

Type MS450 / MS451

For applications up to 50A

Suitable applications:

- Single motor, suitable as motor disconnect
- Group motor installation
- Combination motor controller
- Type E



Frame Sz. 3
MS450-40...MS450-50



Frame Sz. 3
MS451-16...MS451-50

MS450 / MS451 Electrical ratings ①

Thermal setting range (A)	Trip class	Rated operational current I_n (A)	Rated instantaneous short-circuit current setting I_s (A)	AC Motor ratings, breaking all lines, 50/60 Hz (hp)					Catalog number ③
				Single phase ②		Three phase			
				120V	240V	240V	480V	600V	
28.0...40.0	10	40.0	520	3	7.5	15	30	40	MS450-40 MS450-40E
36.0...45.0	10	45.0	585	5	7.5	15	30	40	MS450-45 MS450-45E
40.0...50.0	10	50.0	650	5	10	20	40	50	MS450-50 MS450-50E
11.0...16.0	20	16.0	208	1	3	5	10	15	MS451-16 MS451-16E
14.0...20.0	20	20.0	260	1.5	3	7.5	15	20	MS451-20 MS451-20E
18.0...25.0	20	25.0	325	2	5	10	20	25	MS451-25 MS451-25E
22.0...32.0	20	32.0	416	3	5	10	25	30	MS451-32 MS451-32E
28.0...40.0	20	40.0	520	3	7.5	15	30	40	MS451-40 MS451-40E
36.0...45.0	20	45.0	585	5	7.5	15	30	40	MS451-45 MS451-45E
40.0...50.0	20	50.0	650	5	10	20	40	50	MS451-50 MS451-50E

MS450 / MS451 Short circuit current ratings (kA)

Catalog number ④	UL 508 - Motor controllers, manual (NLRV)						UL 508 - Combination motor controllers (NKJH)					
	Max. fuse size (A)	Fuse class	Circuit breaker	Motor disconnect		Group motor installation		Self-protected Type E ⑤		Self-protected Type F		
				240V / 480V	600V	480V / 277V	600V / 347V	480V / 277V	600V / 347V	480V / 277V	600V / 347V	Type F contactors
MS450-40x	500	Any fuse class	MCCB, 500A max. ⑥	65	25	65	25	65	25	-	-	-
MS450-45x				65	25	65	25	65	25	-	-	-
MS450-50x				65	25	65	25	65	25	-	-	-
MS451-16x				65	25	65	25	65	25	-	-	-
MS451-20x				65	25	65	25	65	25	-	-	-
MS451-25x				65	25	65	25	65	25	-	-	-
MS451-32x				65	25	65	25	65	25	-	-	-
MS451-40x				65	25	65	25	65	25	-	-	-
MS451-45x				65	25	65	25	65	25	-	-	-
MS451-50x				65	25	65	25	65	25	-	-	-

① Always size manual motor protectors based on the full-load current of the motor.

② For single phase connection diagram see page 4.17.

③ MS45x-xxE part numbers include the necessary components for Type E applications – Self-protected Type E ratings apply only to these devices.

④ Replace "x" in part number with "E" for self-protected Type E ratings. All other ratings leave blank.

⑤ MCCB interrupting rating must be equal to or greater than the rating of the device.