

ABB BALDOR RELIANCE III

Customer information packet

XL050542A

.5HP, 1725RPM, 1PH, 60HZ, 56, 3424L, XPFC, F1, N

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.700 A @ 230.0 V 3.900 A @ 208.0 V 7.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	64.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WGW369
Layout	34LY5492
Eff. date	09-04-2024
CD Diagram	CD0565
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	04-21-2021

High Voltage Full Load Amps	3.7 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.22 IN
Power Factor	66
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	EP
Winding Thermal 2	None

Nameplate

NP0016XPSL									
NO.		CC							
SER. #									
SPEC	34-0000-0418								
CAT.NO.	XL050542A								
H.P.	.5	T. CODE	T3C						
VOLTS	115/208-230								
AMPS	7.4/3.9-3.7								
R.P.M.	1725 34WGW369								
HZ	60	PH	1	CLASS	B				
SER.F.	1.00	DES	N	CODE	J				
RATING	40C AMB-CONT								
FRAME	56	NEMA NOM. EFF	64						
	PF	66							
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 48773

Typical performance - not guaranteed values

Winding: 34WGW369-R001			Type: 3424L		Enclosure: XPFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.5 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		7.4/3.9-3.7	Breakdown Torque		4.4 LB-FT	
R.P.M.		1725	Pull-up Torque		4 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		5.1 LB-FT	
NEMA Design Code		N	KVA Code		J	
Service Factor (S.F.)		1	Starting Current		38.8 A	
Service Factor (S.F.)		1	No-load Current		5.62 A	
NEMA Nom. Eff.		64	Power Factor		66	
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Line-line Res. @ 25°C		0.913 Ω A Ph 2.88 Ω B Ph				
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		
Locked-rotor Power Factor		89.3				
Rotor inertia		0.057 LB-FT2				

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	48	59	67	74	79
Efficiency	38.9	55.3	62.3	64.9	65.3	63.8
Speed	1781	1768	1753	1736	1717	1696
Line amperes	5.78	6.12	6.62	7.38	8.26	9.38

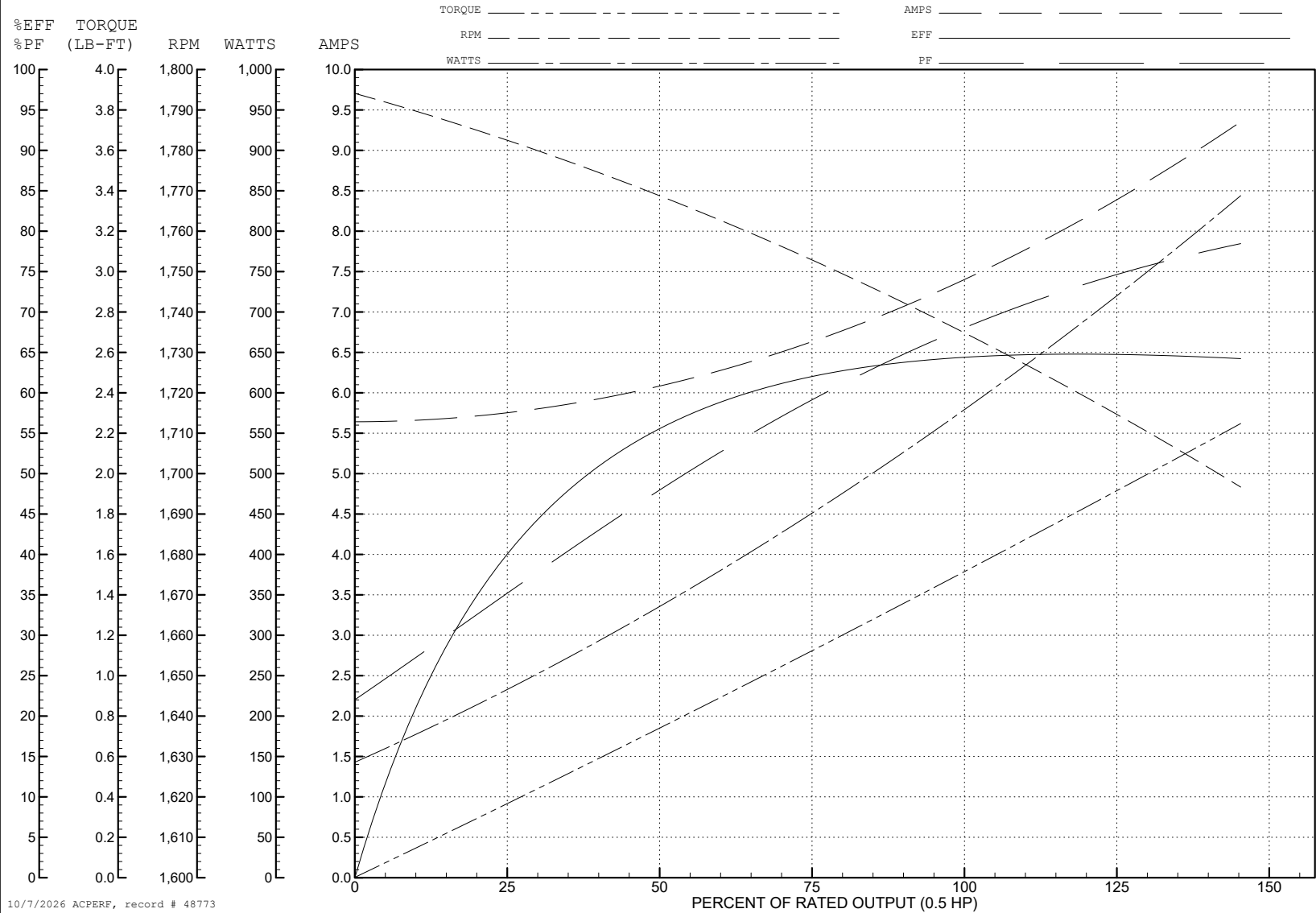
ABB Motors and Mechanical Inc.

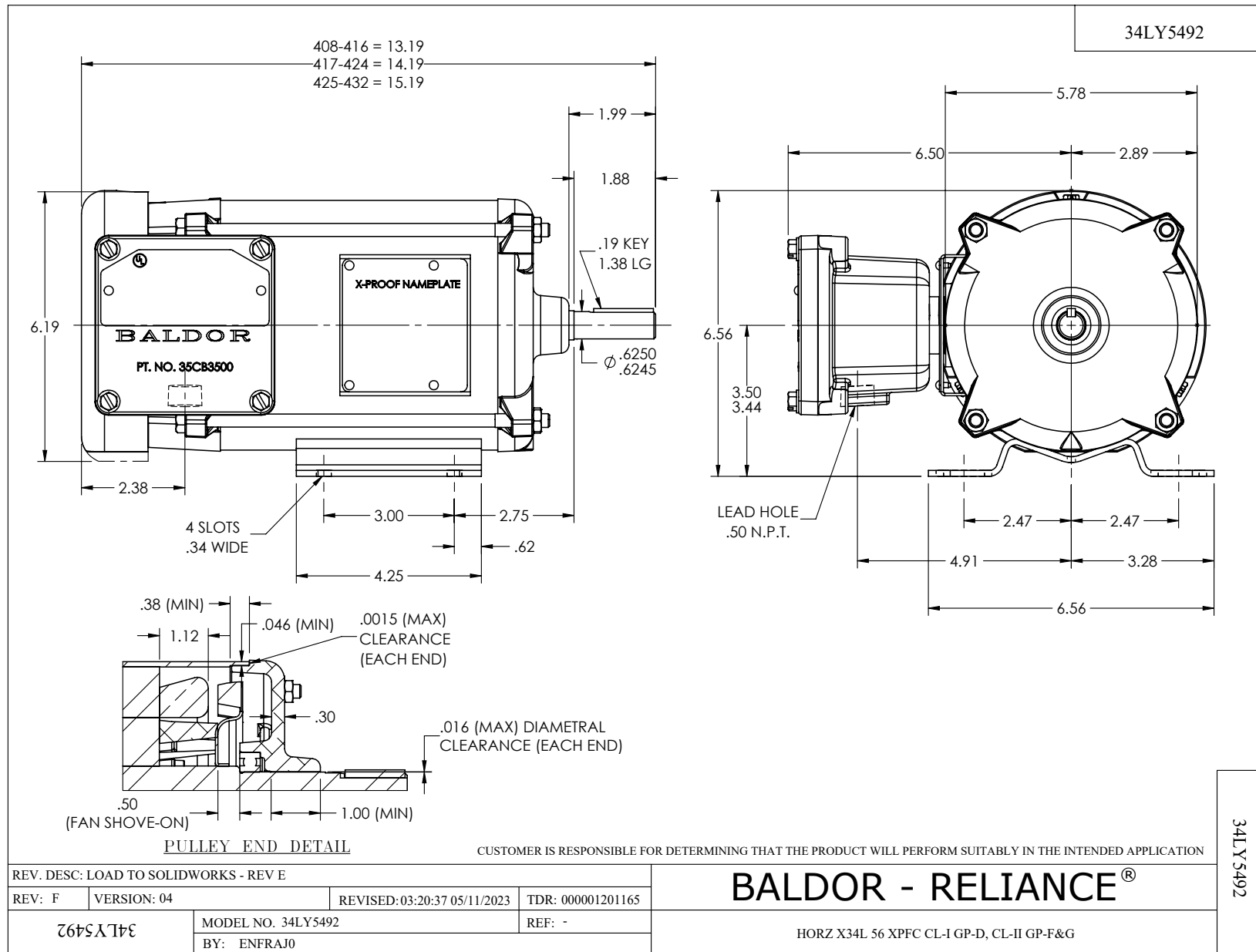
WINDING # 34WGW369

Typical performance - not guaranteed values.

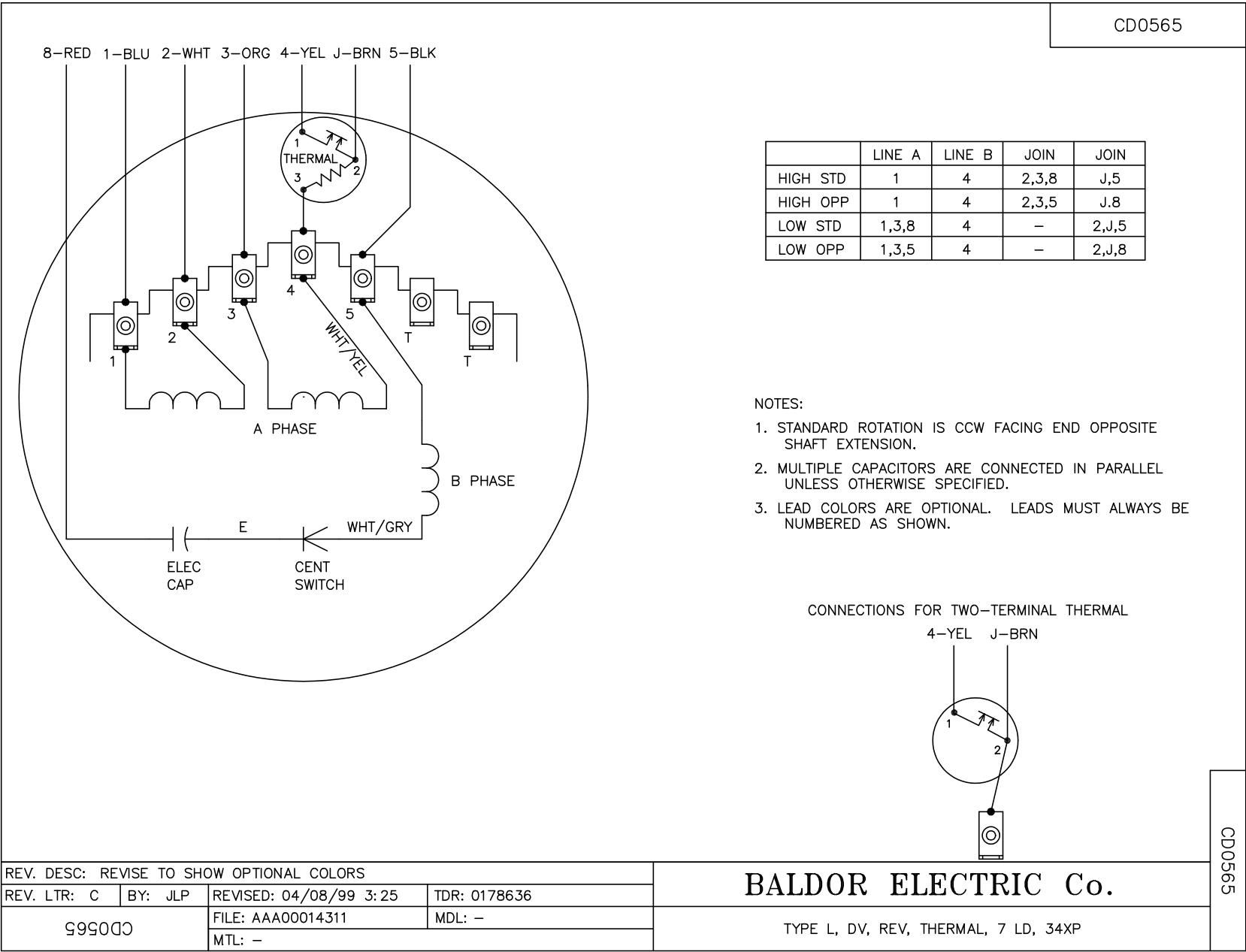
0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424L

TORQUES (LB-FT) : PO=4.4 PU=4 LR=5.1 LRA=38.8





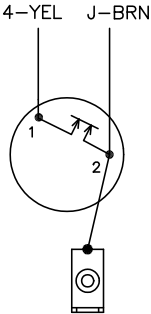
CD0565



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CONNECTIONS FOR TWO-TERMINAL THERMAL



REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 04/08/99 3:25	TDR: 0178636
FILE: AAA00014311		MDL: —	
MTL: —			

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LD, 34XP