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General Information

Extended Product Type:	MO132-20
Product ID:	1SAM360000R1013
EAN:	4013614400285
Catalog Description:	MO132-20 Manual Motor Starter Magnetic Only
Long Description:	<p>The MO132-20 manual motor starter magnetic only is a compact 45 mm width device with a rated operational current of $I_e = 20.0$ A. This device is used to manually switch on and off loads/motors and to protect them reliably and without the need for a fuse from short-circuits. The manual motor starter offers a rated service short-circuit breaking capacity $I_{cs} = 25$ kA at 400 V AC. A combination together with overload relays or motor controllers allows the protection of motors. Further features are the built-in disconnect function, trip-free mechanism and a rotary handle with a clear switch position indication. The manual motor starter magnetic only 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.</p>

Ordering

Minimum Order Quantity:	1 piece
Customs Tariff Number:	85362010

Popular Downloads

Data Sheet, Technical Information:	2CDC131035D0201
Data Sheet, Technical Information (Part 2):	1SAM300515F0008
Instructions and Manuals:	2CDC131034M6801

Dimensions

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

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs}):	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 20 kA (500 V AC) 20 kA (690 V AC) 3 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):	(230 V AC) 50 kA (400 V AC) 50 kA (440 V AC) 20 kA (500 V AC) 20 kA (690 V AC) 3 kA
Rated Instantaneous Short-Circuit Current Setting (I_i):	250 A
Setting Range:	None
Rated Operational Power AC-3 (P_e):	(400 V) Three Phase 7.5 kW
Rated Operational Voltage:	Main Circuit 690 V AC
Rated Operational Current (I_e):	20 A
Rated Operational Current AC-3 (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 2.1 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
Terminal Type:	Screw Terminals
Connecting Capacity Main Circuit:	Flexible with Ferrule 1/2x 0.75 ... 6 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 6 mm ² Flexible 1/2x 1 ... 2.5 mm ² Flexible 1/2x 2.5 ... 6 mm ² Rigid 1/2x 1 ... 2.5 mm ² Rigid 1/2x 2.5 ... 6 mm ²
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
Remarks:	For overload protection of the motors, an appropriate thermal or electronic overload relays must be used

Environmental

Ambient Air Temperature:	Around the Enclosure 0 ... +40 °C Operation -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation:	No
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

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
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

Certificates and Declarations (Document Number)

ABS Certificate:	1SAA963001-0101
BV Certificate:	1SAA963001-0202
CB Certificate:	1SAA963002-2001

CCC Certificate:	1SAA963001-3805
cUL Certificate:	cUL_E137861 cUL_E345003
cULus Certificate:	cUL_E137861
Declaration of Conformity - CE:	1SAD938505-0183
DNV GL Certificate:	1SAA963001-0304
EAC Certificate:	1SAA963000-2701
GOST Certificate:	1SAA963001-2702
Instructions and Manuals:	2CDC131034M6801
LR Certificate:	1SAA963001-0502
RINA Certificate:	1SAA963000-0802
RMRS Certificate:	1SAA918000-0704
RoHS Information:	1SAD938505-0183
UL Certificate:	UL_E137861 UL_E345003

Container Information

Package Level 1 Units:	1 piece
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 1 EAN:	4013614400285
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:	4013614443732

Classifications

Object Classification Code:	F
E-nummer:	3110041
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

