Thermal Overload Relay multicomp





Operating Characteristics

Туре		*	MCTR2-D18321	MCTR2-D25322	Unit
Temperature Compensation		-20 ~ +60	-30 ~ +60	-30 ~ +60	°C
Tripping Threshold	Conforming to IEC 6047-4-1	1.14 ±0.061n			Α
Sensitivity to phase failure	Conforming to IEC 60947-4-1	Trip	ping current 25%	above In	-

^{*}MCTR2-D09306; MCTR2-D09307; MCTR2-D09308; MCTR2-D09310; MCTR2-D09312; MCTR2-D09314; MCTR2-D12316

Auxiliary Contact Characteristics

Туре	Values	Unit	
Conventional thermal Current		5	Α
Maximum consumption of operating	AC Supply	24 48 110 220 380 600	V
Coil of controlled contactors (Occasional		100 200 400 600 600 600	VA
operating cycles of contact 95 - 96)		24 48 110 220 440 -	V
Short circuit protection		100 100 50 45 25 -	W
	By gG or BS fuse Max. rating or by GB2 circuit-breaker	5	A
Connection to screw clamp terminal	Minimum	/ Maximum GSA	-
Flexible cable without cable end	1 or 2 conductors	1 / 2.5	mm ²
Flexible cable with cable end	1 or 2 conductors	1 / 2.5	mm ²
Solid cable without cable end	1 or 2 conductors 1 / 2.5		mm ²
Tightening torque	1 or 2 conductors	1.85	Nm
Connecting to spring terminal Minimum		/ Maximum GSA	-
Flexible cable without cable end	1 or 2 conductors 1 / 2.5		mm ²
Solid cable without cable end	1 or 2 conductors	1 / 2.5	mm ²

Electrical Characteristics of Power Circuit

Туре		*	MCTR2-D18321	MCTR2-D25322	Unit
Tripping class		10	10	10	Α
Rated insulation Voltage (Ui)	Conforming to IEC 6094 7-4-1	690	690	690	V
Rated operating voltage upto	Conforming to UL, GSA	600	600	600	V
Rated impulse withstand voltage (Uimp)		6	6	6	kV
Frequency limits	Of the operational current	0 ~ 400	0 ~ 400	0 ~ 400	Hz
Setting range	Depending on model	0.1 ~ 13	12 ~ 38	17 ~ 104	Α

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Туре		*	MCTR2-D18321	MCTR2-D25322	Unit
Connecting to screw clamp terminal	Minimum / Maximum GSA				-
Flexible cable without cable end	1 conductor	1.5 / 10	1.5 / 10	4 / 35	mm ²
Flexible cable with cable end	1 conductor	1/4	1 / 6 except MRTR2- D18321: 1/4	4 / 35	mm ²
Solid cable without cable end	1 conductor	1/6	1.5 / 4 except MRTR2- D18321:1/6	4 / 35	mm ²
Tightening torque		1.7	2.5	9	Nm
Connection to spring terminals	Minimum / Maximum GSA				-
Solid Cable without cable end	1 conductor	1.5 / 4	1.5 / 4	-	mm ²

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Environment

Conforming to standards	IEC 60947-1, IEC 60947-4-1, NFC 63-650, VDE 0660, BS 4941					
Approvals	UL, CSA, IEC	JL, CSA, IEC				
Degree of protection	Conforming to VDE 0106	Protection against direct finger contact IP 2X				
Protective treatment	Conforming to IEC 68	"TH"				
	Storage	-60°C to +70°C				
Ambient air temperature (around the device)	Operation, without derating	-25°C to +60°C				
Max. & Min. operating temp		40°C to +70°C				
Operating position	Without derating	Any Position, in relation to normal vertical mounting plane				
Shock resistance	Permissible acceleration	15gn - 11 ms, conforming to IEC 68-2-7				
Vibration resistance	Permissible acceleration	6gn, conforming to IEC 68-2-6				
Dielectric strength at 50 Hz	Conforming to IEC 255-5	6kV				
Impulse withstand voltage	Conforming to IEC 801-5	6kV				

Overload Relay (Class 10)

	Relay	Standard po	Standard power ratings of 3-phase motors 50~60Hz AC3 Category					Back Up	
Part Number	Setting	220V	380V	415V	440V	660V	Fuse I	Rating	
	Range (A)	kW	kW	kW	kW	kW	aM (A)	g1 (A)	
MCTR2-D09306	1 to 1.6	1	0.37	-	0.55	1.1	2	4	
MCTR2-D09307	1.6 to 2.5	0.37	0.75	1.1	1.1	1.5	4	6	
MCTR2-D09308	2.5 to 4	0.75	1.5	1.5	1.5	3	6	10	
MCTR2-D09310	4 to 6	1.1	2.2	2.2	2.2	4	8	16	
MCTR2-D09312	5.5 to 8	1.5	3	3.7	3.7	5.5	12	20	
MCTR2-D09314	7 to 10	2.2	4	4	4	7.5	12	20	
MCTR2-D12316	9 to 13	3	5.5	5.5	5.5	10	16	25	

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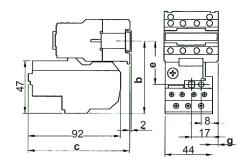


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	Relay	Standard po	Standard power ratings of 3-phase motors 50~60Hz AC3 Category					Back Up		
Part Number	Setting	220V	380V	415V	440V	660V	Fuse I	Rating		
	Range (A)	kW	kW	kW	kW	kW	aM (A)	g1 (A)		
MCTR2-D18321	12 to 18	4	7.5	9	9	15	20	35		
MCTR2-D25322	17 to 25	5.5	11	11	11	18.5	25	50		

Dimensions



Part Number	b	С	е	g
MCTR2-D09306				
MCTR2-D09307	81			
MCTR2-D09308			50	
MCTR2-D09310		98		0
MCTR2-D09312				
MCTR2-D09314				
MCTR2-D12316				
MCTR2-D18321				
MCTR2-D25322	86mm	108	55	10.7

Dimensions: Millimetres

Part Number Table

Description	Part Number
Thermal Overload Relay, 1 ~ 1.65A	MCTR2-D09306
Thermal Overload Relay, 1.6 ~ 2.5A	MCTR2-D09307
Thermal Overload Relay, 2.5 ~ 4A	MCTR2-D09308
Thermal Overload Relay, 4 ~ 6A	MCTR2-D09310
Thermal Overload Relay, 5.5 ~ 8A	MCTR2-D09312
Thermal Overload Relay, 7 ~ 10A	MCTR2-D09314
Thermal Overload Relay, 9 ~ 13A	MCTR2-D12316
Thermal Overload Relay, 12 ~ 18A	MCTR2-D18321
Thermal Overload Relay, 17.25A	MCTR2-D25322

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