

# ESB63-22N-06 Installation Contactor



|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | ESB63-22N-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product ID            | 1SAE351111R0622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EAN                   | 4013614519208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Catalog Description   | ESB63-22N-06 Installation Contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Long Description      | <p>The ESB63..N installation contactors are used to control single and three-phase loads up to 63 A and can be operated by AC or DC.</p> <p>These contactors are made for use in household applications as well as in industrial environments.</p> <p>The following benefits are provided:</p> <ul style="list-style-type: none"> <li>Hum-free operation, low power consumption and integrated overvoltage protection.</li> <li>Various contact combinations and accessories are available.</li> </ul> |

|                        |               |
|------------------------|---------------|
| Package Level 1 EAN    | 4013614525513 |
| Minimum Order Quantity | 1 piece       |
| Customs Tariff Number  | 85365080      |

Instructions and Manuals 2CDC103043M6801

## Dimensions

|                            |        |
|----------------------------|--------|
| Product Net Width          | 54 mm  |
| Product Net Height         | 85 mm  |
| Product Net Depth / Length | 65 mm  |
| Product Net Weight         | 0.4 kg |

## Technical

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Voltage                           | Main Circuit 220 V DC<br>Main Circuit 400 V AC                                                                                                                                                                                                                                                                                                                                                                 |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 230 V                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated Frequency (f)                                 | Control Circuit 400 Hz<br>Control Circuit 50 Hz<br>Control Circuit 60 Hz<br>Control Circuit DC<br>Main Circuit 50 Hz<br>Main Circuit 60 Hz<br>Main Circuit DC                                                                                                                                                                                                                                                  |
| Rated Operational Current AC-1 (I <sub>e</sub> )    | (NC) 30 A<br>(NO) 63 A                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated Operational Current AC-3 (I <sub>e</sub> )    | (230 V) Single Phase, NO 30 A                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Power AC-1 (P <sub>e</sub> )      | (230 V) Single Phase, NC 6.9 kW<br>(230 V) Single Phase, NO 14.5 kW                                                                                                                                                                                                                                                                                                                                            |
| Rated Operational Power AC-3 (P <sub>e</sub> )      | (230 V) Single Phase, NO 5 kW                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Current AC-7a (I <sub>e</sub> )   | (NO) 63 A                                                                                                                                                                                                                                                                                                                                                                                                      |
| Rated Operational Power AC-7a (P <sub>e</sub> )     | (230 V) Single Phase, NC 6.9 kW<br>(230 V) Single Phase, NO 14.5 kW                                                                                                                                                                                                                                                                                                                                            |
| Rated Operational Current AC-7b (I <sub>e</sub> )   | (230 V) Single Phase, NO 30 A                                                                                                                                                                                                                                                                                                                                                                                  |
| Rated Operational Power AC-7b (P <sub>e</sub> )     | (230 V) Single Phase, NO 5 kW                                                                                                                                                                                                                                                                                                                                                                                  |
| Recommended Screw Driver                            | Control Circuit Pozidriv 1<br>Main Circuit Pozidriv 2                                                                                                                                                                                                                                                                                                                                                          |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rated Insulation Voltage (U <sub>i</sub> )          | 500 V                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connecting Capacity Main Circuit                    | Flexible with Ferrule 1x 1.5 ... 16 mm <sup>2</sup><br>Flexible with Ferrule 2x 1.5 ... 10 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 1.5 ... 16 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 1.5 ... 10 mm <sup>2</sup><br>Flexible 2x 1.5 ... 10 mm <sup>2</sup><br>Flexible 1x 1.5 ... 16 mm <sup>2</sup><br>Rigid 1x 1.5 ... 25 mm <sup>2</sup><br>Rigid 2x 1.5 ... 10 mm <sup>2</sup> |
| Connecting Capacity Control Circuit                 | Flexible with Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Ferrule 2x 0.75 ... 1.0 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm <sup>2</sup><br>Flexible with Insulated Ferrule 2x 0.75 ... 1 mm <sup>2</sup><br>Flexible 1x 1 ... 4.0 mm <sup>2</sup><br>Flexible 2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1x 1 ... 4 mm <sup>2</sup><br>Rigid 2x 1 ... 2.5 mm <sup>2</sup> |
| Tightening Torque                                   | Control Circuit 0.9 N·m<br>Main Circuit 2.5 N·m                                                                                                                                                                                                                                                                                                                                                                |
| Wire Stripping Length                               | Control Circuit 7 mm<br>Main Circuit 13 mm                                                                                                                                                                                                                                                                                                                                                                     |
| Degree of Protection                                | IP20                                                                                                                                                                                                                                                                                                                                                                                                           |
| Electrical Durability                               | AC-1 (NO) 100000 cycle                                                                                                                                                                                                                                                                                                                                                                                         |

|                                        |                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------|
|                                        | AC-3 (NO) 240000 cycle                                                           |
|                                        | AC-7a (NO) 100000 cycle                                                          |
|                                        | AC-7b (NO) 240000 cycle                                                          |
| Mechanical Durability                  | 1000000 cycle                                                                    |
| Number of Poles                        | 4                                                                                |
| Number of Auxiliary<br>Contacts NC     | 0                                                                                |
| Number of Auxiliary<br>Contacts NO     | 0                                                                                |
| Number of Main<br>Contacts NC          | 2                                                                                |
| Number of Main<br>Contacts NO          | 2                                                                                |
| Width in Number of<br>Modular Spacings | 3                                                                                |
| Pollution Degree                       | 3                                                                                |
| Standards                              | IEC/EN 60947-1<br>IEC/EN 60947-4-1<br>IEC/EN 61095<br>UL 60947-1<br>UL 60947-4-1 |

## Technical UL/CSA

|                                               |                                                                                                                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Operating<br>Voltage UL/CSA           | Main Circuit 480 V AC                                                                                                                                                            |
| Horsepower Rating<br>UL/CSA                   | (220 ... 240 V AC) Single Phase, NC 5 Hp<br>(220 ... 240 V AC) Single Phase, NO 5 Hp<br>(440 ... 480 V AC) Single Phase, NC 7.5 Hp<br>(440 ... 480 V AC) Single Phase, NO 7.5 Hp |
| Connecting Capacity<br>Main Circuit UL/CSA    | Solid 16-4 AWG<br>Stranded 16-4 AWG                                                                                                                                              |
| Connecting Capacity<br>Control Circuit UL/CSA | Solid 16-10 AWG<br>Stranded 16-10 AWG                                                                                                                                            |
| Tightening Torque<br>UL/CSA                   | Control Circuit 8 in-lb<br>Main Circuit 20 in-lb                                                                                                                                 |

## Environmental

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Ambient Air<br>Temperature                    | Operation -25 ... +55 °C<br>Storage -40 ... +80 °C |
| Maximum Operating<br>Altitude Permissible     | 2000 m                                             |
| Resistance to Shock acc.<br>to IEC 60068-2-27 | 11 ms Pulse 15g                                    |
| RoHS Status                                   | Following EU Directive 2011/65/EU                  |

## Certificates and Declarations (Document Number)

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| ABS Certificate                     | 1SAA920000-0101                            |
| CB Certificate                      | 1SAA920005-2001                            |
| CQC Certificate                     | CQC2017010304993562<br>CQC2017010304993563 |
| cULus Certificate                   | cUL_E191658                                |
| Declaration of<br>Conformity - CCC  | 2020980304001310<br>2020980304001313       |
| Declaration of<br>Conformity - CE   | 1SAD938506-0302                            |
| Declaration of<br>Conformity - UKCA | 1SAD938501-1302                            |
| DNV Certificate                     | 1SAA920000-0306                            |
| EAC Certificate                     | 1SAA920001-2702                            |

|                           |                 |
|---------------------------|-----------------|
| Environmental Information | 1SAC200065H0009 |
| Instructions and Manuals  | 2CDC103043M6801 |
| RINA Certificate          | 1SAA920000-0801 |
| RMRS Certificate          | 1SAA920000-0705 |
| RoHS Information          | 1SAD938506-0302 |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | 1 piece       |
| Package Level 1 Width          | 92 mm         |
| Package Level 1 Height         | 69.5 mm       |
| Package Level 1 Depth / Length | 57 mm         |
| Package Level 1 Gross Weight   | 0.4 kg        |
| Package Level 1 EAN            | 4013614525513 |
| Package Level 2 Units          | 40 piece      |
| Package Level 2 Width          | 280 mm        |
| Package Level 2 Height         | 210 mm        |
| Package Level 2 Depth / Length | 395 mm        |
| Package Level 2 Gross Weight   | 16.7 kg       |
| Package Level 2 EAN            | 4013614539916 |

## Classifications

|                                    |                                                          |
|------------------------------------|----------------------------------------------------------|
| Object Classification Code         | Q                                                        |
| ETIM 5                             | EC001653 - Installation contactor for distribution board |
| ETIM 6                             | EC001653 - Installation contactor for distribution board |
| ETIM 7                             | EC001653 - Installation contactor for distribution board |
| eClass                             | V11.0 : 27142308                                         |
| UNSPSC                             | 39121529                                                 |
| IDEA Granular Category Code (IGCC) | 4759 >> Installation contactor for distribution board    |

## Categories

Low Voltage Products and Systems → Control Products → Contactors → Installation Contactors

Low Voltage Products and Systems → Modular DIN Rail Products → Command and Signalling Devices → Installation Contactors

