MS116-1.0



Products Low Voltage Products and Systems Circuit Breakers Manual Motor Starters

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General Information

Extended Product Type: MS116-1.0

 Product ID:
 1SAM250000R1005

 EAN:
 4013614320286

Catalog Description: MS116-1.0 Manual Motor Starter

Long Description: The MS116-1.0 manual motor starter is a compact 45 mm width devices with a rated operat

ional current of le = 1.0 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 phas e failures. The manual motor starter offers a rated service short-circuit breaking capacity lc s = 50 kA at 400 VAC and the trip class 10A. Further features are the build-in disconnect f unction, temperature compensation, trip-free mechanism and a rotary handle with a clear s witch position indication. The manual motor starter is suitable for three- and single-phase a pplications. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-ph ase bus bars, power in-feed blocks and locking devices for protection against unauthorized

changes are available as accessory.

Additional Information

ABS Certificate:	1SAA963000-0104
Actuator Type:	Rotary Handle
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
Ampere Rating UL/CSA:	1 A
BV Certificate:	1SAA963000-0204
CB Certificate:	1SAA963000-2003
CCC Certificate:	1SAA963000-3804
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG
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
Contact Position Indication:	ON/ OFF
Conventional Free-air Thermal Current (I _{th}):	Main Circuit 1 A
Core Credit:	0.00
Country of Origin:	Germany (DE)
Customs Tariff Number:	85362010
DNV Certificate:	1SAA963000-0303
Data Sheet, Technical Information:	2CDC131025D0201
Data Sheet, Technical Information (Part 2):	1SAM200505F0005
Data Sheet, Technical Information (Part 3):	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003 1SAM200508F0001 1SAM200508F0002 1SAM200508F0003
Declaration of Conformity - CE:	1SAD938516-0060

Degree of Protection:	Housing IP20 Main Circuit Terminals IP10
Dimension Diagram:	1SAM200422F0001
E-nummer:	3111938
EAC Certificate:	1SAA963000-2701
EAN:	
	4013614320286
EPLAN Catalog Tree:	Electrical engineering / Protection devices / Motor overload switch
EPLAN Function Definition:	Motor overload switch / Motor overload switch, 6 connection points / Motor overload switch thr ee-pole 1_2_3_4_5_6
ETIM 4:	EC000074 - Motor protective circuit-breaker
ETIM 5:	EC000074 - Motor protective circuit-breaker
ETIM 6:	EC000074 - Motor protection circuit-breaker
Electrical Durability:	100000 cycle
Environmental Information:	1SAA963001-2401
GL Certificate:	1SAA963000-0402
GOST Certificate:	1SAA963001-2702
General Use Rating UL/CSA:	(600 V AC) 1 A
Horsepower Rating UL/CSA:	(550 600 V AC) Three Phase 0.5 Hp
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	2CDC131011M6802
Invoice Description:	MS116-1.0 Manual Motor Starter Trip class 10A, 0.63 1.0A
LR Certificate:	1SAA963000-0505
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Mechanical Durability:	100000 cycle
Mechanical Durability: Minimum Order Quantity:	100000 cycle 1 piece
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Minimum Order Quantity:	1 piece
Minimum Order Quantity: Mounting Position:	1 piece Position 1 to 6 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail:	1 piece Position 1 to 6 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
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles:	1 piece Position 1 to 6 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
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles:	1 piece Position 1 to 6 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 3 3
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight:	1 piece Position 1 to 6 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 3 3
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height:	1 piece Position 1 to 6 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 3 F 0.24 kg
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Length:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Length: Package Level 1 Units: Package Level 1 Width:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm 1 piece
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Length: Package Level 1 Units:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Length: Package Level 1 Units: Package Level 1 Width: Package Level 2 EAN: Package Level 2 Gross Weight:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Width: Package Level 2 EAN:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Width: Package Level 2 EAN: Package Level 2 Height: Package Level 2 Height: Package Level 2 Height:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Length: Package Level 1 Units: Package Level 2 EAN: Package Level 2 Gross Weight: Package Level 2 Height: Package Level 2 Length: Package Level 2 Length: Package Level 2 Length: Package Level 2 Units:	1 piece Position 1 to 6 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 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Width: Package Level 2 Gross Weight: Package Level 2 Height: Package Level 2 Height: Package Level 2 Units: Package Level 2 Units: Package Level 2 Units:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece 280 mm
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Width: Package Level 2 EAN: Package Level 2 Height: Package Level 2 Height: Package Level 2 Height: Package Level 2 Units: Package Level 2 Units: Package Level 2 Width: Part Type:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece 280 mm New
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Width: Package Level 2 Gross Weight: Package Level 2 Height: Package Level 2 Height: Package Level 2 Units: Package Level 2 Units: Package Level 2 Units: Package Level 2 Width: Part Type: Phase Loss Sensitive:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece 280 mm New Yes
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Units: Package Level 2 EAN: Package Level 2 Fan: Package Level 2 Height: Package Level 2 Height: Package Level 2 Units: Package Level 2 Units: Package Level 2 Units: Package Level 2 Width: Part Type: Phase Loss Sensitive: Pollution Degree:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece 280 mm New Yes 3
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Width: Package Level 2 EAN: Package Level 2 Height: Package Level 2 Height: Package Level 2 Height: Package Level 2 Height: Package Level 2 Units: Package Level 2 Units: Package Level 2 Units: Package Level 2 Width: Part Type: Phase Loss Sensitive: Pollution Degree: Power Loss:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece 280 mm New Yes 3 at Rated Operating Conditions per Pole 0.7 1.7 W
Minimum Order Quantity: Mounting Position: Mounting on DIN Rail: Number of Poles: Number of Protected Poles: Object Classification Code: Package Level 1 Gross Weight: Package Level 1 Height: Package Level 1 Units: Package Level 1 Units: Package Level 2 EAN: Package Level 2 Fan: Package Level 2 Height: Package Level 2 Height: Package Level 2 Units: Package Level 2 Units: Package Level 2 Units: Package Level 2 Width: Part Type: Phase Loss Sensitive: Pollution Degree:	1 piece Position 1 to 6 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 3 3 F 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408656 9.986 kg 210 mm 395 mm 40 piece 280 mm New Yes 3

Product Name:	Manual Motor Starter
Product Net Depth:	85.6 mm
Product Net Height:	90 mm
Product Net Weight:	0.225 kg
Product Net Width:	45 mm
RMRS Certificate:	1SAA918000-0703
Rated Current (I _n):	
	1 A
Rated Frequency (f):	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U _{imp}):	Main Circuit 6 kV
Rated Instantaneous Short-Circuit Current Setting (I_i):	12.5 A
Rated Insulation Voltage (U _i):	690 V
Rated Operational Current (I _e):	1 A
Rated Operational Current AC-3 (I _e):	1 A
Rated Operational Power AC-3 (P _e):	(400 V) Three Phase 0.25 kW
Rated Operational Voltage:	Main Circuit 690 V AC
Rated Service Short-Circuit Breaking Capacity (I _{cs}):	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 30 kA (500 V AC) 30 kA (690 V AC) 30 kA
Rated Service Short-Circuit Breaking Capacity, in %of Icu (I _{cs}):	100 %
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu}):	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 30 kA (500 V AC) 30 kA (690 V AC) 30 kA
Rated Uninterrupted Current (I _u):	1 A
Recommended Screw Driver:	Pozidriv 2
Resistance to Shock acc. to IEC 60068-2-27:	11 ms Pulse 25g
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 3 150 Hz
RoHS Date:	1105
RoHS Information:	1SAA963001-4409
RoHS Status:	Planned to follow EU Directive 2002/95/EC August 18, 2005 and amendment after 2008 Q1
Selectivity Category:	A
Selling Unit of Measure:	piece
Setting Range:	0.63 1 A
Short Description:	MS116-1.0 Manual Motor Starter
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1
Suitable for Isolation:	Yes
Terminal Type:	Screw Terminals
Tightening Torque:	Main Circuit 0.8 1.2 N·m
Tightening Torque UL/CSA:	Main Circuit 10 in·lb
Trip Class:	10A
UL Certificate:	UL_E137861
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UNSPSC:	39121521
Utilization:	Motor Protection
Wire Stripping Length:	Main Circuit 9 mm
cUL Certificate:	cUL_E137861
eClass:	7.0 27370401

