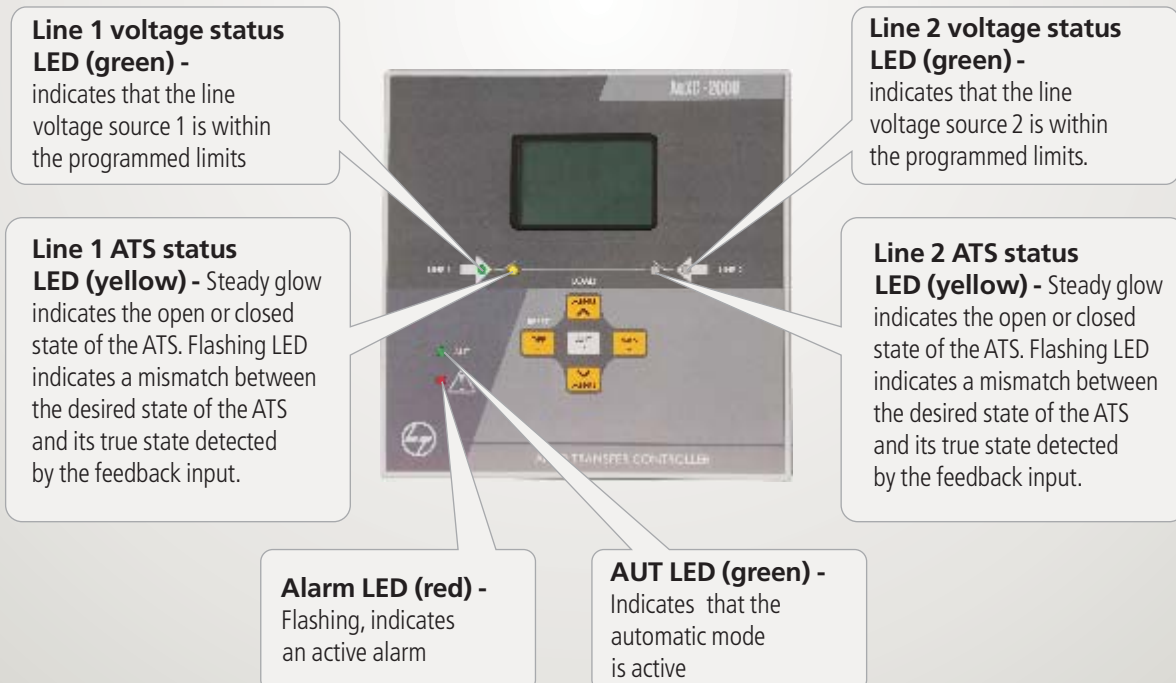
AuXC-2000 Controller

Front buttons functions



▲ and ▼ keys - Used to scroll through the display pages or to select the list of options in a menu. Simultaneously pressing ▼ + ▲ calls up the Main menu with rotating icons

Front LED



Modes of Operation:

OFF Mode:

In this mode, the automatic control is disabled and the controller does not take any action. All views of the measures and the status of the LEDs remain active.

To access the programming/settings menu, it is mandatory to operate in OFF mode.

Pressing the OFF-RESET button resets the retentive alarms, provided the conditions that generated the alarm have been removed.

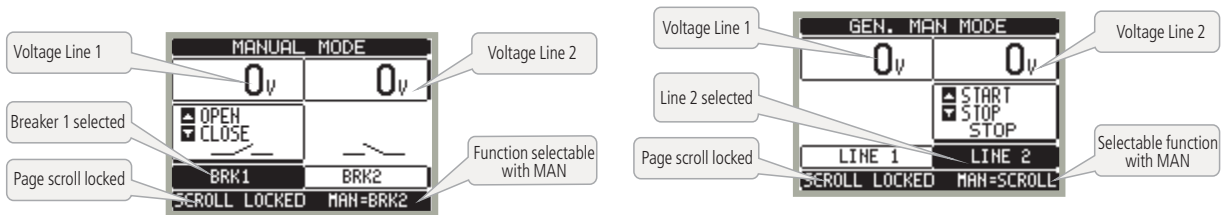
Manual Mode:

In this mode, the ATS can be manually controlled by the pressing the MAN key.

Closing/opening operation can be done by:

- Selecting the switch position
- Pressing the up and down buttons to confirm the closing or opening operation

The generators can also be controlled manually by moving on the page start/stop groups.



Auto Mode:

The AUT mode is indicated by the green LED for AUT. In automatic mode, the controller automatically gives command for opening & closing of the ATS. When the priority line voltage is out of bounds for a time longer than that specified (line presence green LED turns off), the unit disconnects the load from the priority line and connects it to secondary line considering start-up of generator (if programmed) and interlock time delay. When the priority line returns within the programmed limits, the controller will switch back the load on it.

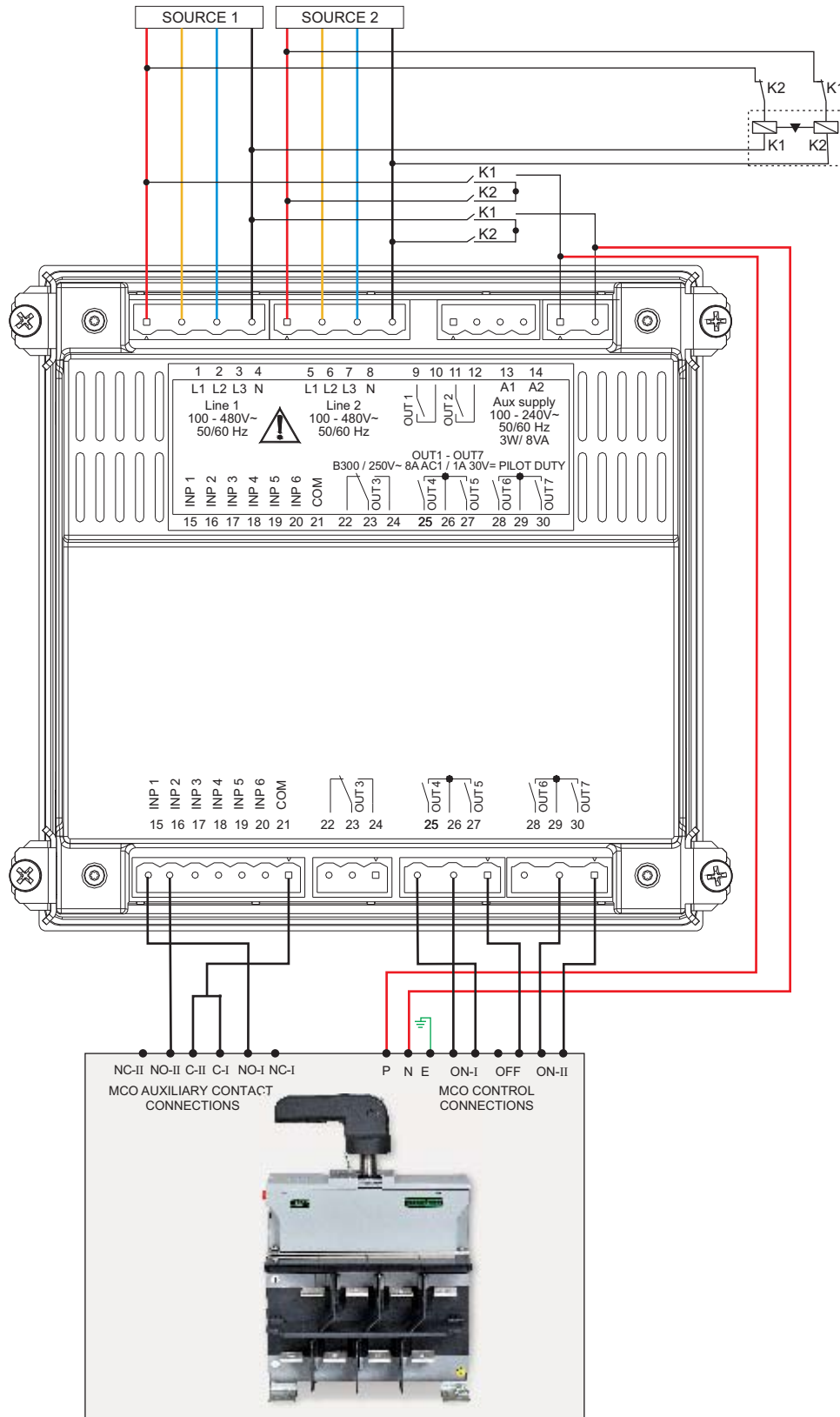
The cycles of automatic operation vary according to the type of application (utility-utility, utility-generator, generator generator).

Enclosed Automatic Transfer Switch

Rating(A)	Unit	
Reference Standards		
Type Designation		
No. of Poles		
Rated Operational Voltage(Ue) (power circuit)		
Rated Impulse Withstand Volatge(Uimp) (power circuit)	(V)	
Rated Operational Voltage(Ue) (control circuit)	(kV)	
Rated Impulse Withstand Volatge(Uimp) (control circuit)	(kV)	
Rated Frequency	(Hz)	
Pollution Degree		
Conventional enclosed thermal current at 40°(Ithe)	(A)	
Rated Operational Current(I the) according to IS/IEC: 60947-3		
415Vac, AC-21A / AC-22A / AC-23A	(A)	
Rated Operational Current(I the) according to IS/IEC: 60947-6		
415Vac, AC-31B	(A)	
415Vac, AC-31A	(A)	
415Vac, AC-32B	(A)	
Rated breaking capacity for AC-23A	(A)	
Rated making capacity for AC-23A	(A)	
Short time withstand, Icw	1 sec	(kA rms)
	0.2 sec	(kA rms)
Short-circuit making capacity, Icm	(kA peak)	
Endurance (category AC 23A)	Mechanical	(O-I-O-II-O cycle)
Endurance (category AC 23A)	Electrical	(O-I-O-II-O cycle)
Rated fused short-circuit current at 415V, 50/60 Hz	DIN/Cylin	(kA rms)
Operating torque	(N-m)	
Weight	(kg)	
Rated Control Voltage	(V)	
Control Voltage Range	(%)	
Max. Current at 240V ac	(A)	
Operating time	O-I / I-O	(sec)
	I-II / II-I	(sec)
Black out time	(sec)	
Termination		
Maximum Al. cable with lug	(sq. mm)	
Maximum link width	(mm)	
Maximum link thickness	(mm)	
Termination tightening torque	(N-m)	

Frame 2			Frame 3		Frame 4	
125A	160A	200A	250A	315A	400A	630A
IS / IEC 60947-3, EN 60947-3, IS / IEC 60947-6-1, EN 60947-6-1						
ATS-125	ATS-160	ATS-200	ATS-250	ATS-315	ATS-400	ATS-630
4 Pole	4 Pole	4 Pole	4 Pole	4 Pole	4 Pole	4 Pole
415	415	415	415	415	415	415
12	12	12	12	12	12	12
4	4	4	4	4	4	4
50/60	50/60	50/60	50/60	50/60	50/60	50/60
3	3	3	3	3	3	3
125	160	200	250	315	400	630
125	160	200	250	315	400	630
125	160	200	250	315	400	500
125	160	200	250	315	400	500
125	160	200	250	315	400	500
1000	1280	1600	2000	2520	3200	5040
1250	1600	2000	2500	3150	4000	6300
8	8	10	16	18	22	26
18	18	18	28	28	35	35
14	14	17	32	36	46	55
16000	16000	16000	16000	16000	10000	10000
2000	2000	2000	2000	2000	2000	2000
100	100	100	100	100	100	100
10	10	10	20	20	28	28
18.2	18.2	19.0	29.5	30.0	41.3	41.6
240	240	240	240	240	240	240
85%-110%	85%-110%	85%-110%	85%-110%	85%-110%	85%-110%	85%-110%
2	2	2	2	2	2	2
1.5	1.5	1.5	1.6	1.6	1.7	1.7
2.5	2.5	2.5	2.5	2.5	2.5	2.5
2.2	2.2	2.2	2.2	2.2	2.2	2.2
95	95	150	185	240	2 X 300	2 X 300
30	30	30	40	40	50	50
5	5	5	8	8	8	2 * 8
10	10	10	20	20	27	27

Wiring Diagrams & Control Logic



Pre-programmed Parameters

Programing	Connection Terminal	Code	Setting (Description)
Inputs	15(INP1)	M10>> P10.01.01	Line 1 closed (Feedback 1)
	16(INP2)	M10>> P10.02.01	Line 2 closed(Feedback 2)
Outputs	25(OUT4)	M11>> P11.04.01	Close line 1
	27(OUT5)	M11>> P11.05.01	Open line 1 / line 2
	30(OUT7)	M11>> P11.07.01	Close line 2
Others	—	M05>> P05.07	Changeover Pulse

Time Delay Setting

Parameter	Code	Preprogrammed	Available Setting
Line 1 to Line 2 interlock time	M05>>P05.03	0.1	0.1....1800Sec
Line 2 to Line 1 interlock time	M05>>P05.04	0.1	0.1....1800Sec
Presence delay (When Line 2 source not available)	M06>>P06.07	1	1....6000Sec
Presence delay (When Line 2 source available)	M06>>P06.08	1	1....6000Sec
Presence delay (When Line 1 source not available)	M07>>P07.07	1	1....6000Sec
Presence delay (When Line 2 source available)	M07>>P07.08	1	1....6000Sec

Protection Parameter Setting

Parameter	Code	Preprogrammed
Phase Sequence Control	M02>>P02.05	OFF
Undervoltage setting for Line 1	M06>>P06.01	85%
Overvoltage setting for Line 1	M06>>P06.04	110%
Undervoltage setting for Line 2	M07>>P07.01	85%
Overvoltage setting for Line 2	M07>>P07.04	110%

General Control Setting

Parameter	Code	Preprogrammed	Available Setting
Select Nominal Voltage	M02>>P02.01	415	50-5000 V AC
Select Voltage Control Mode	M02>>P02.07	L-L	L-L L-N L-L+L-N
Select Priority Line	M05>>P05.02	-1-	-1- Line 1 -2- Line 2

Generator Start/Stop Control

Parameter	Code	Preprogrammed	Comments
Digital Output 3 (Terminal No. 22 & 23)	M11>> P11.03.01	Start/Stop remote control of line 2 generator	Hardwire to generator controller for ON/OFF Control
Digital Input 6 (Terminal No. 20 & 21)	M10>> P10.06.01	Generator ready 2	Hardwire for generator status feedback

Note : Refer AuXC2000- Automatic Transfer Controller Manual for further details and complete settings/programming parameters

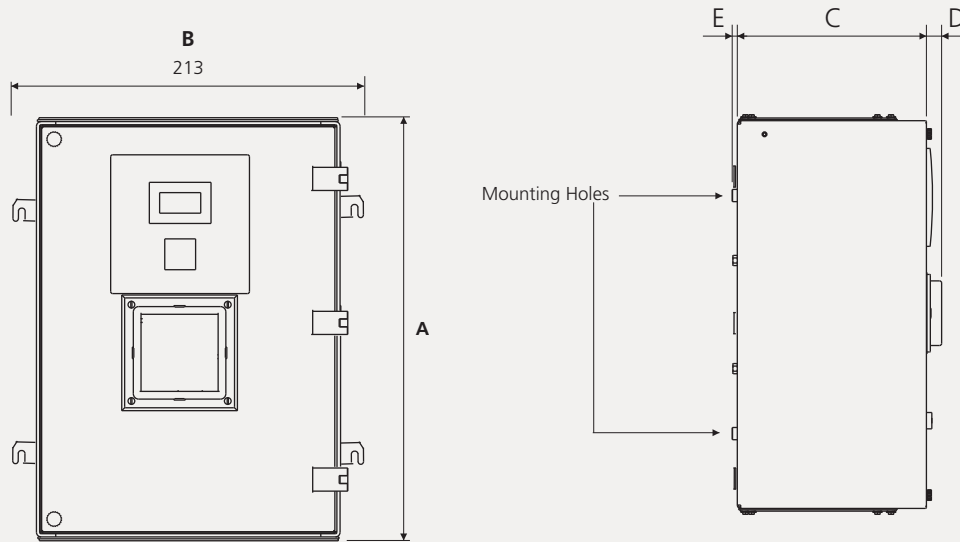
Ordering Information

Description	CAT No.
Enclosed ATS, Frame 2, 125A	CK90161BSOO
Enclosed ATS, Frame 2, 160A	CK90162BSOO
Enclosed ATS, Frame 2, 200A	CK90163BSOO
Enclosed ATS, Frame 3, 250A	CK90164BSOO
Enclosed ATS, Frame 3, 315A	CK90165BSOO
Enclosed ATS, Frame 4, 400A	CK90166BSOO
Enclosed ATS, Frame 4, 630A	CK90167BSOO

Cat. Nos. for Accessories

Rating (A)	125	160	200	250	315	400	630
HANDLE	CK903740000					CK903780000	
AuXC-2000 CONTROLLER	ATC20000000					ATC20000000	

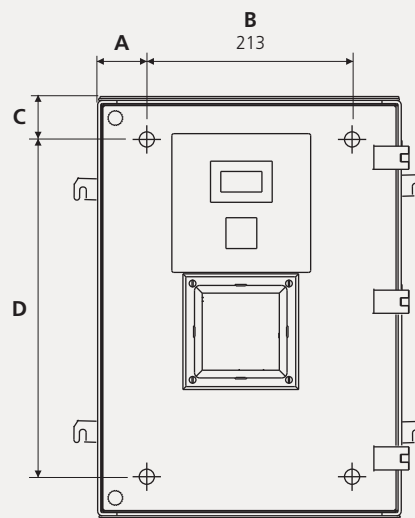
Enclosed ATS Overall Dimensions



RATING (A)	A	B	C	D	E	MOUNTING HOLE SIZE
125/160/200	439	409	243	66	7.5	M8
250/315	578	486	278	66	7.5	M8
400/630	740	561.2	297	66	7.5	M8

Dimensions for Enclosure Mounting

RATING(A)	A	B	C	D
125/160/200	51	213	44.5	350
250/315	88.5	213	114	350
400/630	59.5	346	70	600

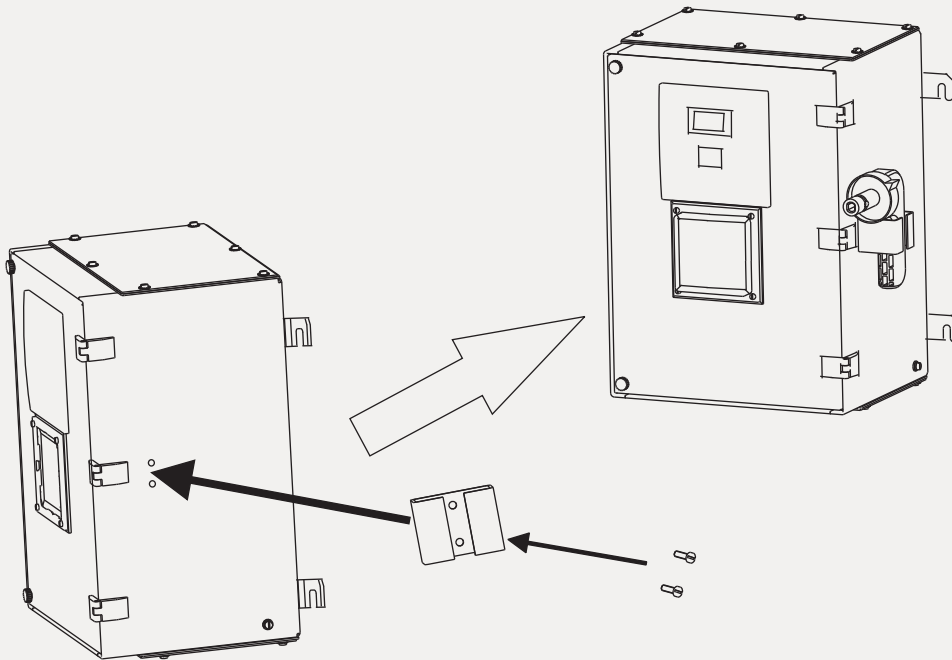


Enclosed ATS

Handle Clamp & IP Cover Mounting

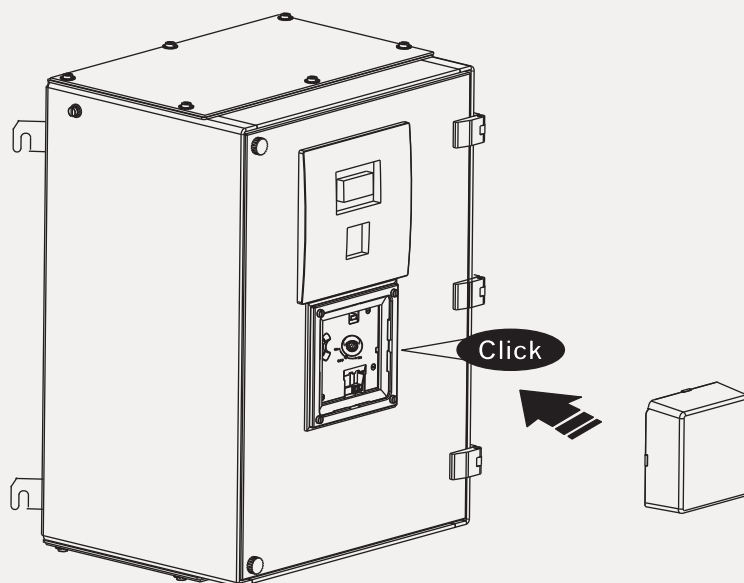
Clamp Mounting for Handle

- Remove the screws and fix clamp to the enclosure as shown.
- Keep the handle inside the clamp when not in use.



IP Cover Mounting

Insert the IP cover as shown



Caution: Remove IP cover for manual operation.

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