MS116-16



Products Low Voltage Products and Systems Circuit Breakers Manual Motor Starters

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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: MS116-16

 Product ID:
 1SAM250000R1011

 EAN:
 4013614320347

Catalog Description: MS116-16 Manual Motor Starter

Long Description: The MS116-16 manual motor starter is a compact 45 mm width devices with a rated operati

onal current of le = 16.0 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 = 16 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:	16 A	
BV Certificate:	1SAA963000-0204	
CB Certificate:	1SAA963000-2003	
CCC Certificate:	1SAA963000-3804	
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 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 16 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):	1SAM200505F0011	
Data Sheet, Technical Information (Part 3): 1SAM200507F0001 1SAM200507F0002 1SAM200507F0003 1SAM200508F0001		

	1SAM200508F0003		
Declaration of Conformity - CE:	1SAD938516-0060		
Degree of Protection:	Housing IP20		
	Main Circuit Terminals IP10		
Dimension Diagram:	1SAM200422F0001		
E-nummer:	3111950		
EAC Certificate:	1SAA963000-2701		
EAN:	4013614320347		
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) 16 A		
Horsepower Rating UL/CSA:	(220 240 V AC) Three Phase 5 Hp (440 480 V AC) Three Phase 10 Hp (550 600 V AC) Three Phase 10 Hp		
IIT Publishing Status:	Level 0 - Information enabled		
Industrial IT Certification Level:	0		
Instructions and Manuals:	2CDC131011M6802		
Invoice Description:	MS116-16 Manual Motor Starter Trip class 10A, 10 16A		
LR Certificate:	1SAA963000-0505		
Maximum Operating Altitude Permissible:	2000 m		
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC		
Mechanical Durability:	100000 cycle		
Minimum Order Quantity:	1 piece		
Mounting Position:	Position 1 to 6		
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		
Number of Poles:	3		
Number of Protected Poles:	3		
Object Classification Code:	F		
Package Level 1 EAN:	4013614320347		
Package Level 1 Gross Weight:	0.28 kg		
Package Level 1 Height:	50 mm		
Package Level 1 Length:	95 mm		
Package Level 1 Units:	1 piece		
Package Level 1 Width:	92 mm		
Package Level 2 EAN:	4013614408717		
Package Level 2 Gross Weight:	11.586 kg		
Package Level 2 Height:	210 mm		
Package Level 2 Length:	395 mm		
Package Level 2 Units:	40 piece		
Package Level 2 Width:	280 mm		
B4 T	A1.		

Part Type:	New		
Phase Loss Sensitive:	Yes		
Pollution Degree:	3		
Power Loss:	at Rated Operating Conditions per Pole 1.1 2.8 W		
Product Main Type:	MS116		
Product Name:	Manual Motor Starter		
Product Net Depth:	85.6 mm		
Product Net Height:	90 mm		
Product Net Weight:	0.265 kg		
Product Net Width:	45 mm		
RMRS Certificate:	1SAA918000-0703		
Rated Current (I _n):	16 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):	240 A		
Rated Insulation Voltage (U _i):	690 V		
Rated Operational Current (I _e):	16 A		
Rated Operational Current AC-3 (l _e):	16 A		
Rated Operational Power AC-3 (P _e):	(400 V) Three Phase 7.5 kW		
Rated Operational Voltage:	Main Circuit 690 V AC		
Rated Service Short-Circuit Breaking Capacity (I _{cs}):	(230 V AC) 16 kA (400 V AC) 16 kA (440 V AC) 4 kA (500 V AC) 4 kA (690 V AC) 2 kA		
Rated Service Short-Circuit Breaking Capacity, in % of Icu (I _{cs}):	100 %		
Rated Ultimate Short-Circuit Breaking Capacity (Icu):	(230 V AC) 16 kA (400 V AC) 16 kA (440 V AC) 4 kA (500 V AC) 4 kA (690 V AC) 2 kA		
Rated Uninterrupted Current (I _u):	16 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		
Selectivity Category:	A		
Selling Unit of Measure:	piece		
Setting Range:	10 16 A		
Short Description:	MS116-16 Manual Motor Starter		
Short-Circuit Protective Devices:	gG Type Fuses 63 A, 440 V AC gG Type Fuses 63 A, 500 V AC gG Type Fuses 63 A, 690 V AC gG Type Fuses 80 A, 230 V AC gG Type Fuses 80 A, 400 V AC		
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:	ScrewTerminals	
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	
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

