Thermal Overload Relay multicomp PRO





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	pping 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				
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			
(diodila tilo dovido)	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	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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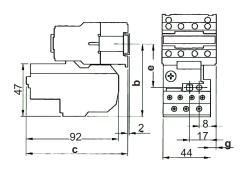


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	Relay	Standard po	Standard power ratings of 3-phase motors 50~60Hz AC3 Category					k Up
Part Number	Setting	220V	380V	415V	440V	660V	Fuse I	Rating
	Range (A)	kW	kW	kW	kW	kW	aM (A)	g1 (A)
MCTR2-D18321	12 to 18	4	7.5	9	9	15	20	35
MCTR2-D25322	17 to 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				0
MCTR2-D09314				
MCTR2-D12316				
MCTR2-D18321				
MCTR2-D25322	86mm	108	55	10.7

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

Dimensions: Millimetres

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