


Technical data MN 451

MERZ Schaltgeräte GMBH + CO KG
Postfach 02 15 · DE - 74402 Gaildorf

acc. IEC 947-3, EN 60947-3			
Rated operational current I_e	AC 21 A	A	63
Rated operational voltage U_e		V	690
Rated uninterrupted current I_{th}	open	A	63
Rated uninterrupted current I_{the}	encapsulated	A	63
Rated insulation voltage U_i Insulation group C acc. VDE 0110		V	690
Rated impulse withstand voltage $U_{imp}(III/3)$		kV	6
Making/breaking capacity	Utilisation category	AC 3	
	230 V 3~	kW	11
	400 V 3~	kW	18,5
	690 V 3~	kW	22
Single-phase motor	230 V	kW	5,5
	400 V	kW	7,5
Making/breaking capacity	Utilisation category	AC 23A(B)	
	230 V 3~	kW	15
	400 V 3~	kW	22
	690 V 3~	kW	30
Short-circuit capacity			
Max. fuse rating (gG-Char.)		A	63
Rated conditional short-circuit current		kA _{eff}	6
Rated short-time withstand current $I_{cw 1sec}$		A	600
Rated short circuit making capacity I_{cm}		A	-
Isolating characteristics up to		V~	690
Terminal cross section solid or multi-stranded	min./max.	mm ²	1,0 – 10,0
Finely stranded with ferrule	min./max.	mm ²	1,0 – 10,0
Terminal screws			M5
Torque terminal screws		Nm	2,2
Mechanical life	Operating cycles		1x10 ⁶
Ambient temperature	open	°C	+50/-25
	encapsulated	°C	+40/-25
acc. UL und CSA			
			
Rated operational current		A	32
Rated operational voltage		V	600
Making/breaking capacity	Utilisation category	AC 3	
Motor 3-phase	110/120 V 3~	hp	7,5
	220/240 V 3~	hp	7,5
	440/480 V 3~	hp	20
	550/600 V 3~	hp	20
Making/breaking capacity	Utilisation category	AC 23A(B)	
Motor 1-phase	220/240 V	hp	3
	440/480 V	hp	10
	550/600 V	hp	15
Cable cross section		AWG-No	14 - 6