

PRODUCT-DETAILS

MS132-4.0-HKF1-11

MS132-4.0-HKF1-11 Manual Motor Starter



General Information

Extended Product Type	MS132-4.0-HKF1-11
Product ID	1SAM350005R1008
EAN	4013614404481
Catalog Description	MS132-4.0-HKF1-11 Manual Motor Starter

Long Description

The MS132-4.0-HKF1-11 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 $I_e = 4.00$ A and a pre-assembled front mounted auxiliary contact HKF1-11. 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.

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010

Popular Downloads

Data Sheet, Technical Information	2CDC131021D0201
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Instructions and Manuals	2CDC131022M6802
Instructions and Manuals (Part 2)	2CDC131060M0202
Time-Current Characteristic Curve	1SAM300505F0108
I ² t Characteristic	1SAM300507F0001 1SAM300507F0003
Cut-off Current Characteristic	1SAM300508F0001 1SAM300508F0003
Dimension Diagram	1SAM300402F0001

Dimensions

Product Net Width	45 mm
Product Net Height	90 mm
Product Net Depth / Length	86.75 mm
Product Net Weight	0.281 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) 30 kA (500 V AC) 20 kA (690 V AC) 3 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu})	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 30 kA (500 V AC) 20 kA (690 V AC) 3 kA
Rated Instantaneous Short-Circuit Current Setting (I _i)	50 A
Setting Range	2.5 ... 4.0 A
Rated Operational Power AC-3 (P _e)	(400 V) Three Phase 1.5 kW
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 250 V DC
Rated Operational Current (I _e)	4 A
Rated Operational Current AC-3 (I _e)	4 A
Rated Operational Current DC-5 (I _e)	4 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
Mounted Auxiliary Contacts	1 NO, 1 NC
Conventional Free-air Thermal Current (I _{th})	Main Circuit 4 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
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 1.5 mm ² Rigid 1/2x 1 ... 1.5 mm ²
Tightening Torque	Main Circuit 0.8 ... 1.2 N·m
Wire Stripping Length	Auxiliary Circuit 8 mm Main Circuit 9 mm
Recommended Screw Driver	Pozidriv 2
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
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 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1
Remarks	UL508 Self-Protected Combination Motor Controller (Type E) in combination with feeder block S1-M3-xx

Technical UL/CSA

Short-Circuit Current Rating (SCCR)	Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V AC)	65 kA
	Manual Self-Protected Combination Controllers (Type E), (600Y / 347 V AC)	47 kA
	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC)	65 kA
	Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC)	47 kA
	Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (480 V AC)	65 kA
	Any UL Listed Fuses or Circuit-Breakers, Motor Disconnect (600 V AC)	47 kA
	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480 V AC)	65 kA
Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600 V AC)	47 kA	
Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC Auxiliary Circuit 250 V AC/DC	
Ampere Rating UL/CSA		4 A
Horsepower Rating UL/CSA	(200 V AC) Three Phase 0.75 Hp (208 V AC) Three Phase 0.75 Hp (220 ... 240 V AC) Three Phase 1 Hp (440 ... 480 V AC) Three Phase 2 Hp (550 ... 600 V AC) Three Phase 3 Hp	
Full Load Amps Motor Use	(200 V AC) Three Phase 4 A (208 V AC) Three Phase 4 A (220 ... 240 V AC) Three Phase 4 A (440 ... 480 V AC) Three Phase 4 A (550 ... 600 V AC) Three Phase 3.9 A	

Locked Rotor Amps	(200 V AC) Three Phase 24 A (208 V AC) Three Phase 24 A (220 ... 240 V AC) Three Phase 24 A (440 ... 480 V AC) Three Phase 24 A (550 ... 600 V AC) Three Phase 25.6 A
General Use Rating UL/CSA	(600 V AC) 4 A
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-12 AWG Stranded 1/2x 16-12 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 16-14 AWG Stranded 1/2x 16-14 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 7 in-lb Main Circuit 10 ... 12 in-lb
Contact Rating UL/CSA	B300 R300

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

Certificates and Declarations (Document Number)

ABS Certificate	1SAA963001-0101
ATEX Certificate	1SAA963000-3901
BV Certificate	1SAA963001-0201
CB Certificate	1SAA963002-2002
CCC Certificate	1SAA963001-3805
cUL Certificate	UL_E137861 UL_E345003
cULus Certificate	cUL_E137861
Cut-off Current Characteristic	1SAM300508F0001 1SAM300508F0003
Declaration of Conformity - CE	1SAD938514-0125
DNV Certificate	1SAA963001-0303
EAC Certificate	1SAA963000-2701
GL Certificate	1SAA963001-0401
GOST Certificate	1SAA963001-2702
i ² t Characteristic	1SAM300507F0001 1SAM300507F0003
Instructions and Manuals	2CDC131022M6802
Instructions and Manuals (Part 2)	2CDC131060M0202
LR Certificate	1SAA963001-0502
RINA Certificate	Rina_MS132
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAD938511-0125
Time-Current	1SAM300505F0108

Characteristic Curve

UL Certificate

UL_E137861
UL_E345003**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	0.296 kg
Package Level 1 EAN	4013614404481
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	12.226 kg
Package Level 2 EAN	4013614409134

Classifications

Object Classification Code	F
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
IDEA Granular Category Code (IGCC)	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAM101923R0002	MSMN Salvamotori e relè termici	MSMN	1	piece
1SAM101923R0012	MSMNO Salvamotori e relè termici	MSMNO	1	piece
1SAM101924R0003	MSOX-32 Salvamotori e relè termici	MSOX-32	1	piece
1SAM101924R0013	MSOX-30 Salvamotori e relè termici	MSOX-30	1	piece
1SAM201901R1001	HKF1-11 Salvamotori e relè termici	HKF1-11	1	piece
1SAM201901R1002	HKF1-20 Salvamotori e relè termici	HKF1-20	1	piece
1SAM201901R1003	HKF1-10 Salvamotori e relè termici	HKF1-10	1	piece
1SAM201901R1004	HKF1-01 Salvamotori e relè termici	HKF1-01	1	piece
1SAM201901R1201	HKF1-11K Salvamotori e relè termici	HKF1-11K	1	piece
1SAM201901R1202	HKF1-20K Salvamotori e relè termici	HKF1-20K	1	piece
1SAM201902R1001	HK1-11 Salvamotori e relè termici	HK1-11	1	piece
1SAM201902R1002	HK1-20 Salvamotori e relè termici	HK1-20	1	piece
1SAM201902R1003	HK1-02 Salvamotori e relè termici	HK1-02	1	piece
1SAM201902R1004	HK1-20L Salvamotori e relè termici	HK1-20L	1	piece
1SAM201902R1201	HK1-11K Salvamotori e relè termici	HK1-11K	1	piece
1SAM201902R1202	HK1-20K Salvamotori e relè termici	HK1-20K	1	piece
1SAM201902R1203	HK1-02K Salvamotori e relè termici	HK1-02K	1	piece
1SAM201902R1204	HK1-20LK Salvamotori e relè termici	HK1-20LK	1	piece

1SAM201903R1001	SK1-11 Salvamotori e relè termici	SK1-11	1	piece
1SAM201903R1002	SK1-20 Salvamotori e relè termici	SK1-20	1	piece
1SAM201903R1003	SK1-02 Salvamotori e relè termici	SK1-02	1	piece
1SAM201903R1201	SK1-11K Salvamotori e relè termici	SK1-11K	1	piece
1SAM201903R1202	SK1-20K Salvamotori e relè termici	SK1-20K	1	piece
1SAM201903R1203	SK1-02K Salvamotori e relè termici	SK1-02K	1	piece
1SAM201904R1001	UA1-24 Salvamotori e relè termici	UA1-24	1	piece
1SAM201904R1002	UA1-48 Salvamotori e relè termici	UA1-48	1	piece
1SAM201904R1003	UA1-60 Salvamotori e relè termici	UA1-60	1	piece
1SAM201904R1004	UA1-110 Salvamotori e relè termici	UA1-110	1	piece
1SAM201904R1005	UA1-230 Salvamotori e relè termici	UA1-230	1	piece
1SAM201904R1006	UA1-400 Salvamotori e relè termici	UA1-400	1	piece
1SAM201904R1007	UA1-415 Salvamotori e relè termici	UA1-415	1	piece
1SAM201904R1008	UA1-208 Salvamotori e relè termici	UA1-208	1	piece
1SAM201904R1009	UA1-575 Salvamotori e relè termici	UA1-575	1	piece
1SAM201904R1010	UA1-20 Undervoltage Release	UA1-20	1	piece
1SAM201906R1102	PS1-2-0-65 Salvamotori e relè termici	PS1-2-0-65	1	piece
1SAM201906R1103	PS1-3-0-65 Salvamotori e relè termici	PS1-3-0-65	1	piece
1SAM201906R1104	PS1-4-0-65 Salvamotori e relè termici	PS1-4-0-65	1	piece
1SAM201906R1105	PS1-5-0-65 Salvamotori e relè termici	PS1-5-0-65	1	piece
1SAM201906R1112	PS1-2-1-65 Salvamotori e relè termici	PS1-2-1-65	1	piece
1SAM201906R1113	PS1-3-1-65 Salvamotori e relè termici	PS1-3-1-65	1	piece
1SAM201906R1114	PS1-4-1-65 Salvamotori e relè termici	PS1-4-1-65	1	piece
1SAM201906R1115	PS1-5-1-65 Salvamotori e relè termici	PS1-5-1-65	1	piece
1SAM201906R1122	PS1-2-2-65 Salvamotori e relè termici	PS1-2-2-65	1	piece
1SAM201906R1123	PS1-3-2-65 Salvamotori e relè termici	PS1-3-2-65	1	piece
1SAM201906R1124	PS1-4-2-65 Salvamotori e relè termici	PS1-4-2-65	1	piece
1SAM201906R1125	PS1-5-2-65 Salvamotori e relè termici	PS1-5-2-65	1	piece
1SAM201907R1101	S1-M1-25 Salvamotori e relè termici	S1-M1-25	1	piece
1SAM201907R1102	S1-M2-25 Salvamotori e relè termici	S1-M2-25	1	piece
1SAM201907R1103	S1-M3-25 Salvamotori e relè termici	S1-M3-25	1	piece
1SAM201908R1001	BS1-3 Salvamotori e relè termici	BS1-3	1	piece
1SAM201909R1001	FS116 Salvamotori e relè termici	FS116	1	piece
1SAM201909R1021	MSAH1 Salvamotori e relè termici	MSAH1	1	piece
1SAM201910R1001	AA1-24 Salvamotori e relè termici	AA1-24	1	piece
1SAM201910R1002	AA1-110 Salvamotori e relè termici	AA1-110	1	piece
1SAM201910R1003	AA1-230 Salvamotori e relè termici	AA1-230	1	piece
1SAM201910R1004	AA1-400 Salvamotori e relè termici	AA1-400	1	piece
1SAM201911R1010	IB132-G Salvamotori e relè termici	IB132-G	1	piece
1SAM201911R1011	IB132-Y Salvamotori e relè termici	IB132-Y	1	piece
1SAM201911R1012	IB132-F Salvamotori e relè termici	IB132-F	1	piece
1SAM201912R1010	DMS132-G Salvamotori e relè termici	DMS132-G	1	piece
1SAM201912R1011	DMS132-Y Salvamotori e relè termici	DMS132-Y	1	piece
1SAM201913R1103	S1-M3-35 Salvamotori e relè termici	S1-M3-35	1	piece
1SAM201914R1001	PB1-1-32 Salvamotori e relè termici	PB1-1-32	1	piece
1SAM201914R1002	S1-PB1-25 Salvamotori e relè termici	S1-PB1-25	1	piece
1SAM201916R1103	PS1-3-0-100 Salvamotori e relè termici	PS1-3-0-100	1	piece
1SAM201916R1104	PS1-4-0-100 Salvamotori e relè termici	PS1-4-0-100	1	piece
1SAM201916R1105	PS1-5-0-100 Salvamotori e relè termici	PS1-5-0-100	1	piece
1SAM201916R1113	PS1-3-1-100 Salvamotori e relè termici	PS1-3-1-100	1	piece
1SAM201916R1114	PS1-4-1-100 Salvamotori e relè termici	PS1-4-1-100	1	piece
1SAM201916R1115	PS1-5-1-100 Salvamotori e relè termici	PS1-5-1-100	1	piece
1SAM201916R1123	PS1-3-2-100 Salvamotori e relè termici	PS1-3-2-100	1	piece
1SAM201920R1000	MSH-AR Salvamotori e relè termici	MSH-AR	1	piece
1SAM201920R1011	MSHD-LTB Salvamotori e relè termici	MSHD-LTB	1	piece
1SAM201920R1012	MSHD-LTY Salvamotori e relè termici	MSHD-LTY	1	piece
1SAM301901R1001	CK1-11 Salvamotori e relè termici	CK1-11	1	piece

1SAM301901R1002	CK1-20 Salvamotori e relè termici	CK1-20	1	piece
1SAM301901R1003	CK1-02 Salvamotori e relè termici	CK1-02	1	piece
1SCA101647R1001	OXS6X85 Albero 6 mm per manovra rotativa, 85 mm	OXS6X85	1	piece
1SCA101655R1001	OXS6X130 Albero 6 mm per manovra rotativa, 130 mm	OXS6X130	1	piece
1SCA101659R1001	OXS6X180 Albero 6 mm per manovra rotativa, 180 mm	OXS6X180	1	piece
1SCA108043R1001	OXS6X105 Albero 6 mm per manovra rotativa, 105 mm	OXS6X105	1	piece
GJF1101903R0002	SA2 - Terminals and Installation Material	SA2	1	piece

Categories

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

Low Voltage Products and Systems → Control Products → Manual Motor Starters → Manual Motor Starters

