



PRODUCT-DETAILS

# ESB25-04N-02

## ESB25-04N-02 Installation Contactor (NC) 25 A - 0 NO - 4 NC - 42 V - Control Circuit 400 Hz



| General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | ESB25-04N-02                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product ID            | 1SAE231111R0204                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EAN                   | 4013614517686                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Catalog Description   | ESB25-04N-02 Installation Contactor (NC) 25 A - 0 NO - 4 NC - 42 V - Control Circuit 400 Hz                                                                                                                                                                                                                                                                                                                                                               |
| Long Description      | <p>The ESB25..N installation contactors are used to control single and three-phase loads up to 25 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> <p>Hum-free operation, low power consumption and integrated overvoltage protection.</p> <p>Various contact combinations and accessories are available.</p> |

| Ordering               |               |
|------------------------|---------------|
| Package Level 1 EAN    | 4013614523984 |
| Minimum Order Quantity | 1 piece       |
| Customs Tariff Number  | 85365080      |

Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC103051C0201 |
| Instructions and Manuals          | 2CDC103043M6801 |
| CAD Dimensional Drawing           | 2CDC001079B0201 |

Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 36 mm    |
| Product Net Height         | 85 mm    |
| Product Net Depth / Length | 65 mm    |
| Product Net Weight         | 0.245 kg |

Technical

|                                                     |                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Voltage                           | Main Circuit 220 V DC<br>Main Circuit 400 V AC                                                                                                                                                                                                                                                         |
| Rated Control Circuit Voltage (U <sub>c</sub> )     | 42 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) 25 A                                                                                                                                                                                                                                                                                              |
| Rated Operational Current AC-3 (I <sub>e</sub> )    | (230 V) Single Phase, NC 6 A                                                                                                                                                                                                                                                                           |
| Rated Operational Power AC-1 (P <sub>e</sub> )      | (230 V) Single Phase, NC 5.8 kW<br>(400 V) Three Phase, NC 17.3 kW                                                                                                                                                                                                                                     |
| Rated Operational Power AC-3 (P <sub>e</sub> )      | (230 V) Single Phase, NC 0.9 kW<br>(400 V) Three Phase, NC 2.7 kW                                                                                                                                                                                                                                      |
| Rated Operational Current AC-7a (I <sub>e</sub> )   | (NC) 25 A                                                                                                                                                                                                                                                                                              |
| Rated Operational Power AC-7a (P <sub>e</sub> )     | (230 V) Single Phase, NC 5.8 kW<br>(400 V) Three Phase, NC 17.25 kW                                                                                                                                                                                                                                    |
| Rated Operational Current AC-7b (I <sub>e</sub> )   | (400 V) Three Phase, NC 6 A                                                                                                                                                                                                                                                                            |
| Rated Operational Power AC-7b (P <sub>e</sub> )     | (230 V) Single Phase, NC 2.7 kW<br>(400 V) Three Phase, NC 2.7 kW                                                                                                                                                                                                                                      |
| Recommended Screw Driver                            | Control Circuit Pozidriv 1<br>Main Circuit Pozidriv 1                                                                                                                                                                                                                                                  |
| 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 ... 10 mm²<br>Flexible with Ferrule 2x 1.5 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1x 1.5 ... 10 mm²<br>Flexible with Insulated Ferrule 2x 1.5 mm²<br>Flexible 1x 1.5 ... 10 mm²<br>Flexible 2x 1.5 ... 4 mm²<br>Rigid 1x 1.5 ... 10 mm²<br>Rigid 2x 1.5 ... 4 mm² |
| Connecting Capacity Control Circuit                 | Flexible with Ferrule 1x 1 ... 2.5 mm²<br>Flexible with Ferrule 2x 0.75 ... 1 mm²<br>Flexible with Insulated Ferrule 1x 1 ... 2.5 mm²<br>Flexible with Insulated Ferrule 2x 0.75 ... 1 mm²<br>Flexible 1x 1 ... 4.0 mm²<br>Flexible 2x 1 ... 2.5 mm²<br>Rigid 1x 1 ... 4 mm²<br>Rigid 2x 1 ... 2.5 mm² |

|                                        |                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------|
| Tightening Torque                      | Control Circuit 0.9 N·m<br>Main Circuit 1 N·m                                                        |
| Wire Stripping Length                  | Control Circuit 7 mm<br>Main Circuit 10 mm                                                           |
| Degree of Protection                   | IP20                                                                                                 |
| Electrical Durability                  | AC-1 (NC) 50000 cycle<br>AC-3 (NC) 340000 cycle<br>AC-7a (NC) 50000 cycle<br>AC-7b (NC) 340000 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 Contacts<br>NC          | 4                                                                                                    |
| Number of Main Contacts<br>NO          | 0                                                                                                    |
| Width in Number of<br>Modular Spacings | 2                                                                                                    |
| 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 1 Hp<br>(220 ... 240 V AC) Three Phase, NC 3 Hp<br>(440 ... 480 V AC) Single Phase, NC 0.5 Hp<br>(440 ... 480 V AC) Three Phase, NC 2 Hp |
| Connecting Capacity Main<br>Circuit UL/CSA    | Solid 16-8 AWG<br>Stranded 16-8 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 9 in·lb                                                                                                                              |

Environmental

|                                               |                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------|
| Ambient Air 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 and Amendment 2015/863 July 22, 2019 |

Material Compliance

|                                                   |                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------|
| Conflict Minerals<br>Reporting Template<br>(CMRT) | 9AKK108467A5658                                                        |
| REACH Declaration                                 | 2CMT2021-006202                                                        |
| RoHS Information                                  | 2CMT2021-006277                                                        |
| RoHS Status                                       | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Toxic Substances Control<br>Act - TSCA            | 2CMT2023-006525                                                        |
| WEEE B2C / B2B                                    | Business To Consumer                                                   |

| Certificates and Declarations       |                                            |
|-------------------------------------|--------------------------------------------|
| ABS Certificate                     | 1SAA920000-0101                            |
| CB Certificate                      | 1SAA920004-2001                            |
| CQC Certificate                     | CQC2017010304993564<br>CQC2017010304993565 |
| Declaration of Conformity<br>- CCC  | 2020980304001312<br>2020980304001314       |
| Declaration of Conformity<br>- CE   | 1SAD101100-3301                            |
| Declaration of Conformity<br>- UKCA | 1SAD201100-3301                            |
| DNV Certificate                     | 1SAA920000-0306                            |
| EAC Certificate                     | 1SAA920001-2702                            |
| RINA Certificate                    | 1SAA920000-0801                            |
| RMRS Certificate                    | 1SAA920000-0705                            |
| UL Certificate                      | E191658-19960301                           |

| 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 /<br>Length | 39 mm         |
| Package Level 1 Gross<br>Weight   | 0.245 kg      |
| Package Level 1 EAN               | 4013614523984 |
| Package Level 2 Units             | 48 piece      |
| Package Level 2 Width             | 280 mm        |
| Package Level 2 Height            | 210 mm        |
| Package Level 2 Depth /<br>Length | 395 mm        |
| Package Level 2 Gross<br>Weight   | 12.3 kg       |
| Package Level 2 EAN               | 4013614538384 |

| 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<br>Code (IGCC) | 4759 >> Installation contactor for distribution board    |
| ETIM 8                                | EC001653 - Installation contactor for distribution board |

Accessories

| Identifier      | Description                                                        | Type      | Quantity | Unit Of Measure |
|-----------------|--------------------------------------------------------------------|-----------|----------|-----------------|
| 1SAE901901R1011 | EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz | EH04-11N  | 1        | piece           |
| 1SAE901901M1011 | EH04-11N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz | EH04-11N  | 1        | piece           |
| 1SAE901901R1020 | EH04-20N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz | EH04-20N  | 1        | piece           |
| 1SAE901901M1020 | EH04-20N Auxiliary Contact - 0 NO - 0 NC - Auxiliary Circuit 50 Hz | EH04-20N  | 1        | piece           |
| GHE3201903R0001 | ESB-PLK24 Sealing Cover                                            | ESB-PLK24 | 1        | piece           |
| GHE3201902R0001 | ESB-DIS Distance Piece                                             | ESB-DIS   | 1        | piece           |

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

