

Manual motor starter MS132

Manual motor starters are electromechanical protection devices for the main circuit. They are used mainly to switch motors manually ON/OFF and protect them fuse less against short-circuit, overload and phase failures. Fuse less protection with a manual motor starter saves costs, space and ensures a quick reaction under short-circuit condition, by switching off the motor within milliseconds. Fuse less starter combinations are setup together with contactors.



Description

- Overload protection – trip class 10
- Phase loss sensitivity
- Disconnect function
- Temperature compensation from -25 ... +60 °C
- Adjustable current setting for overload protection
- Suitable for three- and single-phase application
- Trip-free mechanism
- Trip indication
- Clear switch position indication ON/OFF/TRIP
- Lockable handle

Ordering details

MS132 screw terminal



Setting range [A]	Type	Trip class	Order code	Packing unit [Pcs]	Weight [g]
0.10 ... 0.16	MS132-0.16	10A	1SAM350000R1001	1	215
0.16 ... 0.25	MS132-0.25	10	1SAM350000R1002	1	215
0.25 ... 0.40	MS132-0.4	10	1SAM350000R1003	1	215
0.40 ... 0.63	MS132-0.63	10	1SAM350000R1004	1	215
0.63 ... 1.00	MS132-1.0	10	1SAM350000R1005	1	215
1.00 ... 1.60	MS132-1.6	10	1SAM350000R1006	1	265
1.60 ... 2.50	MS132-2.5	10	1SAM350000R1007	1	265
2.50 ... 4.00	MS132-4.0	10	1SAM350000R1008	1	265
4.00 ... 6.30	MS132-6.3	10	1SAM350000R1009	1	265
6.30 ... 10.00	MS132-10	10	1SAM350000R1010	1	265
8.00 ... 12.00	MS132-12	10	1SAM350000R1012	1	310
10.00 ... 16.00	MS132-16	10	1SAM350000R1011	1	310
16.00 ... 20.00	MS132-20	10	1SAM350000R1013	1	310
20.00 ... 25.00	MS132-25	10	1SAM350000R1014	1	310
25.00 ... 32.00	MS132-32	10	1SAM350000R1015	1	310

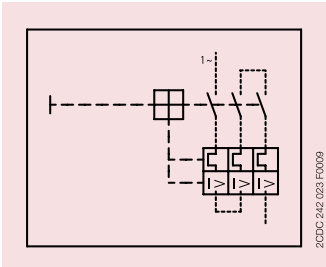
Note: MS132 with pre-assembled auxiliary contact HKF1-11, please order as follow 1SAM350005Rxxxx

Application

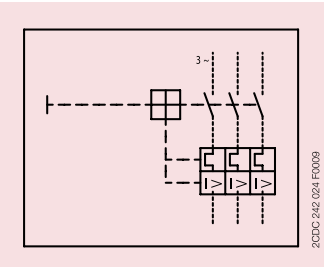
The manual motor starters protect the load and the installation against short-circuit and overload. They are three pole protection devices with thermal tripping elements for overload protection and electro-magnetic tripping elements for short-circuit protection. Furthermore, they provide a disconnect function for safely isolation of the installation and the supply and can be used for the manual switching of loads.

Operation mode

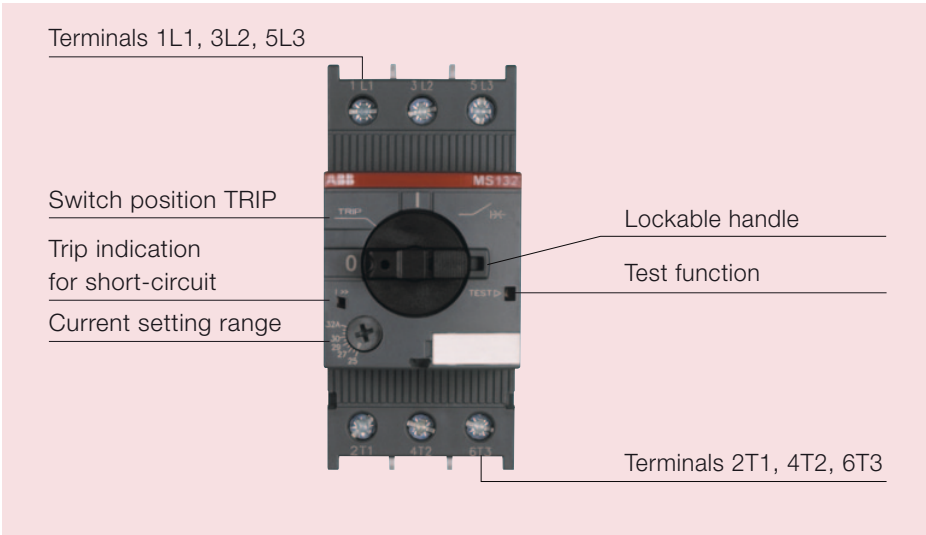
Single-phase operation



Three-phase operation



Connections



Resistance and power losses per phase

Type	Lower value setting range [A]	Upper value setting range [A]	Resistance per phase [Ω]	Power loss per Phase [W] at	
				Lower value of setting range	Upper value of setting range
MS132-0.16	0.10	0.16	66.00	0.7	1.7
MS132-0.25	0.16	0.25	25.50	0.7	1.7
MS132-0.4	0.25	0.40	10.38	0.7	1.7
MS132-0.63	0.40	0.63	4.36	0.7	1.7
MS132-1.0	0.63	1.00	1.605	0.7	1.7
MS132-1.6	1.00	1.60	0.648	0.7	1.7
MS132-2.5	1.60	2.50	0.272	0.7	1.7
MS132-4.0	2.50	4.00	0.106	0.7	1.7
MS132-6.3	4.00	6.30	0.046	0.7	1.7
MS132-10	6.30	10.0	0.024	0.9	2.4
MS132-12	8.00	12.0	0.016	1.0	2.3
MS132-16	10.0	16.0	0.011	1.1	2.8
MS132-20	16.0	20.0	0.0057	1.5	2.3
MS132-25	20.0	25.0	0.0045	1.8	2.8
MS132-32	25.0	32.0	0.0030	1.9	3.1