

Type MS116 Technical data

5

Softstarter type		MS116
Standards, approvals		UL, CSA, CE
Rated operating current	A	16
Current range	A	0.16 – 16
Number of poles		3
Frequency	Hz	50 / 60
Tripping class	A	10
Max. kAIC & 600V	kAIC	30
Mechanical life	Operations	100,000
Wire range	AWG	12 – 18
Terminal torque	in. lbs.	14
Terminal tool options		Flat screwdriver PZ2
Permissible attitude without derating	m	3000
Degree of protection		IP20
UL Listed for group installation		Yes
Self-protected Type E manual combination starter		No
Accessories		
Terminal shroud		No
Auxiliary contacts		Yes
Shunt trip		No
Trip signal contacts		Yes
UV release		Yes
Busbar		Yes
Through the door handle		Yes
Minimum enclosure size		H x W x D
Loads for accessories		
Auxiliary contact for front mounting, HKF	AC15	24 V, 3.0 A 230 V, 1.5 A
Auxiliary contact for front mounting, HKF	DC13	24 V, 1.0 A 48 / 60V, 0.7 A 110 V, 0.27 A
Auxiliary and signal contact, HK + SK	AC15	24 V, 6 A 230 V, 4 A 400 V, 3 A
Auxiliary and signal contact, HK + SK	DC13	24 V, 2 A 110 V, 0.5 A 220 V, 0.25 A 440 V, 0.1 A
Electromagnet trips		
Response value set ex-works		9.6 – 14.4 x I _n
Undervoltage release		
Pick-up value	% of U _C	85
Drop-out value	% of U _C	35 – 75
Power consumption		
Pick-up VA		Consult factory
Hold VA		Consult factory

Short-circuit protection MS 116 – Setting ranges, short-circuit strength and max. back-up fuses

		Maximum rated current of the short-circuit fuses if $I_{cc} > I_{cs}$ □																	
from	to	at 230 V AC			at 400 V AC			at 440 V AC			at 500 V AC			at 690 VAC					
		I _{cu} kA	I _{cs} kA	gL, gG A	I _{cu} kA	I _{cs} kA	gL, gG A	I _{cu} kA	I _{cs} kA	gL, gG A	I _{cu} kA	I _{cs} kA	gL, gG A	I _{cu} kA	I _{cs} kA	gL, gG A			
Setting ranges	0.1 ... 0.16	Short-circuit proof up to I _{cc} = 50 kA									Short-circuit proof up to I _{cc} = 30 kA								
	1.0 ... 1.6																		
	1.6 ... 2.5										10	10	25	10	10	25	5	5	25
	2.5 ... 4.0										6	6	25	6	6	25	2	2	25
	4.0 ... 6.3										6	6	63	6	6	63	2	2	40
	6.3 ... 10.0										6	6	63	6	6	63	2	2	50
8.0 ... 12.0	25	25	80	25	25	80	6	6	63	6	6	63	2	2	50				
10.0 ... 16.0	16	16	80	16	16	80	4	4	63	4	4	63	2	2	63				