MS116-1.6

ABB contact for Malaysia

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General Information



Extended Product Type:	MS116-1.6
Product ID:	1SAM250000R1006
EAN:	4013614320293
Catalog Description:	MS116-1.6 Manual Motor Starter
Long Description:	The MS116-1.6 manual motor starter is a compact 45 mm width devices with a rated operational current of Ie = 1.6 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 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.

Categories (Show All..)

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 » ACS1000

SparePartUsedOnList

Ordering

EAN:	4013614320293
Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010

Dimensions

Product Net Width:	45 mm
Product Net Height:	90 mm
Product Net Depth:	85.6 mm
Product Net Weight:	0.265 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	92 mm
Package Level 1 Height:	50 mm
Package Level 1 Length:	95 mm
Package Level 1 Gross Weight:	0.28 kg
Package Level 2 Units:	40 piece
Package Level 2 Width:	280 mm
Package Level 2 Height:	210 mm
Package Level 2 Length:	395 mm
Package Level 2 Gross Weight:	11.586 kg
Package Level 2 EAN:	4013614408663

Environmental

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 25g
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

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	1.6 A
Horsepower Rating UL/CSA:	(440 ... 480 V AC) Three Phase 0.75 Hp (550 ... 600 V AC) Three Phase 0.75 Hp
General Use Rating UL/CSA:	(600 V AC) 1.6 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

Additional Information

Actuator Type:	Rotary Handle
Connecting Capacity-Main Circuit:	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm² Flexible with Insulated Ferrule 1/2x 0.75 ... 2.5 mm² Flexible 1/2x 0.75 ... 2.5 mm² Rigid 1/2x 1 ... 4 mm²
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 1.6 A
Degree of Protection:	IP20
Electrical Durability:	100000 cycle

IIT Publishing Status:	Level 0 - Information enabled
Mechanical Durability:	100000 cycle
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
Mounting Position:	Position 1 to 6
Number of Poles:	3
Number of Protected Poles:	3
Pollution Degree:	3
Power Loss:	per Pole 0.7 ... 1.7 W
Product Main Type:	MS116
Product Name:	Manual Motor Starter
Rated Current (I_n):	1.6 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):	20 A
Rated Insulation Voltage (U_i):	690 V
Rated Operational Current (I_e):	1.6 A
Rated Operational Current AC-3 (I_e):	1.6 A
Rated Operational Power AC-3 (P_e):	(400 V) Three Phase 0.55 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):	1.6 A
Recommended Screw Driver:	Pozidriv 2
RoHS Date:	0276
Setting Range:	1 ... 1.6 A
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1
Terminal Type:	Screw Terminals
Tightening Torque:	Main Circuit 0.8 ... 1.2 N·m
Wire Stripping Length:	Main Circuit 9 mm

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA963000-0104
BV Certificate:	1SAA963000-0202
CB Certificate:	1SAA963000-2003
CCC Certificate:	1SAA963000-3803
cUL Certificate:	cUL_E137861
Data Sheet, Technical Information:	2CDC131025D0201
Data Sheet, Technical Information (Part 2):	1SAM200505F0006
Data Sheet, Technical Information (Part 3):	1SAM200507F0001;1SAM200507F0002;1SAM200507F0003;1SAM200508F0001
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

eClass:	7.0 27370401
E-nummer:	3111940
ETIM 4.0:	EC000074 - Motor protective circuit-breaker
ETIM 5.0:	EC000074 - Motor protective circuit-breaker
Object Classification Code:	F
UNSPSC:	39121521