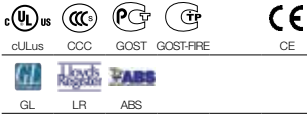


MS132 Manual Motor Starter

With Thermal and Electromagnetic Protection



0.10 ... 32.0 A
Class 10



MS132-10



MS132-32

Application

- Short-circuit protection
- Overload protection
- Trip class 10
- Phase loss sensitivity
- ON/OFF switching functionality
- Disconnecting feature
- Suitable for three- and single phase applications.

Description

- 45 mm width
- Lockable handle
- Clear position of the handle ON/OFF/TRIP
- Magnetic tripping optically signalled in the front
- One range of common accessories for MS116 & MS132.

Ordering Details

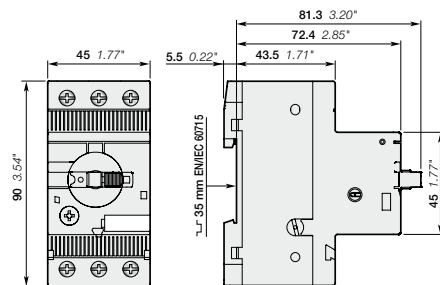
Setting ranges A ... A	Short-circuit ¹⁾		Rated instantaneous short-circuit current setting A	Catalog number	List price	Pack ^(ing) pieces	Weight kg/lb (1 pce)
	at 600 V AC kA	at 480 V AC kA					
0.10 ... 0.16	18	30	1.25 ... 1.87	MS132-0.16		1	0.215/0.47
0.16 ... 0.25	18	30	1.95 ... 2.92	MS132-0.25		1	0.215/0.47
0.25 ... 0.40	18	30	3.12 ... 4.68	MS132-0.4		1	0.215/0.47
0.40 ... 0.63	18	30	4.91 ... 7.37	MS132-0.63		1	0.215/0.47
0.63 ... 1.00	18	30	9.20 ... 13.8	MS132-1.0		1	0.215/0.47
1.00 ... 1.60	18	30	14.7 ... 22.1	MS132-1.6		1	0.265/0.58
1.60 ... 2.50	18	30	23.0 ... 34.5	MS132-2.5		1	0.265/0.58
2.50 ... 4.00	18	30	40.0 ... 60.0	MS132-4.0		1	0.265/0.58
4.00 ... 6.30	18	30	63.0 ... 94.5	MS132-6.3		1	0.265/0.58
6.30 ... 10.0	18	30	120 ... 180	MS132-10		1	0.265/0.58
8.00 ... 12.0	18	30	144 ... 216	MS132-12		1	0.310/0.68
10.0 ... 16.0	18	30	192 ... 288	MS132-16		1	0.310/0.68
16.0 ... 20.0	18	30	240 ... 360	MS132-20		1	0.310/0.68
20.0 ... 25.0	18	30	300 ... 450	MS132-25		1	0.310/0.68
25.0 ... 32.0	18	30	384 ... 576	MS132-32		1	0.310/0.68

According to IEC 60947-1

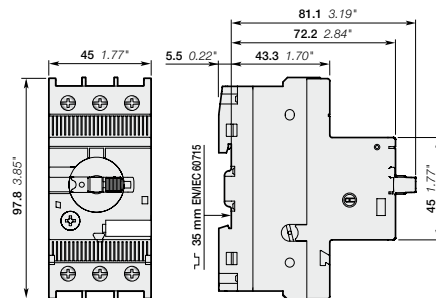
1) For complete SCCR ratings on MS132 Manual Motor Starters, refer to literature number 1SXU131004L0201

Main Dimensions mm, inches

MS132-0.16 ... MS132-10



MS132-12 ... MS132-32



MS132 Manual Motor Starter

Technical Data



0.10 ... 32.0 A

Class 10

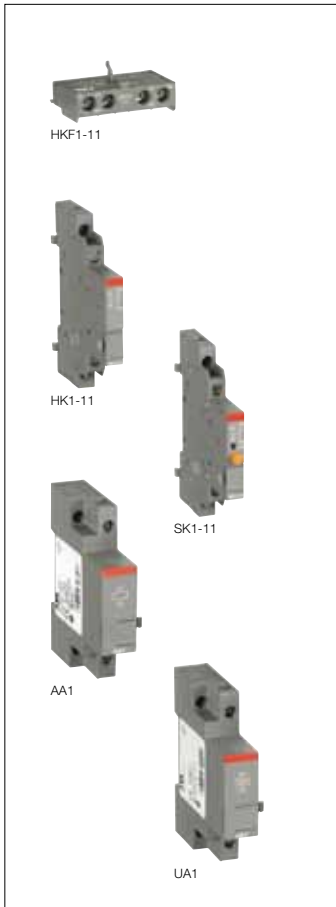
Main Technical Data

Manual Motor Starter Types		MS132			
		up to 10 A	up to 16 A	up to 32 A	
Standards	Conformity to standards	IEC/EN60947-1, IEC/EN60947-2, IEC/EN60947-4-1, UL 508, CSA C22.2 No. 14			
	Phase loss sensitivity (acc. to IEC/EN 60947-4-1)	yes			
	Disconnecting feature (acc. to IEC/EN 60947-2)	yes			
General data	Mounting position	Position 1-6			
	Degree of protection (acc. to IEC 60947-1)	IP 20			
	Mechanical durability	100000 cycles			
	Electrical durability	50000 cycles			
	Utilization category	A			
UL/CSA					
Main circuit	Max. operational voltage	600 V AC			
	Short-circuit rating ¹⁾	480 V AC	30 kA		
		600 V AC	18 kA		
Connecting capacity	Stranded	1 or 2 x	AWG 16 ... 12	AWG 16 ... 12	AWG 12 ... 8
	Flexible without ferrule	1 or 2 x	AWG 16 ... 12	AWG 16 ... 12	AWG 12 ... 8
	Stripping length		9 mm	10 mm	10 mm
	Tightening torque		10 ... 12 lb.in	14 lb.in	18 lb.in
IEC					
Main circuit	Rated operational voltage U_e	690 V AC			
	Rated operational current I_e	up to 10 A	up to 16 A	up to 32 A	
	Conventional free air thermal current I_{th}	up to 10 A	up to 16 A	up to 32 A	
	Rated frequency	50 / 60 Hz			
	Trip class	10 (10A for MS132-0.16); 10		10	
Isolation data	Rated impulse withstand voltage U_{imp}	6 kV			
	(acc. to IEC/EN 60947-1) Rated insulation voltage U_i	690 V			
Environmental data	Ambient air temperature				
	Operation	Open - compensated	-25 ... +60 °C		
		Open	-25 ... +70 °C		
	Storage		-50 ... +80 °C		
	Vibration (acc. to IEC/EN 60068-2-6)	5 g / 3-150 Hz			
Shock (acc. to IEC/EN 60068-2-27)	25 g / 11 ms				
Connecting capacity	Rigid	1 or 2 x	1 ... 4 mm ²	1 ... 4 mm ²	2.5 ... 6 mm ²
	Flexible with ferrule	1 or 2 x	0.75 ... 2.5 mm ²	0.75 ... 2.5 mm ²	1 ... 6 mm ²
	Flexible without ferrule	1 or 2 x	0.75 ... 2.5 mm ²	0.75 ... 2.5 mm ²	1 ... 6 mm ²
	Stripping length		9 mm	10 mm	10 mm
	Tightening torque		0.8 ... 1.2 Nm	1.5 Nm	2.0 Nm

1) For complete SCCR ratings on MS132 Manual Motor Starters, refer to literature number 1SXU131004L0201

Manual Motor Starters

Main Accessories



Auxiliary contacts

Manual Motor Starters		Aux. contacts		Catalog number	List price	Pack ^(ing) pieces	Weight kg/lb (1 pce)
MS116	MS132	N.O.	N.C.				
Auxiliary contacts, mountable on front							
•	•	1	1	HKF1-11 ¹⁾		10	0.016/0.035
Auxiliary contacts, mountable on the right, max. 2 pieces							
•	•	1	1	HK1-11 ¹⁾		2	0.035/0.077
•	•	2	0	HK1-20 ¹⁾		2	0.035/0.077
•	•	0	2	HK1-02 ¹⁾		2	0.035/0.077
Auxiliary contacts with lead contacts, mountable on the right, also to use with undervoltage release							
•	•	2	0	HK1-20L ¹⁾		2	0.035/0.077

Signaling contacts

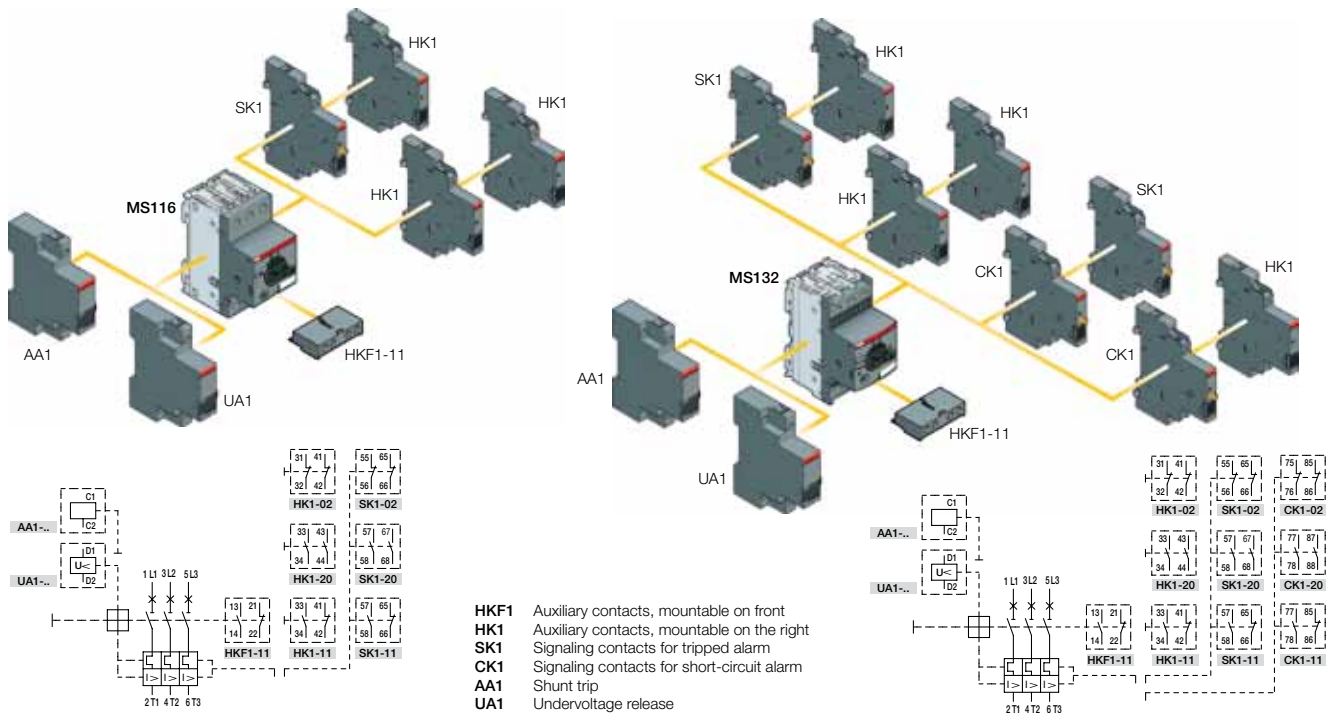
Manual Motor Starters		Aux. contacts		Catalog number	List price	Pack ^(ing) pieces	Weight kg/lb (1 pce)
MS116	MS132	N.O.	N.C.				
Signaling contacts for tripped alarm, mountable on the right							
•	•	1	1	SK1-11 ¹⁾		2	0.035/0.077
•	•	2	0	SK1-20 ¹⁾		2	0.035/0.077
•	•	0	2	SK1-02 ¹⁾		2	0.035/0.077
Signaling contacts for short-circuit alarm, mountable on the right							
-	•	1	1	CK1-11		2	0.035/0.077
-	•	2	0	CK1-20		2	0.035/0.077
-	•	0	2	CK1-02		2	0.035/0.077

Auxiliary trip units

Manual Motor Starters		Rated control supply voltage	Catalog number	List price	Pack ^(ing) pieces	Weight kg/lb (1 pce)
MS116	MS132					
Shunt trip, mountable on the left						
•	•	24 V 50/60 Hz	AA1-24 ¹⁾		1	0.10/0.22
•	•	110 V 50/60 Hz	AA1-110 ¹⁾		1	0.10/0.22
•	•	200 ... 240 V 50/60 Hz	AA1-230 ¹⁾		1	0.10/0.22
Undervoltage release, mountable on the left						
•	•	24 V 60 Hz	UA1-24 ¹⁾		1	0.10/0.22
•	•	110 V 50 Hz - 120 V 60 Hz	UA1-120 ¹⁾		1	0.10/0.22
•	•	208 V 60 Hz	UA1-208 ¹⁾		1	0.10/0.22
•	•	230 V 50 Hz - 240 V 60 Hz	UA1-230 ¹⁾		1	0.10/0.22
•	•	575 V 60 Hz	UA1-575 ¹⁾		1	0.10/0.22

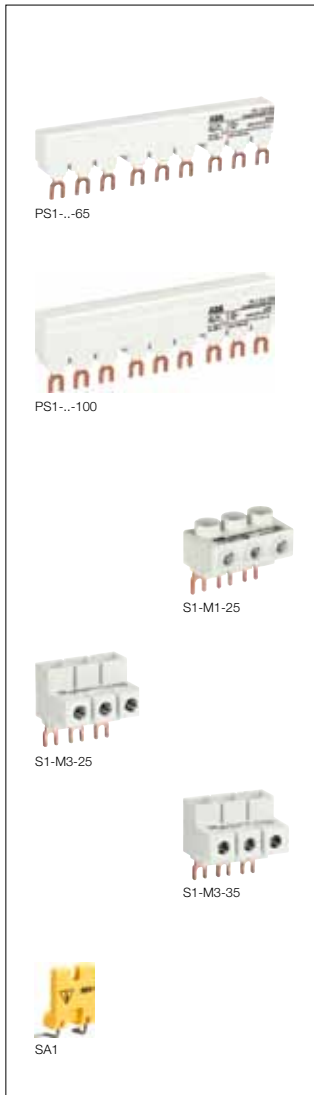
¹⁾ For ABB Canadian part numbers, add prefix "MS132-" to catalog numbers

Manual motor starter with accessories



Manual Motor Starters

Main Accessories



3-phase busbar systems

Manual Motor Starters	Number of MMS	Number of aux. contacts	Catalog number	List price	Pack ^(ing) pieces	Weight kg/lb (1 pce)
MS116	MS132					
3-phase busbar up to 65 A						
●	●	2	0	PS1-2-0-65	10	0.034/0.07
●	●	3	0	PS1-3-0-65	10	0.055/0.12
●	●	4	0	PS1-4-0-65	10	0.077/0.17
●	●	5	0	PS1-5-0-65	10	0.098/0.22
●	●	2	1	PS1-2-1-65	10	0.036/0.08
●	●	3	1	PS1-3-1-65	10	0.060/0.13
●	●	4	1	PS1-4-1-65	10	0.087/0.19
●	●	5	1	PS1-5-1-65	10	0.108/0.24
●	●	2	2	PS1-2-2-65	10	0.040/0.09
●	●	3	2	PS1-3-2-65	10	0.067/0.15
●	●	4	2	PS1-4-2-65	10	0.095/0.21
●	●	5	2	PS1-5-2-65	10	0.122/0.27

3-phase busbar up to 92 A

●	●	3	0	PS1-3-0-100	10	0.084/0.19
●	●	4	0	PS1-4-0-100	10	0.117/0.26
●	●	5	0	PS1-5-0-100	10	0.154/0.34
●	●	3	1	PS1-3-1-100	10	0.094/0.21
●	●	4	1	PS1-4-1-100	10	0.134/0.30
●	●	5	1	PS1-5-1-100	10	0.172/0.38
●	●	3	2	PS1-3-2-100	10	0.105/0.23

3-phase feeder terminals

Busbar types	Remarks	Connecting capacity AWG	Catalog number	List Price	Pack ^(ing) pieces	Weight kg/lb (1 pce)
65 A	92 A					

3-phase feeder terminals

●	●	Flat	4	S1-M1-25	10	0.038/0.08
●	-	High	4	S1-M2-25	10	0.051/0.11

3-phase feeder terminals for CSA/UL type E (select sizes MS132 only) ¹⁾

●			4	S1-M3-25	10	0.042/0.09
●			2	S1-M3-35	10	0.060/0.13

Cover for 3-phase busbars

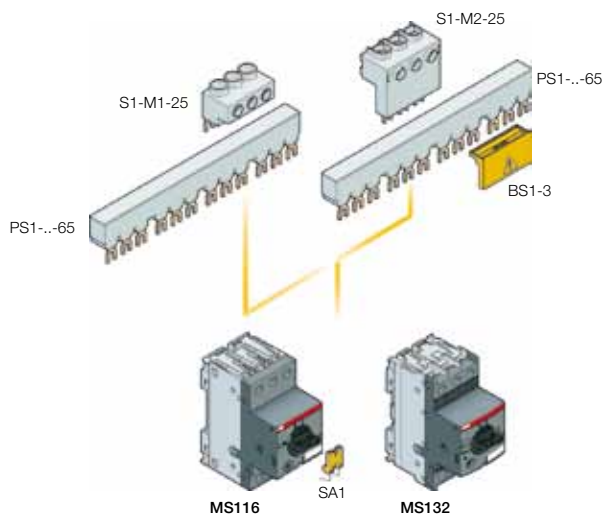
				BS1-3	50	0.003/0.01
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Locking

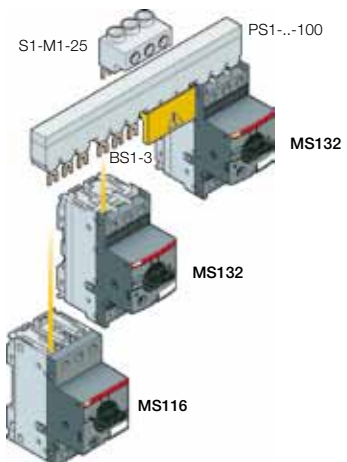
Manual Motor Starters	Catalog number	List Price	Pack ^(ing) pieces	Weight kg/lb (1 pce)	
MS116	MS132				
Locking device					
●	-	Lock adapter	SA1	10	0.003/0.01
●	●	Padlock + 2 keys	SA2	10	0.020/0.04
●	-	Lock adapter + padlock + 2 keys	SA3	10	0.050/0.11

¹⁾ For UL Type E Combination Motor ratings, refer to literature number 1SXU131004L0201.

3-phase busbar up to 65 A



3-phase busbar up to 92 A



MS116 & MS132 Manual Motor Starters

Main Accessories



MS132-10



MS116

Door Hardware

Manual Motor Starters		Trip Indicator		Catalog Number	List Price	Package pieces ¹⁾	Weight kg/lb ¹⁾
MS116	MS132	with	w/o				
Shaft Coupler							
•	•			MS132-MSMN			
Handle, Black, NEMA 1, 3R, 12, 6 mm							
•	•	•		MSHD-LTB			
•	•		•	MSHD-LB			
Handle, Red/Yellow, NEMA 1, 3R, 12, 6 mm							
•	•	•		MSHD-LTY			
•	•		•	MSHD-LY			
Shaft 180 mm (L), 6 mm (D)							
•	•			OXS6X180			

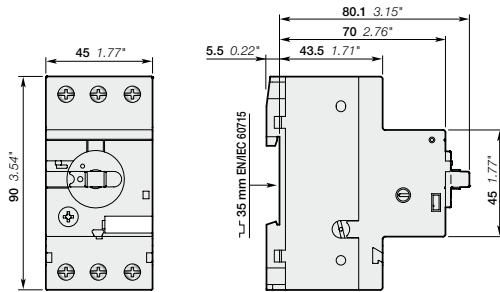
1) For package quantity or unit weight, consult technical support.

MS116 & MS132 Manual Motor Starters

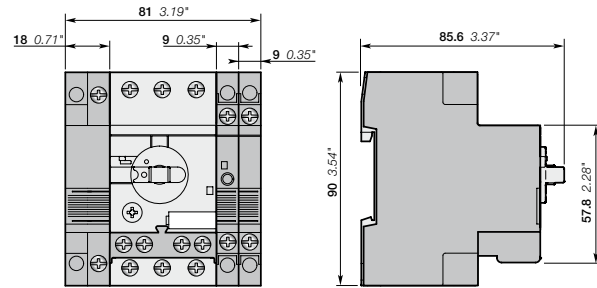
With Thermal and Electromagnetic Protection



MS116 Dimensions mm, inches

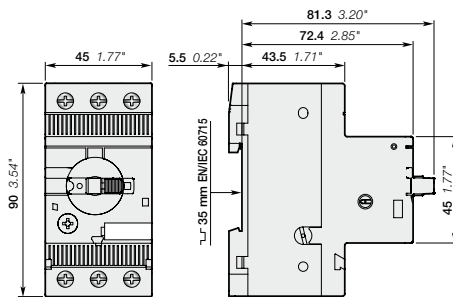


MS116

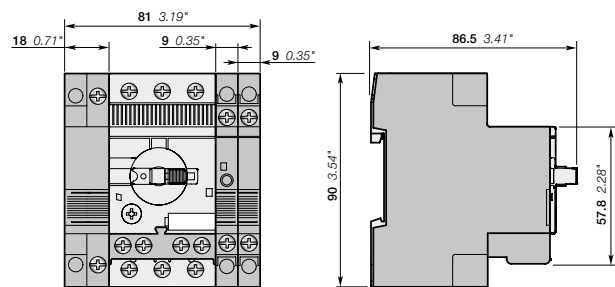


MS116
+ UA1, AA1, SK1, HK1, HKF1-11

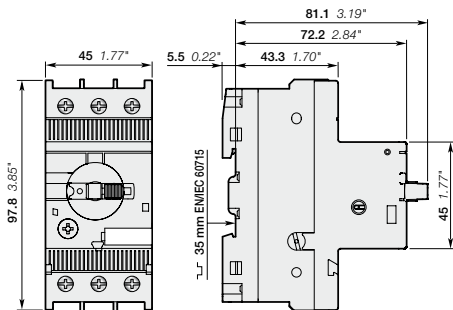
MS132 Dimensions mm, inches



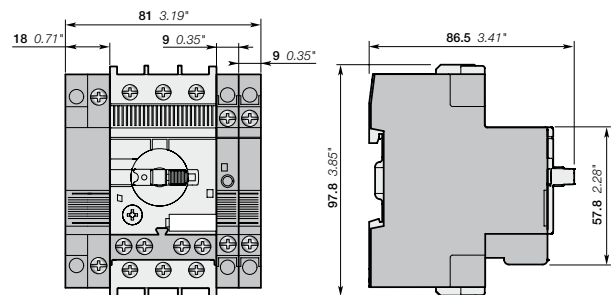
MS132-0.16 ... MS132-10



MS132-0.16 ... MS132-10
+ UA1, AA1, SK1, HK1, CK1, HKF1-11



MS132-12 ... MS132-32



MS132-12 ... MS132-32
+ UA1, AA1, SK1, HK1, CK1, HKF1-11