

**Thermistor overload relay for machine protection, 1W , 24-240V50/60Hz, 24-240VDC, without reclosing lockout**



**Part no.** EMT6  
**Article no.** 066166  
**Catalog No.** EMT6

## Delivery program

Product range				EMT6 thermistor overload relay for machine protection
Function				Without manual reset Mains and fault LED display Test button
<b>Rated operational current</b>				
AC-15				
240 V	$I_e$	A		3
AC--14				
300 V	$I_e$	A		3
400 V	$I_e$	A		3
				Value applies starting with release 001.
conventional thermal current	$I_{th}$	A		6
Rated control voltage	$U_s$	V		24 - 240 V 50 - 400 Hz 24 - 240 V DC
<b>Notes</b>				
Observe manual MN03407006Z-DE/EN.				
Can be snap fitted on a top-hat rail to IEC/EN 60715.				

## Technical data

<b>General</b>				
Standards				IEC/EN 60947, VDE 0660, EN 55011
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature				
Open		°C		-25 - +60
Enclosed		°C		- 25 - 45
Storage		°C		- 45 - 85
Mounting position				As required
Weight		kg		0.15
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g		10
Degree of Protection				IP20
Protection against direct contact when actuated from front (EN 50274)				Finger and back-of-hand proof
Safe isolation to EN 61140				
between the contacts		V AC		250
between contacts and power supply		V AC		250

## Auxiliary and control circuits

Rated impulse withstand voltage	$U_{imp}$	V AC		4000
Rated impulse withstand voltage	$U_{imp}$	V AC		6000
				Value applies starting with release 001.
Overvoltage category/pollution degree				III/3
Terminal capacities Auxiliary and control circuits				
Solid		mm <sup>2</sup>		1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Flexible with ferrule		mm <sup>2</sup>		1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Solid or stranded		AWG		20 - 14
Terminal screw				M3.5
Tightening torque		Nm		1.2

Tools			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6

### Auxiliary power circuit

Rated insulation voltage	$U_i$	V	300
Rated insulation voltage	$U_i$	V	400
			Value applies starting with release 001.
Rated operational current	$I_e$	A	
AC--14			
Make contact			
300 V	$I_e$	A	3
380 V 400 V 415 V	$I_e$	A	3
			Value applies starting with release 001.
Break contact			
300 V	$I_e$	A	3
380 V 400 V 415 V	$I_e$	A	3
			Value applies starting with release 001.
AC-15			
Make contact			
220 V 230 V 240 V	$I_e$	A	3
300 V	$I_e$	A	1
380 V 400 V 415 V	$I_e$	A	1
			Value applies starting with release 001.
Break contact			
220 V 230 V 240 V	$I_e$	A	3
300 V	$I_e$	A	1
380 V 400 V 415 V	$I_e$	A	1
			Value applies starting with release 001.
Max. short-circuit protective device			
Fuse	gG/gL	A	6

### Control circuit

Rated insulation voltage	$U_i$	V	240
Rated operational voltage	$U_e$	V	240
Pick-up and drop-out values		x $U_e$	0.85 - 1.1
Power consumption			
AC		VA	3.5
DC		W	2
Trip at approx.		$\Omega$	3600
Recovery at approx.		$\Omega$	1600

### Electromagnetic compatibility (EMC)

Electrostatic discharge (ESD)			
applied standard			IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI)			
applied standard			IEC/EN 61000-4-3
		V/m	80 - 1000 MHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			
			EN 55011 Class B
Burst		kV	Supply cables: 2 Signal cables: 1 according to IEC/EN 61000-4-4
power pulses (Surge)			2 kV (symmetrical) 4 kV (asymmetrical) according to IEC/EN 61000-4-5
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10