AUTOMATIC CHANGEOVER WITH CURRENT LIMITER

The best solution for frustrating manual source changeovers.

IMPROVED CONVENIENCE OF AUTOMATIC SOURCE CHANGEOVER.

- Microprocessor based ACCL with current limiter
- Intelligent tripping: inverse curve (Higher the overload, faster the trip)
- Inbuilt display of A, V, F, Wh, kWh
- Under/over voltage protection for EB and DG (M300L &M300)
- Single phase contactor based ACCL with off-load switching (400C)
- On site field programmable features in single phase ACCL through configurator (ACCl 400 & 400C)

PROTECTION OF EQUIPMEMT FROM HAZARDOUS POWER SURGES.

- Conformity standard as per IEC 60947-6-1
- Wide range of operational voltage 155-285VAC(M300L)
- Optional prepaid billing feature for DG (RS-485) with software
- More than 20000 operations
- Display of overload information for both EB and DG, along with phase indication.

RUGGED DESIGN FOR MAXIMUM PERFORMANCE AND RELIABILITY.

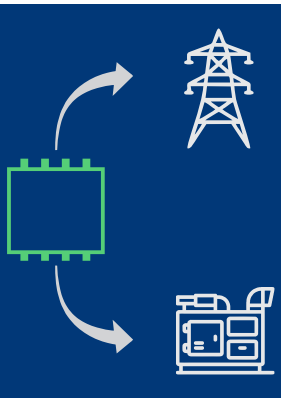
- Installation is done as DIN rail for single phase and surface mountable for 3 phase (Optional DIN rail for 3 phase up to 40A).
- Eco friendly thermoplastic and fire retardant enclosure.
- Reason for trip is displayed.
- Plugable RS 485 communication. (Optional)
- Protection against neutral current flow beyond threshold.

CONFIG
On-site settings

32A 125A RANGE
Wide range of applications

PROTECTION
Against fluctuations

FOR A SEAMLESS, CHANGEOVER BETWEEN POWER SOURCES.



Features

Three Phase ACCL

iACCL M300L, A300, M300

- Micro controller based automatic source changeover with neutral isolation
- Intelligent re-connection once trip occurs, either due to over voltage or over load
- Energy, Current, Voltage measurement for DG & Current , Voltage measurement for EB (M300)
- Dual Source Energy Monitoring on M300L
- Intelligent tripping: Inverse curve (Higher the overload faster the trip)
- Conformity standard as per IEC 60947-6-1
- Manual reset provision when in sleep mode for restoring power supply Or through the mobile app when network is available
- Intelligent changeover with R phase or any one phase failure (Manufacturing option)
- Under/Over voltage and single phase missing & Overload protection for EB and DG(M300, M300L)
- DG delay programmable for each ACCL to avoid loading the generator at a time
- Automatic trip if sum of power circuit and lighting circuit is >32A (single phase / relay version) optional
- DG Phase selection - Programmable
- EB measurement VAF for M300

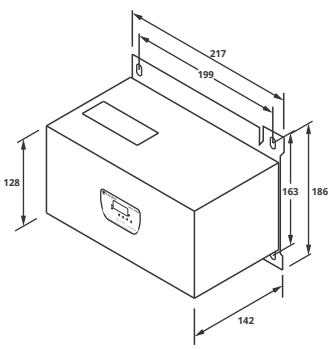
Single Phase ACCL

iACCL 400, 400C, A400, M400,

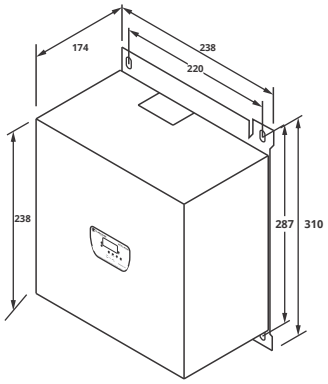
- Under and Over Voltage protection when load is running on DG
- Protect DG with Staggered Delay and Inverse curve Protection
- Reduced wiring complexity and installation time- Terminal 16mm capacity
- Programmable DG current limiting features on site through configuration tool
- EB/DG Input source Interchangeability
- Field configuration through CFG 400 for iACCL 400/400C

Mechanical Specification

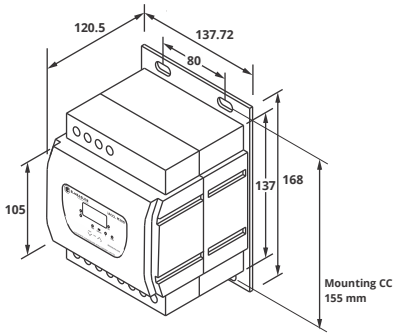
iACCL M300 (80A)



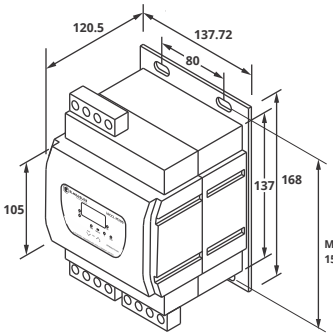
iACCL M300 (100 - 125A)



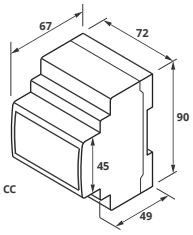
iACCL M300 & M300L (32A-40A)
M330 (40A)



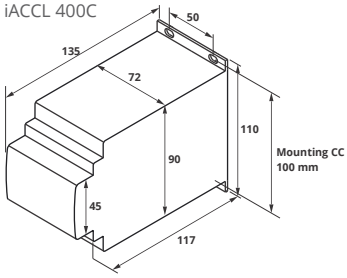
iACCL M300, M300L (63A)



iACCL 400, A400, M400



iACCL 400C



Technical Specification

iACCL	M300L (32/40/63A)	M300 (32/40/63A)	A300 (32/40/63A)	M300 (80A)	M300 (100/125A)	M330
ELECTRICAL CHARACTERISTICS						
DG Maximum Current Limit	32/40/63A	32/40/63A	32/40/63A	80A	100-125A	40A
No. of Poles	4P					EB:4P, DG:1P+N
Rated Operating Voltage	415/240V AC					240A
Rated Frequency	50Hz					
Utilization Category Ac1	32/40/63	32/40/63A	32/40/63A	80A	100-125A	40A
Ingress Protection	IP 20 & Double Insulation (As per IEC 61010-1)					
Accuracy	Class1.0					
PROGRAMMING FEATURES						
Energy Selection	Wh/VAh(EB-DG)	Wh/VAh(DG only)	NA	Wh/VAh(DG only)		
EB / DG Under Voltage	155-210VAC	165-210VAC	NA	165-210VAC		
EB / DG Over Voltage	230-285VAC	240-270VAC	NA	240-270VAC		
DG Maximum Current Limit	32/40/63A			80A	100-125A	40A
EB Maximum Current Limit	32/40/63A		NA	80A	100-125A	40A
DG Transfer Time	1sec-30sec					
Cycle Time	6sec-150sec		7sec-30sec	6sec-150sec		
No. of Cycles	5 to 10		3(Fixed)	5 to 10		
METERING PARAMETERS						
EB Source	V, A, PF, W, VA, Wh	V, A, F	NA	V, A, F		
DG Source	V, A, PF, W, VA, Wh		Current	V, A, PF, W, VA, Wh		
Indication	EB Source, DG Source, Trip, Minus, Communication and Reason for Trip					
COMMUNICATION						
Device ID & Parity	1 to 247 & Odd, Even, None (Preferred Even)					
Protocol & Interface	MODBUS, RTU & Rs485					
Baud Rate	4800 bps to 19200 bps (Preferred 9600 bps)					
Isolation	2000 volts AC isolation for 1minute between communication and Reason for Trip					
DISPLAY						
Display type	LCD	LED 1 Row				
FAULT TRIPPING						
EB Source	OL, UV, OV, Phase missing		NA	OL, UV, OV, Phase missing		
DG Source	OL, UV, OV, Phase missing		Current	OL, UV, OV, Phase missing		
Trip Reset	Reset Key					
MECHANICAL CHARACTERISTICS						
Mounting (vertical)	Surface Mounting					
Outline Dimension in L×W×H mm	168×137×120			186×217×142	310×238×174	168×137×120
Weight	2.1Kg			4.5Kg	7Kg	2.1Kg
Torque	2N-m			2N-m	2.5N-m	2N-m
Wire gauge	6AWG			4AWG	1AWG	6AWG
STANDARDS						
Compliance	IEC 60947-6-1					
USE ENVIRONMENT CHARACTERISTICS						
Temperature	Ambient :- 5 to +55°C, Storage :- 25 to +75°C, Operating :- 10 to +55°C, Operating Humidity :- 5 to 85% RH					
Environment	Class B					
Pollution Degree	2					

Technical Specification

iACCL	400	400C	A400	M400
ELECTRICAL CHARACTERISTICS				
DC Maximum Current Limit	32A			
No. of Poles	1P+N			
Rated Operating Voltage	240V AC			
Rated Frequency	50Hz			
Utilization Category AC1	32A			
Ingress Protection	IP 20 & Double Insulation (As per IEC 61010-1)			
Accuracy	Class 1.0			
PROGRAMMING FEATURES				
Energy Selection	NA			Wh/VAh
DG Under Voltage	NA			170-210VAC
DG Over Voltage	NA			240-270VAC
DG Maximum Current Limit	32A			
EB Maximum Current Limit	NA			
DG Transfer Time	NA		2sec - 30sec	1sec - 30sec
Cycle Time	NA		7sec - 30sec	6sec - 150sec
No. of Cycles	NA		4	5 to 10
METERING PARAMETERS				
EB Source	NA			
DG Source	NA		Current	Current, Voltage, Wh/Vah
Indication	EB Source, DG Source, Trip, Communication and Reason for Trip			
COMMUNICATION				
Device ID & Parity	1 to 247 & Odd, Even, None (Preferreed Even)			
Protocol & Interface	MODBUS, RTU & Rs485			
Baud Rate	4800 bps to 19200 bps (Preferred 9600 bps)			
Isolation	2000 volts AC isolation for 1 minute between communication & other circuits			
DISPLAY				
Display type	NA		3Digit LED	4 Digit LED
FAULT TRIPPING				
EB Source	NA			
DG Source	Over Current (For DG)			OL(DG),UV/OV, Phase Missing
Trip Reset	Reset Key			
MECHANICAL CHARACTERISTICS				
Mounting (Vertical)	DIN-Rail	Surface Mounting	DIN-Rail	
Outline Dimension in LxWxH mm	90x72x67	110x72x135	90x72x67	
Weight	280 grams	700 grams	300 grams	
Torque	1N-m			
Wire gauge	11 AWG			
STANDARDS				
Compliance	IEC 60947-6-1			
USE ENVIRONMENT CHARACTERISTICS				
Temperature	Ambient: -5 to +55°C, Storage: -25 to +75°C, Operating: -10 to +55°C, Operating Humidity: 5 to 85% RH			
Environment	Class B			
Pollution Degree	2			

ENERGY & POWER MONITORS

THD, TDD, TEHD, TOHD, K-Factor, Crest Factor, Harmonics, Sag & Swell, Power Inter.

W, VA, PF, VAR, Wh, Vah, VARh, Load Hours, Load Efficiency, Co2, V2H, A2H, NET Energy, TOTAL Energy.

VLL, VLN, A, Hz, RPM, Angle V/A, Unbalance V/A.

Class A/S Power Analyzers

PQ 8800 PQ 8500

Power Quality Monitors

PN 8700 EN 84XX

Demand Controllers

PN 8700 EN 8400 EN 6400 EN 7500

Gateways

GW 3000X GW 1500 GW 2550

Branch Circuit Power Monitors

ET 5030

Dual Source Energy Meters

LG 25XX LG 25XXD

DC Energy Meters

EDC 2150
EDC 2450 EDC 2450X

Multi-functional Energy Meters

LG 64XX LG 25XX µG 1119 LG 25XXD LG MXX IoT XX

Transducers

TR 1XXX TR 2XXX TR 4200 TR 5200

Isolators

ISO 100 ISO 200

Ammeter / Voltmeter

SL 3V+ SL 3A+ SL3X+

BASIC SL XX+ METERING

MID-LEVEL ENERGY / POWER / PROCESS MONITORING

ADVANCED ENERGY / POWER MONITORING

QUICKLY EXPLORE OUR RANGE OF PRODUCTS.

SWITCHGEARS, PROTECTION, CONTROL & NETWORKING PRODUCTS.

PROTECTION AND CONTROL

Ground Monitoring Device

GMD 10

Earth Leakage Relay

iELR 300

iELR 200D

Load Disconnector

LD 2510D

LD 2310D

Earth Fault Relay

EFR 100

UTILITY / REVENUE METERS

Smart Meters

PE 5121S

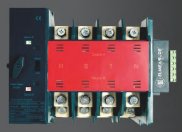
PE 5120S

Prepaid Meters

PE 5121-P

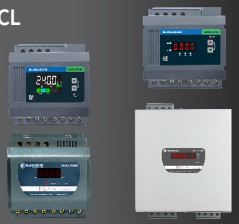
PE 5120-P

SOURCE CHANGEOVER SWITCHES

Automatic Transfer Switches

Solenoid ATS

ATeS (63A - 1600A)

Manual Transfer Switches


ACCL

iACCL M3XX
iACCL M3XX

iACCL 400

iACCL 400C

iACCL M400

LOW VOLTAGE SWITCHGEARS

ACB


MCCB


Switch Disconnector


Overload Relays


EL-Guard


Contactors


ELMEASURE®
Possibilities...Infinite

Registered Address:
Elmeasure India Private Limited,
#47P, KIADB, Huvinayakanahalli,
Jala Hobli, Bagalur - 562149
Bangalore, Karnataka, India.

Visit: www.elmeasure.com

For latest updates, follow us:

PC SCS V5 01 2025