

Features (Three Phase):

- 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 measurement for EB. Optional EB Energy and Voltage measurement for 3 phase.
- 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 protection for EB and DG(M300)
- Programmable threshold setting for both sources independently.
- DG delay programmable for each ACCL to avoid loading the generator at a time.
- Potential free contact for connecting power load only in EB (single phase / relay version) optional(M 100R).
- Automatic trip if sum of power circuit and lighting circuit is >32A (single phase / relay version) optional.
- Individual phase overload monitoring (Any Phase > set current, it trips).
- DG Phase selection Programmable

Unique Features:

- Intelligent Overload tripping with AC1 to AC3 behavior.
- Wide range of operational voltage: (180 260) VAC
- Display of overload information for both EB and DG, along with phase indication.
- Wiring simplicity for lighting and power with common neutral in iACCI M100R Single Phase.
- 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.
- More than 20000 operations.
- Reason for trip is displayed.
- Optional Prepaid feature only for DG
- RS 485 communication.(Optional)
- Protection against neutral current flow beyond threshold.
- EB measurement VAF for M300

iACCL

AUTOMATIC CHANGEOVER WITH CURRENT LIMITER

Current | Voltage | Frequency | Energy

FOR A SEAMLESS, CHANGEOVER BETWEEN POWER SOURCES!

Features (Single Phase):

- 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

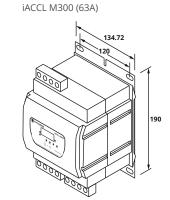
Mechanical Specification:

Single Phase iACCL M400/400 iACCL 400C iACCL M100R

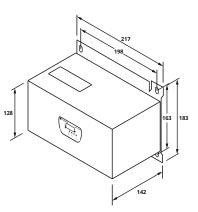
iACCL M300 (32A-40A) | M330 (40A)

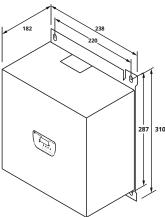
120.5

iACCL M300 (80A)



iACCL M300 (100A)







Technical Specification:

| | B x 2, 2 x 2 | Q. Carlo | 6,6200 | \$1000 DO 8 B | 12 (1 L)M | | | 2000 FE E |
|--|---|-----------------------------|-----------------------|---------------------------|--------------------------|--------------------------|----------------------------|--------------------|
| | ***** | 1005 | 11100 | ANALES OF | 11200 | 5-14200 | 14200 | |
| ELECTRICAL CHARACTERIST | 400 | 400C | M400 | M100 | M300 | M300 | M300 | M330 |
| Rated Current | 25/32A | | | | 40 63A | 80A | 100 125A | 40A |
| No. of Poles | 1P+N | | | 1P+N+1 Power Load | 3P+N | 3P+N | 3P+N | EB:3P+N DG:1P+N |
| Rated Operating Voltage | 240VAC | | | | 415/240VAC | 415/240VAC | 415/240VAC | 415/240VA |
| Rated Frequency | 50Hz | | | | 50Hz | 50Hz | 50Hz | 50Hz |
| Jtilization Category AC1 | 25/32A | | | | 40 63A | 80A | 100 125A | 40A |
| Utilization Category AC3 | 25/32A | 32 40A | 63A | 80A | 32 40A | | | |
| ngress Protection: | IP 20 & Double Insulation (As per IEC 61010-1) | | | | | | | |
| Accuracy | Class 1 | | | | | | | |
| PROGRAMMING FEATURES | | | | | | | | |
| Energy Selection | Wh /VAh | | | | | | | |
| OG under voltage | 170-210VAC 165-210VAC | | | | | | | |
| DG over voltage | 240-270VAC | | | | | | | |
| DG Maximum Current Limit | 25/32A | | | | 40 63A | 80A | 100 125A | 40A |
| EB Maximum Current Limit | | | | | 40 63A | 80A | 100 125A | 40A |
| DG Start time | 1sec-30sec | | | | | | | |
| Cycle time | 6sec-150sec | | | | | | | |
| No. of Cycles | 5 to 10 | | | | | | | |
| DG Selection | NA DG Output selection | | | | | | | |
| METERING PARAMETERS | | | | | | | | |
| B Source | NA | | | | Current | | | |
| OG Source | Current, Voltage | | | | | | | |
| Trip Reset | Reset Key | | | | Reset Key | Reset Key | Reset Key | Reset Key |
| INDICATION | EB Source, DG S | Source, Trip, Minus, Co | mmunication and | Reason for Trip | | | | |
| COMMUNICATION | | | | | | | | |
| Device ID & Parity | 1 to 247 & Odd, | Even, None (Prefered I | Even) | | | | | |
| Protocol & Interface | Modbus. RTU & RS 485 | | | | | | | |
| 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 | LED 1 Row | | | | | | | |
| | 4 | | | | | | | |
| Instantaneous Digits | | | | | | | | |
| Integrated Digits | 4 | | | | | | | |
| FAULT TRIPPING | | | | | | | | |
| EB Source | Over Current, Phase Missing | | | | | | | |
| DG Source | Over Current, L | Inder / Over Voltage, P | hase Missing | | | | | |
| | STICS | | | | | | | |
| MECHANICAL CHARACTERIS | | | | S | urface Mountir | ng | Su | ırface Mount |
| MECHANICAL CHARACTERIS Mounting (Vertical) | Din Rail | | | | | | | 193x144 |
| Mounting (Vertical) | | 110x72 x135 mm | 90x72x67 | 90x90x67 | 193x144 | 186x217 | 240x310 | |
| Mounting (Vertical) Outline Dimension | Din Rail | 110x72 x135 mm | 90x72x67 | 90x90x67 | 193x144 x137 mm | 186x217 x142 mm | 240x310 x182 mm | x137 mm |
| Mounting (Vertical) Outline Dimension n HxWxD mm | Din Rail | | | 90x90x67 350 grams | | | | |
| Mounting (Vertical) Outline Dimension n HxWxD mm Weight in kg | Din Rail 90x72x67 280 grams | 110x72 x135 mm 700 grams | 90x72x67 300 grams | | x137 mm 2.1 kg | x142 mm 4.5 kg | x182 mm 7 kg | x137 mm |
| Mounting (Vertical) Outline Dimension in HxWxD mm Weight in kg Torque | Din Rail 90x72x67 | | | | x137 mm | x142 mm | x182 mm | x137 mm |
| Mounting (Vertical) Outline Dimension n HxWxD mm Weight in kg Torque Wire gauge | Din Rail 90x72x67 280 grams 1 N-m | | | | 2.1 kg 2 N-m | 4.5 kg 2 N-m | x182 mm 7 kg 2.5 N-m | 2.1 kg 2 N-m |
| Mounting (Vertical) Dutline Dimension n HxWxD mm Weight in kg Forque Wire gauge STANDARDS | Din Rail 90x72x67 280 grams 1 N-m 11 AWG | | | | 2.1 kg 2 N-m | 4.5 kg 2 N-m | x182 mm 7 kg 2.5 N-m | 2.1 kg 2 N-m |
| Mounting (Vertical) Dutline Dimension n HxWxD mm Weight in kg Forque Wire gauge STANDARDS Compliance | Din Rail 90x72x67 280 grams 1 N-m 11 AWG | | | | 2.1 kg 2 N-m | 4.5 kg 2 N-m | x182 mm 7 kg 2.5 N-m | 2.1 kg 2 N-m |
| Mounting (Vertical) Outline Dimension n HxWxD mm Weight in kg Torque Wire gauge STANDARDS Compliance USE ENVIRONMENT CHARA | Din Rail 90x72x67 280 grams 1 N-m 11 AWG IEC 60947-6-1 | 700 grams | 300 grams | 350 grams | 2.1 kg 2 N-m 6 AWG | 4.5 kg 2 N-m 4 AWG | 7 kg 2.5 N-m 1 AWG | 2.1 kg 2 N-m |
| Mounting (Vertical) Dutline Dimension n HxWxD mm Weight in kg Forque Wire gauge STANDARDS Compliance | Din Rail 90x72x67 280 grams 1 N-m 11 AWG IEC 60947-6-1 | | 300 grams | 350 grams | 2.1 kg 2 N-m 6 AWG | 4.5 kg 2 N-m 4 AWG | 7 kg 2.5 N-m 1 AWG | 2.1 kg 2 N-m |

