

PRODUCT-DETAILS

MS132-16-HKF1-20

MS132-16-HKF1-20 Manual Motor Starter 10 ... 16 A



General Information	
Extended Product Type	MS132-16-HKF1-20
Product ID	1SAM350006R1011
EAN	4013614482212
Catalog Description	MS132-16-HKF1-20 Manual Motor Starter 10 16 A
Long Description	The MS132-16-HKF1-20 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 le = 16.0 A and a pre-assembled front mounted auxiliary contact HKF1-20. 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 lcs = 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.

Minimum Order Quantity

© 2025 ABB. All rights reserved.

2025/01/06

Subject to change without notice

1 piece

85362010

Customs Tariff Number	85362010
Popular Downloads	
Data Sheet, Technical Information	2CDC131021D0202
Instructions and Manuals	2CDC131022M6802
Instructions and Manuals (Part 2)	2CDC131060M0202
Time-Current Characteristic Curve	1SAM300505F0011
I²t Characteristic	1SAM300507F0001
	1SAM300507F0003
Cut-off Current Characteristic	1SAM300508F0001 1SAM300508F0003
CAD Dimensional Drawing	2CDC001079B0201
Diawing Dimension Diagram	1SAM300402F0001
Dimensions	
Product Net Width	45 mm
Product Net Height	97.8 mm
Product Net Depth / Length	86.55 mm
Product Net Weight	0.326 kg
Technical	
Rated Service Short-	(230 V AC) 100 kA
Circuit Breaking	(250 V DC) 3 Poles in Series 10 kA
Capacity (I _{cs})	(400 V AC) 100 kA (440 V AC) 30 kA
	(500 V AC) 20 kA
	(690 V AC) 3 kA
Rated Ultimate Short-	(230 V AC) 100 kA
Circuit Breaking Capacity (I _{cu})	(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)	240 A
Setting Range	10 16 A
Rated Operational Power AC-3 (P _e)	(400 V) Three Phase 7.5 kW
Rated Operational Power AC-3e (P _e)	(400 V) Three Phase 7.5 kW
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 250 V DC
Rated Operational	16 A

Rated Operational Current (I_e) Rated Operational Current AC-3 (I_e) Rated Operational Current AC-3e (I_e) Rated Operational Current DC-5 (I_e)

© 2025 ABB. All rights reserved.

2025/01/06

Subject to change without notice

16 A

16 A

16 A

uency (f) Main Circuit 50 H Main Circuit 60 H	Rated Frequency (f)
Frequency (f 0 400 H	Operating Frequency (f sw)
	Rated Impulse Withstand Voltage (U _{imp})
lation Voltage 690	Rated Insulation Voltage (Ui)
at Rated Operating Conditions per Pole 1.1 2.8 V	Power Loss
Poles 3	Number of Poles
uxiliary 2 NO, 0 N	Mounted Auxiliary Contacts
	Conventional Free-air Thermal Current (I _{th})
Protection Housing IP2 Main Circuit Terminals IP1	Degree of Protection
egree	Pollution Degree
Purability 50000 cycl	Electrical Durability
l Durability 100000 cycl	Mechanical Durability
ype Screw Terminal	Terminal Type
	Connecting Capacity Main Circuit
	Connecting Capacity Auxiliary Circuit
Torque Auxiliary Circuit 0.8 1.2 N·n Main Circuit 2 N·n	Tightening Torque
ing Length Auxiliary Circuit 8 mr Main Circuit 10 mr	Wire Stripping Length
nded Screw Pozidriv	Recommended Screw Driver
Position 1	Mounting Position
on DIN Rail TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 6071 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 6071	Mounting on DIN Rail
Iounting Electrical Conductive Board, Horizontal - Up to 400 V 0 mr Electrical Conductive Board, Horizontal - Up to 690 V 1.5 mr Electrical Conductive Board, Vertical 75 mr Other Device Same Type, Horizontal 0 mr Other Device Same Type, Vertical 150 mr	Minimum Mounting Distance
	Actuator Type
	Contact Position Indication
IEC/EN 60947- IEC/EN 60947- IEC/EN 60947-4 IEC/EN 60947-5- UL 60947-4- UL 60947-4- IEC 60335-2-40 A2	Standards
UL508 Self-Protected Combination Motor Controller (Type E) in combination with feeder block S1-M3-x	Remarks

Technical UL/CSA		
Short-Circuit Current Rating (SCCR)	Manual Self-Protected Combination Controllers (Type E), (480Y / 277 V 30	
© 2025 ABB All rights reserved	2025/01/06	Subject to change

Subject to change without notice

	Any UL Listed Fuses or Circuit-Breakers, Group Installations (480 V AC) 35
	kA Any UL Listed Fuses or Circuit-Breakers, Group Installations (600 V AC) 35 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) 18 kA
	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (480Y / 277 V AC) 30 kA
	Any UL Listed Fuses or Circuit-Breakers, Tap Conductor Protection in Group Installations (600Y / 347 V AC) 18 kA
Maximum Operating Voltage UL/CSA	Auxiliary Circuit 250 V AC/DC Main Circuit 600 V AC
Horsepower Rating UL/CSA	(200 V AC) Three Phase 3 Hp (208 V AC) Three Phase 3 Hp (220 240 V AC) Three Phase 5 Hp (440 480 V AC) Three Phase 10 Hp (550 600 V AC) Three Phase 10 Hp
Full Load Amps Motor Use	(200 V AC) Three Phase 11 A (208 V AC) Three Phase 10.6 A (220 240 V AC) Three Phase 15.2 A (440 480 V AC) Three Phase 14 A (550 600 V AC) Three Phase 11 A
Locked Rotor Amps	(200 V AC) Three Phase 73.6 A (208 V AC) Three Phase 71 A (220 240 V AC) Three Phase 92 A (440 480 V AC) Three Phase 81 A (550 600 V AC) Three Phase 64.8 A
General Use Rating UL/CSA	(600 V AC) 16 A
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 16-8 AWG Stranded 1/2x 16-8 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 18 in·lb
Contact Rating UL/CSA	B300 R300

Ambient Air	Around the Enclosure 0 +40 °C
Temperature	Operation -25 +70 °C
	Operation Compensated -25 +60 °C
	Storage -50 +80 °C
Ambient Air	Yes
Temperature	
Compensation	
Maximum Operating	2000 m
Altitude Permissible	
Resistance to Shock acc.	11 ms Pulse 25g
to IEC 60068-2-27	
Resistance to Vibrations	5g 3 150 Hz

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SAA963005-4502
RoHS Information	1 S AA963006-4502

© 2025 ABB. All rights reserved.

Following EU Directive 2011/65/EU and Amendment 2015/863 July	RoHS Status	
2CMT2023	Toxic Substances	
	Control Act - TSCA	
Business To	WEEE B2C / B2B	
5. Small Equipment (No External Dimension More Tha	WEEE Category 5. Small Equipment (No External Dimensior	

ABB EcoSolutions	
End Of Life Disassembling Instructions	1SAC200332H0001
Environmental Product Declaration - EPD	1SAC200360H0001

Certificates and Declarations

A2L Certificate – IEC	1 S AA963000-4601
ABS Certificate	1SAA963001-0101
ATEX Certificate	1 S AA963000-3902
BV Certificate	1SAA963001-0201
CB Certificate	1SAA963002-2002
CCC Certificate	2024010307658958
CQC Certificate	CQC2017010307034621
Cut-off Current Characteristic	1SAM300508F0001 1SAM300508F0003
Declaration of Conformity - CCC	2020980307004600
Declaration of Conformity - CE	1SAD101100-3402
Declaration of Conformity - UKCA	1SAD201100-3402
DNV Certificate	1SAA963001-0303
EAC Certificate	1SAA963000-2701
GL Certificate	1SAA963001-0401
I²t Characteristic	1SAM300507F0001 1SAM300507F0003
KC Certificate	1SAA963002-1502
LR Certificate	1SAA963001-0502
RINA Certificate	1 S AA963002-0802
RMRS Certificate	1SAA918000-0704
UL Certificate	E137861-20090225 E345003-20090225

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	92 mm
Package Level 1 Depth / Length	102 mm
Package Level 1 Height	50 mm
Package Level 1 Gross Weight	0.341 kg
Package Level 1 EAN	4013614482212
Package Level 2 Units	carton 40 piece
Package Level 2 Width	280 mm

© 2025 ABB. All rights reserved.

2025/01/06

Subject to change without notice

Package Level 2 Depth / Length	395 mm
Package Level 2 Height	210 mm
Package Level 2 Gross Weight	14.026 kg
Package Level 2 EAN	4013614483516

External Classifications and Standards	
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
ETIM 8	EC000074 - Motor protection circuit-breaker
eClass	V11.0 : 27370401
UNSPSC	39121521
IDEA Granular Category Code (IGCC)	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers

Categories

Low Voltage Products and Systems \rightarrow Circuit Breakers \rightarrow Manual Motor Starters

Low Voltage Products and Systems \rightarrow Control Products \rightarrow Manual Motor Starters \rightarrow Manual Motor Starters

