

CTX³ 9A/12A/18A/22A/32A/40A/50A/60A/75A/85A/100A/130A/150A

This manual should be given to the person who actually uses the products and is responsible for their maintenance.

Warning

1) Before installation or inspection of contactors, overloads turn off disconnect and verify power has been removed.

2) Do not modify device unless authorized, in writing, by Legrand.

3) Be sure to tighten terminal screws to specified torque. Loose terminal connection may result in fire.

4) Do not operate contactor with cover removed, an open arc-extinguishing chamber may result in electric shock and severe burns.

5) In the event of an overload trip, inspect system and remove the cause of the overload condition before re-applying power.

6) Installation, maintenance, and inspection should be performed by qualified personnel.

7) When disposing, treat products as industrial waste.

Check point before Installation

Please verify that the product ratings are correct for intended application

Installation Instruction

1) Install in environment free from excessive vibration and humidity.

2) Product may be installed in either a vertical or horizontal position. Up to 30° deviation is allowed. Consult Fig.1 for details.

3) KEEP the distance more than 10mm with CTX³ 22-100, 20mm with CTX³ 130-150 arc space shown in Fig.2 when installing magnetic contactors in panel. [With safety cover]

[Fig.1]

[Fig.2]

SCREW TYPE

Reversing-Type Wiring Diagram

Thermal Overload Relay

- 1) Turn the current setting dial arrow to the appropriate amperage setting. For service factor other than 1.00, increase the current setting by the service factor percentage. RTX³ relays may be set up to 20% higher than maximum motor rating.
- 2) Please rotate the current adjustment dial within the amp range scale.
- 3) Select either manual overload reset [H] or automatic reset [A] by depressing and rotating green button, so the arrow points to the desired mode. In manual mode reset the trip condition by pressing green button. Note: relay will only reset after sufficient cooling time has elapsed.
- 4) Test the overload by pulling the red button. Press the red button to open the N/C contacts [95-96]

	STOP	TEST/TRIP	RESET
NC 95-96			
NO 97-98			

Reversing Contactors

- 1) When using contactors in a reversing operation use either the mechanical interlock 4 168 80 or if using an electrical interlock. We recommend use of a time delay relay to avoid a possible short circuit.
- 2) When using an electrical interlock, the residual charge in the motor windings must be dissipated before transitioning to avoid a line side short.
- 3) In case of using in reversible mode which may cause arc-short by change, use the delay or dead interval of up to operational on reversing must be taken into account.

Wire Size and Tightening Torque

FRAME	WIRE TYPE								TORQUE
		[mm ² / AWG]							[Nm / lb-in]
CTX ³ 22		1-6 / 18-10	1-6 / 18-10	0.75-6 / 18-10	1-6 / 18-10	0.75-6 / 18-10	1-6 / 18-10	0.75-6 / 18-10	9.6
CTX ³ 30		1-6 / 18-10	1-6 / 18-10	0.75-6 / 18-10	1-6 / 18-10	0.75-4 / 18-10	0.75-4 / 18-10	0.75-4 / 18-10	12.8
CTX ³ 65		0.75-35 / 18-2	0.75-25 / 18-4	0.75-25 / 18-4	0.75-25 / 18-4	0.75-16 / 18-6	0.75-16 / 18-6	0.75-16 / 18-6	14
CTX ³ 100		2.5-70 / 12-2.0	2.5-50 / 12-1.0	2.5-50 / 12-2.0	2.5-50 / 12-1.0	2.5-35 / 10-2	2.5-35 / 10-2	2.5-35 / 10-2	17
CTX ³ 150		2.5-70 / 12-2.0	2.5-50 / 12-1.0	2.5-50 / 12-2.0	2.5-50 / 12-1.0	35-95 / 8-4.0	35-95 / 8-4.0	35-95 / 8-4.0	24.5
COIL TER.		0.5-2.5 / 20-14	0.5-2.5 / 20-14	0.5-2.5 / 20-14	0.5-2.5 / 20-14	0.5-2.5 / 20-14	0.5-2.5 / 20-14	0.5-2.5 / 20-14	7.6
		0.75-2.5 / 18-12							1.75 / 15

Wiring Schematic



