

MS132-2.5



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

General Information

Extended Product Type:	MS132-2.5
Product ID:	1SAM350000R1007
EAN:	4013614400070
Catalog Description:	MS132-2.5 Manual Motor Starter
Long Description:	<p>The MS132-2.5 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 $I_e = 2.50$ 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 $I_{cs} = 100$ kA at 400 VAC and trip class 10. 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. The handle is lockable to protect against unauthorized changes. Auxiliary contacts, signaling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks are available as accessory.</p>

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010

Popular Downloads

Data Sheet, Technical Information:	2CDC131021D0201
Data Sheet, Technical Information (Part 2):	1SAM300505F0007
Data Sheet, Technical Information (Part 3):	1SAM300507F0001 1SAM300507F0003 1SAM300508F0001 1SAM300508F0003
Instructions and Manuals:	2CDC131022M6802
Dimension Diagram:	1SAM300402F0001

Dimensions

Product Net Width:	45 mm
Product Net Height:	90 mm

Product Net Depth / Length: 86.75 mm

Product Net Weight: 0.265 kg

Technical

**Rated Service Short-Circuit
Breaking Capacity (I_{cs}):** (230 V AC) 100 kA
(250 V DC) 3 Poles in Series 10 kA
(400 V AC) 100 kA
(440 V AC) 100 kA
(500 V AC) 100 kA
(690 V AC) 100 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_l):** 31.3 A

Setting Range: 1.6 ... 2.5 A

**Rated Operational Power AC-3
(P_e):** (400 V) Three Phase 0.75 kW

Rated Operational Voltage: Main Circuit 690 V AC
Main Circuit 250 V DC

Rated Operational Current (I_e): 2.5 A

**Rated Operational Current AC-3
(I_e):** 2.5 A

**Rated Operational Current DC-5
(I_e):** 2.5 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 ... 1.8 W

Number of Poles: 3

**Conventional Free-air Thermal
Current (I_{th}):** Main Circuit 2.5 A

Degree of Protection: Housing IP20
Main Circuit Terminals IP10

Pollution Degree: 3

Electrical Durability: 50000 cycle

Mechanical Durability: 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:	Position 1 to 6
Mounting on DIN Rail:	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 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 / TRIP
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

Environmental

Ambient Air Temperature:	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Operation Compensated -25 ... +60 °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 2011/65/EU

Technical UL/CSA

Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC
Ampere Rating UL/CSA:	2.5 A

Horsepower Rating UL/CSA:	(220 ... 240 V AC) Three Phase 0.5 Hp (440 ... 480 V AC) Three Phase 1 Hp (550 ... 600 V AC) Three Phase 1.5 Hp
General Use Rating UL/CSA:	(600 V AC) 2.5 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 ... 12 in·lb

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA963001-0101
ATEX Certificate:	1SAA963000-3902
BV Certificate:	1SAA963001-0202
CB Certificate:	1SAA963002-2001
CCC Certificate:	1SAA963001-3805
cUL Certificate:	cUL_E137861 cUL_E345003
cULus Certificate:	cUL_E137861
Declaration of Conformity - CE:	1SAD938511-0125
DNV GL Certificate:	1SAA963001-0304
EAC Certificate:	1SAA963000-2701
GOST Certificate:	1SAA963001-2702
Instructions and Manuals:	2CDC131022M6802
LR Certificate:	1SAA963001-0502
RINA Certificate:	1SAA963000-0802
RMRS Certificate:	1SAA918000-0704
RoHS Information:	1SAD938511-0125
UL Certificate:	UL_E137861 UL_E345003

Container Information

Package Level 1 Units:	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:	0.28 kg
Package Level 1 EAN:	4013614400070
Package Level 2 Units:	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:	11.586 kg
Package Level 2 EAN:	4013614408977

Classifications

Object Classification Code:	F
E-nummer:	3112123
ETIM 4:	EC000074 - Motor protective circuit-breaker
ETIM 5:	EC000074 - Motor protective circuit-breaker
ETIM 6:	EC000074 - Motor protection circuit-breaker
ETIM 7:	EC000074 - Motor protection circuit-breaker
eClass:	7.0 27370401
UNSPSC:	39121521

Accessories

Identifier	Description	Type	Qty	Unit Of Measure
1SAM201901R1001	HKF1-11 Auxiliary Contact	HKF1-11	1	piece
1SAM201901R1002	HKF1-20 Auxiliary Contact	HKF1-20	1	piece
1SAM201902R1001	HK1-11 Auxiliary Contact	HK1-11	1	piece
1SAM201902R1002	HK1-20 Auxiliary Contact	HK1-20	1	piece
1SAM201902R1003	HK1-02 Auxiliary Contact	HK1-02	1	piece
1SAM201902R1004	HK1-20L Auxiliary Contact	HK1-20L	1	piece
1SAM201903R1001	SK1-11 Signal Contact	SK1-11	1	piece
1SAM201903R1002	SK1-20 Signal Contact	SK1-20	1	piece
1SAM201903R1003	SK1-02 Signal Contact	SK1-02	1	piece
1SAM201904R1001	UA1-24 Undervoltage Release	UA1-24	1	piece
1SAM201904R1004	UA1-110 Undervoltage Release	UA1-110	1	piece
1SAM201904R1005	UA1-230 Undervoltage Release	UA1-230	1	piece
1SAM201904R1006	UA1-400 Undervoltage Release	UA1-400	1	piece
1SAM201904R1007	UA1-415 Undervoltage Release	UA1-415	1	piece
1SAM201906R1102	PS1-2-0-65 Busbar	PS1-2-0-65	1	piece
1SAM201906R1103	PS1-3-0-65 Busbar	PS1-3-0-65	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
1SAM201906R1104	PS1-4-0-65 Busbar	PS1-4-0-65	1	piece
1SAM201906R1105	PS1-5-0-65 Busbar	PS1-5-0-65	1	piece
1SAM201906R1112	PS1-2-1-65 Busbar	PS1-2-1-65	1	piece
1SAM201906R1113	PS1-3-1-65 Busbar	PS1-3-1-65	1	piece
1SAM201906R1114	PS1-4-1-65 Busbar	PS1-4-1-65	1	piece
1SAM201906R1115	PS1-5-1-65 Busbar	PS1-5-1-65	1	piece
1SAM201906R1122	PS1-2-2-65 Busbar	PS1-2-2-65	1	piece
1SAM201906R1123	PS1-3-2-65 Busbar	PS1-3-2-65	1	piece
1SAM201906R1124	PS1-4-2-65 Busbar	PS1-4-2-65	1	piece
1SAM201906R1125	PS1-5-2-65 Busbar	PS1-5-2-65	1	piece
1SAM201907R1101	S1-M1-25 Power Infeed Block	S1-M1-25	1	piece
1SAM201907R1102	S1-M2-25 Power Infeed Block	S1-M2-25	1	piece
1SAM201907R1103	S1-M3-25 Power Infeed Block	S1-M3-25	1	piece
1SAM201908R1001	BS1-3 Protection Cover	BS1-3	1	piece
1SAM201909R1021	MSAH1 Shaft Supporter	MSAH1	1	piece
1SAM201910R1001	AA1-24 Shunt Trip	AA1-24	1	piece
1SAM201910R1002	AA1-110 Shunt Trip	AA1-110	1	piece
1SAM201910R1003	AA1-230 Shunt Trip	AA1-230	1	piece
1SAM201910R1004	AA1-400 Shunt Trip	AA1-400	1	piece
1SAM201911R1010	IB132-G Enclosure	IB132-G	1	piece
1SAM201911R1012	IB132-F Enclosure	IB132-F	1	piece
1SAM201912R1010	DMS132-G Door Mounting Kit	DMS132-G	1	piece
1SAM201912R1011	DMS132-Y Door Mounting Kit	DMS132-Y	1	piece
1SAM201913R1103	S1-M3-35 Power Infeed Block	S1-M3-35	1	piece
1SAM201916R1103	PS1-3-0-100 Busbar	PS1-3-0-100	1	piece
1SAM201916R1104	PS1-4-0-100 Busbar	PS1-4-0-100	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
1SAM201916R1105	PS1-5-0-100 Busbar	PS1-5-0-100	1	piece
1SAM201916R1113	PS1-3-1-100 Busbar	PS1-3-1-100	1	piece
1SAM201916R1115	PS1-5-1-100 Busbar	PS1-5-1-100	1	piece
1SAM201916R1123	PS1-3-2-100 Busbar	PS1-3-2-100	1	piece
1SAM201920R1001	MSHD-LB Handles	MSHD-LB	1	piece
1SAM201920R1002	MSHD-LY Handles	MSHD-LY	1	piece
1SAM201920R1011	MSHD-LTB Handles	MSHD-LTB	1	piece
1SAM201920R1012	MSHD-LTY Handles	MSHD-LTY	1	piece

