Thermal overload relays XTOD/XTOG

Product description

XTOD/XTOG thermal overload relays offer precision motor protection with phase loss protection and ambient temperature compensation. The seperate mount design allows for flexibility and the units can be mounted on DIN rail or directly on the panel adjacent the motor contactor.

XTOD... is for separate mounting; XTOG is for direct mounting.

Features

- Precision motor protection up to 97A
- Integral 1NO/1NC contact for contactor control and alarm signal
- Phase loss protection
- Ambient temperature compensation
- DIN rail or panel mount options

System overview

Thermal overload relays provide protective features for 1 or 3 phase motors. The relay monitors the operating current of the motor and switched the contactor off in the event of an overload situation. It also protects the motor from damage during phase loss.

Standards and certifications

- GB 14048
- IEC/EN 60947
- CCC
- CE

XTOG Overload Relay

XTOG 097 EC1

Designation
XTOG = Thermal Overload Relay

Ampere Rating
0.3A-97A

Frame Size
BC1 = 0.1-12A
CC1 = 12-32A
DC1 = 17-65A
EC1 = 37-97A

Technical data

General			XTOD/XTOG
Standards			IEC/EN 60947, GB 14048
Climatic Proofing			Damp heat, constant, to IEC60068-2-78 Damp heat, cyclic, to IEC60068-2-30
Ambient temperature			
Open		°C	-25~55
Enclosed		°C	-25~40
Temperature compensation		°C	-5~40
Weight		kg	0.15
Protection type			IP20

Main contacts			XTOD/XTOG
Rated impulse withstand voltage	U_{imp}	VAC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage			
AC	U_i	VAC	690
Rated operational voltage	U_e	VAC	690
Overload release setting range		A	0.1-97
Terminal capacity			
Solid		mm^2	1 x (1-6) 2 x (1-6)
Flexible with ferrule		mm^2	1 x (1-6) 2 x (1-6)
Solid/stranded		AWG	
Terminal screw			M4
Tightening torque		Nm	1.2

Auxiliary and control circuits			XTOD/XTOG
Rated impulse withstand voltage	U_{imp}	V	6000
Overvoltage category/pollution degree			III/3
Terminal capacity			
Solid		mm^2	1 x (1-6) 2 x (1-6)
Flexible with ferrule		mm^2	1 x (1-6) 2 x (1-6)
Solid/stranded		AWG	
Terminal screw			M3.5
Tightening torque		Nm	0.8
Rated insulation voltage	U_i	VAC	690
Rated operational voltage	U_e	VAC	690
Conventional thermal current	I_{th}	A	10
Rated operational current			
AC-15			
120V	I_e	A	6
220/240V	I_e	A	3
380V	I_e	A	1.9
480V	I_e	A	1.5
500V	I_e	A	1.4
600V	I_e	A	1.2
DC-13			
125V	I_e	A	0.55
250V	I_e	A	0.27