

Controls Manual Motor Protectors - MPW100 Technical Data

Power Contact Ratings

ТҮРЕ			MPW100-3-U075	MPW100-3-U090	MPW100-3-U100		
Standards			Devices according to International Standards IEC 60947-1 / 60947-4-1, European Standards EN 60947-1 / 60947-4-1, Underwriters Laboratories - UL 508; CSA C.22.2/14; VDE 0660/102				
Current Setting Range		[A]	55 - 75	70 - 90	80 - 100		
Rated Thermal Current Ith		[A]	75	90	100.00		
Rated Insulation Voltage Ui							
Acc. IEC; VDE 0660		[V]		690			
Acc. UL; CSA		[V]	600				
Rated Operating Voltage Ue							
Acc. IEC; VDE 0660		[V]	690				
Acc. UL; CSA		[V]	600				
Rated Impulse Voltage Uimp							
Acc. IEC60947-1		[kV]	6				
Rated Operating Frequency		[Hz]	50/60				
Overvoltage Category							
Pollution Degree			3				
Utilization Category							
IEC 60947-2 (Motor Protector)				A			
IEC 60947-4-1 (Motor Starter)			AC-3				
Lifespan							
Mechanical		[ops.]		50,000			
Electrical (le max.)		[ops.]	25,000				
Switching Rate (motor starts)	AC-3	[ops/hr]		15			
Ambient Temperature	7.0 0	[opo/iii]					
Storage		[oC (oF)]		-50 to +80 (-58 to +176)			
Operating		[oC (oF)]	-20 to +60 (-4 to +140)				
Ambient Temperature Compensation		[oC (oF)]	-20 to +60 (-4 to +140)				
Climatic Proofing		[00 (01)]	IEC 60068-2-3 / IEC 60068-2-30				
Altitude				ILG 00000-Z-37 ILG 00000-Z-30			
Up to 2,000m (6,600ft)			Nomina	Values (for higher altitudes refer to r	24A)		
Degree of protection			Nominal Values (for higher altitudes refer to page 244) IP20				
Resistance to Shock				11 20			
Acc. IEC 60068-2-27		[a]		15			
Resistance to Vibration		[g]	15 IEC 68-2				
Protection against direct contact				IEG 00-2			
-				Financiand book of bond wood			
Acc. IEC 536; DIN VDE 0106 Part 100			Finger and back of hand proof				
Phase Failure Sensitivity Protection	v lu	ran.	Yes				
Overload Protection Characteristics	x lu	[A]	0.6 - 1				
Magnetic Release	x lu	[A]	13				
Overload Trip Class				10			
Total Power Loss Pv							
At rated load operating temperature		[W]	10	10	10		
Weight		[kg]		1.20			
To a of Tours land		[lb]		3.00			
Type of Terminal			Flat Type				
Screw Driver				Allen #4			
Terminal Capacity							
Solid		[mm2]		Refer to table on page 243			
Stranded		[mm2]					
Solid or Stranded		[AWG]					
Tightening Torque		[N.m (lb.in)]	4.0 - 4.6 (35 - 55)				
Mounting Position				Any Position			



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UL/CSA DATA					
Rated Operational Current le		[A]	75	90	100
Magnetic Release Current		[A]	975	1170	1300
Max. Short Circuit Current					
	480V	[kA]	50		
	600V	[kA]	10		
Motor Load, 1-phase					
	115V	[HP]	5	71/2	10
	230V	[HP]	15	20	20
Motor Load, 3-phase					
	200V	[HP]	20	25	30
	230V	[HP]	25	30	30
	460V	[HP]	50	60	75
	575V	[HP]	60	75	100
Max. Rated Current of Protection Device for Group Installa	ation				
	Fuse or MCCB	[A]			
IEC DATA					
Rated Operational Current le		[A]	75	90	100
Magnetic Release Current		[A]	975	1170	1300
Back-Up Fuses					
gL/gG	220/240V	[A]	-	-	-
	380/400V	[A]	-	-	-
	415/440V	[A]	200	200	200
	500V	[A]	160	160	160
	660/690V	[A]	125	160	160
Ultimate Short Circuit Breaking Capacity					
lcu	220/240V	[kA]	100	100	100
	380/400V	[kA]	75	75	75
	415/440V	[kA]	50	50	50
	500V	[kA]	12	12	12
	660/690V	[kA]	6	6	6
Rated Service Short Circuit Breaking Capacity					
lcs	220/240V	[kA]	100	100	100
	380/400V	[kA]	50	50	50
	415/440V	[kA]	38	38	38
	500V	[kA]	9	9	9
	660/690V	[kA]	6	6	6