MS132-20

General Information

Extended Product Type:	MS132-20
Product ID:	1SAM350000R1013
EAN:	4013614400131
Catalog Description:	MS132-20 Manual Motor Starter
Long Description:	The MS132-20 manual motor starter is a compact 45 mm width devices with a rated operational current of Ie = 20.0 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 Ics = 100 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.

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

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010
EAN:	4013614400131

Container Information

Package Level 1 Width:	92 mm
Package Level 1 Length:	102 mm
Package Level 1 Height:	50 mm
Package Level 1 Gross Weight:	0.325 kg
Package Level 2 Units:	40 piece
Package Level 2 Width:	280 mm
Package Level 2 Length:	395 mm
Package Level 2 Height:	210 mm
Package Level 2 Gross Weight:	13.386 kg
Package Level 2 EAN:	4013614409035
Package Level 1 Units:	1 piece

Dimensions

Product Net Height:	97.8 mm
Product Net Depth:	86.55 mm
Product Net Weight:	0.31 kg
Product Net Width:	45 mm

Technical

Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 100 kA (400 V AC) 100 kA (440 V AC) 20 kA (500 V AC) 20 kA (690 V AC) 3 kA
Rated Instantaneous Short-Circuit Current Setting (I_i):	300 A
Setting Range:	16 ... 20 A
Rated Operational Power AC-3 (P_e):	(400 V) Three Phase 7.5 kW
Rated Operational Voltage:	Main Circuit 690 V AC Main Circuit 250 V DC
Rated Operational Current (I_e):	20 A
Rated Operational Current AC-3 (I_e):	20 A
Rated Operational Current DC-5 (I_e):	20 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 1.5 ... 2.3 W
Number of Poles:	3
Conventional Free-air Thermal Current (I_{th}):	Main Circuit 20 A
Degree of Protection:	Housing IP20 Main Circuit Terminals IP10
Pollution Degree:	3
Electrical Durability:	50000 cycle
Mechanical Durability:	100000 cycle
Connecting Capacity-Main Circuit:	Flexible with Ferrule 1/2x 0.75 ... 6 mm² Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm² Flexible 1/2x 1 ... 2.5 mm² Flexible 1/2x 2.5 ... 6 mm² Rigid 1/2x 1 ... 2.5 mm² Rigid 1/2x 2.5 ... 6 mm²
Tightening Torque:	Main Circuit 2 N·m
Wire Stripping Length:	Main Circuit 10 mm
Recommended Screw Driver:	Pozidriv 2
Mounting Position:	Position 1 to 6
Actuator Type:	Rotary Handle
Contact Position Indication:	ON / OFF / TRIP
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
Standards:	IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 60947-1 UL 60947-4-1
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) 20 kA (500 V AC) 20 kA (690 V AC) 3 kA

Environmental

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 2002/95/EC August 18, 2005 and amendment
Ambient Air Temperature:	Around the Enclosure 0 ... +40 °C Operation -25 ... +70 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C

Technical UL/CSA

Horsepower Rating UL/CSA:	(220 ... 240 V AC) Three Phase 5 Hp (440 ... 480 V AC) Three Phase 10 Hp (550 ... 600 V AC) Three Phase 15 Hp
Ampere Rating UL/CSA:	20 A
General Use Rating UL/CSA:	(600 V AC) 20 A
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 16 ... 8 AWG Stranded 1/2x 16 ... 8 AWG
Tightening Torque UL/CSA:	Main Circuit 18 in·lb
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC

Certificates and Declarations (Document Number)

Data Sheet, Technical Information (Part 2):	1SAM300505F0013
Data Sheet, Technical Information (Part 3):	1SAM300507F0001 1SAM300507F0003 1SAM300508F0001 1SAM300508F0003
Instructions and Manuals:	2CDC131022M6802
ABS Certificate:	1SAA963001-0101

ATEX Certificate:	1SAA963000-3901
BV Certificate:	1SAA963001-0201
CB Certificate:	1SAA963002-2001
CCC Certificate:	1SAA963001-3804
cUL Certificate:	cUL_E137861 cUL_E345003
cULus Certificate:	cUL_E137861
Data Sheet, Technical Information:	2CDC131021D0201
Declaration of Conformity - CE:	1SAD938509-0125
DNV Certificate:	1SAA963001-0303
EAC Certificate:	1SAA963000-2701
GL Certificate:	1SAA963001-0401
GOST Certificate:	1SAA963001-2702
LR Certificate:	1SAA963001-0502
RINA Certificate:	1SAA963000-0802
RMRS Certificate:	1SAA918000-0703
RoHS Information:	1SAA963002-4405
UL Certificate:	UL_E137861 UL_E345003

Classifications

E-nummer:	3112128
ETIM 4:	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
Object Classification Code:	F