# MS116-0.63



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

Parts & Services Drives Medium voltage AC drives Industrial drives ACS2000

Parts & Services Drives Medium voltage AC drives Special purpose drives ACS1000

General Information

Extended Product Type: MS116-0.63

**Product ID:** 1SAM250000R1004 **EAN:** 4013614320279

Catalog Description: MS116-0.63 Manual Motor Starter

Long Description: The MS116-0.63 manual motor starter is a compact 45 mm width devices with a rated oper

ational current of le = 0.63 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 ph ase failures. The manual motor starter offers a rated service short-circuit breaking capacity lcs = 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-p hase bus bars, power in-feed blocks and locking devices for protection against unauthorize

d 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:	0.63 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 <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 2.5 mm <sup>2</sup> Flexible 1/2x 0.75 2.5 mm <sup>2</sup> Rigid 1/2x 1 4 mm <sup>2</sup>	
Contact Position Indication:	ON/ OFF	
Conventional Free-air Thermal Current (I <sub>th</sub> ):	Main Circuit 0.63 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):	1SAM200505F0004	
Data Sheet, Technical Information (Part 3):	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003 1SAM200508F0001	

	15AM200508F002
Declaration of Conformity - CE:	1SAM200508F0003 1SAD938516-0060
Degree of Protection:	Housing IP20
begree of Frotestion.	Main Circuit Terminals IP10
Dimension Diagram:	1SAM200422F0001
E-nummer:	3111936
EAC Certificate:	1SAA963000-2701
EAN:	4013614320279
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) 0.63 A
IIT Publishing Status:	Level 0 - Information enabled
Industrial IT Certification Level:	0
Instructions and Manuals:	2CDC131011M6802
Invoice Description:	MS116-0.63 Manual Motor Starter Trip class 10A, 0.4 0.63A
LR Certificate:	1SAA963000-0505
Maximum Operating Altitude Permissible:	2000 m
Maximum Operating Altitude Permissible:  Maximum Operating Voltage UL/CSA:	2000 m Main Circuit 600 V AC
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Maximum Operating Voltage UL/CSA: Mechanical Durability:	Main Circuit 600 V AC 100000 cycle
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:	Main Circuit 600 V AC 100000 cycle 1 piece
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:	Main Circuit 600 V AC  100000 cycle  1 piece  Position 1 to 6  TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:	Main Circuit 600 V AC  100000 cycle  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
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:	Main Circuit 600 V AC  100000 cycle  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
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:	Main Circuit 600 V AC  100000 cycle  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
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:	Main Circuit 600 V AC  100000 cycle  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
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Gross Weight:  Package Level 1 Height:	Main Circuit 600 V AC  100000 cycle  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 4013614320279
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Gross Weight:	Main Circuit 600 V AC  100000 cycle  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  4013614320279  0.24 kg
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Gross Weight:  Package Level 1 Height:	Main Circuit 600 V AC  100000 cycle  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  4013614320279  0.24 kg  50 mm
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Gross Weight:  Package Level 1 Height:  Package Level 1 Length:	Main Circuit 600 V AC  100000 cycle  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 4013614320279 0.24 kg 50 mm 95 mm
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:  Package Level 1 Units:  Package Level 1 Width:  Package Level 2 EAN:	Main Circuit 600 V AC  100000 cycle  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  4013614320279  0.24 kg  50 mm  95 mm  1 piece  92 mm  4013614408649
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  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:	Main Circuit 600 V AC  100000 cycle  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  4013614320279 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408649 9.986 kg
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  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:  Package Level 2 Height:	Main Circuit 600 V AC  100000 cycle  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  4013614320279 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408649 9.986 kg 210 mm
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:  Package Level 1 Units:  Package Level 2 EAN:  Package Level 2 EAN:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Length:	Main Circuit 600 V AC  100000 cycle  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  4013614320279 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408649 9.986 kg
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Gross Weight:  Package Level 1 Height:  Package Level 1 Units:  Package Level 2 Units:  Package Level 2 EAN:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Length:  Package Level 2 Length:  Package Level 2 Length:  Package Level 2 Units:	Main Circuit 600 V AC  100000 cycle  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  4013614320279 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408649 9.986 kg 210 mm 395 mm 40 piece
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Height:  Package Level 1 Length:  Package Level 1 Units:  Package Level 2 EAN:  Package Level 2 EAN:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Length:	Main Circuit 600 V AC  100000 cycle  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  4013614320279  0.24 kg  50 mm  95 mm  1 piece  92 mm  4013614408649  9.986 kg  210 mm  395 mm
Maximum Operating Voltage UL/CSA:  Mechanical Durability:  Minimum Order Quantity:  Mounting Position:  Mounting on DIN Rail:  Number of Poles:  Number of Protected Poles:  Object Classification Code:  Package Level 1 EAN:  Package Level 1 Gross Weight:  Package Level 1 Height:  Package Level 1 Units:  Package Level 2 Units:  Package Level 2 EAN:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Height:  Package Level 2 Length:  Package Level 2 Length:  Package Level 2 Length:  Package Level 2 Units:	Main Circuit 600 V AC  100000 cycle  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  4013614320279 0.24 kg 50 mm 95 mm 1 piece 92 mm 4013614408649 9.986 kg 210 mm 395 mm 40 piece

Pollution Degree:

3

Power Loss:	at Rated Operating Conditions per Pole 0.7 1.7 W	
Product Main Type:	MS116	
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 <sub>n</sub> ):	0.63 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 $(I_i)$ :	7.9 A	
Rated Insulation Voltage (U <sub>i</sub> ):	690 V	
Rated Operational Current (I <sub>e</sub> ):	0.63 A	
Rated Operational Current AC-3 (I <sub>e</sub> ):	0.63 A	
Rated Operational Power AC-3 (P <sub>e</sub> ):	(400 V) Three Phase 0.18 kW	
Rated Operational Voltage:	Main Circuit 690 V AC	
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> ):	(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 <sub>cs</sub> ):	100 %	
Rated Ultimate Short-Circuit Breaking Capacity (Icu):	(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 <sub>u</sub> ):	0.63 A	
Recommended Screw Driver:	Pozidriv 2	
Resistance to Shock acc. to IEC 60068-2-27:		
21.	11 ms Pulse 25g	
Resistance to Vibrations acc. to IEC 60068-2-6:	11 ms Pulse 25g 5g / 3 150 Hz	
Resistance to Vibrations acc. to IEC		
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 3 150 Hz	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date:	5g / 3 150 Hz 1105	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information:	5g / 3 150 Hz 1105 1SAA963001-4409	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information: Selectivity Category:	5g / 3 150 Hz 1105 1SAA963001-4409	
Resistance to Vibrations acc. to IEC 60068-2-6:  RoHS Date:  RoHS Information:  Selectivity Category:  Selling Unit of Measure:	5g / 3 150 Hz  1105  1SAA963001-4409  A  piece	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information: Selectivity Category: Selling Unit of Measure: Setting Range:	5g / 3 150 Hz  1105  1SAA963001-4409  A  piece  0.4 0.63 A	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information: Selectivity Category: Selling Unit of Measure: Setting Range: Short Description:	5g / 3 150 Hz  1105  1SAA963001-4409  A  piece  0.4 0.63 A  MS116-0.63 Manual Motor Starter  IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information: Selectivity Category: Selling Unit of Measure: Setting Range: Short Description: Standards:	5g / 3 150 Hz  1105  1SAA963001-4409  A  piece  0.4 0.63 A  MS116-0.63 Manual Motor Starter  IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-1 UL 60947-1	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information: Selectivity Category: Selling Unit of Measure: Setting Range: Short Description: Standards:	5g / 3 150 Hz  1105  1SAA963001-4409  A  piece  0.4 0.63 A  MS116-0.63 Manual Motor Starter  IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 Ves	
Resistance to Vibrations acc. to IEC 60068-2-6: RoHS Date: RoHS Information: Selectivity Category: Selling Unit of Measure: Setting Range: Short Description: Standards: Suitable for Isolation: Terminal Type:	1105  1SAA963001-4409  A  piece  0.4 0.63 A  MS116-0.63 Manual Motor Starter  IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-1 Yes  Screw Terminals	

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UL Certificate:	UL_E137861	
UNSPSC:	39121521	
Utilization:	Motor Protection	
Wire Stripping Length:	Main Circuit 9 mm	
cUL Certificate:	cUL_E137861	
eClass:	7.0 27370401	
DNV GL Certificate:	1SAA963000-0303	

Where Used (as a spare part for "Products")

## 2 Products Filter

ldentifier	Description	Qty	Unit Of Measure
ACS 1000	No Description Available	1	piece
ACS 2000	No Description Available	1	piece

### Product specific part data

#### 2 Products Filter

Product	Category	Drive Part Category
ACS 2000	ACS2000	Switches, Relays, Contactors
ACS 1000	ACS1000	Switches, Relays, Contactors

