

ABB BALDOR RELIANCE III

Customer information packet

EL11305

.5HP, 1165RPM, 1PH, 60HZ, 56H, 3524LC, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	2.800 A @ 230.0 V 4.900 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.3 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	E
Type	AC
Mech. spec.	35E007
Base	
Status	PRD/A
Elec. spec.	35WGG062
Layout	35LYE007
Eff. date	07-02-2024
CD Diagram	CD0016A01
Poles	06
Leads	7#18
Proprietary	False
Created date	08-01-2022

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524LC
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.75 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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	None
Winding Thermal 2	None

Nameplate

NP3155L											
CAT.NO.	EL11305										
SPEC.	35E007G062										
HP	.5										
VOLTS	115/230										
AMP	4.9/2.8										
RPM	1165										
FRAME	56H		HZ	60				PH	1		
SER.F.	1.25	CODE	F	DES	N	CL	F				
F.L. AVG. EFF.	75.3	PF	88								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	ODP	SN									
	SFA 5.6/2.8										

Parts List

Part number	Description	Quantity
SA407284	SA 35E007G062	1.000 ea
RA398783	RA 35E007G062	1.000 ea
OC3035F09SP	CYL OIL CAP 35MFD/370V	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D X 3.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3209G00	MASTER ODE,203 BRG	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3210B00	MASTER DE,205 BRG,1.000SH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	1.000 ea
SP5181A01	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
LC0016	CONNECTION LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP3155L	ALUM SUPER-E UL CC "SEMS"	1.000 ea

35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 83845

Typical performance - not guaranteed values

Winding: 35WGG062-R001			Type: 3524LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: High Voltage, Low Speed Connection				
Rated Output (HP)		.5	Full Load Torque		2.262 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		4.9/2.7	Breakdown Torque		4.92 LB-FT		
R.P.M.		1140	Pull-up Torque		4.14 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		7.43 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		22.3 A
Service Factor (S.F.)		1.25		No-load Current		2.5 A	
NEMA Nom. Eff.		76.2	Power Factor	84	Line-line Res. @ 25°C		1.9537 Ω A Ph 2.4113 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C	
S.F. Amps		5.9/3		Temp. Rise @ S.F. Load		43°C	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	76	83	88	90	91	90
Efficiency	49.7	66.6	73.7	76.3	76.1	72.9	76.1
Speed	1190.5	1182.9	1174.7	1164.5	1153	1134.4	1153
Line amperes	2.72	3.24	3.97	4.87	5.92	7.34	5.92

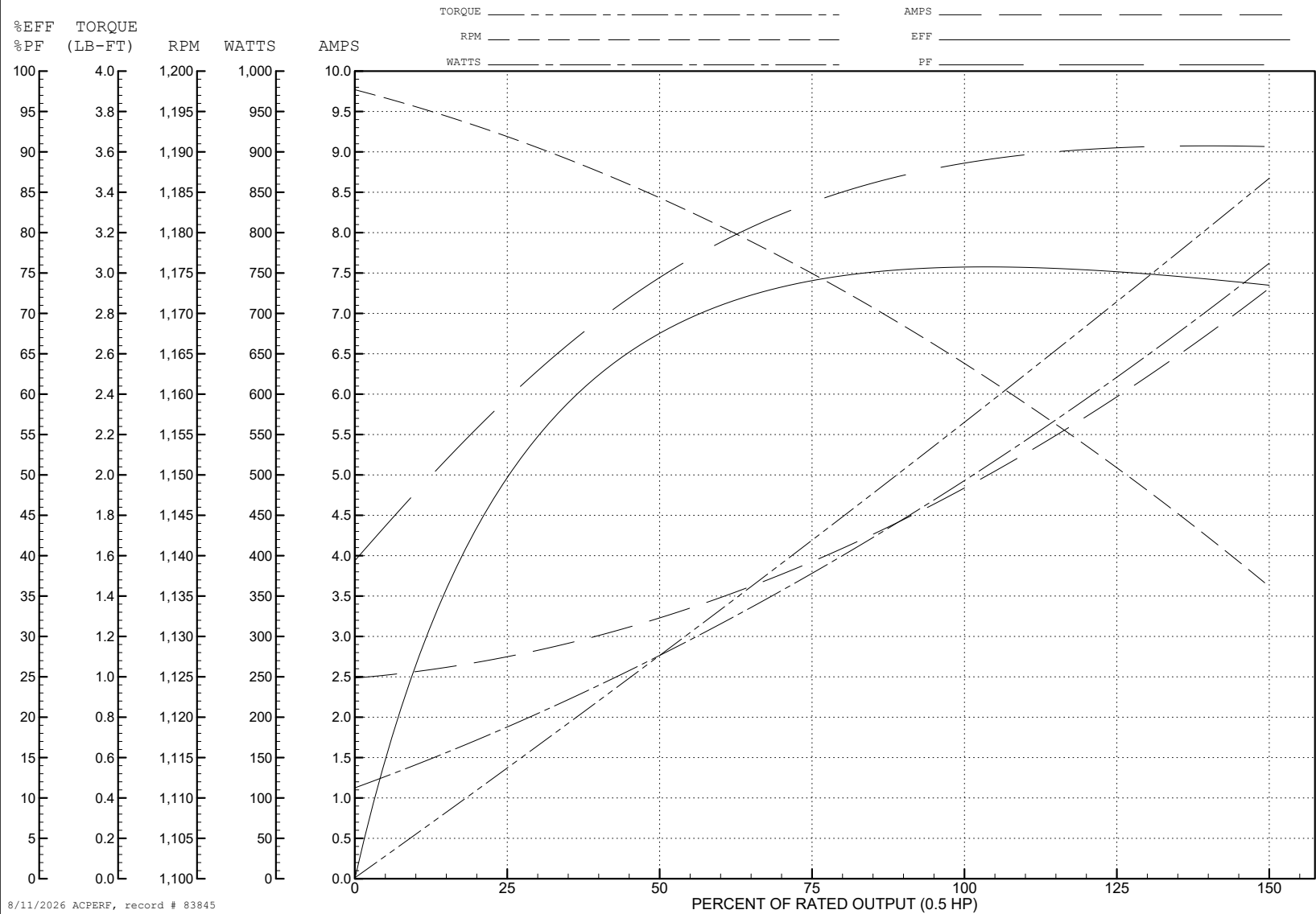
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WINDING # 35WGG062

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1140 RPM 115 V 3524LC

TORQUES (LB-FT): PO=4.92 PU=4.14 LR=7.43 LRA=22.3



AC Induction Motor Performance Data

Record # 83847

Typical performance - not guaranteed values

Winding: 35WGG062-R001			Type: 3524LC		Enclosure: OPEN			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		2.251 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		4.9/2.7	Breakdown Torque		5.72 LB-FT			
R.P.M.		1140	Pull-up Torque		5.25 LB-FT			
Hz		60	Phase		1	Locked-rotor Torque	6.26 LB-FT	
NEMA Design Code		N	KVA Code		K	Starting Current		17.6 A
Service Factor (S.F.)		1.25		No-load Current		1.63 A		
NEMA Nom. Eff.		76.2	Power Factor		84	Line-line Res. @ 25°C		7.8011 Ω A Ph 2.401 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		39°C		
S.F. Amps		5.9/3		Temp. Rise @ S.F. Load		40°C		

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	68	74	81	88	93	88
Efficiency	35.7	55.2	66.5	73.2	76.7	77.8	76.7
Speed	1190.7	1184	1177.2	1169	1158.5	1146.9	1158
Line amperes	1.9	2.19	2.48	2.74	3.01	3.36	3.01

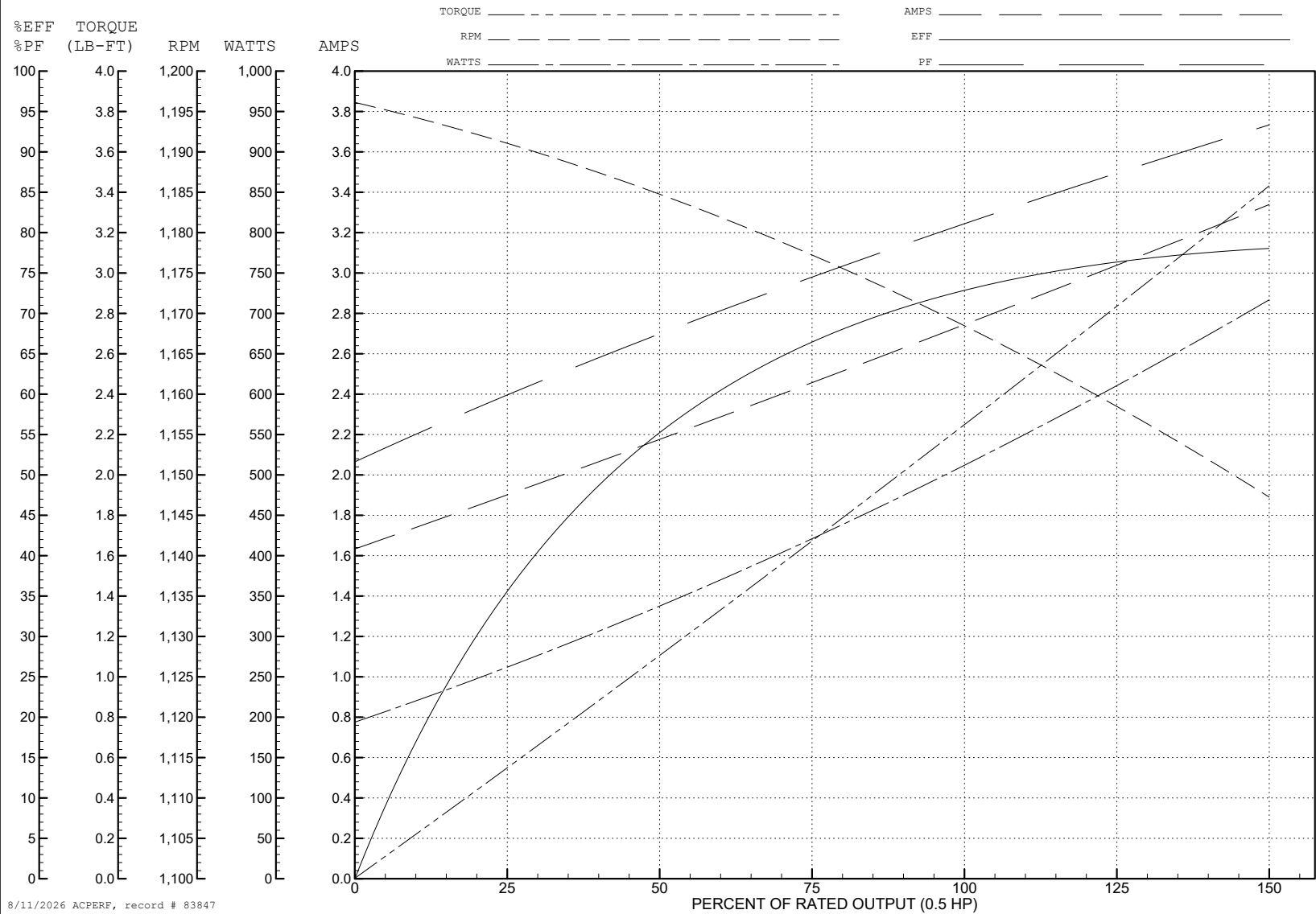
ABB Motors and Mechanical Inc.

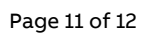
WINDING # 35WGG062

Typical performance - not guaranteed values.

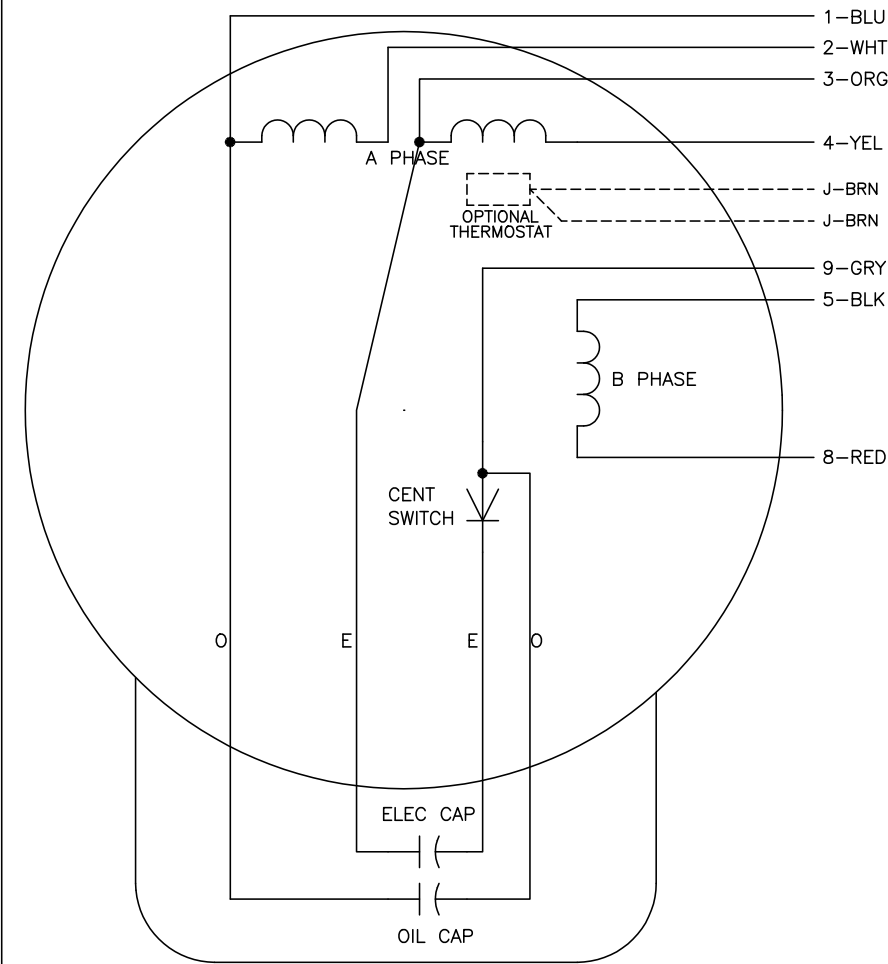
0.5 HP 1 PH 60 HZ 1140 RPM 230 V 3524LC

TORQUES (LB-FT): PO=5.72 PU=5.25 LR=6.26 LRA=17.6





CD0016A01



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4,5	2,3	8,9
HIGH OPP	1	4,8	2,3	5,9
LOW STD	1,3	2,4,5	8,9	—
LOW OPP	1,3	2,4,8	5,9	—

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

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 04/09/99 1:19	TDR: 0178636
10A9100D0		FILE: AAA00007410	MDL: —
CD0016A01		MTL: —	

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS

CD0016A01