

Part no. EMT6-DB(230V)
Catalog No. 066401
Alternate Catalog No. EMT6-DB(230V)
EL-Nummer (Norway) 4131787

Delivery program

Product range			EMT6 thermistor overload relay for machine protection
Function			Selector switch with/without manual reset For manual or remote resetting Test button Mains and fault LED display
Rated operational current			
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	230 V 50/60 Hz
Notes			
Observe manual MN03407006Z-DE/EN.			
Can be snap fitted on a top-hat rail to IEC/EN 60715.			

Technical data

General

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 ²	1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Flexible with ferrule		mm ²	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	230
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.		Ω	3600
Recovery at approx.		Ω	1600
Sensor circuit			<p>Sensor circuit parameters at U_S and +20 °C:</p> <p>max. Cable length to sensor 250m (not insulated)</p> <p>Total cold resistance $\sum R_K \leq 1500 \Omega$</p> <p>- R_{T1-T2} (T1, T2 shorted): I_{T1-T2} = 1.9 mA</p> <p>- R_{T1-T2} (4 kΩ): U_{T1-T2} = max. 3 V DC, I_{T1-T2} = max. 0.8 mA</p> <p>- R_{T1-T2} (T1, T2 open): U_{T1-T2} = 5.1 V DC typ. (5.5 V DC max.)</p>

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	<p>80 - 1000 MHz: 10</p> <p>1.4 - 2 GHz: 3</p> <p>2.0 - 2.7 GHz: 1</p>
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

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	0
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	1.5
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60

Technical data ETIM 8.0

Relays (EG000019) / Temperature monitoring relay (EC001446)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Temperature monitoring equipment (ecI@ss10.0.1-27-37-18-10 [AKF104014])			
Type of electric connection			Screw connection
Rated control supply voltage U _s at AC 50HZ		V	230 - 230
Rated control supply voltage U _s at AC 60HZ		V	230 - 230
Rated control supply voltage U _s at DC		V	0 - 0
Voltage type for actuating			AC
With detachable clamps			No
Number of measuring circuits			1
Error registration possible			No
External reset possible			Yes
Number of contacts as normally closed contact			1
Number of contacts as normally open contact			1
Number of contacts as change-over contact			0
Temperature measuring range		°C	0 - 0
Resistance measuring range		Ohm	750 - 12000
Width		mm	23
Height		mm	83
Depth		mm	103