DATASHEET - EMT6-KDB



Thermistor overload relay for machine protection, 1N/O+1N/C, 24-240VAC/DC, with reclosing lockout

Part no. EMT6-KDB

269471

EL Number

4110424

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(Norway)	
General specifications	
Product name	Eaton Moeller® series EMT6 Thermistor overload relay
Part no.	EMT6-KDB
EAN	4015082694715
Product Length/Depth	103 millimetre
Product height	83 millimetre
Product width	23 millimetre
Product weight	0.132 kilogram
Certifications	CE IEC/EN 60947 IEC/EN 60947-8 UL 508 CSA UL File No.: E29184 EN 55011 IEC/EN 61000-4-2 VDE 0660 IEC/EN 61000-4-3 CSA-C22.2 No. 14 UL UL Category Control No.: NKCR CSA Class No.: 3211-03 CSA File No.: 12528
Product Tradename	EMT6
Product Type	Thermistor overload relay
Product Sub Type	None
eatures & Functions	
Electric connection type	Screw connection
Functions	Manual or remote resetting External reset possible Test function via separate button Short-circuit in the sensor cable Notifications of mains and faults via LED display Manual reset
Temperature measuring range - min	0 °C
Temperature measuring range - max	0 °C
eneral information	
Degree of protection	IP20
Mounting position	As required
Overvoltage category	III
Pollution degree	3
Product category	EMT6 thermistor overload relay for machine protection
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	4000 V AC 6000 V AC
Safe isolation	250 V AC, Between the contacts and power supply, According to EN 61140 250 V AC, Between the contacts, According to EN 61140
Shock resistance	10 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Voltage type	AC/DC
limatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	45 °C
Ambient storage temperature - min	45 °C

Ambient storage temperature - max	85 °C			
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Electro magnetic compatibility				
Air discharge	8 kV			
Burst impulse	According to IEC/EN 61000-4-4 2 kV, Supply cable 1 kV, Signal cable			
Contact discharge	6 kV, Electrostatic discharge (ESD)			
Electromagnetic fields	10 V/m at 80 - 1000 MHz (according to IEC EN 61000-4-3) 1 V/m at 2.0 - 2.7 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)			
Immunity to line-conducted interference	10 V (according to IEC/EN 61000-4-6)			
Radio interference class	Class B (EN 55011)			
Surge rating	4 kV, asymmetrical, power pulses (Surge), EMC According to IEC/EN 61000-4-5, power pulses (Surge), EMC 2 kV, symmetrical, power pulses (Surge), EMC			
Terminal capacities				
Terminal capacity Screw size	2 x (0.5 - 1.5) mm², solid 20 - 14 AWG, solid or stranded 2 x (0.5 - 1.5) mm², flexible with ferrule 1 x (0.5 - 2.5) mm², solid 1 x (0.5 - 2.5) mm², flexible with ferrule M3.5, Terminal screw			
Screwdriver size	1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver			
Tightening torque	1.2 Nm, Screw terminals			
Electrical rating				
Conventional thermal current ith of auxiliary contacts (1-pole, open)	6 A			
Pick-up voltage	0.85 - 1.1 V x U#			
Power consumption	3.5 VA at AC 2 W at DC			
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V			
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V			
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V			
Rated control supply voltage (Us) at AC, 60 Hz - max	240 V			
Rated control supply voltage (Us) at DC - min	24 V			
Rated control supply voltage (Us) at DC - max	240 V			
Rated insulation voltage (Ui)	400 V			
Rated operational current (le)	3 A at AC-15, 220 V 230 V 240 V (NC) 1 A at AC-15, 380 V 400 V 415 V (NC) 3 A at AC-15, 220 V 230 V 240 V (NO) 3 A at AC-14, 380 V 400 V 415 V (NO) 3 A at AC-14, 380 V 400 V 415 V (NO) 3 A at AC-14, 300 V (NC) 3 A at AC-15, 220 V 230 V 240 V 1 A at AC-15, 380 V 400 V 415 V (NO) 1 A at AC-15, 300 V (NO) 3 A at AC-14, 300 V (NO) 3 A at AC-14, 300 V (NO) 3 A at AC-14, 300 V (NC) 1 A at AC-15, 300 V (NC) 3 A at AC-14, 380 V 400 V 415 V (NC)			
Rated operational voltage (Ue) - max	240 V			
Reset resistance	1600 0			
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts			
Trip resistance	3600 0			
Voltage rating - max	600 V			
Contacts				
Number of contacts (change-over contacts)	0			
Number of contacts (normally closed contacts)	1			
Number of contacts (normally open contacts)	1			
Design verification				
Equipment heat dissipation, current-dependent Pvid	0 W			
Heat dissipation capacity Pdiss	0 W			
Heat dissipation per pole, current-dependent Pvid	0 W			

Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	0.8 W

Technical data ETIM 9.0

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 (ecl@ss13-27-37-18-10 [AKF104019])

(eci@5513-27-37-10-10 [AKF104019])		
Type of electric connection		Screw connection
With detachable clamps		No
Voltage type (supply voltage)		AC/DC
Supply voltage AC 50 Hz	V	24 - 240
Supply voltage AC 60 Hz	V	24 - 240
Supply voltage DC	V	24 - 240
Number of measuring circuits		1
Error registration possible		No
External reset possible		Yes
Temperature measuring range	°C	0 - 0
Resistance measuring range	Ohm	750 - 12000
Connection type auxiliary circuit		Screw connection
Number of contacts as normally closed contact		1
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0
Voltage type (operating voltage)		AC/DC
Operating voltage AC 50 Hz	V	24 - 240
Operating voltage AC 60 Hz	V	24 - 240
Operating voltage DC	V	24 - 240
Rated switch current	Α	6
Width	mm	23
Height	mm	83
Depth	mm	103