

MS116-4.0

ABB contact for Mexico [View in vista](#)
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Informacion General

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|------------------------|--|
| Extended Product Type: | MS116-4.0 |
| Product ID: | 1SAM250000R1008 |
| EAN: | 4013614320316 |
| Catalog Description: | MS116-4.0 Manual Motor Starter |
| Long Description: | <p>The MS116-4.0 manual motor starter is a compact 45 mm width devices with a rated operational current of $I_e = 4.0$ 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 $I_{cs} = 50$ kA at 400 VAC and the 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, signalling 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.</p> |



Categorias

Productos » Productos y sistemas de baja tensión » Aparatos de control » Guardamotores » Guardamotores
Productos » Productos y sistemas de baja tensión » Interruptores automáticos » Guardamotores

Accessories [Show accessory images](#)

Ordering

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|-------------------------|---------------|
| EAN: | 4013614320316 |
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85362010 |

Container Information

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| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 92 mm |
| Package Level 1 Length: | 95 mm |
| Package Level 1 Height: | 50 mm |
| Package Level 1 Gross Weight: | 0.28 kg |
| Package Level 2 Units: | 40 piece |
| Package Level 2 Width: | 280 mm |
| Package Level 2 Length: | 395 mm |
| Package Level 2 Height: | 210 mm |

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| Package Level 2 Gross Weight: | 11.586 kg |
| Package Level 2 EAN: | 4013614408687 |

Dimensions

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| Product Net Width: | 45 mm |
| Product Net Height: | 90 mm |
| Product Net Depth: | 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 (400 V AC) 50 kA (440 V AC) 6 kA (500 V AC) 6 kA (690 V AC) 2 kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}): | (230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 6 kA (500 V AC) 6 kA (690 V AC) 2 kA |
| Rated Instantaneous Short-Circuit Current Setting (I_i): | 50 A |
| Setting Range: | 2.5 ... 4 A |
| Rated Operational Power AC-3 (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 Frequency (f): | Main Circuit 50 Hz Main Circuit 60 Hz |
| Rated Impulse Withstand Voltage (U_{imp}): | Main Circuit 6 kV |
| Rated Insulation Voltage (U_i): | 690 V |
| Power Loss: | per Pole 0.7 ... 1.8 W |
| Number of Poles: | 3 |
| Conventional Free-air Thermal Current (I_{th}): | Main Circuit 4 A |
| Degree of Protection: | IP20 |
| Pollution Degree: | 3 |
| Electrical Durability: | 100000 cycle |
| Mechanical Durability: | 100000 cycle |
| Connecting Capacity-Main Circuit: | Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible 1/2x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 4 mm ² |
| Tightening Torque: | Main Circuit 0.8 ... 1.2 N·m |
| Wire Stripping Length: | Main Circuit 9 mm |
| Recommended Screw Driver: | Pozidriv 2 |
| Mounting Position: | Position 1 to 6 |
| Actuator Type: | Rotary Handle |
| Contact Position Indication: | ON / OFF |
| Mounting on DIN Rail: | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |

TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

Standards:

IEC/EN 60947-1
 IEC/EN 60947-2
 IEC/EN 60947-4-1
 UL 60947-1
 UL 60947-4-1

Environmental

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| Ambient Air Temperature: | Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Operation Compensated -25 ... +55 °C 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 250 m/s ² |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 5g / 3 ... 150 Hz |
| RoHS Status: | Following EU Directive 2002/95/EC August 18, 2005 and amendment |

Technical UL/CSA

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|---|---|
| Maximum Operating Voltage UL/CSA: | Main Circuit 600 V AC |
| Horsepower Rating UL/CSA: | (220 ... 240 V AC) Three Phase 1 Hp (440 ... 480 V AC) Three Phase 2 Hp (550 ... 600 V AC) Three Phase 3 Hp |
| Ampere Rating UL/CSA: | 4 A |
| General Use Rating UL/CSA: | (600 V AC) 4 A |
| Connecting Capacity-Main Circuit UL/CSA: | Flexible 1/2x 16 ... 12 AWG Stranded 1/2x 16 ... 12 AWG |
| Tightening Torque UL/CSA: | Main Circuit 10 in·lb |

Certificates and Declarations (Document Number)

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|--|-----------------|
| ABS Certificate: | 1SAA963000-0102 |
| BV Certificate: | 1SAA963000-0202 |
| CB Certificate: | 1SAA963000-2003 |
| CCC Certificate: | 1SAA963000-3803 |
| cUL Certificate: | cUL_E137861 |
| Declaration of Conformity - CE: | 1SAD938515-0060 |
| DNV Certificate: | 1SAA963000-0303 |
| EAC Certificate: | 1SAA963000-2701 |
| GL Certificate: | 1SAA963000-0402 |
| GOST Certificate: | 1SAA963001-2701 |
| LR Certificate: | 1SAA963000-0504 |
| RMRS Certificate: | 1SAA918000-0703 |
| RoHS Information: | 1SAA963001-4407 |
| UL Certificate: | UL_E137861 |

Classifications

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|------------------------------------|--------------|
| Object Classification Code: | F |
| eClass: | 7.0 27370401 |
| E-nummer: | 3111944 |
| UNSPSC: | 39121521 |
