

MS 450 - MS 495 - MS 497 Manual Motor Starters

Ordering Details

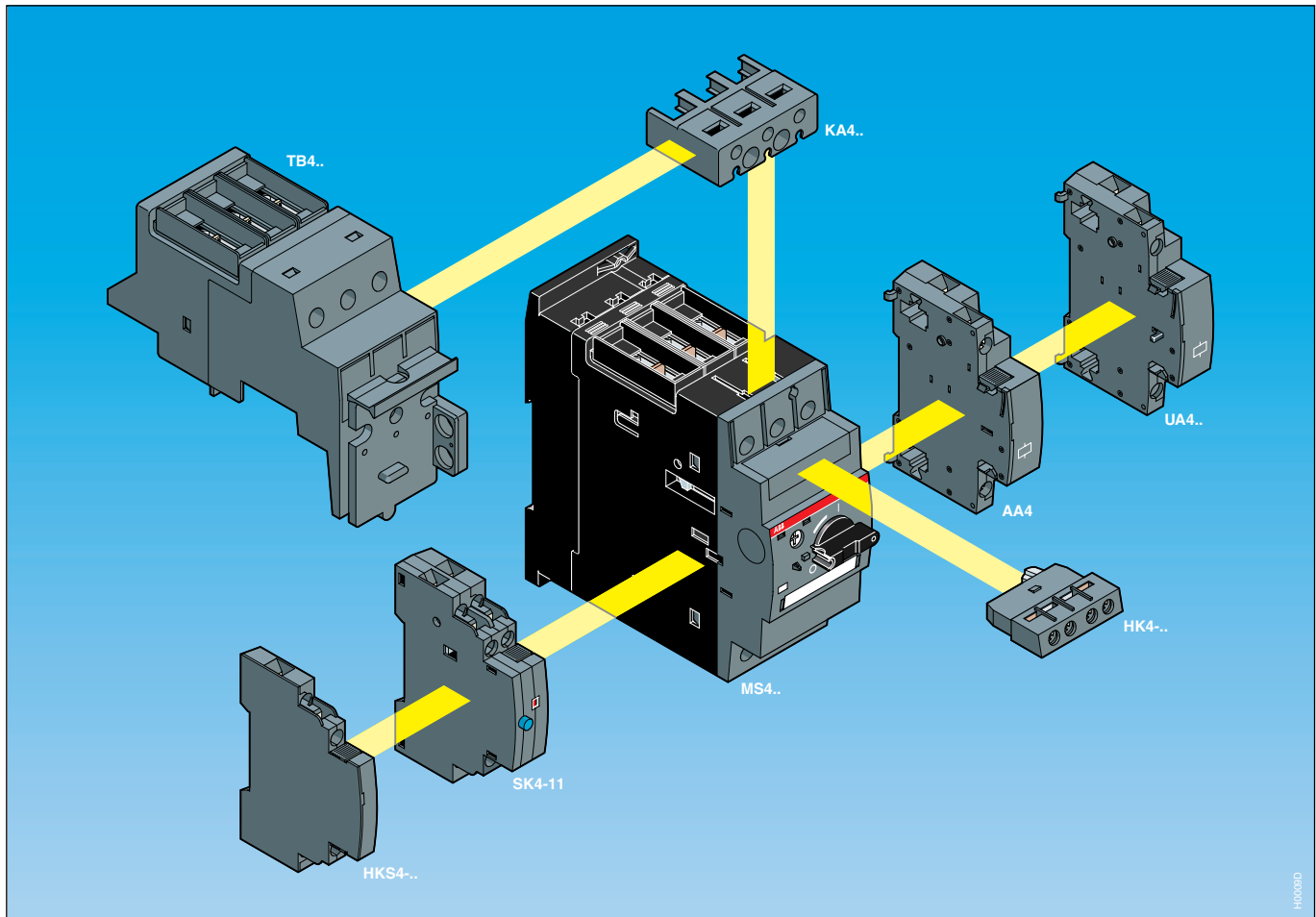


MS 450 Manual Motor Starter

Setting range A	Breaking capacity I_{cu} (400 V) kA	Type	Order code	Pack ^{ing} piece	Weight kg
11 ... 16	50	MS 450 - 16	1SAM 450 000 R1001	1	0.960
14 ... 20	50	MS 450 - 20	1SAM 450 000 R1002	1	0.960
18 ... 25	50	MS 450 - 25	1SAM 450 000 R1003	1	0.960
22 ... 32	50	MS 450 - 32	1SAM 450 000 R1004	1	0.960
28 ... 40	50	MS 450 - 40	1SAM 450 000 R1005	1	0.960
36 ... 45	50	MS 450 - 45	1SAM 450 000 R1006	1	0.960
40 ... 50	50	MS 450 - 50	1SAM 450 000 R1007	1	0.960

MS 495 Manual Motor Starters

28 ... 40	50	MS 495 - 40	1SAM 550 000 R1005	1	2.100
36 ... 50	50	MS 495 - 50	1SAM 550 000 R1006	1	2.100
45 ... 63	50	MS 495 - 63	1SAM 550 000 R1007	1	2.100
57 ... 75	50	MS 495 - 75	1SAM 550 000 R1008	1	2.100
70 ... 90	50	MS 495 - 90	1SAM 550 000 R1009	1	2.100
80 ... 100	50	MS 495 - 100	1SAM 550 000 R1010	1	2.100



Accessories for MS 450 - MS 495 - MS 497 Manual Motor Starters

Ordering Details



MS 497 Manual Motor Starters

Setting range A	Breaking capacity I _{cu} (400 V) kA	Type	Order code	Pack ^{ing} piece	Weight kg
11 ... 16	100	MS 497 - 16	1SAM 580 000 R1001	1	2.1
14 ... 20	100	MS 497 - 20	1SAM 580 000 R1002	1	2.1
18 ... 25	100	MS 497 - 25	1SAM 580 000 R1003	1	2.1
22 ... 32	100	MS 497 - 32	1SAM 580 000 R1004	1	2.1
28 ... 40	100	MS 497 - 40	1SAM 580 000 R1005	1	2.1
36 ... 50	100	MS 497 - 50	1SAM 580 000 R1006	1	2.1
45 ... 63	100	MS 497 - 63	1SAM 580 000 R1007	1	2.1
57 ... 75	100	MS 497 - 75	1SAM 580 000 R1008	1	2.1
70 ... 90	100	MS 497 - 90	1SAM 580 000 R1009	1	2.1
80 ... 100	100	MS 497 - 100	1SAM 580 000 R1010	1	2.1

Auxiliary Contacts

(The pilot contact has be mounted first on the MMS)

Mounting	Feature	Contacts	Type	Order code	Pack ^{ing} piece	Weight kg
Left side (2 sets maxi.)	Auxiliary contact	1 1	HKS4-11	1SAM 401 902 R1001	2	0.03
		2 0	HKS4-20	1SAM 401 902 R1002	2	0.03
		0 2	HKS4-02	1SAM 401 902 R1003	2	0.03
	Pilot contact	1 1	SK4-11	1SAM 401 904 R1001	1	0.07
Front	Auxiliary contact	1 1	HK4-11	1SAM 401 901 R1001	10	0.02
		1	HK4-W	1SAM 401 901 R1002	10	0.02

Under Voltage Trip

Mounting	Voltage control V (50 Hz)	Type	Order code	Pack ^{ing} piece	Weight kg
Left side	24	UA4 - 24	1SAM 401 905 R1004	1	0.12
	110	UA4 - 110	1SAM 401 905 R1001	1	0.12
	230	UA4 - 230	1SAM 401 905 R1002	1	0.12
	400	UA4 - 400	1SAM 401 905 R1003	1	0.12
Right side with aux. contacts	230	UA4 - HK - 230	1SAM 401 906 R1001	1	0.12
	400	UA4 - HK - 400	1SAM 401 906 R1002	1	0.12

Current Emission Trip

Mounting	Voltage control V (50/60 Hz / DC)	Type	Order code	Pack ^{ing} piece	Weight kg
Right side	(20 ... 70)	AA4 - 24	1SAM 401 907 R1001	1	0.11
	(70 ... 190)	AA4 - 110	1SAM 401 907 R1002	1	0.11
	(190 ... 230)	AA4 - 230	1SAM 401 907 R1003	1	0.11
	(230 ... 500)	AA4 - 400	1SAM 401 907 R1004	1	0.11

Terminal Shrouds

Description	Type	Order code	Pack ^{ing} piece	Weight kg
For MS 450	KA 450	1SAM 401 908 R1001	1	0.01
For MS 49x	KA 495	1SAM 501 901 R1001	1	0.01
For MS 49x, lugs or terminals connect.	KA 495 C	1SAM 501 902 R1001	1	0.03

Sealed Protection for Settings and Isolation Blocks

Description	Type	Order code	Pack ^{ing} piece	Weight kg
Sealed protection for MS 450	SA 450	1SAM 401 909 R1001	1	0.007
Isolation blocks	TB 450	1SAM 401 910 R1001	1	0.300

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MS 450 - 495 - 497 Manual Motor Starters

Technical Data

MS 450 - 495 - 497 Manual Motor Starters



Types		MS 450	MS 495	MS 497	
Setting range	A	11 ... 16 14 ... 20 18 ... 25 22 ... 32 28 ... 40	36 ... 45 40 ... 50	28 ... 40 36 ... 50 45 ... 63 57 ... 75 70 ... 90 80 ... 100	11 ... 16 14 ... 20 18 ... 25 22 ... 32 28 ... 40 36 ... 50
Rated short-circuit breaking capacity 380 / 400 V	I_{cu} kA	50	50	100	
Rated service short-circuit breaking capacity	I_{cs} = % I_{cu}	50	50	100	
Connecting capacity main circuit					
Rigid solid	1 x mm²	0.75 ... 35	2.5 ... 70	2.5 ... 70	
	2 x mm²	0.75 ... 25	2.5 ... 50	2.5 ... 50	
Rigid stranded	1 x mm²	0.75 ... 35	2.5 ... 70	2.5 ... 70	
	2 x mm²	0.75 ... 25	2.5 ... 50	2.5 ... 50	
Flexible without cable end	1 x mm²	0.75 ... 25	2.5 ... 50	2.5 ... 50	
	2 x mm²	0.75 ... 16	2.5 ... 35	2.5 ... 35	
Auxiliary circuit					
Rigid solid	1 x mm²	0.5 ... 2.5	0.5 ... 2.5	0.5 ... 2.5	
	2 x mm²	0.5 ... 2.5	0.5 ... 2.5	0.5 ... 2.5	
Temperature compensation			yes		
Air temperature maxi.					
Open	°C		-20 ... + 60		
Enclosed	°C		-20 ... + 35		
Storage	°C		-50 ... + 80		
Phase failure sensitivity			yes		