PRODUCT-DETAILS

# MS116-4.0

## MS116-4.0 Manual Motor Starter 2.5 ... 4.0 A



Submitted by TECO Group

### General Information

| | |
|---|---|
| **Extended Product Type:** | MS116-4.0 |
| **Product ID:** | 1SAM250000R1008 |
| **EAN:** | 4013614320316 |
| **Catalog Description:** | MS116-4.0 Manual Motor Starter 2.5 ... 4.0 A |
| **Long Description:** | The MS116-4.0 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 Ie = 4.0 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 Ics = 50 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:** | MS116-4.0 |

### Ordering

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| **Minimum Order Quantity:** | 1 piece |

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| **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:** | 1SAM200505F0108 |
| **$I^2t$ Characteristic:** | 1SAM200507F0001<br>1SAM200507F0002<br>1SAM200507F0003 |
| **Cut-off Current Characteristic:** | 1SAM200508F0001<br>1SAM200508F0002<br>1SAM200508F0003 |
| **CAD Dimensional Drawing:** | 2CDC001079B0201 |
| **Dimension Diagram:** | 1SAM200422F0001 |

## Dimensions

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| **Product Net Width:** | 45 mm |
| **Product Net Height:** | 90 mm |
| **Product Net Depth / Length:** | 85.6 mm |
| **Product Net Weight:** | 0.265 kg |

## Technical

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|---|---|
| **Rated Service Short-Circuit Breaking Capacity ($I_{cs}$):** | (230 V AC) 50 kA<br>(400 V AC) 50 kA<br>(440 V AC) 6 kA<br>(500 V AC) 6 kA<br>(690 V AC) 2 kA |
| **Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$):** | (230 V AC) 75 kA<br>(400 V AC) 75 kA<br>(440 V AC) 18 kA<br>(500 V AC) 15 kA<br>(690 V AC) 3 kA |
| **Rated Instantaneous Short-Circuit Current Setting ($I_i$):** | 50 A |
| **Setting Range:** | 2.5 ... 4.0 A |
| **Rated Operational Power AC-3 ($P_e$):** | (400 V) Three Phase 1.5 kW |
| **Rated Operational Power AC-3e ($P_e$):** | (400 V) Three Phase 1.5 kW |
| **Rated Operational Voltage:** | Main Circuit 690 V AC |
| **Rated Operational Current ($I_e$):** | 4 A |
| **Rated Operational Current AC-3 ($I_e$):** | 4 A |
| **Rated Operational Current AC-3e ($I_e$):** | 4 A |
| **Rated Frequency (f):** | Main Circuit 50 Hz<br>Main Circuit 60 Hz |

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|---|---|
| **Rated Impulse Withstand Voltage ($U_{imp}$):** | Main Circuit 6 kV |
| **Rated Insulation Voltage ($U_i$):** | 690 V |
| **Power Loss:** | at Rated Operating Conditions per Pole 0.7 ... 1.8 W |
| **Number of Poles:** | 3P |
| **Conventional Free-air Thermal Current ($I_{th}$):** | Main Circuit 4 A |
| **Degree of Protection:** | Housing IP20<br>Main Circuit Terminals IP10 |
| **Pollution Degree:** | 3 |
| **Electrical Durability:** | 100000 cycle |
| **Mechanical Durability:** | Nr. Operations 100000 cycle |
| **Terminal Type:** | Screw Terminals |
| **Connecting Capacity Main Circuit:** | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm²<br>Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm²<br>Flexible 1/2x 0.75 ... 2.5 mm²<br>Rigid 1/2x 1 ... 4 mm² |
| **Tightening Torque:** | Main Circuit 0.8 ... 1.2 N·m |
| **Wire Stripping Length:** | Main Circuit 9 mm |
| **Recommended Screw Driver:** | Pozidriv 2 |
| **Mounting Position:** | 1 ... 6<br>any |
| **Mounting on DIN Rail:** | 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 |
| **Minimum Mounting Distance:** | 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 |
| **Contact Position Indication:** | ON / OFF |
| **Standards:** | 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 |

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## Technical UL/CSA

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|---|---|
| **Short-Circuit Current Rating (SCCR):** | 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 |
| **Maximum Operating Voltage UL/CSA:** | Main Circuit 600 V AC |
| **Horsepower Rating UL/CSA:** | (200 V AC) Three Phase 0.75 Hp<br>(208 V AC) Three Phase 0.75 Hp<br>(220 ... 240 V AC) Three Phase 1 Hp<br>(440 ... 480 V AC) Three Phase 2 Hp<br>(550 ... 600 V AC) Three Phase 3 Hp |
| **Full Load Amps Motor Use:** | (200 V AC) Three Phase 4 A<br>(208 V AC) Three Phase 4 A<br>(220 ... 240 V AC) Three Phase 4 A<br>(440 ... 480 V AC) Three Phase 4 A<br>(550 ... 600 V AC) Three Phase 3.9 A |

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|---|---|
| **Locked Rotor Amps:** | (200 V AC) Three Phase 24 A<br>(208 V AC) Three Phase 24 A<br>(220 ... 240 V AC) Three Phase 24 A<br>(440 ... 480 V AC) Three Phase 24 A<br>(550 ... 600 V AC) Three Phase 25.6 A |
| **General Use Rating UL/CSA:** | (600 V AC) 4 A |
| **Connecting Capacity Main Circuit UL/CSA:** | Flexible 1/2x 16-12 AWG<br>Stranded 1/2x 16-12 AWG |
| **Tightening Torque UL/CSA:** | Main Circuit 10 in·lb |

## Environmental

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

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## Material Compliance

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

## ABB EcoSolutions

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| **ABB EcoSolutions:** | Yes |
| **ABB Site Meeting Group Waste To Landfill Target:** | No non-hazardous waste is sent to a landfill |
| **EcoSolutions Profile:** | 1SFC100125C0353 |
| **End Of Life Disassembling Instructions:** | 1SAC200331H0001 |
| **Environmental Product Declaration - EPD:** | 1SAC200359H0001<br>1SAC200384H0001 |
| **Improved Energy Efficiency for Customers:** | Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line |
| **Recyclability Rate of the Product acc. to EN45555:** | Design for Closing Resource Loops - Standard EN45555 - 88 % |

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## Certificates and Declarations

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

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## Container Information

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|---|---|
| **Package Level 1 Units:** | box 1 piece |
| **Package Level 1 Width:** | 92 mm |
| **Package Level 1 Depth / Length:** | 95 mm |
| **Package Level 1 Height:** | 50 mm |
| **Package Level 1 Gross Weight:** | 0.28 kg |
| **Package Level 1 EAN:** | 4013614320316 |
| **Package Level 2 Units:** | carton 40 piece |
| **Package Level 2 Width:** | 280 mm |
| **Package Level 2 Depth / Length:** | 395 mm |
| **Package Level 2 Height:** | 210 mm |
| **Package Level 2 Gross Weight:** | 11.586 kg |
| **Package Level 2 EAN:** | 4013614408687 |

## External Classifications and Standards

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|---|---|
| **Object Classification Code:** | F |
| **ETIM 9:** | EC000074 - Motor protection circuit-breaker |

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|---|---|
| **ETIM 10:** | EC000074 - Motor protection circuit-breaker |
| **eClass:** | V11.0 : 27370401 |
| **UNSPSC:** | 39121521 |
| **IDEA Granular Category Code (IGCC):** | 4731 >> Manual Starters |
| **E-Number (Finland):** | 3706008 |
| **E-Number (Norway):** | 4364274 |
| **E-Number (Sweden):** | 3111944 |

## 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 1 NO + 1 NC | SK1-11 | 1 | piece |
| 1SAM201903R1201 | SK1-11K Signaling Contact 1 NO + 1 NC with Push-In terminals | SK1-11K | 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 |

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| Identifier | Description | Type | Qty | Unit Of Measure |
|---|---|---|---|---|
| 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, Ie=65A | PS1-2-0-65 | 1 | piece |
| 1SAM201906R1112 | PS1-2-1-65 3-phase busbar for 2 MS116 / MS132 with 1 HK/SK, Ie=65A | PS1-2-1-65 | 1 | piece |
| 1SAM201906R1122 | PS1-2-2-65 3-phase busbar for 2 MS116 / MS132 with 2 HK/SK, Ie=65A | PS1-2-2-65 | 1 | piece |
| 1SAM201916R1103 | PS1-3-0-100 3-phase busbar for 3 MS116 / MS132, Ie=100A | PS1-3-0-100 | 1 | piece |
| 1SAM201906R1103 | PS1-3-0-65 3-phase busbar for 3 MS116 / MS132, Ie=65A | PS1-3-0-65 | 1 | piece |
| 1SAM201916R1113 | PS1-3-1-100 3-phase busbar for 3 MS116 /MS132 with 1 HK/SK, Ie=100A | PS1-3-1-100 | 1 | piece |
| 1SAM201906R1113 | PS1-3-1-65 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, Ie=65A | PS1-3-1-65 | 1 | piece |
| 1SAM201916R1123 | PS1-3-2-100 3-phase busbar for 3 MS116 /MS132 with 2 HK/SK, Ie=100A | PS1-3-2-100 | 1 | piece |
| 1SAM201906R1123 | PS1-3-2-65 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, Ie=65A | PS1-3-2-65 | 1 | piece |
| 1SAM201916R1104 | PS1-4-0-100 3-phase busbar for 4 MS116 / MS132, Ie=100A | PS1-4-0-100 | 1 | piece |
| 1SAM201906R1104 | PS1-4-0-65 3-phase busbar for 4 MS116 / MS132, Ie=65A | PS1-4-0-65 | 1 | piece |
| 1SAM201916R1114 | PS1-4-1-100 3-phase busbar for 4 MS116 /MS132 with 1 HK/SK, Ie=100A | PS1-4-1-100 | 1 | piece |
| 1SAM201906R1114 | PS1-4-1-65 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, Ie=65A | PS1-4-1-65 | 1 | piece |
| 1SAM201906R1124 | PS1-4-2-65 3-phase busbar for 4 MS116 / MS132 with 2 HK/SK, Ie=65A | PS1-4-2-65 | 1 | piece |
| 1SAM201916R1105 | PS1-5-0-100 3-phase busbar for 5 MS116 / MS132, Ie=100A | PS1-5-0-100 | 1 | piece |
| 1SAM201906R1105 | PS1-5-0-65 3-phase busbar for 5 MS116 / MS132, Ie=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, 25mm2 | S1-M1-25 | 1 | piece |
| 1SAM201907R1102 | S1-M2-25 3-phase power infeed block High, for MS116 / MS132, 25mm2 | S1-M2-25 | 1 | piece |
| 1SAM201907R1103 | S1-M3-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm2, Type E | S1-M3-25 | 1 | piece |
| 1SAM201913R1103 | S1-M3-35 3-phase power infeed block Flat, for MS116 / MS132, 35mm2, Type E | S1-M3-35 | 1 | piece |
| 1SAM201914R1002 | S1-PB1-25 1-phase power infeed block for MS116 / MS132 / MS132-T, 25mm2, 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 busbars empty places | BS1-3 | 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 |

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| Identifier | Description | Type | Qty | Unit Of Measure |
|---|---|---|---|---|
| 1SAM201911R1012 | IB132-F Enclosure, GY/RD, IP65 3 times lockable | IB132-F | 1 | piece |
| 1SAM201911R1010 | IB132-G Enclosure, GY/BK, IP65 Standard version, 3 times lockable | IB132-G | 1 | piece |
| 1SAM201911R1011 | IB132-Y Enclosure, RD/YE, IP65 Emergency-STOP, 3 times lockable | IB132-Y | 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 manual motor staters, 6x6 | MSMN | 1 | piece |
| 1SCA101655R1001 | OXS6X130 SHAFT | OXS6X130 | 1 | piece |
| 1SAM101923R0012 | MSMNO Driver w/o coding w. screw for manual motor staters, 6x6 | MSMNO | 1 | piece |
| 1SCA101659R1001 | OXS6X180 SHAFT | OXS6X180 | 1 | piece |
| 1SCA101647R1001 | OXS6X85 SHAFT | OXS6X85 | 1 | piece |
| 1SCA108043R1001 | OXS6X105 SHAFT | OXS6X105 | 1 | piece |

## Categories

Products > Low Voltage Products and Systems > Circuit Breakers > Manual Motor Starters

Products > Low Voltage Products and Systems > Control Products > Manual Motor Starters > Manual Motor Starters




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