

Accessories*



Enclosures
with water
and dust protection
IP65 (UL: Type 12)
for MS116 and MS132

Description	Color	Type	Order code
Enclosures IP65			
Padlockable max. 3 padlocks with ball diameter 4 ... 6.5 mm	Yellow/Red	IB132-Y	1SAM201911R1011
	Grey/Black	IB132-G	1SAM201911R1010

Technical data MS116 / MS132

	MS116	MS132
Standards:	IEC/EN 60947-2, IEC/EN 60947-4-1; UL 60947-4-1; CSA C22.2 No.60947-4-1 (CSA C22.2 No. 14)	
Degree of protection (housing)	IP20	
Rated insulation voltage U_i	690 V AC	
Rated operational voltage U_e	690 V AC	690 V AC / 250 V DC
Rated frequency	50/60 Hz	DC, 50/60 Hz
Trip class	10A	10
Ambient air temperature for operation (Open - compensated)	-25 ... +55 °C	-25 ... +60 °C
Utilization categories	AC-3, AC-3e, AC-1	

* Please check the **ABB catalog Motor Protection and Control** for the complete offer of main devices and accessories:

- Manual motor starter range up to 80A: MS165
- Magnetic only devices: MO132 and MO165
- Circuit breakers for transformer protection: MS132-(K)T
- Complete range of accessories, e.g.: further variants of HK1, SK1, AA1, UA1; busbars (with screw or Push-in Spring terminals); power infeed blocks and handles.



Contacts

ABB STOTZ-KONTAKT GmbH
Electrification Business
Eppelheimer Straße 82
69123 Heidelberg, Germany

You can find the address of your local sales organization on the **ABB home page**



abb.com/low-voltage/products/motor-protection



abb.com/lowvoltage

Note

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LEAFLET

Manual motor starters

Up to 32 A



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ABB Motor Protection

Manual motor starters are protection devices for motor applications and electrical installations. They combine motor control and protection in a single device. These devices are mainly used to switch motors manually on/off and protect them against short-circuit, overload and phase failures.

Customer benefits

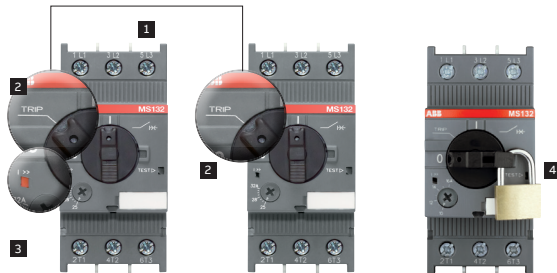
- Compact design / space saving
- Various functions in one device
- Quick reaction / fast current limitation
- Suitable for worldwide use (e.g. IEC, UL)
- Safe and cost-saving solution
- Complete, harmonized offer including accessories shared across multiple starters

Features

- Manual control on/off
- Disconnect function
- Adjustable current setting
- Temperature compensation
- Phase loss sensitivity

Further benefits of MS132

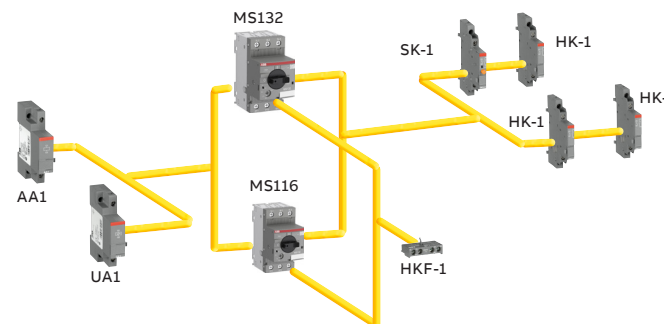
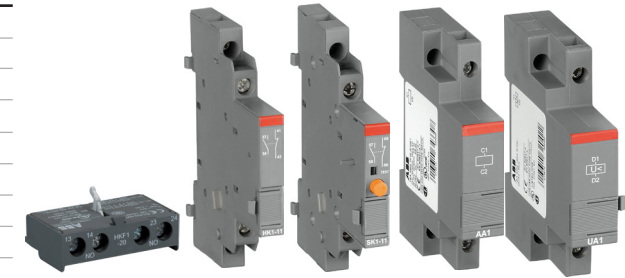
1. Clear trip indication
2. Handle in TRIP position
3. Optical indication for short-circuit
4. Easy locking



3-pole motor application 400 V AC		Standard range			High performance range			
Rated operational power	Setting range for thermal release	Type	Order code	Short-circuit breaking capacity I _{cu}	Type	Order code (Screw terminals)	Order code (Push-in Spring terminals)	Short-circuit breaking capacity I _{cu}
0.03 kW	0.01 ...0.16 A	MS116-0.16	1SAM250000R1001	100 kA	MS132-0.16	1SAM350000R1001	1SAM350010R1001	100 kA
0.06 kW	0.16...0.25 A	MS116-0.25	1SAM250000R1002	100 kA	MS132-0.25	1SAM350000R1002	1SAM350010R1002	100 kA
0.09 Kw	0.25...0.4 A	MS116-0.4	1SAM250000R1003	100 kA	MS132-0.4	1SAM350000R1003	1SAM350010R1003	100 kA
0.18 kW	0.4 ... 0.63 A	MS116-0.63	1SAM250000R1004	100 kA	MS132-0.63	1SAM350000R1004	1SAM350010R1004	100 kA
0.25 kW	0.63 ... 1.0 A	MS116-1.0	1SAM250000R1005	100 kA	MS132-1.0	1SAM350000R1005	1SAM350010R1005	100 kA
0.55 kW	1.0 ...1.6 A	MS116-1.6	1SAM250000R1006	100 kA	MS132-1.6	1SAM350000R1006	1SAM350010R1006	100 kA
0.75 kW	1.6...2.5 A	MS116 2.5	1SAM250000R1007	75 kA	MS132- 2.5	1SAM350000R1007	1SAM350010R1007	100 kA
1.5 kW	2.5 ... 4.0 A	MS116-4.0	1SAM250000R1008	75 kA	MS132-4.0	1SAM350000R1008	1SAM350010R1008	100 kA
2.2 kW	4.0 ...6.3 A	MS116-6.3	1SAM250000R1009	75 kA	MS132-6.3	1SAM350000R1009	1SAM350010R1009	100 kA
4.0 kW	6.3 ... 10 A	MS116-10	1SAM250000R1010	75 kA	MS132-10	1SAM350000R1010	1SAM350010R1010	100 kA
5.5 kW	8... 12 A	MS116-12	1SAM250000R1012	50 kA	MS132-12	1SAM350000R1012	-	100 kA
7.5 kW	10 ... 16 A	MS116-16	1SAM250000R1011	16 kA	MS132-16	1SAM350000R1011	1SAM350010R1011	100 kA
9.0 kW	16 ... 20 A	MS116-20	1SAM250000R1013	16 kA	MS132-20	1SAM350000R1013	1SAM350010R1013	100 kA
12.5 kW	20 ... 25 A	MS116-25	1SAM250000R1014	16 kA	MS132-25	1SAM350000R1014	1SAM350010R1014	50 kA
15.5 kW	25 ... 32A	MS116-32	1SAM250000R1015	16 kA	MS132-32	1SAM350000R1015	1SAM350010R1015	50 kA

Auxiliary contacts		Type	Order code
N.O.	N.C		
Auxiliary contacts – mountable on the front			
1	1	HKF1-11	1SAM201901R1001
2	0	HKF1-20	1SAM201901R1002
Auxiliary contacts – mountable on the right			
1	1	HK1-11	1SAM201902R1001
2	0	HK1-20	1SAM201902R1002
0	2	HK1-02	1SAM201902R1003
Signalling contacts – mountable on the right			
1	1	SK1-11	1SAM201903R1001
2	0	SK1-20	1SAM201903R1002
0	2	SK1-02	1SAM201903R1003

Further variants of HKF1, HK1 and SK1 are available. All variants are also available with Push-In Spring terminals. **Please see catalog.**



Rated control supply voltage	Type	Order code	
50 Hz V AC	60 Hz V AC		
Shunt trips - mountable on the left			
20... 24	20 ...24	AA1-24	1SAM201910R1001
200...240	200 ...240	AA1-230	1SAM201910R1003
350...415	350...415	AA1-400	1SAM201910R1004
Undervoltage releases – mountable on the left			
24		UA1-24	1SAM201904R1001
230	240	UA1-230	1SAM201904R1005
400		UA1-400	1SAM201904R1006

Further variants of AA1 and UA1 are available. **Please see catalog.**