

# Motor motion controller for the most AC and DC motors type MSM3

## Technical data



- Standstill recognition without tacho alternator
- Suitable for the most AC and DC motors
- Continuous monitoring by running motor
- High input sensitivity
- Digital analysis logic
- Utilizable as voltage detector
- Suitable for the tropics - Epoxy resin casted
- Operating status shown by LED
- Safety acc. to VDE, EN, UL, CSA

Supply		
Input voltage AC	230VAC	0 - 400 Hz
Input voltage tolerance	-20% to +10%	
Frequency	40 - 60Hz	
Consumption	max. 3VA	

Input circuit		
Max. DC input voltage	600VDC	
Max. AC input voltage	550VAC	
Range of adjustment $U_{\text{ein}}$	20mV to 3,0V	
Input impedance	approx. 680K Ohm	
Range of adjustment run out time	0,1s to 20s	

Motor connections		
DC motor terminal "+"	on MSM3 terminal E1	
DC motor terminal "-"	on MSM3 terminal E2	
AC motor terminal "U"	on MSM3 terminal E1	
AC motor terminal "V"	on MSM3 terminal E2	
Star-delta operation terminal "X"	on MSM3 terminal E2	

Operating data		
Duty circle	100%	
Operating temperature range	-30°C to +70°C	
Derating	-	
Storage temperature range	-30°C...+105°C	
Cooling	selfcooling	
	recommended respective distance 15mm each	

Safety devices		
Fuse for input	100mA delayed	
Fuse for output	-	
Overload protection	-	
MTBF	>380.000 h	

Safety data		
Test voltage transformer	5 kVac in accordance to VDE 0551	
High voltage resistance	Primary circuit - secondary circuit 3,75 kVac acc. to VDE 0806 / IEC 380	
Degree of EMI suppression	in acc. to VDE 0871 B, EN 55022/B	
Protection class	Class 2 (EN 60950)	
Extra low safety potential	-	
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient	
Protective class enclosure	IP 65	
Protective class terminals	IP 20 (VGB4)	
Vibration proof	>30g at 33Hz in X,Y and Z, acc. to IEC 60068-2-27	

Applied construction regulations		
according to VDE	VDE 0100, 0110, 0113, 0551, 0160/W2, 0806	
IEC	IEC 60950, IEC61000-6-1-2-3-4, IEC60068-2-3 IEC 60068-2-11-52, IEC 60529, IEC 380	
EN	EN60950, EN50081-1, EN50081-2, EN50082-1 EN61000-6-1-2-3-4, EN50178, EN55022 EN55011, EN61000-3-3, EN50204, EN61558-2-17 EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11 EN60068-1, EN60068-2-1-2-3-6-27-30 EN45501, EN50021	
CSA / UL	CSA-C 22.2 / UL60950, UL508, UL1950	

Mechanics		
Mounting	on rails acc. to DIN 46277 or wallmounting with screws	

