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REPORT

on

MANUAL MOTOR CONTROLLERS

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## DESCRIPTION

## PRODUCT COVERED:

USL, CNL - Manual Motor Controller, Models LT16, LT20A, LT25, LT25A, LT32, LT40, LT63, LT80, LT100, LT125, LT180 and LT250; prefixed by N, H, or U; followed by /3, /4 or /6; followed by /E, /V, /T, /VZ, /VZM, /ZM, /PM-D1, /PM-D2, /PM-D3, /PZ-D1, /PZ-D2 or /PZ-D3; may be followed by /Z20-D0, /Z20-D1, /Z20-D2, /Z20-D2/Z65, /Z33-D0, /Z33-D1, /Z33-D2, /Z33-D1/Z45, /Z33-D2/Z45, /Z33-D1/Z45/ZM, /Z33-D2/Z45/ZM, /Z33-D1/Z65, /Z33-D1/Z65/ZM, /Z33-D2/Z65, /FS-D2/Z65, /FR-D2/Z65, /Z35-D1, /Z35-D2, /Z36, /2xZ36, /Z39-D1, /Z62, /Z78 or /Z79; may be followed by /NS-D0, /NR-D0, /NS-D1, /NR-D1, /FS-D2 or /FR-D2; may be followed by /X72, /X73, /X82, /X83 or /X100; may be followed by /HE, /HV, /2xHE or /2xHV; may be followed by 01, 10, 11 or 20; may be followed by /NVG, /PE or /N.

## Accessory Device for LT Series:

## -Auxiliary Contacts

Series HE, HV, followed by 01, 10 or 11, may be followed by /X85 or /X92.

## -Switched Fourth poles

Series NVG, followed by 16, 40, 80, 125 or 250, followed by E or V.

## -N-Terminals

Series N, followed by 20, 40, 80, 125 or 250, followed by E or V.

## -PE Terminals

Series PE, followed by 20, 40, 80, 125 or 250, followed by E or V.

GENERAL - Models LT16, LT20A, LT25, LT25A, LT32, LT40, LT63, LT80, LT100, LT125 are 3-pole or 4-pole open type manual motor controllers intended as a disconnecting means for a motor, motor starter or motor controller of a single motor or a group of motors.

Models LT180 and LT250 are 3-pole or 4-pole open type manual motor controllers intended as motor controller of a single motor. They are suitable as motor disconnect.

Depending on the application the devices may be provided for back panel mounting or front mounting with different front units, for four screw panel mounting or padlocking mounting. See also the Nomenclature Breakdown.

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ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

USL - Indicates investigation to United States Standard(s)  
UL 60947-4-1(Low Voltage Switchgear and Controlgear).

CNL - Indicates investigation to Canadian National Standard(s)  
C22.2 No. 60947-4-1-14 )Low-Voltage Switchgear and Controlgear).

Note: CNL = Canadian National Standards - Listed.  
USL = United States Standards - Listed.

## RATINGS:

## MODEL LT 16

	Single-Phase		HORSEPOWER RATINGS			
	(2-Pole breaking)		Three-Phase			
Volts	120	240	120	240	480	600
Max hp	0.5	1.5	1	3	7.5	10
FLA (Amperes)	9.8	10	8.4	9.6	11	11

GENERAL PURPOSE: 600 V ac, 16 A, 3-ph  
5 kA Short Circuit Rating at 600 V, protected by 50 A RK5 fuse **or by a combination motor controller Type E 3RV1021-4AA10 or 3RV1031-4AB10.**

## MODEL LT 20A

	Single-Phase		HORSEPOWER RATINGS			
	(2-Pole breaking)		Three-Phase			
Volts	120	240	120	240	480	600
Max hp	1	2	2	5	10	15
FLA (Amperes)	16	12	13.6	15.2	14	17

GENERAL PURPOSE: 600 V ac, 20 A, 3-ph  
5 kA Short Circuit Rating at 600 V, protected by 50 A RK5 fuse

## MODEL LT 25A

	Single-Phase		HORSEPOWER RATINGS			
	(2-Pole breaking)		Three-Phase			
Volts	120	240	120	240	480	600
Max hp	2	3	3	7.5	10	15
FLA (Amperes)	24	17	19.2	22	14	17

GENERAL PURPOSE: 600 V ac, 25 A, 3-ph  
5 kA Short Circuit Rating at 600 V, protected by 50 A RK5 fuse

MODEL LT 25 followed by /3, /6

	HORSEPOWER RATINGS				
	Single-Phase (2-Pole breaking)		Three-Phase		
Volts	120	240	240	480	600
Max hp	2	3	7.5	10	15
FLA (Amperes)	24	17	22	14	17

GENERAL PURPOSE: 600 V ac, 25 A, 3-ph  
5 kA Short Circuit Rating at 600 V, protected by 80 A RK5 fuse or by a combination motor controller Type E, 3RV1031-4DB10 rated max. 50hp at 600Vac

MODEL LT 32 followed by /3, /6

	HORSEPOWER RATINGS				
	Single-Phase (2-Pole breaking)		Three-Phase		
Volts	120	240	240	480	600
Max hp	2	3	10	20	20
FLA (Amperes)	24	17	28	27	22

GENERAL PURPOSE: 600 V ac, 32 A, 3-ph

5 kA Short Circuit Rating at 600 V, protected by 80 A RK5 fuse or by a combination motor controller Type E 3RV1031-4EB10 or 3RV1031-4EA10 rated max. 50hp at 600Vac

MODEL LT 40 followed by /3, /6, NVG 40

	HORSEPOWER RATINGS				
	Single-Phase (2-Pole breaking)		Three-Phase		
*					
Volts	<b>120</b>	<b>240</b>	240	480	600
Max hp	<b>2</b>	4	10	20	20
FLA (Amperes)	24	25	28	27	22

GENERAL PURPOSE: 600 V ac, 40 A, 3-ph

5 kA Short Circuit Rating at 600 V, protected by 80 A RK5 fuse.

MODEL LT 63 followed by /3, /6, LT 80, NVG 80

## HORSEPOWER RATINGS

	Single-Phase (2-Pole breaking)	Three-Phase		
Volts	240	240	480	600
Max hp	10	15	40	50
FLA (Amperes)	50	42	52	52

GENERAL PURPOSE: 600 V ac, 63 A, 3-ph

5 kA Short Circuit Rating at 600 V, protected by 175 A RK5 fuse **or by a combination motor controller Type E 3RV1031-4JB10 or 3RV1041-4JA10 rated max. 50hp at 600Vac**

MODEL LT 100 followed by /3, /6

## HORSEPOWER RATINGS

	Three-Phase		
Volts	240	480	600
Max hp	30	60	75
FLA (Amperes)	80	77	77

GENERAL PURPOSE: 600 V ac, 100 A, 3-ph

10 kA Short Circuit Rating at 600 V, protected by 200 A RK5 fuse.