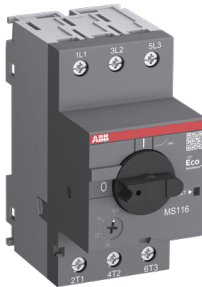




 PRODUCT-DETAILS

MS116-0.63

MS116-0.63 Manual Motor Starter 0.40 ... 0.63 A



General Information

Extended Product Type:	MS116-0.63
Product ID:	1SAM250000R1004
EAN:	4013614320279
Catalog Description:	MS116-0.63 Manual Motor Starter 0.40 ... 0.63 A
Long Description:	<p>The MS116-0.63 manual motor starter (also known as motor protection circuit breaker or manual motor protector) is a compact 45 mm width device with a rated operational current of $I_e = 0.63$ 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 phase failures. The manual motor starter offers a rated service short-circuit breaking capacity $I_{cs} = 50$ kA at 400 VAC and 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, signaling 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>
Display Name:	MS116-0.63

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010

Popular Downloads

Data Sheet, Technical Information:	2CDC131025D0201
Instructions and Manuals:	2CDC131011M6802
Instructions and Manuals (Part 2):	2CDC131060M0202
Time-Current Characteristic Curve:	1SAM200505F0104
I²t Characteristic:	1SAM200507F0001 1SAM200507F0002 1SAM200507F0003
Cut-off Current Characteristic:	1SAM200508F0001 1SAM200508F0002 1SAM200508F0003
CAD Dimensional Drawing:	2CDC001079B0201
Dimension Diagram:	1SAM200422F0001

Dimensions

Product Net Width:	45 mm
Product Net Height:	90 mm
Product Net Depth / Length:	85.6 mm
Product Net Weight:	0.225 kg

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 50 kA (500 V AC) 30 kA (690 V AC) 30 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 100 kA (500 V AC) 100 kA (690 V AC) 100 kA
Rated Instantaneous Short-Circuit Current Setting (I_i):	7.9 A
Setting Range:	0.40 ... 0.63 A
Rated Operational Power AC-3 (P_e):	(400 V) Three Phase 0.18 kW
Rated Operational Power AC-3e (P_e):	(400 V) Three Phase 0.18 kW
Rated Operational Voltage:	Main Circuit 690 V AC
Rated Operational Current (I_e):	0.63 A
Rated Operational Current AC-3 (I_e):	0.63 A
Rated Operational Current AC-3e (I_e):	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 Insulation Voltage (U_i):	690 V
Power Loss:	at Rated Operating Conditions per Pole 0.7 ... 1.7 W
Number of Poles:	3P
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 0.63 A
Degree of Protection:	Housing IP20 Main Circuit Terminals IP10
Pollution Degree:	3
Electrical Durability:	100000 cycle
Mechanical Durability:	Nr. Operations 100000 cycle
Terminal Type:	Screw Terminals
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:	1 ... 6 any
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
Minimum Mounting Distance:	Electrical Conductive Board, Horizontal - Up to 400 V 0 mm Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mm Electrical Conductive Board, Vertical 75 mm Other Device Same Type, Horizontal 0 mm Other Device Same Type, Vertical 150 mm
Actuator Type:	Rotary Handle
Contact Position Indication:	ON / OFF
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L

Technical UL/CSA

Short-Circuit Current Rating (SCCR):	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 30 kA Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 5 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC) 30 kA Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC) 5 kA
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Full Load Amps Motor Use:	(110 ... 120 V AC) Three Phase 0.63 A (200 V AC) Three Phase 0.63 A (208 V AC) Three Phase 0.63 A (220 ... 240 V AC) Three Phase 0.63 A (440 ... 480 V AC) Three Phase 0.63 A (550 ... 600 V AC) Three Phase 0.63 A

Locked Rotor Amps:	(110 ... 120 V AC) Three Phase 3.78 A (200 V AC) Three Phase 3.78 A (208 V AC) Three Phase 3.78 A (220 ... 240 V AC) Three Phase 3.78 A (440 ... 480 V AC) Three Phase 3.78 A (550 ... 600 V AC) Three Phase 3.78 A
General Use Rating UL/CSA:	(600 V AC) 0.63 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

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:	2g 5 ... 150 Hz 5g 3 ... 150 Hz

Material Compliance

Conflict Minerals Reporting Template (CMRT):	9AKK108467A5658
REACH Declaration:	1SAA963005-4502
RoHS Declaration:	1SAA963006-4501
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA:	2CMT2023-006539
WEEE B2C / B2B:	Business To Business
WEEE Category:	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions:	Yes
ABB Site Meeting Group Waste To Landfill Target:	No non-hazardous waste is sent to a landfill
EcoSolutions Profile:	1SFC100125C0353
End Of Life Disassembling Instructions:	1SAC200331H0001
Environmental Product Declaration - EPD:	1SAC200359H0001 1SAC200384H0001
Improved Energy Efficiency for Customers:	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555:	Design for Closing Resource Loops - Standard EN45555 - 88 %

Certificates and Declarations

A2L Certificate – IEC:	1SAA963000-4601
ABS Certificate:	1SAA963000-0104
BV Certificate:	1SAA963000-0204
CB Certificate:	1SAA963005-2003 1SAA963006-2001
CCC Certificate:	2024010307654705 2024010307656673
CQC Certificate:	CQC2011010307506570 CQC2014010307744794
Declaration of Conformity - CCC:	2020980307003705 2020980307003043
Declaration of Conformity - CE:	1SAD101100-3401
Declaration of Conformity - UKCA:	1SAD201100-3401
DNV Certificate:	1SAA963000-0304
DNV GL Certificate:	1SAA963000-0304
EAC Certificate:	1SAA963000-2701
GL Certificate:	1SAA963000-0402
KC Certificate:	1SAA963000-1501
LR Certificate:	1SAA963000-0505
RMRS Certificate:	1SAA918000-0704
UL Certificate:	E137861-20001218

Container Information

Package Level 1 Units:	box 1 piece
Package Level 1 Width:	92 mm
Package Level 1 Depth / Length:	95 mm
Package Level 1 Height:	50 mm
Package Level 1 Gross Weight:	0.24 kg
Package Level 1 EAN:	4013614320279
Package Level 2 Units:	carton 40 piece
Package Level 2 Width:	280 mm
Package Level 2 Depth / Length:	395 mm
Package Level 2 Height:	210 mm
Package Level 2 Gross Weight:	9.986 kg
Package Level 2 EAN:	4013614408649

External Classifications and Standards

Object Classification Code:	F
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ETIM 9:	EC000074 - Motor protection circuit-breaker
ETIM 10:	EC000074 - Motor protection circuit-breaker
eClass:	V11.0 : 27370401
UNSPSC:	39121521
IDEA Granular Category Code (IGCC):	4731 >> Manual Starters
E-Number (Finland):	3706004
E-Number (Norway):	4364270
E-Number (Sweden):	3111936

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
1SAM201901R1001	HKF1-11 Aux.-contact for front mounting	HKF1-11	1	piece
1SAM201901R1201	HKF1-11K Aux.-contact for frontmounting with Push-In terminals	HKF1-11K	1	piece
1SAM201901R1002	HKF1-20 Aux.-contact 2NO, front mounting	HKF1-20	1	piece
1SAM201901R1202	HKF1-20K Aux.-contact for frontmounting with Push-In terminals	HKF1-20K	1	piece
1SAM201901R1004	HKF1-01 Aux.-contact for front mounting	HKF1-01	1	piece
1SAM201901R1003	HKF1-10 Aux.-contact for front mounting	HKF1-10	1	piece
1SAM201902R1002	HK1-20 Aux.-contact 2 NO	HK1-20	1	piece
1SAM201902R1202	HK1-20K Aux.-contact 2 NO with Push-In terminals	HK1-20K	1	piece
1SAM201902R1001	HK1-11 Aux.-contact 1 NO + 1 NC	HK1-11	1	piece
1SAM201902R1201	HK1-11K Aux.-contact 1 NO + 1 NC with Push-In terminals	HK1-11K	1	piece
1SAM201902R1003	HK1-02 Aux.-contact 2 NC	HK1-02	1	piece
1SAM201902R1203	HK1-02K Aux.-contact 2 NC with Push-In terminals	HK1-02K	1	piece
1SAM201902R1004	HK1-20L Aux.-cont. w. 2 lead contacts 2 NO	HK1-20L	1	piece
1SAM201902R1204	HK1-20LK Aux.-cont. w. 2 leading contacts 2 NO, with Push-In terminals	HK1-20LK	1	piece
1SAM201903R1002	SK1-20 Signaling Contact 2 NO	SK1-20	1	piece
1SAM201903R1202	SK1-20K Signaling Contact 2 NO with Push-In terminals	SK1-20K	1	piece
1SAM201903R1005	SK1-20AR Signaling Contact, 2NO with screw terminals	SK1-20AR	1	piece

1SAM201903R1205	SK1-20ARK Signaling Contact, 2NO with Push-in Spring terminals	SK1-20ARK	1	piece
1SAM201903R1001	SK1-11 Signaling Contact 1SK1-11 NO + 1 NC		1	piece
1SAM201903R1201	SK1-11K Signaling Contact SK1-11K 1 NO + 1 NC with Push-In terminals		1	piece
1SAM201903R1004	SK1-11AR Signaling Contact, 1NO+1NC with screw terminals	SK1-11AR	1	piece
1SAM201903R1204	SK1-11ARK Signaling Contact, 1NO+1NC with Push-in Spring terminals	SK1-11ARK	1	piece
1SAM201903R1003	SK1-02 Signaling Contact 2 NC	SK1-02	1	piece
1SAM201903R1203	SK1-02K Signaling Contact 2 NC with Push-In terminals	SK1-02K	1	piece
1SAM201903R1006	SK1-02AR Signaling Contact, 2NC with screw terminals	SK1-02AR	1	piece
1SAM201903R1206	SK1-02ARK Signaling Contact, 2NC with Push-in Spring terminals	SK1-02ARK	1	piece
1SAM201910R1001	AA1-24 Shunt Trip 20-24V	AA1-24	1	piece
1SAM201910R1002	AA1-110 Shunt Trip 110V	AA1-110	1	piece
1SAM201910R1003	AA1-230 Shunt Trip 200-240V	AA1-230	1	piece
1SAM201910R1004	AA1-400 Shunt Trip 350-415V	AA1-400	1	piece
1SAM201904R1010	UA1-20 Undervoltage release 20V 50Hz / 24V 60 Hz	UA1-20	1	piece
1SAM201904R1001	UA1-24 Undervoltage release 24 V	UA1-24	1	piece
1SAM201904R1002	UA1-48 Undervoltage release 48V	UA1-48	1	piece
1SAM201904R1003	UA1-60 Undervoltage release 60V	UA1-60	1	piece
1SAM201904R1004	UA1-110 Undervoltage release 110V 110V 50Hz/120V 60Hz	UA1-110	1	piece
1SAM201904R1008	UA1-208 Undervoltage release 208V 60Hz	UA1-208	1	piece
1SAM201904R1005	UA1-230 Undervoltage release 230 V 50 Hz / 240 V 60 Hz	UA1-230	1	piece
1SAM201904R1006	UA1-400 Undervoltage release 400V	UA1-400	1	piece
1SAM201904R1007	UA1-415 Undervoltage release 415V 415V 50Hz/480V 60Hz	UA1-415	1	piece
1SAM201904R1009	UA1-575 Undervoltage release 575V 60Hz	UA1-575	1	piece

1SAM201906R1102	PS1-2-0-65 3-phase busbar for 2 MS116 / MS132, le=65A	PS1-2-0-65	1	piece
1SAM201906R1112	PS1-2-1-65 3-phase busbar for 2 MS116 / MS132 with 1 HK/SK, le=65A	PS1-2-1-65	1	piece
1SAM201906R1122	PS1-2-2-65 3-phase busbar for 2 MS116 / MS132 with 2 HK/SK, le=65A	PS1-2-2-65	1	piece
1SAM201916R1103	PS1-3-0-100 3-phase busbar for 3 MS116 / MS132, le=100A	PS1-3-0-100	1	piece
1SAM201906R1103	PS1-3-0-65 3-phase busbar for 3 MS116 / MS132, le=65A	PS1-3-0-65	1	piece
1SAM201916R1113	PS1-3-1-100 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, le=100A	PS1-3-1-100	1	piece
1SAM201906R1113	PS1-3-1-65 3-phase busbar for 3 MS116 / MS132 with 1 HK/SK, le=65A	PS1-3-1-65	1	piece
1SAM201916R1123	PS1-3-2-100 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, le=100A	PS1-3-2-100	1	piece
1SAM201906R1123	PS1-3-2-65 3-phase busbar for 3 MS116 / MS132 with 2 HK/SK, le=65A	PS1-3-2-65	1	piece
1SAM201916R1104	PS1-4-0-100 3-phase busbar for 4 MS116 / MS132, le=100A	PS1-4-0-100	1	piece
1SAM201906R1104	PS1-4-0-65 3-phase busbar for 4 MS116 / MS132, le=65A	PS1-4-0-65	1	piece
1SAM201916R1114	PS1-4-1-100 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, le=100A	PS1-4-1-100	1	piece
1SAM201906R1114	PS1-4-1-65 3-phase busbar for 4 MS116 / MS132 with 1 HK/SK, le=65A	PS1-4-1-65	1	piece
1SAM201906R1124	PS1-4-2-65 3-phase busbar for 4 MS116 / MS132 with 2 HK/SK, le=65A	PS1-4-2-65	1	piece
1SAM201916R1105	PS1-5-0-100 3-phase busbar for 5 MS116 / MS132, le=100A	PS1-5-0-100	1	piece
1SAM201906R1105	PS1-5-0-65 3-phase busbar for 5 MS116 / MS132, le=65A	PS1-5-0-65	1	piece

1SAM201916R1115	PS1-5-1-100 3-phase busbar for 5 MS116 /MS132 with 1 HK/SK, Ie=100A	PS1-5-1-100	1	piece
1SAM201906R1115	PS1-5-1-65 3-phase busbar for 5 MS116 / MS132 with 1 HK/SK, Ie=65A	PS1-5-1-65	1	piece
1SAM201906R1125	PS1-5-2-65 3-phase busbar for 5 MS116 / MS132 with 2 HK/SK, Ie=65A	PS1-5-2-65	1	piece
1SAM201907R1101	S1-M1-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm ²	S1-M1-25	1	piece
1SAM201907R1102	S1-M2-25 3-phase power infeed block High, for MS116 / MS132, 25mm ²	S1-M2-25	1	piece
1SAM201907R1103	S1-M3-25 3-phase power infeed block Flat, for MS116 / MS132, 25mm ² , Type E	S1-M3-25	1	piece
1SAM201913R1103	S1-M3-35 3-phase power infeed block Flat, for MS116 / MS132, 35mm ² , Type E	S1-M3-35	1	piece
1SAM201914R1002	S1-PB1-25 1-phase power infeed block for MS116 / MS132 / MS132-T, 25mm ² , IEC	S1-PB1-25	1	piece
1SAM201914R1001	PB1-1-32 phase connecting link for MS116 / MS132 / MS132-T, Ie=32A	PB1-1-32	1	piece
1SAM201908R1001	BS1-3 Protection Cover for BS1-3 busbars empty places		1	piece
1SAM201909R1001	FS116 Screw fixing kit for MS116, MS/MO132 10 pieces packed	FS116	1	piece
GJF1101903R0001	SA 1 Locking Device	SA1	1	piece
GJF1101903R0002	SA 2 Padlock with 2 keys	SA2	1	piece
GJF1101903R0003	SA3 Locking Device, Set incl. padlock	SA3	1	piece
1SAM201911R1012	IB132-F Enclosure, GY/RD, IB132-F IP65 3 times lockable		1	piece
1SAM201911R1010	IB132-G Enclosure, GY/BK, IB132-G IP65 Standard version, 3 times lockable		1	piece
1SAM201911R1011	IB132-Y Enclosure, RD/YE, IB132-Y IP65 Emergency-STOP, 3 times lockable		1	piece
1SAM201912R1010	DMS132-G Door Mounting Kit, GY/BK, IP65 Standard version, 3 times lockable	DMS132-G	1	piece
1SAM201912R1011	DMS132-Y Door Mounting Kit, RD/YE, IP65 Emergency-STOP, 3 times lockable	DMS132-Y	1	piece

1SAM201909R1021	MSAH1 Shaft Supporter suitable for MS116, MS132/MO132	MSAH1	1	piece
1SAM201920R1001	MSHD-LB Handle, IP64, black, 3 times lockable, defeatable, 0-I	MSHD-LB	1	piece
1SAM201920R1002	MSHD-LY Handle, IP64, red/yellow, 3 times lockable, defeatable, 0-I	MSHD-LY	1	piece
1SAM201920R1000	MSH-AR Shaft alignment ring suitable for MSHD and MSH handles	MSH-AR	1	piece
1SAM101923R0002	MSMN Driver w. screw for MSMN manual motor starters, 6x6	MSMN	1	piece
1SCA101655R1001	OXS6X130 SHAFT	OXS6X130	1	piece
1SAM101923R0012	MSMNO Driver w/o coding w. screw for manual motor starters, 6x6	MSMNO	1	piece
1SCA101659R1001	OXS6X180 SHAFT	OXS6X180	1	piece
1SCA101647R1001	OXS6X85 SHAFT	OXS6X85	1	piece
1SCA108043R1001	OXS6X105 SHAFT	OXS6X105	1	piece

Categories

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

