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With effect from 16th March 2016

Electrification Products Price List (₹)

Manual motor starter

0.10 to 32 A – with thermal and electromagnetic protection

Description

MS116 Manual motor starters with short Circuit, overload and phase loss protection

Direct on line starter:



Rated Power 415V KW	Ie current setting Range Amp	S/C Icu Breaking Capacity kA	Type	Order code	L.P.(₹)
0.03	0.10 ... 0.16	50	MS116-0.16	1SAM250000R1001	2,720
0.06	0.16 ... 0.25	50	MS116-0.25	1SAM250000R1002	2,720
0.09	0.25 ... 0.40	50	MS116-0.4	1SAM250000R1003	2,720
0.12	0.40 ... 0.63	50	MS116-0.63	1SAM250000R1004	3,100
0.25	0.63 ... 1.00	50	MS116-1.0	1SAM250000R1005	3,100
0.55	1.00 ... 1.60	50	MS116-1.6	1SAM250000R1006	3,110
0.75	1.60 ... 2.50	50	MS116-2.5	1SAM250000R1007	3,110
1.5	2.50 ... 4.00	50	MS116-4.0	1SAM250000R1008	3,150
2.2	4.00 ... 6.30	50	MS116-6.3	1SAM250000R1009	3,150
4.0	6.30 ... 10.0	50	MS116-10	1SAM250000R1010	3,250
5.5	8.00 ... 12.0	25	MS116-12	1SAM250000R1012	3,690
7.5	10.0 ... 16.0	16	MS116-16	1SAM250000R1011	4,100
9.0	16.0 ... 20.0	15	MS116-20	1SAM250000R1013	4,460
12.5	20.0 ... 25.0	15	MS116-25	1SAM250000R1014	4,600
15.5	25.0 ... 32.0	10	MS116-32	1SAM250000R1015	8,020

MS132 Manual motor starters with Short Circuit, overload and phase loss protection



0.03	0.10 ... 0.16	100	MS132-0.16	1SAM350000R1001	3,540
0.06	0.16 ... 0.25	100	MS132-0.25	1SAM350000R1002	3,540
0.09	0.25 ... 0.40	100	MS132-0.4	1SAM350000R1003	3,540
0.12	0.40 ... 0.63	100	MS132-0.63	1SAM350000R1004	3,840
0.25	0.63 ... 1.00	100	MS132-1.0	1SAM350000R1005	3,870
0.55	1.00 ... 1.60	100	MS132-1.6	1SAM350000R1006	4,050
0.75	1.60 ... 2.50	100	MS132-2.5	1SAM350000R1007	4,050
1.5	2.50 ... 4.00	100	MS132-4.0	1SAM350000R1008	4,070
2.2	4.00 ... 6.30	100	MS132-6.3	1SAM350000R1009	4,120
4.0	6.30 ... 10.0	100	MS132-10	1SAM350000R1010	4,410
5.5	8.00 ... 12.0	100	MS132-12	1SAM350000R1012	4,850
7.5	10.0 ... 16.0	100	MS132-16	1SAM350000R1011	5,390
9.0	16.0 ... 20.0	100	MS132-20	1SAM350000R1013	5,780
12.5	20.0 ... 25.0	50	MS132-25	1SAM350000R1014	5,900
15.5	25.0 ... 32.0	50	MS132-32	1SAM350000R1015	9,400

MO132 Manual motor starters with short circuit protection only



0.03	0.16	100	MO132-0.16	1SAM360000R1001	3,380
0.06	0.25	100	MO132-0.25	1SAM360000R1002	3,380
0.09	0.40	100	MO132-0.4	1SAM360000R1003	3,380
0.12	0.63	100	MO132-0.63	1SAM360000R1004	3,670
0.25	1.0	100	MO132-1.0	1SAM360000R1005	3,720
0.55	1.6	100	MO132-1.6	1SAM360000R1006	3,720
0.75	2.5	100	MO132-2.5	1SAM360000R1007	3,720
1.5	4.0	100	MO132-4.0	1SAM360000R1008	3,770
2.2	6.3	100	MO132-6.3	1SAM360000R1009	3,770
4.0	10	100	MO132-10	1SAM360000R1010	3,900
5.5	12	100	MO132-12	1SAM360000R1012	3,900
7.5	16	100	MO132-16	1SAM360000R1011	3,900
9.0	20	100	MO132-20	1SAM360000R1013	4,270
12.5	25	50	MO132-25	1SAM360000R1014	4,410
15.5	32	50	MO132-32	1SAM360000R1015	9,120

Manual motor starter

MS132-T circuit breakers for transformer protection



Description

MS132-T Circuit breakers for transformer protection are electro mechanical protection devices specially designed to protect control transformers on the primary side. The short-circuit current setting is fixed to 20 times the operating current to handle the high inrush current generated by transformers.

I _e current setting Range Amp	S/C Icu Breaking Capacity kA	Type	Order code	L.P.(₹)
0.10 ... 0.16	100	MS132-0.16T	1SAM340000R1001	3,970
0.16 ... 0.25	100	MS132-0.25T	1SAM340000R1002	3,970
0.25 ... 0.40	100	MS132-0.4T	1SAM340000R1003	3,970
0.40 ... 0.63	100	MS132-0.63T	1SAM340000R1004	4,300
0.63 ... 1.00	100	MS132-1.0T	1SAM340000R1005	4,350
1.00 ... 1.60	100	MS132-1.6T	1SAM340000R1006	4,550
1.60 ... 2.50	100	MS132-2.5T	1SAM340000R1007	4,550
2.50 ... 4.00	100	MS132-4.0T	1SAM340000R1008	4,565
4.00 ... 6.30	100	MS132-6.3T	1SAM340000R1009	4,620
6.30 ... 10.0	100	MS132-10T	1SAM340000R1010	4,950
8.00 ... 12.0	100	MS132-12T	1SAM340000R1012	5,450
10.0 ... 16.0	100	MS132-16T	1SAM340000R1011	5,450
16.0 ... 20.0	100	MS132-20T	1SAM340000R1013	6,600
20.0 ... 25.0	50	MS132-25T	1SAM340000R1014	6,625

MS165, MO165

NEW

Description

MS165 manual motor starters with short circuit, overload and phase loss protection



I _e current setting Range Amp	S/C Icu Breaking Capacity kA	Type	Order code	L.P.(₹)
10 ... 16	100	MS165-16	1SAM451000R1011	9,800
14 ... 20	100	MS165-20	1SAM451000R1012	10,250
18 ... 25	100	MS165-25	1SAM451000R1013	10,500
23 ... 32	100	MS165-32	1SAM451000R1014	11,250
30 ... 42	50	MS165-42	1SAM451000R1015	11,250
40 ... 54	50	MS165-54	1SAM451000R1016	13,800
52 ... 65	50	MS165-65	1SAM451000R1017	14,700

MO165 manual motor starters with short circuit protection only

Rated operational current Amp	S/C Icu Breaking Capacity kA	Type	Order code	L.P.(₹)
16	100	MO165-16	1SAM461000R1011	9,900
20	100	MO165-20	1SAM461000R1012	9,900
32	100	MO165-32	1SAM461000R1014	10,100
42	50	MO165-42	1SAM461000R1015	10,500
54	50	MO165-54	1SAM461000R1016	11,800
65	50	MO165-65	1SAM461000R1017	12,250

Manual motor starter

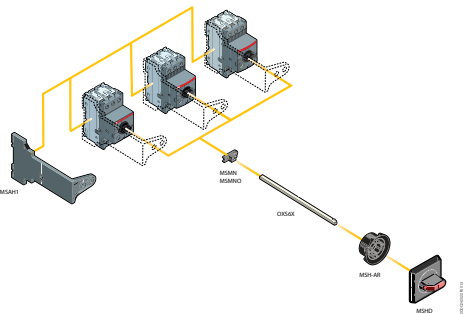
MS116, MS132, MO132, MS165, MO165, MS4xx, MO4xx

General accessories

Description

With this solution of door coupling rotary mechanism it is possible to operate a Manual Motor Starter in the back of a switch cabinet from outside. The door coupling mechanism prevents opening of the door of a switch cabinet with the Manual Motor Starter in ON position. The complete mechanism includes handle, shaft, driver, shaft alignment ring and shaft supporter. All accessories fit for 6 mm shafts with a maximum length of 180 mm. The degree of protection for handles MSHD is IP64.

Ordering details



Rated Power 415V KW	Ie current setting Range Amp	Type	Order code	L.P.(₹)
MS116 MS132 MO132 MS165 MO165 MS4xx, MO4xx	SHAFT - Shaft diameter 6 mm. Shaft extension for door coupling driver	OXS6X130	1SCA101655R1001	380
	MSHD - Handle	MSHD-LB ¹	1SAM201920R1001	1,020
		MSHD-LY ²	1SAM201920R1002	1,020
		MSHD-LTB ³	1SAM201920R1011	1,020
		MSHD-LTY ³	1SAM201920R1012	1,020
	MSMN- Driver	MSMN ⁴	1SAM101923R0002	160
		MSMNO ⁵	1SAM101923R0012	160
	MSH-AR Shaft alignment ring	MSH-AR	1SAM201920R1000	170
MS116, MS132	MSAH1-Shaft	MSAH1	1SAM201909R1021	670

- ¹) Black in colour
²) Yellow in colour
³) Indication I-O and ON-OFF+Trip indication
⁴) Positioning of ON indication dependent from mounting orientation of the MMS
⁵) Positioning of ON indication independent from mounting orientation of the MMS

■ Stock items

Manual motor starter

Accessories for MS116, MS132, MO132, MS132-T, MS165, MO165

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AA1-24

Shunt trip					Undervoltage release			
Suitable for	Rated voltage	Type	Order code	L.P.(₹)	Rated voltage	Type	Order code	L.P.(₹)
MS116, MS132, MO132, MS132-T MS165 MO165	20 ... 24	AA1-24	1SAM201910R1001	2,625	24	UA1-24	1SAM201904R1001	2,150
	110	AA1-110	1SAM201910R1002	2,625	110	UA1-110	1SAM201904R1004	2,150
	200-240	AA1-230	1SAM201910R1003	2,625	230	UA1-230	1SAM201904R1005	2,150
	350-415	AA1-400	1SAM201910R1004	2,625	415	UA1-415	1SAM201904R1007	2,150



HKF1-11

Auxiliary contacts – mountable on the front					Auxiliary contacts – mountable on the right		
Suitable for	Aux contacts	Type	Order code	L.P.(₹)	Type	Order code	L.P.(₹)
MS116, MS132, MO132, MS132-T	1NO+1NC	HKF1-11	1SAM201901R1001	600	HK1-11	1SAM201902R1001	770
	2 NO	HKF1-20	1SAM201901R1002	600	HK1-20	1SAM201902R1002	770
	2NC	-	-	-	HK1-02	1SAM201902R1003	770
MS165 MO165	1NO	HKF1-10	1SAM201901R1003	360			
	1NC	HKF1-01	1SAM201901R1004	360			

Signaling contacts – mountable on the right

Auxiliary contacts – mountable on the front				
Suitable for	Aux contacts	Type	Order code	L.P.(₹)
MS116, MS132, MO132, MS132-T	1NO+1NC	SK1-11**	1SAM201903R1001	1,020
	2 NO	SK1-20**	1SAM201903R1002	1,020
	2 NC	SK1-02**	1SAM201903R1003	1,020
MS132,	1NO+1NC	CK1-11#	1SAM301901R1001	1,450
MS132-T	2 NO	CK1-20#	1SAM301901R1002	1,450
MS165 MO165	2 NC	CK1-02#	1SAM301901R1003	1,450

**for tripped alarm, max 2 piece

#for short-circuit alarm, max. 2 pieces



SK1-11



CK1-11

Manual motor starter

MS450, MS495, MS495 Manual motor starters



Description

MS450 Manual motor starters with short Circuit, overload and phase loss protection

Rated Power 415V KW	Ie current setting Range Amp	S/C Icu Breaking Capacity kA	Type	Order code	L.P.(₹)
18.5	28.0 ... 40.0	50	MS450-40	1SAM450000R1005	11,500
22	36.0 ... 45.0	50	MS450-45	1SAM450000R1006	12,500
22	40.0 ... 50.0	50	MS450-50	1SAM450000R1007	14,700
30	45.0 ... 63.0	50	MS495-63	1SAM550000R1007	15,400
MS495 Manual motor starters with short Circuit, overload and phase loss protection					
37	57.0 ... 75.0	50	MS495-75	1SAM550000R1008	16,400
45	70.0 ... 90.0	50	MS495-90	1SAM550000R1009	16,700
55	80.0 ... 100.0	50	MS495-100	1SAM550000R1010	17,000
MS497 Manual motor starters with short Circuit, overload and phase loss protection					
15	22.0 ... 32.0	100	MS497-32	1SAM580000R1004	Upon request
18.5	28.0 ... 40.0	100	MS497-40	1SAM580000R1005	
22	36.0 ... 50.0	100	MS497-50	1SAM580000R1006	
30	45.0 ... 63.0	100	MS497-63	1SAM580000R1007	
37	57.0 ... 75.0	100	MS497-75	1SAM580000R1008	
45	70.0 ... 90.0	100	MS497-90	1SAM580000R1009	
55	80.0 ... 100.0	100	MS497-100	1SAM580000R1010	

MO450, MO495, MO495 Manual motor starters



Description

MO450 Manual motor starters with short Circuit protection only

Rated Power 415V KW	Ie current setting Range Amp	S/C Icu Breaking Capacity kA	Type	Order code	L.P.(₹)
18.5	40	50	MO450-40	1SAM460000R1005	Upon request
22	45	50	MO450-45	1SAM460000R1006	
22	50	50	MO450-50	1SAM460000R1007	
MO495 Manual motor starters with short Circuit protection only					
30	32	50	MO495-63	1SAM560000R1007	Upon request
37	40	50	MO495-75	1SAM560000R1008	
45	50	50	MO495-90	1SAM560000R1009	
55	63	50	MO495-100	1SAM560000R1010	
MO497 Manual motor starters with short Circuit protection only					
15	32	100	MO497-32	1SAM590000R1004	Upon request
18.5	40	100	MO497-40	1SAM590000R1005	
22	50	100	MO497-50	1SAM590000R1006	
30	63	100	MO497-63	1SAM590000R1007	
37	75	100	MO497-75	1SAM590000R1008	
45	90	100	MO497-90	1SAM590000R1009	
55	100	100	MO497-100	1SAM590000R1010	

Manual motor starter

Accessories for MS4xx



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HK4-11

Auxiliary contacts – mountable on the front					Auxiliary contacts – mountable on the right			
Suitable for	Aux contacts	Type	Order code	L.P.(₹)	Rated voltage	Type	Order code	L.P.(₹)
MS45x, MS49x, MO45x, MO49x	1NO+1NC	HK4-11	1SAM401901R1001	820	1NO+1NC	HK4-11	1SAM401902R1001	820
					2 NO	HK4-20	1SAM401902R1002	820
					2 NC	HK4-02	1SAM401902R1003	820



SK4-11



AA4-24

Signaling contacts – mountable on the right*				
Suitable for	Aux contacts	Type	Order code	L.P.(₹)
MS45x, MS49x, MO45x, MO49x	1NO+1NC	SK4-11	1SAM401904R1001	1,500

*for tripped alarm, max 2 piece

Shunt trip units – mountable on the right					Undervoltage release mountable on the right			
Suitable for	Rated voltage	Type	Order code	L.P.(₹)	Rated voltage	Type	Order code	L.P.(₹)
MS45x, MS49x, MO45x, MO49x	20 ... 24	AA4-24	1SAM401907R1001	2,630	24	UA4-24	1SAM401905R1004	3,050
	110	AA4-110	1SAM401907R1002	3,050	110	UA4-110	1SAM401905R1001	3,050
	200-240	AA4-230	1SAM401907R1003	3,050	230	UA4-230	1SAM401905R1002	3,050
	350-415	AA4-400	1SAM401907R1004	3,050	415	UA4-415	1SAM401905R1002	3,050