

# DIGITAL INDICATORS

*DIVERSE APPLICATIONS*



# FEATURES – DIGITAL INDICATORS



- Covers a wide range from 10 Hz to 90 Hz for stable system performance.
- Works with 240V AC and 110V AC, ensuring compatibility across industries.
- Essential for industrial automation, electric vehicle chargers, marine & aviation, production lines, and testing labs to ensure operational stability.



- Measures from -50°C to 80°C with high accuracy.
- Supports NTC/Molded sensors with a 1-meter standard wire length for flexible installation.
- Designed with IP65 front protection, ideal for harsh industrial environments.



- Measures 65V AC - 280V AC, 80V AC - 150V AC, and 10V DC - 26V DC, suitable for diverse applications.
- $\pm 1\%$  accuracy ensures reliable voltage readings, preventing electrical failures.
- Used in renewable energy, medical equipment, data centers, construction, and railway systems for stable power monitoring.



- Supports 0A to 100A (with CT) or 0A to 12A for various electrical applications.
- Helps detect abnormal current levels to prevent equipment damage.
- Used in industrial motors, pumps & compressors, HVAC systems, elevators, and manufacturing plants to optimize energy efficiency and safety.



# APPLICATIONS - DIGITAL INDICATORS



**DEEP FREEZERS**



**CONTROL PANEL**



**INDUSTRIAL OVEN**



**UPS SYSTEMS**



**COLD STORAGE**



**EV CHARGING STATIONS**



**PUMP STATIONS**



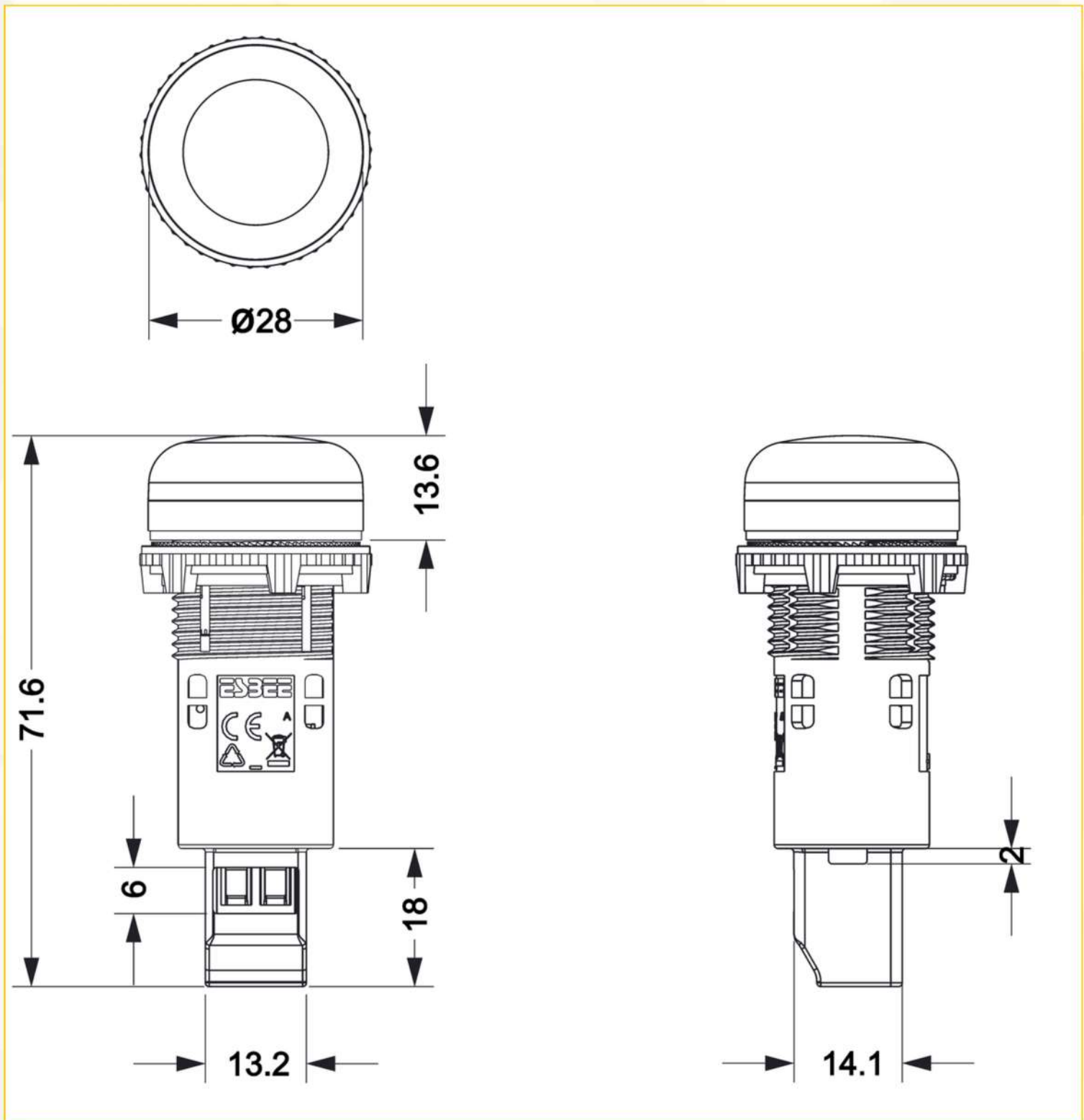
**ELECTRIC MOTORS**



**GENRATORS**



## VIEW &amp; DIMENSIONAL DETAILS



## TECHNICAL SPECIFICATIONS - VOLTAGE INDICATOR

|    |                          |                                                             |
|----|--------------------------|-------------------------------------------------------------|
| 1  | Rated Supply Voltage     | 240 V AC / 110 V AC / 24 V DC                               |
| 2  | Operating Supply Voltage | 65 V AC - 280 V AC / 80 V AC - 150 V AC / 10 V DC - 26 V DC |
| 3  | Input Current            | < 50 mA                                                     |
| 4  | Input Wattage            | 0.6 - 0.9 W / <1 W                                          |
| 5  | Frequency                | 50/60 Hz                                                    |
| 6  | Indicating Voltage       | 65 V AC - 280 V AC / 80 V AC - 150 V AC / 10 V DC - 26 V DC |
| 7  | Tolerance / Accuracy     | $\pm 1\%$                                                   |
| 8  | Surge Test               | 2 KV AS PER IEC 61000-4-5                                   |
| 9  | HV Rating                | 2 KV AS PER IEC 60243                                       |
| 10 | EFT                      | 2KV                                                         |
| 11 | Rated Insulation Voltage | 500 V AC @ 1M $\Omega$                                      |
| 12 | Display Type             | 7 Segment 3 digit                                           |
| 13 | Electrical Life          | 20K under normal operating condition                        |
| 14 | Dimensions               | 63 x 28 mm                                                  |
| 15 | Weight                   | 25 g                                                        |
| 16 | Degree of Protection     | Above Panel: IP65                                           |
|    |                          | For Terminals: IP20                                         |
| 17 | Mounting Details         | Mounting on Panel, 22.5 Dia Hole                            |
| 18 | Connectors               | 2 Pin - screw terminal (<0.75 to 1 sq.mm wire)              |
| 19 | Screw Tightning Torque   | 0.8Nm                                                       |
| 20 | Housing Colour           | Black                                                       |
| 21 | Illuminating lens colour | Red/Yellow/Blue/Green/Amber/White                           |
| 22 | Operating temperature    | -20°C TO 60°C                                               |
| 23 | Storage temperature      | -30°C TO 65°C                                               |
| 24 | Air humidity             | 10% - 95%                                                   |
| 25 | Compliance               | RoHS, CE                                                    |



## TECHNICAL SPECIFICATIONS - CURRENT INDICATOR

|    |                          |                                                             |
|----|--------------------------|-------------------------------------------------------------|
| 1  | Rated Supply Voltage     | 240 V AC / 110 V AC / 24 V DC                               |
| 2  | Operating Supply Voltage | 70 V AC - 270 V AC / 80 V AC - 150 V AC / 10 V DC - 26 V DC |
| 3  | Input Current            | < 50 mA                                                     |
| 4  | Input Wattage            | 0.6 - 0.9 W / <1 W                                          |
| 5  | Frequency                | 50/60 Hz                                                    |
| 6  | Current Indication Range | 0A to 100A with CT for single phase / 0A to 12A             |
| 7  | Tolerance Scope          | $\pm 1$ A                                                   |
| 8  | Surge Test               | 2 KV AS PER IEC 61000-4-5                                   |
| 9  | HV Rating                | 2 KV AS PER IEC 60243                                       |
| 10 | EFT                      | 2KV                                                         |
| 11 | Rated Insulation Voltage | 500 V AC @ 1M $\Omega$                                      |
| 12 | Display Type             | 7 Segment 3 digit                                           |
| 13 | Electrical Life          | 20K under normal operating condition                        |
| 14 | Dimensions               | 63 x 28 mm                                                  |
| 15 | Weight                   | 25 g                                                        |
| 16 | Degree of Protection     | Above Panel: IP65                                           |
|    |                          | For Terminals: IP20                                         |
| 17 | Mounting Details         | Mounting on Panel, 22.5 Dia Hole                            |
| 18 | Connectors               | 2 Pin - screw terminal (<0.75 to 1 sq.mm wire)              |
| 19 | Screw Tightning Torque   | 0.8Nm                                                       |
| 20 | Housing Colour           | Black                                                       |
| 21 | Illuminating lens colour | Red/Yellow/Blue/Green/Amber/White                           |
| 22 | Operating temperature    | -20°C TO 60°C                                               |
| 23 | Storage temperature      | -30°C TO 65°C                                               |
| 24 | Air humidity             | 10% - 95%                                                   |
| 25 | Compliance               | RoHS, CE                                                    |



# TECHNICAL SPECIFICATIONS - TEMPERATURE INDICATOR

|    |                              |                                                             |
|----|------------------------------|-------------------------------------------------------------|
| 1  | Rated Supply Voltage         | 240 V AC / 110 V AC / 24 V DC                               |
| 2  | Operating Supply Voltage     | 70 V AC - 270 V AC / 80 V AC - 150 V AC / 10 V DC - 26 V DC |
| 3  | Input Current                | < 50 mA                                                     |
| 4  | Input Wattage                | 0.6 - 0.9 W / <1 W                                          |
| 5  | Frequency                    | 50/60 Hz                                                    |
| 6  | Temperature Indication Range | -50°C TO 80°C                                               |
| 7  | Tolerance Scope              | $\pm 1^{\circ}$                                             |
| 8  | Sensor Type                  | NTC/ Molded                                                 |
| 9  | Sensor Wire Length           | 1 meter std                                                 |
| 10 | Surge Test                   | 2 KV AS PER IEC 61000-4-5                                   |
| 11 | HV Rating                    | 2 KV AS PER IEC 60243                                       |
| 12 | EFT                          | 2KV                                                         |
| 13 | Rated Insulation Voltage     | 500 V AC @ 1M $\Omega$                                      |
| 14 | Display Type                 | 7 Segment 3 digit                                           |
| 15 | Electrical Life              | 20K under normal operating condition                        |
| 16 | Dimensions                   | 63 x 28 mm                                                  |
|    | Weight                       | 25 g                                                        |
| 17 | Degree of Protection         | Above Panel: IP65                                           |
| 18 |                              | For Terminals: IP20                                         |
| 19 | Mounting Details             | Mounting on Panel, 22.5 Dia Hole                            |
| 20 | Connectors                   | 2 Pin - screw terminal (<0.75 to 1 sq.mm wire)              |
| 21 | Screw Tightning Torque       | 0.8Nm                                                       |
| 22 | Housing Colour               | Black                                                       |
| 23 | Illuminating lens colour     | Red/Yellow/Blue/Green/Amber/White                           |
| 24 | Operating temperature        | -20°C TO 60°C                                               |
| 25 | Storage temperature          | -30°C TO 65°C                                               |
| 26 | Air humidity                 | 10% - 95%                                                   |
| 27 | Compliance                   | RoHS, CE                                                    |



# TECHNICAL SPECIFICATIONS - FREQUENCY INDICATOR

|    |                          |                                                |
|----|--------------------------|------------------------------------------------|
| 1  | Rated Supply Voltage     | 240 V AC / 110 V AC                            |
| 2  | Operating Supply Voltage | 70 V AC - 270 V AC / 80 V AC - 150 V AC        |
| 3  | Input Current            | < 50 mA                                        |
| 4  | Input Wattage            | 0.6 - 0.9 W / <1 W                             |
| 5  | Tolerance Scope          | $\pm 1$ Hz                                     |
| 6  | Frequency Sensing Range  | 10 Hz to 90 Hz                                 |
| 7  | Surge Test               | 2 KV AS PER IEC 61000-4-5                      |
| 8  | HV Rating                | 2 KV AS PER IEC 60243                          |
| 9  | Rated Insulation Voltage | 500 V AC @ 1M $\Omega$                         |
| 10 | Display Type             | 7 Segment 3 digit                              |
| 11 | Electrical Life          | 20K under normal operating condition           |
| 12 | Dimensions               | 63 x 28 mm                                     |
| 13 | Weight                   | 25 g                                           |
| 14 | Degree of Protection     | Above Panel: IP65                              |
| 15 |                          | For Terminals: IP20                            |
| 16 | Mounting Details         | Mounting on Panel, 22.5 Dia Hole               |
|    | Connectors               | 2 Pin - screw terminal (<0.75 to 1 sq.mm wire) |
| 17 | Screw Tightning Torque   | 0.8Nm                                          |
| 18 | Housing Colour           | Black                                          |
| 19 | Illuminating lens colour | Red/Yellow/Blue/Green/Amber/White              |
| 20 | Operating temperature    | -20°C TO 60°C                                  |
| 21 | Storage temperature      | -30°C TO 65°C                                  |
| 22 | Air humidity             | 10% - 95%                                      |
| 23 | Compliance               | RoHS, CE                                       |



# PRODUCT ORDERING INFORMATION

## Current Indicator

|                   |                                       |
|-------------------|---------------------------------------|
| <b>ECAR240A01</b> | GEN1 CURRENT INDICATOR RED 240V AC    |
| <b>ECAY240A01</b> | GEN1 CURRENT INDICATOR YELLOW 240V AC |
| <b>ECAB240A01</b> | GEN1 CURRENT INDICATOR BLUE 240V AC   |
| <b>ECAG240A01</b> | GEN1 CURRENT INDICATOR GREEN 240V AC  |
| <b>ECAA240A01</b> | GEN1 CURRENT INDICATOR AMBER 240V AC  |
| <b>ECAC240A01</b> | GEN1 CURRENT INDICATOR CLEAR 240V AC  |

## Frequency Indicator

|                   |                                         |
|-------------------|-----------------------------------------|
| <b>EFAR240A01</b> | GEN1 FREQUENCY INDICATOR RED 240V AC    |
| <b>EFAY240A01</b> | GEN1 FREQUENCY INDICATOR YELLOW 240V AC |
| <b>EFAB240A01</b> | GEN1 FREQUENCY INDICATOR BLUE 240V AC   |
| <b>EFAG240A01</b> | GEN1 FREQUENCY INDICATOR GREEN 240V AC  |
| <b>EFAA240A01</b> | GEN1 FREQUENCY INDICATOR AMBER 240V AC  |
| <b>EFAC240A01</b> | GEN1 FREQUENCY INDICATOR CLEAR 240V AC  |

**NOTE: FOR ANY OTHER CUSTOMISATIONS OR ENQUIRY PLEASE CONTACT US.**

### Corporate office:

Esbee Electrotech LLP

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Website: [www.esbee-electrotech.com](http://www.esbee-electrotech.com)

**PRODUCT RANGE**



<https://www.esbee-electrotech.com/>



# PRODUCT ORDERING INFORMATION

## Voltage Indicator

|                   |                                            |
|-------------------|--------------------------------------------|
| <b>EVAR240A01</b> | GEN1 VOLTAGE INDICATOR RED 240V AC_VER1    |
| <b>EVAY240A01</b> | GEN1 VOLTAGE INDICATOR YELLOW 240V AC_VER1 |
| <b>EVAB240A01</b> | GEN1 VOLTAGE INDICATOR BLUE 240V AC_VER1   |
| <b>EVAG240A01</b> | GEN1 VOLTAGE INDICATOR GREEN 240V AC_VER1  |
| <b>EVAA240A01</b> | GEN1 VOLTAGE INDICATOR AMBER 240V AC_VER1  |
| <b>EVAC240A01</b> | GEN1 VOLTAGE INDICATOR CLEAR 240V AC_VER1  |

## Temperature Indicator

|                   |                                           |
|-------------------|-------------------------------------------|
| <b>ETAR240A01</b> | GEN1 TEMPERATURE INDICATOR RED 240V AC    |
| <b>ETAY240A01</b> | GEN1 TEMPERATURE INDICATOR YELLOW 240V AC |
| <b>ETAB240A01</b> | GEN1 TEMPERATURE INDICATOR BLUE 240V AC   |
| <b>ETAG240A01</b> | GEN1 TEMPERATURE INDICATOR GREEN 240V AC  |
| <b>ETAA240A01</b> | GEN1 TEMPERATURE INDICATOR AMBER 240V AC  |
| <b>ETAC240A01</b> | GEN1 TEMPERATURE INDICATOR CLEAR 240V AC  |

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**PRODUCT RANGE**



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