MS325-20

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General Information	
Extended Product Type:	MS325-20
Product ID:	1SAM150000R1013
EAN:	4013614194382
Catalog Description:	MS325-20 Manual Motor Starter
Long Description:	The MS325-20 manual motor starter is a 54 mm width devices with a rated operational current of le = 20 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 lcs = 55 kA at 400 VAC and the trip class 10A. 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. Auxiliary contacts, signalling contacts, undervoltage releases, shunt trips, 3-phase bus bars, power in-feed blocks and locking devices for protection against unauthorized changes 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
Replacement Product ID (NEW):	1SAM350000R1013
Popular Downloads	
Data Sheet, Technical Information:	2CDC131046D0201
Data Sheet, Technical Information (Part 2):	1SAM100513F0013
Instructions and Manuals:	2CDC131005M5703
Dimensions	
Product Net Width:	54 mm
Product Net Height:	87.5 mm
Product Net Depth:	75.5 mm
Product Net Weight:	0.34 kg
Technical	
	(220.) (A.C.) 100.1/A
Rated Service Short-Circuit Breaking Capacity (I _{cs}):	(230 V AC) 100 kA (400 V AC) 55 kA (440 V AC) 35 kA (500 V AC) 22 kA (690 V AC) 3.5 kA
Rated Ultimate Short-Circuit Breaking Capacity (I _{cu}):	(230 V AC) 100 kA (400 V AC) 55 kA (440 V AC) 35 kA (500 V AC) 22 kA (690 V AC) 3.5 kA
Rated Instantaneous Short-Circuit Current Setting (I _i):	300 A
Setting Range:	16 20 A
Rated Operational Power AC-3 (Pe):	(400 V) Three Phase 7.5 kW
Rated Operational Voltage:	Main Circuit 690 V AC Main Circuit 440 V DC
Rated Operational Current (Ie):	20 A
Rated Operational Current AC-3 (Ie):	: 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 (Ui):	690 V
Power Loss:	at Rated Operating Conditions per Pole 1.0 1.6 W
Number of Poles:	3
Conventional Free-air Thermal Current (I _{th}):	Main Circuit 20 A

Degree of Protection:	IP20	
Pollution Degree:	3	
Electrical Durability:	50000 cycle	
Mechanical Durability:	100000 cycle	
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 0.75 4 mm² Flexible with Insulated Ferrule 1/2x 0.75 4 mm² Flexible 1/2x 1 6 mm² Rigid 1/2x 1 6 mm²	
Tightening Torque:	Main Circuit 1.4 N·m	
Wire Stripping Length:	Auxiliary Circuit 8 mm Main Circuit 10 mm	
Recommended Screw Driver:	M3.5 Pozidriv 2	
Mounting Position:	Position 1 to 6	
Actuator Type:	Rotary Handle	
Contact Position Indication:	ON / OFF	
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	
Environmental		
Ambient Air Temperature:	Around the Enclosure 0 +40 °C Operation -25 +50 °C Operation Compensated -25 +50 °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 15g	
Resistance to Vibrations acc. to IEC 60068-2-6:	5g / 10 150 Hz	
RoHS Status:	Following EU Directive 2002/95/EC August 18, 2005 and amendment	
Technical UL/CSA		
Maximum Operating Voltage UL/CSA:	Main Circuit 600 V AC	
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	
Connecting Capacity Main Circuit UL/CSA:	Flexible 1/2x 14-8 AWG Stranded 1/2x 14-8 AWG	
Tightening Torque UL/CSA:	Auxiliary Circuit 7 in·lb Main Circuit 14 in·lb	
	acument Number)	
Certificates and Declarations (Do	Dournent number)	
Certificates and Declarations (Do ATEX Certificate:	1SAA918000-3903	
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ATEX Certificate: BV Certificate:	1SAA918000-3903 1SAA918000-0204	
ATEX Certificate: BV Certificate: CB Certificate:	1SAA918000-3903 1SAA918000-0204 1SAA918000-2002	
ATEX Certificate: BV Certificate: CB Certificate: CCC Certificate:	1SAA918000-3903 1SAA918000-0204 1SAA918000-2002 1SAA918000-3806 cUL_E137861	
ATEX Certificate: BV Certificate: CB Certificate: CCC Certificate: cUL Certificate:	1SAA918000-3903 1SAA918000-0204 1SAA918000-2002 1SAA918000-3806 cUL_E137861 cUL_E345003	
ATEX Certificate: BV Certificate: CB Certificate: CCC Certificate: cUL Certificate: Declaration of Conformity - CE:	1SAA918000-3903 1SAA918000-0204 1SAA918000-2002 1SAA918000-3806 cUL_E137861 cUL_E345003 1SAD938513-0003	
ATEX Certificate: BV Certificate: CB Certificate: CCC Certificate: cUL Certificate: Declaration of Conformity - CE: DNV Certificate:	1SAA918000-3903 1SAA918000-0204 1SAA918000-2002 1SAA918000-3806 CUL_E137861 CUL_E345003 1SAD938513-0003 1SAA918000-0305	
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ATEX Certificate: BV Certificate: CB Certificate: CCC Certificate: cUL Certificate: Declaration of Conformity - CE: DNV Certificate: GL Certificate: GOST Certificate: LR Certificate: RINA Certificate: RMRS Certificate:	1SAA918000-3903 1SAA918000-0204 1SAA918000-2002 1SAA918000-3806 CUL_E137861 CUL_E345003 1SAA918000-0305 1SAA918000-0305 1SAA918000-0403 1SAA918000-0504 1SAA918000-0504 1SAA918000-0803 1SAA918000-0703	

Package Level 1 Units:	1 piece
Package Level 1 Width:	92 mm
Package Level 1 Length:	58 mm
Package Level 1 Height:	78 mm
Package Level 1 Gross Weight:	0.37 kg
Package Level 2 Units:	24 piece
Package Level 2 Width:	280 mm
Package Level 2 Length:	395 mm
Package Level 2 Height:	210 mm
Package Level 2 Gross Weight:	0.61 kg
Package Level 2 EAN:	4013614494512

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
eClass:	7.0 27370401
UNSPSC:	39121521

