

Motor protective circuit breakers

Motor protective circuit breakers MSP

ETICON



MSP0

Description

The MSP0, MSP1 motor starter protectors are compact motor starter protectors for currents up to 52 A which operate according to the current limiting principle. The devices are used for switching and protecting motors or other loads. They are fitted with instantaneous overcurrent releases and inverse-time delayed overload relay. Motor starter protectors and contactors can be combined to form fuseless starter combinations. The MSP0, MSP1 motor starter protectors are suitable for use in any climate.

Motor Starter Protectors

- for motor protection
- MSP0: 0,4...25 A
- MSP1 : 22...52 A

The characteristic curves of these motor starter protectors are specially laid-out for the overload and short-circuit protection of motors. The inverse-time delayed releases ("a releases") are adjustable for setting the rated current of the motors to be protected. The instantaneous short-circuit releases ("n releases") are fixed-set to 12 times the value so as to assure faultless starting of the motors.



MSP1

Motor protective circuit breaker MSP

Type	Code No.	Rated current [A]	Thermal overload release [A]	Instantaneous overcurrent release [A]	Motor power [kW]	Weight [g]	Packaging [pcs]
MSP0-0,6	004646618	0,6	0,4...0,6	7,2	0,12/0,18	290	1
MSP0-1,0	004646619	1	0,6...1,0	12	0,25	290	1
MSP0-1,6	004646620	1,6	1,0...1,6	19	0,37/0,55	290	1
MSP0-2,4	004646621	2,4	1,6...2,4	29	0,75	290	1
MSP0-4,0	004646622	4	2,4...4,0	48	1,1/1,5	290	1
MSP0-6,0	004646623	6	4,0...6,0	72	2,2	290	1
MSP0-10	004646624	10	6,0...10	120	3/4	290	1
MSP0-16	004646625	16	10...16	190	7,5	290	1
MSP0-20	004646626	20	14...20	240	7,5	290	1
MSP0-25	004646627	25	18...25	300	11	290	1
MSP1-32	004646628	32	22...32	380	15	760	1
MSP1-40	004646629	40	28...40	480	18,5	760	1
MSP1-52	004646630	52	36...52	600	22	760	1

Accessories

Combinations:

Right hand side of MSP: An auxiliary contact and/or a short-circuit signalling contact
 Left hand side of MSP: Undervoltage release or Shunt release

Short circuit trip indication

Type	Code No.	Description	Wiring diagram	Weight [g]	Packaging [pcs]
MSP-AS	004646617	1NO+1NC (AC-15: 3A/230V, 1.5A/400V, 1A/500V)		40	1

width=9mm

Auxiliary contact

Type	Code No.	Description	Wiring diagram	Weight [g]	Packaging [pcs]
MSP-PS11	004646631	1NO+1NC (AC-15: 3A/230V, 1.5A/400V, 1A/500V)		40	1

width=9mm

Shunt release

Type	Code No.	Rated voltage Un	Operation range	Weight [g]	Packaging [pcs]
MSP-A 230	004646632	230 VAC (220-230V 50Hz)	154-253 VAC	110	1
MSP-A 24	004646633	24 VAC (24V 50Hz, 24-60V DC)	16.8 - 26.4 VAC, 16.8 - 66VDC	110	1

width=18mm, operation range: 0.7-1.1*Un

Undervoltage release

Type	Code No.	Rated voltage Un	Operation range (for keeping)	Weight [g]	Packaging [pcs]
MSP-U 240	004646634	240 V 50Hz	204-264 VAC	110	1

width=18mm, Falling (tripping) voltage: 0.35-0.7 Un, keeping voltage: 0.85-1.1Un.

Connection terminals

Type	Code No.	Description	Weight [g]	Packaging [pcs]
MSP-IZ2	004646635	busbar connection of 2 MSPs	50	1
MSP-IZ3	004646636	busbar connection of 3 MSPs	50	1
MSP-IZ4	004646637	busbar connection of 4 MSPs	100	1
MSP-TA1	004646638	3 phase line side terminal	110	1
MSP-TA2	004646639	3 phase line side terminal (in combination with MSP-IZ...)	50	1



MSP-AS



MSP-PS11



MSP-A 230



MSP-U 240



MSP-IZ3



MSP-TA1



MSP-TA2