

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



## Technical data

### 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 <sub>ein</sub>	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

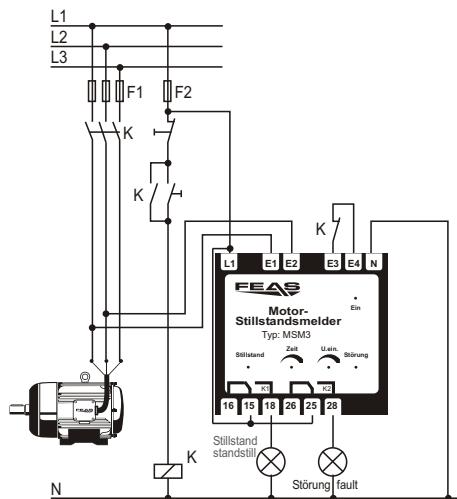
according to VDE	VDE 0100, 0110, 0113, 0551, 0160/W2, 0806
IEC	IEC 60950, IEC61000-6-1-2-3-4, IEC60068-2-3
	IEC 60068-2-11-52, IEC 60529, IEC 380
EN	EN60950, EN50081-1, EN50081-2, EN50082-1
	EN61000-6-1-2-3-4, EN50178, EN55022
	EN55011, EN61000-3-3, EN50204, EN61558-2-17
	EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11
	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
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### Operation mode

#### delayed



#### continuous

