

# MS132-25



Products → Low Voltage Products and Systems → Circuit Breakers → Manual Motor Starters

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## General Information

<b>Extended Product Type:</b>	MS132-25
<b>Product ID:</b>	1SAM350000R1014
<b>EAN:</b>	4013614400148
<b>Catalog Description:</b>	MS132-25 Manual Motor Starter
<b>Long Description:</b>	The MS132-25 manual motor starter is a compact 45 mm width devices with a rated operational current of $I_e = 25.0$ 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 phase failures. The manual motor starter offers a rated service short-circuit breaking capacity $I_{cs} = 50$ kA at 400 VAC and the 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, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks are available as accessory.

## Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	2CDC131021D0201
<b>Data Sheet, Technical Information (Part 2):</b>	1SAM300505F0014
<b>Data Sheet, Technical Information (Part 3):</b>	1SAM300507F0001 1SAM300507F0003 1SAM300508F0001 1SAM300508F0003
<b>Dimension Diagram:</b>	1SAM300402F0002

## Dimensions

<b>Product Net Width:</b>	45 mm
<b>Product Net Height:</b>	97.8 mm
<b>Product Net Depth:</b>	86.55 mm
<b>Product Net Weight:</b>	0.31 kg

## Technical

<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(230 V AC) 50 kA (250 V DC) 3 Poles in Series 10 kA (400 V AC) 50 kA (440 V AC) 20 kA (500 V AC) 10 kA (690 V AC) 3 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 20 kA (500 V AC) 10 kA (690 V AC) 3 kA
<b>Rated Instantaneous Short-Circuit Current Setting (<math>I_i</math>):</b>	375 A
<b>Setting Range:</b>	20 ... 25 A
<b>Rated Operational Power AC-3 (<math>P_e</math>):</b>	(400 V) Three Phase 11 kW
<b>Rated Operational Voltage:</b>	Maximum: 690 V AC

<b>Rated Operational voltage:</b>	Main Circuit 690 V AC Main Circuit 250 V DC
<b>Rated Operational Current (I<sub>e</sub>):</b>	25 A
<b>Rated Operational Current AC-3 (I<sub>e</sub>):</b>	25 A
<b>Rated Operational Current DC-5 (I<sub>e</sub>):</b>	25 A
<b>Rated Frequency (f):</b>	Main Circuit 50 Hz Main Circuit 60 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	Main Circuit 6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	690 V
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 1.8 ... 2.8 W
<b>Number of Poles:</b>	3
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	Main Circuit 25 A
<b>Degree of Protection:</b>	Housing IP20 Main Circuit Terminals IP10
<b>Pollution Degree:</b>	3
<b>Electrical Durability:</b>	50000 cycle
<b>Mechanical Durability:</b>	100000 cycle
<b>Connecting Capacity Main Circuit:</b>	Flexible with Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup> Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm <sup>2</sup> Flexible 1/2x 1 ... 2.5 mm <sup>2</sup> Flexible 1/2x 2.5 ... 6 mm <sup>2</sup> Rigid 1/2x 1 ... 2.5 mm <sup>2</sup> Rigid 1/2x 2.5 ... 6 mm <sup>2</sup>
<b>Tightening Torque:</b>	Auxiliary Circuit 0.8 ... 1.2 N·m Main Circuit 2 N·m
<b>Wire Stripping Length:</b>	Main Circuit 10 mm
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Mounting Position:</b>	Position 1 to 6
<b>Actuator Type:</b>	Rotary Handle
<b>Contact Position Indication:</b>	ON / OFF / TRIP
<b>Mounting on DIN Rail:</b>	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
<b>Standards:</b>	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1

## Environmental

<b>Ambient Air Temperature:</b>	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
<b>Ambient Air Temperature Compensation:</b>	Yes
<b>Maximum Operating Altitude Permissible:</b>	2000 m
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	11 ms Pulse 25g
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g / 3 ... 150 Hz
<b>RoHS Status:</b>	Following EU Directive 2011/65/EU

## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	Main Circuit 600 V AC Auxiliary Circuit 250 V AC/DC
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<b>Horsepower Rating UL/CSA:</b>	(220 ... 240 V AC) Three Phase 7.5 Hp (440 ... 480 V AC) Three Phase 15 Hp (550 ... 600 V AC) Three Phase 20 Hp
<b>Ampere Rating UL/CSA:</b>	25 A
<b>General Use Rating UL/CSA:</b>	(600 V AC) 25 A
<b>Connecting Capacity Main Circuit UL/CSA:</b>	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 AWG
<b>Tightening Torque UL/CSA:</b>	Main Circuit 18 in·lb
<b>Contact Rating UL/CSA:</b>	B300 R300

#### Certificates and Declarations (Document Number)

<b>ABS Certificate:</b>	1SAA963001-0101
<b>ATEX Certificate:</b>	1SAA963000-3901
<b>BV Certificate:</b>	1SAA963001-0201
<b>CB Certificate:</b>	1SAA963002-2001
<b>CCC Certificate:</b>	1SAA963001-3805
<b>cUL Certificate:</b>	cUL_E137861 cUL_E345003
<b>cULus Certificate:</b>	cUL_E137861
<b>Declaration of Conformity - CE:</b>	1SAD938511-0125
<b>DNV Certificate:</b>	1SAA963001-0303
<b>EAC Certificate:</b>	1SAA963000-2701
<b>GL Certificate:</b>	1SAA963001-0401
<b>GOST Certificate:</b>	1SAA963001-2702
<b>Instructions and Manuals:</b>	2CDC131022M6802
<b>LR Certificate:</b>	1SAA963001-0502
<b>RINA Certificate:</b>	1SAA963000-0802
<b>RMRS Certificate:</b>	1SAA918000-0704
<b>RoHS Information:</b>	1SAD938511-0125
<b>UL Certificate:</b>	UL_E137861 UL_E345003

#### Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	92 mm
<b>Package Level 1 Length:</b>	102 mm
<b>Package Level 1 Height:</b>	50 mm
<b>Package Level 1 Gross Weight:</b>	0.325 kg
<b>Package Level 1 EAN:</b>	4013614400148
<b>Package Level 2 Units:</b>	40 piece
<b>Package Level 2 Width:</b>	280 mm
<b>Package Level 2 Length:</b>	395 mm
<b>Package Level 2 Height:</b>	210 mm
<b>Package Level 2 Gross Weight:</b>	13.386 kg
<b>Package Level 2 EAN:</b>	4013614409042

#### Classifications

<b>Object Classification Code:</b>	F
<b>E-number:</b>	3112129
<b>ETIM 4:</b>	EC000074 - Motor protective circuit-breaker

ETIM 5: EC000074 - Motor protective circuit-breaker

ETIM 6: 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
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
1SAM201909R1001	MSAH1 Shaft Supporter	MSAH1	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
1SAM201909R1001	MSA11 Shunt Supporter AA1-24 Shunt Trip	MSA11 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
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

