

PRODUCT-DETAILS

## MS496-50

## MS496-50 Manual Motor Starter



General Information	
Extended Product Type	MS496-50
Product ID	1SAM570000R1006
EAN	4013614265525
Catalog Description	MS496-50 Manual Motor Starter
Long Description	The MS496-50 manual motor starter is a 70 mm width devices with a rated operational current of le = 50.0 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 = 50 kA at 400 VAC and the trip class 20. 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 and shunt trips are available as accessory.

1 piece
85362010

Popular Downloads	
Data Sheet, Technical Information	1SBC100173C0201
Data Sheet, Technical Information (Part 3)	9AKK105713A1103

1SAM507001R1001
1SAM500502F0006

Dimensions	
Product Net Width	70 mm
Product Net Height	165 mm
Product Net Depth / Length	174 mm
Product Net Weight	2.265 kg

Technical	
Rated Service Short-	(230 V AC) 100 kA
Circuit Breaking	(400 V AC) 100 KA
Capacity (I <sub>cs</sub> )	(440 V AC) 50 kA
	(500 V AC) 7.5 kA
	(690 V AC) 5 kA
Rated Ultimate Short-	(230 V AC) 100 kA
Circuit Breaking	(400 V AC) 100 kA
Capacity (I <sub>cu</sub> )	(440 V AC) 100 kA (500 V AC) 15 kA
	(690 V AC) 13 KA
Rated Instantaneous	650 A
Short-Circuit Current	
Setting (I <sub>i</sub> )	
Setting Range	36 50 A
Rated Operational Power AC-3 (P <sub>e</sub> )	(400 V) Three Phase 22 kW
Rated Operational	Main Circuit 690 V AC
Voltage	Main Circuit 450 V DC
Rated Operational	50 A
Current (I <sub>e</sub> )	
Rated Operational	50 A
Current AC-3 (I <sub>e</sub> )	
Rated Frequency (f)	Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse	Main Circuit 6 kV
Withstand Voltage (U <sub>imp</sub>	
)	
Rated Insulation Voltage (U <sub>i</sub> )	690 V
Power Loss	at Rated Operating Conditions per Pole 3.3 6.3 W
Number of Poles	3
Conventional Free-air	Main Circuit 50 A
Thermal Current (I <sub>th</sub> )	
Degree of Protection	Housing IP20 Main Circuit Terminals IP00
Pollution Degree	3
Electrical Durability	25000 cycle
Mechanical Durability	50000 cycle
Terminal Type	Screw Terminals
Connecting Capacity	Flexible with Ferrule 1x 2.5 50 mm²
Main Circuit	Flexible with Ferrule 2x 2.5 35 mm <sup>2</sup>
	Solid 1/2x 2.5 16 mm² Stranded 1x 10 70 mm²
	Stranded 1x 10 70 mm <sup>2</sup>
Tightening Torque	Main Circuit 4 6 N·m
Wire Stripping Length	Main Circuit 17 mm
Recommended Screw	Hexagon 4
Driver	

Mounting Position	Position 1 to 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
Ampere Rating UL/CSA	50 A
Horsepower Rating UL/CSA  General Use Rating	(200 V AC) Three Phase 15 Hp (208 V AC) Three Phase 15 Hp (220 240 V AC) Three Phase 20 Hp (440 480 V AC) Three Phase 40 Hp (550 600 V AC) Three Phase 50 Hp (600 V AC) 50 A
UL/CSA	
Connecting Capacity Main Circuit UL/CSA	Flexible 1x 10-2/0 AWG Flexible 1/2x 10-1/0 AWG Stranded 1x 10-2/0 AWG Stranded 1/2x 10-1/0 AWG
Tightening Torque UL/CSA	Main Circuit 35 53 in lb

Environmental	
Ambient Air	Operation -20 +70 °C
Temperature	Operation Compensated -20 +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	_
RoHS Status	Following EU Directive 2002/95/EC August 18, 2005 and amendment

Certificates and Declarations (Document Number)	
BV Certificate	1SAA937000-0201
CCC Certificate	1SAA937001-3803
cUL Certificate	cUL_E195536
Declaration of Conformity - CE	1SAD938502-0050
DNV Certificate	1SAA937000-0302
EAC Certificate	1SAA937001-2703
GL Certificate	1SAA937000-0403
GOST Certificate	1SAA963001-2702
Instructions and Manuals	1SAM507001R1001
LR Certificate	1SAA937000-0504
RMRS Certificate	1SAA918000-0704
RoHS Information	1SAA918002-4401

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Time-Current Characteristic Curve	1SAM500502F0006
UL Certificate	UL_E167205 UL_E195536

Container Information	
Package Level 1 Units	1 piece
Package Level 1 Width	76.5 mm
Package Level 1 Depth / Length	190 mm
Package Level 1 Height	171 mm
Package Level 1 Gross Weight	2.3 kg
Package Level 1 EAN	4013614265525

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
eClass	7.0 27370401
UNSPSC	39121521
IDEA Granular Category Code (IGCC)	4845 >> 3 Pole Motor Circuit Protector Circuit Breakers

## Categories

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

