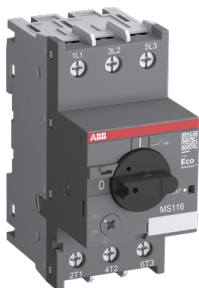




PRODUCT-DETAILS

# MS116-25

## MS116-25 Manual Motor Starter 20 ... 25 A



| General Information    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type: | MS116-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product ID:            | 1SAM250000R1014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EAN:                   | 4013614405662                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Catalog Description:   | MS116-25 Manual Motor Starter 20 ... 25 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Long Description:      | The MS116-25 manual motor starter (also known as motor protection circuit breaker or manual motor protector) is a compact 45 mm width device with a rated operational current of $I_e = 25.0\text{ A}$ . This device is used to manually switch on and off motors and to protect them reliably and without the need for a fuse from short-circuits, overload and phase failures. The manual motor starter offers a rated service short-circuit breaking capacity $I_{cs} = 10\text{ kA}$ at 400 VAC and trip class 10A. Further features are the build-in disconnect function, temperature compensation, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter is suitable for three- and single-phase applications. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks and locking devices for protection against unauthorized changes are available as accessory. |
| Display Name:          | MS116-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Ordering                |         |
|-------------------------|---------|
| Minimum Order Quantity: | 1 piece |

Customs Tariff Number: 85362010

## Popular Downloads

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Data Sheet, Technical Information: | 2CDC131025D0201                                       |
| Instructions and Manuals:          | 2CDC131011M6802                                       |
| Instructions and Manuals (Part 2): | 2CDC131060M0202                                       |
| Time-Current Characteristic Curve: | 1SAM200505F0014                                       |
| I <sup>2</sup> t Characteristic:   | 1SAM200507F0001<br>1SAM200507F0002<br>1SAM200507F0003 |
| Cut-off Current Characteristic:    | 1SAM200508F0001<br>1SAM200508F0002<br>1SAM200508F0003 |
| CAD Dimensional Drawing:           | 2CDC001079B0201                                       |
| Dimension Diagram:                 | 1SAM200420F0001                                       |

## Dimensions

|                             |         |
|-----------------------------|---------|
| Product Net Width:          | 45 mm   |
| Product Net Height:         | 97.8 mm |
| Product Net Depth / Length: | 85.4 mm |
| Product Net Weight:         | 0.31 kg |

## Technical

|                                                              |                                                                                                 |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ ):  | (230 V AC) 10 kA<br>(400 V AC) 10 kA<br>(440 V AC) 3 kA<br>(500 V AC) 3 kA<br>(690 V AC) 2 kA   |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ): | (230 V AC) 16 kA<br>(400 V AC) 16 kA<br>(440 V AC) 15 kA<br>(500 V AC) 10 kA<br>(690 V AC) 3 kA |
| Rated Instantaneous Short-Circuit Current Setting ( $I_i$ ): | 375 A                                                                                           |
| Setting Range:                                               | 20 ... 25 A                                                                                     |
| Rated Operational Power AC-3 ( $P_e$ ):                      | (400 V) Three Phase 11 kW                                                                       |
| Rated Operational Power AC-3e ( $P_e$ ):                     | (400 V) Three Phase 11 kW                                                                       |
| Rated Operational Voltage:                                   | Main Circuit 690 V AC                                                                           |
| Rated Operational Current ( $I_e$ ):                         | 25 A                                                                                            |
| Rated Operational Current AC-3 ( $I_e$ ):                    | 25 A                                                                                            |
| Rated Operational Current AC-3e ( $I_e$ ):                   | 25 A                                                                                            |
| Rated Frequency (f):                                         | Main Circuit 50 Hz<br>Main Circuit 60 Hz                                                        |

|                                                                     |                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>      | Main Circuit 6 kV                                                                                                                                                                                                                                                                              |
| <b>Rated Insulation Voltage (<math>U_i</math>):</b>                 | 690 V                                                                                                                                                                                                                                                                                          |
| <b>Power Loss:</b>                                                  | at Rated Operating Conditions per Pole 1.8 ... 2.8 W                                                                                                                                                                                                                                           |
| <b>Number of Poles:</b>                                             | 3P                                                                                                                                                                                                                                                                                             |
| <b>Conventional Free-air Thermal Current (<math>I_{th}</math>):</b> | Main Circuit 25 A                                                                                                                                                                                                                                                                              |
| <b>Degree of Protection:</b>                                        | Housing IP20<br>Main Circuit Terminals IP10                                                                                                                                                                                                                                                    |
| <b>Pollution Degree:</b>                                            | 3                                                                                                                                                                                                                                                                                              |
| <b>Electrical Durability:</b>                                       | 50000 cycle                                                                                                                                                                                                                                                                                    |
| <b>Mechanical Durability:</b>                                       | Nr. Operations 100000 cycle                                                                                                                                                                                                                                                                    |
| <b>Terminal Type:</b>                                               | Screw Terminals                                                                                                                                                                                                                                                                                |
| <b>Connecting Capacity Main Circuit:</b>                            | Flexible with Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup><br>Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup><br>Flexible 1/2x 1 ... 2.5 mm <sup>2</sup><br>Flexible 1/2x 2.5 ... 6 mm <sup>2</sup><br>Rigid 1/2x 1 ... 2.5 mm <sup>2</sup><br>Rigid 1/2x 2.5 ... 6 mm <sup>2</sup> |
| <b>Tightening Torque:</b>                                           | Main Circuit 2 N·m                                                                                                                                                                                                                                                                             |
| <b>Wire Stripping Length:</b>                                       | Main Circuit 10 mm                                                                                                                                                                                                                                                                             |
| <b>Recommended Screw Driver:</b>                                    | Pozidriv 2                                                                                                                                                                                                                                                                                     |
| <b>Mounting Position:</b>                                           | 1 ... 6                                                                                                                                                                                                                                                                                        |
| <b>Mounting on DIN Rail:</b>                                        | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                                                                                                                                 |
| <b>Minimum Mounting Distance:</b>                                   | Electrical Conductive Board, Horizontal - Up to 400 V 0 mm<br>Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm<br>Electrical Conductive Board, Vertical 75 mm<br>Other Device Same Type, Horizontal 0 mm<br>Other Device Same Type, Vertical 150 mm                                |
| <b>Actuator Type:</b>                                               | Rotary Handle                                                                                                                                                                                                                                                                                  |
| <b>Contact Position Indication:</b>                                 | ON / OFF                                                                                                                                                                                                                                                                                       |
| <b>Standards:</b>                                                   | IEC/EN 60947-1<br>IEC/EN 60947-2<br>IEC/EN 60947-4-1<br>UL 60947-1<br>UL 60947-4-1<br>IEC 60335-2-40 A2L                                                                                                                                                                                       |

## Technical UL/CSA

|                                             |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Short-Circuit Current Rating (SCCR):</b> | Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 18 kA<br>Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 5 kA<br>Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 18 kA<br>Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 5 kA |
| <b>Maximum Operating Voltage UL/CSA:</b>    | Main Circuit 600 V AC                                                                                                                                                                                                                                                                                                    |
| <b>Horsepower Rating UL/CSA:</b>            | (200 V AC) Three Phase 5 Hp<br>(208 V AC) Three Phase 7.5 Hp<br>(220 ... 240 V AC) Three Phase 7.5 Hp<br>(440 ... 480 V AC) Three Phase 15 Hp<br>(550 ... 600 V AC) Three Phase 20 Hp                                                                                                                                    |

|                                                 |                                                                                                                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Full Load Amps Motor Use:</b>                | (200 V AC) Three Phase 17.5 A<br>(208 V AC) Three Phase 24.2 A<br>(220 ... 240 V AC) Three Phase 22 A<br>(440 ... 480 V AC) Three Phase 21 A<br>(550 ... 600 V AC) Three Phase 22 A    |
| <b>Locked Rotor Amps:</b>                       | (200 V AC) Three Phase 105.8 A<br>(208 V AC) Three Phase 140 A<br>(220 ... 240 V AC) Three Phase 127 A<br>(440 ... 480 V AC) Three Phase 116 A<br>(550 ... 600 V AC) Three Phase 116 A |
| <b>General Use Rating UL/CSA:</b>               | (600 V AC) 25 A                                                                                                                                                                        |
| <b>Connecting Capacity Main Circuit UL/CSA:</b> | Flexible 1/2x 16-8 AWG<br>Stranded 1/2x 16-8 AWG                                                                                                                                       |
| <b>Tightening Torque UL/CSA:</b>                | Main Circuit 18 in-lb                                                                                                                                                                  |

## Environmental

|                                                    |                                                                                                                                 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Ambient Air Temperature:</b>                    | Around the Enclosure 0 ... +40 °C<br>Operation -25 ... +70 °C<br>Operation Compensated -25 ... +55 °C<br>Storage -50 ... +80 °C |
| <b>Ambient Air Temperature Compensation:</b>       | Yes                                                                                                                             |
| <b>Maximum Operating Altitude Permissible:</b>     | 2000 m                                                                                                                          |
| <b>Resistance to Shock acc. to IEC 60068-2-27:</b> | 11 ms Pulse 25g                                                                                                                 |
| <b>Resistance to Vibrations:</b>                   | 2g 5 ... 150 Hz<br>5g 3 ... 150 Hz                                                                                              |

## Material Compliance

|                                                     |                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------|
| <b>Conflict Minerals Reporting Template (CMRT):</b> | 9AKK108467A5658                                                        |
| <b>REACH Declaration:</b>                           | 1SAA963005-4502                                                        |
| <b>RoHS Declaration:</b>                            | 1SAA963006-4501                                                        |
| <b>RoHS Information:</b>                            | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| <b>Toxic Substances Control Act - TSCA:</b>         | 2CMT2023-006539                                                        |
| <b>WEEE B2C / B2B:</b>                              | Business To Business                                                   |
| <b>WEEE Category:</b>                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |

## ABB EcoSolutions

|                                                         |                                              |
|---------------------------------------------------------|----------------------------------------------|
| <b>ABB EcoSolutions:</b>                                | Yes                                          |
| <b>ABB Site Meeting Group Waste To Landfill Target:</b> | No non-hazardous waste is sent to a landfill |
| <b>EcoSolutions Profile:</b>                            | 1SFC100125C0353                              |
| <b>End Of Life Disassembling Instructions:</b>          | 1SAC200331H0001                              |
| <b>Environmental Product Declaration - EPD:</b>         | 1SAC200359H0001<br>1SAC200384H0001           |

|                                                           |                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Improved Energy Efficiency for Customers:</b>          | Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line |
| <b>Recyclability Rate of the Product acc. to EN45555:</b> | Design for Closing Resource Loops - Standard EN45555 - 88 %                                                                              |

## Certificates and Declarations

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| <b>A2L Certificate – IEC:</b>            | 1SAA963000-4601                            |
| <b>ABS Certificate:</b>                  | 1SAA963000-0104                            |
| <b>BV Certificate:</b>                   | 1SAA963000-0204                            |
| <b>CB Certificate:</b>                   | 1SAA963005-2003<br>1SAA963006-2001         |
| <b>CCC Certificate:</b>                  | 2024010307654705<br>2024010307656673       |
| <b>CQC Certificate:</b>                  | CQC2011010307506570<br>CQC2014010307744794 |
| <b>Declaration of Conformity - CCC:</b>  | 2020980307003705<br>2020980307003043       |
| <b>Declaration of Conformity - CE:</b>   | 1SAD101100-3401                            |
| <b>Declaration of Conformity - UKCA:</b> | 1SAD201100-3401                            |
| <b>DNV Certificate:</b>                  | 1SAA963000-0304                            |
| <b>DNV GL Certificate:</b>               | 1SAA963000-0304                            |
| <b>EAC Certificate:</b>                  | 1SAA963000-2701                            |
| <b>GL Certificate:</b>                   | 1SAA963000-0402                            |
| <b>KC Certificate:</b>                   | 1SAA963000-1501                            |
| <b>LR Certificate:</b>                   | 1SAA963000-0505                            |
| <b>RMRS Certificate:</b>                 | 1SAA918000-0704                            |
| <b>UL Certificate:</b>                   | E137861-20001218                           |

## Container Information

|                                        |                 |
|----------------------------------------|-----------------|
| <b>Package Level 1 Units:</b>          | box 1 piece     |
| <b>Package Level 1 Width:</b>          | 92 mm           |
| <b>Package Level 1 Depth / Length:</b> | 102 mm          |
| <b>Package Level 1 Height:</b>         | 50 mm           |
| <b>Package Level 1 Gross Weight:</b>   | 0.325 kg        |
| <b>Package Level 1 EAN:</b>            | 4013614405662   |
| <b>Package Level 2 Units:</b>          | carton 40 piece |
| <b>Package Level 2 Width:</b>          | 280 mm          |
| <b>Package Level 2 Depth / Length:</b> | 395 mm          |
| <b>Package Level 2 Height:</b>         | 210 mm          |
| <b>Package Level 2 Gross Weight:</b>   | 13.386 kg       |
| <b>Package Level 2 EAN:</b>            | 4013614408748   |

## External Classifications and Standards

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| <b>Object Classification Code:</b>         | F                                           |
| <b>ETIM 9:</b>                             | EC000074 - Motor protection circuit-breaker |
| <b>ETIM 10:</b>                            | EC000074 - Motor protection circuit-breaker |
| <b>eClass:</b>                             | V11.0 : 27370401                            |
| <b>UNSPSC:</b>                             | 39121521                                    |
| <b>IDEA Granular Category Code (IGCC):</b> | 4731 >> Manual Starters                     |
| <b>E-Number (Finland):</b>                 | 3705874                                     |
| <b>E-Number (Norway):</b>                  | 4364487                                     |
| <b>E-Number (Sweden):</b>                  | 3111952                                     |

## Accessories

| Identifier      | Description                                                            | Type     | Qty | Unit Of Measure |
|-----------------|------------------------------------------------------------------------|----------|-----|-----------------|
| 1SAM201901R1001 | HKF1-11 Aux.-contact for front mounting                                | HKF1-11  | 1   | piece           |
| 1SAM201901R1201 | HKF1-11K Aux.-contact for frontmounting with Push-In terminals         | HKF1-11K | 1   | piece           |
| 1SAM201901R1002 | HKF1-20 Aux.-contact 2NO, front mounting                               | HKF1-20  | 1   | piece           |
| 1SAM201901R1202 | HKF1-20K Aux.-contact for frontmounting with Push-In terminals         | HKF1-20K | 1   | piece           |
| 1SAM201901R1004 | HKF1-01 Aux.-contact for front mounting                                | HKF1-01  | 1   | piece           |
| 1SAM201901R1003 | HKF1-10 Aux.-contact for front mounting                                | HKF1-10  | 1   | piece           |
| 1SAM201902R1002 | HK1-20 Aux.-contact 2 NO                                               | HK1-20   | 1   | piece           |
| 1SAM201902R1202 | HK1-20K Aux.-contact 2 NO with Push-In terminals                       | HK1-20K  | 1   | piece           |
| 1SAM201902R1001 | HK1-11 Aux.-contact 1 NO + 1 NC                                        | HK1-11   | 1   | piece           |
| 1SAM201902R1201 | HK1-11K Aux.-contact 1 NO + 1 NC with Push-In terminals                | HK1-11K  | 1   | piece           |
| 1SAM201902R1003 | HK1-02 Aux.-contact 2 NC                                               | HK1-02   | 1   | piece           |
| 1SAM201902R1203 | HK1-02K Aux.-contact 2 NC with Push-In terminals                       | HK1-02K  | 1   | piece           |
| 1SAM201902R1004 | HK1-20L Aux.-cont. w. 2 lead contacts 2 NO                             | HK1-20L  | 1   | piece           |
| 1SAM201902R1204 | HK1-20LK Aux.-cont. w. 2 leading contacts 2 NO, with Push-In terminals | HK1-20LK | 1   | piece           |
| 1SAM201903R1002 | SK1-20 Signaling Contact 2 NO                                          | SK1-20   | 1   | piece           |
| 1SAM201903R1202 | SK1-20K Signaling Contact 2 NO with Push-In terminals                  | SK1-20K  | 1   | piece           |

|                 |                                                                      |           |   |       |
|-----------------|----------------------------------------------------------------------|-----------|---|-------|
| 1SAM201903R1005 | SK1-20AR Signaling Contact, 2NO with screw terminals                 | SK1-20AR  | 1 | piece |
| 1SAM201903R1205 | SK1-20ARK Signaling Contact, 2NO with Push-in Spring terminals       | SK1-20ARK | 1 | piece |
| 1SAM201903R1001 | SK1-11 Signaling Contact 1SK1-11 NO + 1 NC                           |           | 1 | piece |
| 1SAM201903R1201 | SK1-11K Signaling Contact SK1-11K 1 NO + 1 NC with Push-In terminals |           | 1 | piece |
| 1SAM201903R1004 | SK1-11AR Signaling Contact, 1NO+1NC with screw terminals             | SK1-11AR  | 1 | piece |
| 1SAM201903R1204 | SK1-11ARK Signaling Contact, 1NO+1NC with Push-in Spring terminals   | SK1-11ARK | 1 | piece |
| 1SAM201903R1003 | SK1-02 Signaling Contact 2 NC                                        | SK1-02    | 1 | piece |
| 1SAM201903R1203 | SK1-02K Signaling Contact 2 NC with Push-In terminals                | SK1-02K   | 1 | piece |
| 1SAM201903R1006 | SK1-02AR Signaling Contact, 2NC with screw terminals                 | SK1-02AR  | 1 | piece |
| 1SAM201903R1206 | SK1-02ARK Signaling Contact, 2NC with Push-in Spring terminals       | SK1-02ARK | 1 | piece |
| 1SAM201910R1001 | AA1-24 Shunt Trip 20-24V                                             | AA1-24    | 1 | piece |
| 1SAM201910R1002 | AA1-110 Shunt Trip 110V                                              | AA1-110   | 1 | piece |
| 1SAM201910R1003 | AA1-230 Shunt Trip 200-240V                                          | AA1-230   | 1 | piece |
| 1SAM201910R1004 | AA1-400 Shunt Trip 350-415V                                          | AA1-400   | 1 | piece |
| 1SAM201904R1010 | UA1-20 Undervoltage release 20V 50Hz / 24V 60 Hz                     | UA1-20    | 1 | piece |
| 1SAM201904R1001 | UA1-24 Undervoltage release 24 V                                     | UA1-24    | 1 | piece |
| 1SAM201904R1002 | UA1-48 Undervoltage release 48V                                      | UA1-48    | 1 | piece |
| 1SAM201904R1003 | UA1-60 Undervoltage release 60V                                      | UA1-60    | 1 | piece |
| 1SAM201904R1004 | UA1-110 Undervoltage release 110V 110V 50Hz/120V 60Hz                | UA1-110   | 1 | piece |
| 1SAM201904R1008 | UA1-208 Undervoltage release 208V 60Hz                               | UA1-208   | 1 | piece |
| 1SAM201904R1005 | UA1-230 Undervoltage release 230 V 50 Hz / 240 V 60 Hz               | UA1-230   | 1 | piece |
| 1SAM201904R1006 | UA1-400 Undervoltage release 400V                                    | UA1-400   | 1 | piece |
| 1SAM201904R1007 | UA1-415 Undervoltage release 415V 415V 50Hz/480V 60Hz                | UA1-415   | 1 | piece |

|                 |                                                                      |             |   |       |
|-----------------|----------------------------------------------------------------------|-------------|---|-------|
| 1SAM201904R1009 | UA1-575 Undervoltage release 575V 60Hz                               | UA1-575     | 1 | piece |
| 1SAM201906R1102 | PS1-2-0-65 3-phase busbar for 2 MS116 / MS132, le=65A                | PS1-2-0-65  | 1 | piece |
| 1SAM201906R1112 | PS1-2-1-65 3-phase busbar for 2 MS116 / MS132 with 1 HK/SK, le=65A   | PS1-2-1-65  | 1 | piece |
| 1SAM201906R1122 | PS1-2-2-65 3-phase busbar for 2 MS116 / MS132 with 2 HK/SK, le=65A   | PS1-2-2-65  | 1 | piece |
| 1SAM201916R1103 | PS1-3-0-100 3-phase busbar for 3 MS116 / MS132, le=100A              | PS1-3-0-100 | 1 | piece |
| 1SAM201906R1103 | PS1-3-0-65 3-phase busbar for 3 MS116 / MS132, le=65A                | PS1-3-0-65  | 1 | piece |
| 1SAM201916R1113 | PS1-3-1-100 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, le=100A | PS1-3-1-100 | 1 | piece |
| 1SAM201906R1113 | PS1-3-1-65 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, le=65A   | PS1-3-1-65  | 1 | piece |
| 1SAM201916R1123 | PS1-3-2-100 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, le=100A | PS1-3-2-100 | 1 | piece |
| 1SAM201906R1123 | PS1-3-2-65 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, le=65A   | PS1-3-2-65  | 1 | piece |
| 1SAM201916R1104 | PS1-4-0-100 3-phase busbar for 4 MS116 / MS132, le=100A              | PS1-4-0-100 | 1 | piece |
| 1SAM201906R1104 | PS1-4-0-65 3-phase busbar for 4 MS116 / MS132, le=65A                | PS1-4-0-65  | 1 | piece |
| 1SAM201916R1114 | PS1-4-1-100 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, le=100A | PS1-4-1-100 | 1 | piece |
| 1SAM201906R1114 | PS1-4-1-65 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, le=65A   | PS1-4-1-65  | 1 | piece |
| 1SAM201906R1124 | PS1-4-2-65 3-phase busbar for 4 MS116 / MS132 with 2 HK/SK, le=65A   | PS1-4-2-65  | 1 | piece |
| 1SAM201916R1105 | PS1-5-0-100 3-phase busbar for 5 MS116 / MS132, le=100A              | PS1-5-0-100 | 1 | piece |
| 1SAM201906R1105 | PS1-5-0-65 3-phase busbar for 5 MS116 / MS132, le=65A                | PS1-5-0-65  | 1 | piece |



|                 |                                                                                           |             |   |       |
|-----------------|-------------------------------------------------------------------------------------------|-------------|---|-------|
| 1SAM201916R1115 | PS1-5-1-100 3-phase busbar for 5 MS116 / MS132 with 1 HK/SK, Ie=100A                      | PS1-5-1-100 | 1 | piece |
| 1SAM201906R1115 | PS1-5-1-65 3-phase busbar for 5 MS116 / MS132 with 1 HK/SK, Ie=65A                        | PS1-5-1-65  | 1 | piece |
| 1SAM201906R1125 | PS1-5-2-65 3-phase busbar for 5 MS116 / MS132 with 2 HK/SK, Ie=65A                        | PS1-5-2-65  | 1 | piece |
| 1SAM201907R1101 | S1-M1-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm <sup>2</sup>            | S1-M1-25    | 1 | piece |
| 1SAM201907R1102 | S1-M2-25 3-phase power infeed block High, for MS116 / MS132, 25mm <sup>2</sup>            | S1-M2-25    | 1 | piece |
| 1SAM201907R1103 | S1-M3-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm <sup>2</sup> , Type E   | S1-M3-25    | 1 | piece |
| 1SAM201913R1103 | S1-M3-35 3-phase power infeed block Flat, for MS116 / MS132, 35mm <sup>2</sup> , Type E   | S1-M3-35    | 1 | piece |
| 1SAM201914R1002 | S1-PB1-25 1-phase power infeed block for MS116 / MS132 / MS132-T, 25mm <sup>2</sup> , IEC | S1-PB1-25   | 1 | piece |
| 1SAM201914R1001 | PB1-1-32 phase connecting link for MS116 / MS132 / MS132-T, Ie=32A                        | PB1-1-32    | 1 | piece |
| 1SAM201908R1001 | BS1-3 Protection Cover for BS1-3 busbars empty places                                     |             | 1 | piece |
| 1SAM201909R1001 | FS116 Screw fixing kit for MS116, MS/MO132 10 pieces packed                               | FS116       | 1 | piece |
| GJF1101903R0001 | SA 1 Locking Device                                                                       | SA1         | 1 | piece |
| GJF1101903R0002 | SA 2 Padlock with 2 keys                                                                  | SA2         | 1 | piece |
| GJF1101903R0003 | SA3 Locking Device, Set incl. padlock                                                     | SA3         | 1 | piece |
| 1SAM201911R1012 | IB132-F Enclosure, GY/RD, IB132-F IP65 3 times lockable                                   |             | 1 | piece |
| 1SAM201911R1010 | IB132-G Enclosure, GY/BK, IB132-G IP65 Standard version, 3 times lockable                 |             | 1 | piece |
| 1SAM201911R1011 | IB132-Y Enclosure, RD/YE, IB132-Y IP65 Emergency-STOP, 3 times lockable                   |             | 1 | piece |
| 1SAM201912R1010 | DMS132-G Door Mounting Kit, GY/BK, IP65 Standard version, 3 times lockable                | DMS132-G    | 1 | piece |
| 1SAM201912R1011 | DMS132-Y Door Mounting Kit, RD/YE, IP65 Emergency-STOP, 3 times lockable                  | DMS132-Y    | 1 | piece |

|                 |                                                                     |          |   |       |
|-----------------|---------------------------------------------------------------------|----------|---|-------|
| 1SAM201909R1021 | MSAH1 Shaft Supporter suitable for MS116, MS132/MO132               | MSAH1    | 1 | piece |
| 1SAM201920R1001 | MSHD-LB Handle, IP64, black, 3 times lockable, defeatable, 0-I      | MSHD-LB  | 1 | piece |
| 1SAM201920R1002 | MSHD-LY Handle, IP64, red/yellow, 3 times lockable, defeatable, 0-I | MSHD-LY  | 1 | piece |
| 1SAM201920R1000 | MSH-AR Shaft alignment ring suitable for MSHD and MSH handles       | MSH-AR   | 1 | piece |
| 1SAM101923R0002 | MSMN Driver w. screw for MSMN manual motor starters, 6x6            |          | 1 | piece |
| 1SCA101655R1001 | OX56X130 SHAFT                                                      | OX56X130 | 1 | piece |
| 1SAM101923R0012 | MSMNO Driver w/o coding w. screw for manual motor starters, 6x6     | MSMNO    | 1 | piece |
| 1SCA101659R1001 | OX56X180 SHAFT                                                      | OX56X180 | 1 | piece |
| 1SCA101647R1001 | OX56X85 SHAFT                                                       | OX56X85  | 1 | piece |
| 1SCA108043R1001 | OX56X105 SHAFT                                                      | OX56X105 | 1 | piece |

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