



PRODUCT-DETAILS

MS450-40

MS450-40 Manual Motor Starter 28 ... 40 A

"No longer for sale" replaced by



General Information	
Extended Product Type	MS450-40
Product ID	1SAM450000R1005
EAN	4013614265174
Catalog Description	MS450-40 Manual Motor Starter 28 ... 40 A
Long Description	<p>The MS450-40 manual motor starter is a 55 mm width devices with a rated operational current of $I_e = 40.0\text{ A}$. 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 $I_{cs} = 25\text{ kA}$ 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.</p>

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85362010

Popular Downloads

Data Sheet, Technical Information	1SBC100173C0201
Data Sheet, Technical Information (Part 3)	9AKK105713A1100
Instructions and Manuals	1SAM407001R1001
Instructions and Manuals (Part 2)	2CDC131017M5701
Time-Current Characteristic Curve	1SAM400501F0005

Dimensions

Product Net Width	55 mm
Product Net Height	140 mm
Product Net Depth / Length	149 mm
Product Net Weight	1.047 kg

Technical

Rated Service Short-Circuit Breaking Capacity (I_{cs})	(230 V AC) 100 kA (400 V AC) 25 kA (440 V AC) 15 kA (500 V AC) 5 kA (690 V AC) 2 kA
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	(230 V AC) 100 kA (400 V AC) 50 kA (440 V AC) 50 kA (500 V AC) 10 kA (690 V AC) 4 kA
Rated Instantaneous Short-Circuit Current Setting (I_i)	520 A
Setting Range	28 ... 40 A
Rated Operational Power AC-3 (P_e)	(400 V) Three Phase 18.5 kW
Rated Operational Voltage	Main Circuit 690 V AC Main Circuit 450 V DC
Rated Operational Current (I_e)	40 A
Rated Operational Current AC-3 (I_e)	40 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 3.2 ... 6.7 W
Number of Poles	3
Conventional Free-air Thermal Current (I_{th})	Main Circuit 40 A
Degree of Protection	Housing IP20 Main Circuit Terminals IP00

Pollution Degree	3
Electrical Durability	25000 cycle
Mechanical Durability	50000 cycle
Connecting Capacity Main Circuit	Flexible with Ferrule 1x 0.75 ... 25 mm ² Flexible with Ferrule 2x 0.75 ... 16 mm ² Solid 1/2x 0.75 ... 16 mm ² Stranded 1x 0.75 ... 35 mm ² Stranded 2x 0.75 ... 25 mm ²
Tightening Torque	Main Circuit 3 ... 4.5 N·m
Wire Stripping Length	Main Circuit 13 mm
Recommended Screw Driver	M5 Pozidriv 2
Mounting Position	1 ... 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
Actuator Type	Rotary Handle
Contact Position Indication	ON / OFF / TRIP
Standards	CSA 22.2 No. 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1 UL 508

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Horsepower Rating UL/CSA	(200 V AC) Three Phase 10 Hp (208 V AC) Three Phase 10 Hp (220 ... 240 V AC) Three Phase 15 Hp (440 ... 480 V AC) Three Phase 30 Hp (550 ... 600 V AC) Three Phase 40 Hp
General Use Rating UL/CSA	(600 V AC) 40 A
Connecting Capacity Main Circuit UL/CSA	Flexible 2x 18-2 AWG Stranded 2x 18-2 AWG
Tightening Torque UL/CSA	Main Circuit 27 ... 40 in·lb

Environmental

Ambient Air Temperature	Operation -20 ... +70 °C Operation Compensated -20 ... +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	2g 5 ... 150 Hz

Material Compliance

RoHS Information	1SAD938506-0050
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA	2CMT2023-006539
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

ATEX Certificate	1SAA937000-3901
BV Certificate	1SAA937000-0202
CQC Certificate	CQC2003010307099875
cUL Certificate	cUL_E195536
Declaration of Conformity - CCC	2020980307003524
Declaration of Conformity - CE	1SAD938506-0050
DNV Certificate	1SAA937000-0302
EAC Certificate	1SAA937001-2703
GL Certificate	1SAA937000-0404
LR Certificate	1SAA937000-0504
RMRS Certificate	1SAA918000-0704
UL Certificate	UL_E167205 UL_E195536

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	62.5 mm
Package Level 1 Depth / Length	165 mm
Package Level 1 Height	147 mm
Package Level 1 Gross Weight	1.067 kg
Package Level 1 EAN	4013614265174

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
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 → Circuit Breakers → Manual Motor Starters

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

