

# MS116 manual motor starters

## Main accessories



HKF1-11

1SBC101209F0014



HK1-11

1SBC101209F0014



SK1-11

1SBC101219F0014



AA1-24

1SBC101211F0014



UA1-24

1SBC101212F0014

### Description

MS116 manual motor starters can be equipped with auxiliary contacts for lateral/front mounting, signalling contact for lateral mounting, undervoltage release and shunt trips. The accessories can be fitted wiring free and without tools. A variety of combinations is possible as required for the application. The auxiliary contacts change position with the main contacts. The signalling contact signals tripping regardless if it was caused by short-circuit or overload. Undervoltage release are used for remote tripping of the manual motor starter especially for emergency stop circuits. Shunt trips release the MMS used for remote tripping.

### Ordering details

Auxiliary contacts N.O.	Auxiliary contacts N.C.	Description	Type	Order code	Pkg qty	Weight (1 pce)
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#### Auxiliary contacts – mountable on the front

1	1		HKF1-11	1SAM201901R1001	10	0.015
2	0		HKF1-20	1SAM201901R1002	10	0.015

#### Auxiliary contacts – mountable on the right

1	1	max. 2 pieces	HK1-11	1SAM201902R1001	2	0.035
2	0	max. 2 pieces	HK1-20	1SAM201902R1002	2	0.035
0	2	max. 2 pieces	HK1-02	1SAM201902R1003	2	0.035
2	0	with lead contacts	HK1-20L	1SAM201902R1004	2	0.035

#### Signalling contacts – mountable on the right

1	1	for tripped alarm, max. 2 pieces	SK1-11	1SAM201903R1001	2	0.035
2	0	for tripped alarm, max. 2 pieces	SK1-20	1SAM201903R1002	2	0.035
0	2	for tripped alarm, max. 2 pieces	SK1-02	1SAM201903R1003	2	0.035

Rated control supply voltage	Frequency	Type	Order code	Pkg qty	Weight (1 pce)
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V Hz kg

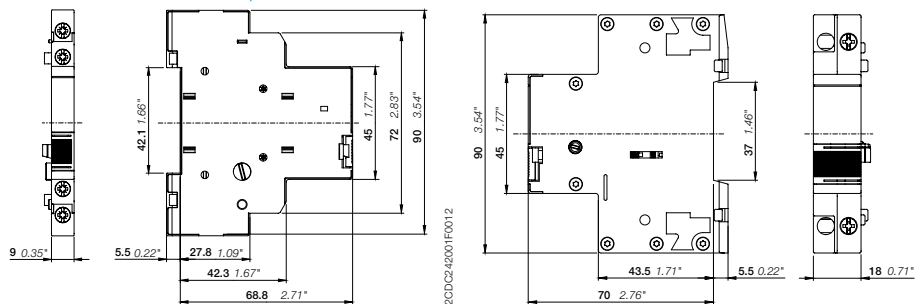
#### Shunt trip units – mountable on the left

20 ... 24	50/60	AA1-24	1SAM201910R1001	1	0.100
110	50/60	AA1-110	1SAM201910R1002	1	0.100
200 ... 240	50/60	AA1-230	1SAM201910R1003	1	0.100
350 ... 415	50/60	AA1-400	1SAM201910R1004	1	0.100

#### Undervoltage releases – mountable on the left

24	50	UA1-24	1SAM201904R1001	1	0.100
48	50	UA1-48	1SAM201904R1002	1	0.100
60	50	UA1-60	1SAM201904R1003	1	0.100
110 ... 120	50/60	UA1-110	1SAM201904R1004	1	0.100
208	60	UA1-208	1SAM201904R1008	1	0.100
230 ... 240	50/60	UA1-230	1SAM201904R1005	1	0.100
400	50	UA1-400	1SAM201904R1006	1	0.100
415 ... 480	50/60	UA1-415	1SAM201904R1007	1	0.100

### Main dimensions mm, inches



HK1

UA1