

**BALDOR® • RELIANCE** 

**Product Information Packet**

**PCL3519M**

**3HP,3450RPM,1PH,60HZ,56C,3532LC,TEFC,F1**

Part Detail							
Revision:	AG	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY870	CD Diagram:	CD0002A02	Mfg Plant:	
Mech. Spec:	35T974	Layout:	35LYT974	Poles:	02	Created Date:	06-22-2007
Base:	RG	Eff. Date:	10-15-2018	Leads:	2#14 A PH,3#18 B&J		

Specs			
Catalog Number:	PCL3519M	KVA Code:	G
Enclosure:	TEFC	Lifting Lugs:	No Lifting Lugs
Frame:	56C	Locked Bearing Indicator:	Locked Bearing
Frame Material:	Steel	Motor Lead Quantity/Wire Size:	2 @ 14 AWG, A PH
Output @ Frequency:	3.000 HP @ 60 HZ	Motor Lead Exit:	Ko Box
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Termination:	Flying Leads
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Type:	3532LC
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	95
Agency Approvals:	CSA	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	12.500 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	13.700 A @ 208.0 V	Shaft Rotation:	Reversible

<b>Design Code:</b>	L	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Drip Cover:</b>	No Drip Cover	<b>Speed Code:</b>	Single Speed
<b>Duty Rating:</b>	CONT	<b>Motor Standards:</b>	NEMA
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Starting Method:</b>	Direct on line
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Bearing:</b>	None
<b>Front Face Code:</b>	Standard	<b>Thermal Device - Winding:</b>	Do Not Use
<b>Front Shaft Indicator:</b>	None	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 1:</b>	Manual Thermal Overload
<b>Insulation Class:</b>	F	<b>Winding Thermal 1 Location:</b>	KO
<b>Inverter Code:</b>	Not Inverter	<b>Winding Thermal 2:</b>	None

<b>Nameplate NP1257L</b>	
<b>CAT.NO.</b>	PCL3519M
<b>SPEC.</b>	35T974Y870
<b>HP</b>	3
<b>VOLTS</b>	230
<b>AMP</b>	12.5
<b>RPM</b>	3450
<b>FRAME</b>	56C
<b>SER.F.</b>	1.15
<b>NEMA-NOM-EFF</b>	85.5
<b>RATING</b>	40C AMB-CONT
<b>CC</b>	
<b>DE</b>	6205
<b>ENCL</b>	TEFC
<b>CODE</b>	G
<b>PF</b>	95
<b>ODE</b>	6203
<b>SN</b>	
<b>HZ</b>	60
<b>DES</b>	L
<b>CL</b>	F
<b>PH</b>	1
<b>USABLE AT 208V</b>	13.7

Parts List		
Part Number	Description	Quantity
SA111045	SA 35T974Y870	1.000 EA
RA102424	RA 35T974Y870	1.000 EA
OC3035F09SP	CYL OIL CAP 35MFD/370V	1.000 EA
TPBRT44DB	THERMAL 1PH 1.25 MAN 120C	1.000 EA
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	1.000 EA
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 EA
TP5059	GENERIC THERMAL KIT	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3008A16	35 CB .50 NPT @ 6:00, 1.25 MTO @ 3:00	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	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
HA6015A09	THERMAL RETAINER PLATED	1.000 EA
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 EA
NS2500A03	SPL THERMAL INSULATOR FOR 1.25 THERMAL	1.000 EA
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	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
34GS3002	GASKET, CAPACITOR BOX	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
HA7010	CAPACITOR RETENTION CLAMP	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	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
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 EA
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
SP5181A28	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0002	CONNECTION LABEL	1.000 EA
NP1257L	ALUM UL CSA CC THERMAL REV MTG	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	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 # 10351 - Typical performance - not guaranteed values

<b>Winding:</b> 35WGY870-R001	<b>Type:</b> 3532LC	<b>Enclosure:</b> TEFC
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Nameplate Data				230 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	3			Full Load Torque	4.6 LB-FT
Volts	230			Start Configuration	direct on line
Full Load Amps	12.5			Breakdown Torque	11.5 LB-FT
R.P.M.	3450			Pull-up Torque	9.3 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	10.5 LB-FT
NEMA Design Code	L	KVA Code	G	Starting Current	77 A
Service Factor (S.F.)	1.15			No-load Current	2.6 A
NEMA Nom. Eff.	85.5	Power Factor	95	Line-line Res. @ 25°C	3.06 Ω A Ph 1.45 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	56°C

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	76	87	92	92	93	92	93
Efficiency	72	80	85	85.5	82	78.5	85
Speed	3565	3540	3510	3475	3430	3370	3455
Line amperes	4.6	7.2	9.6	12.5	16	19.9	14.4

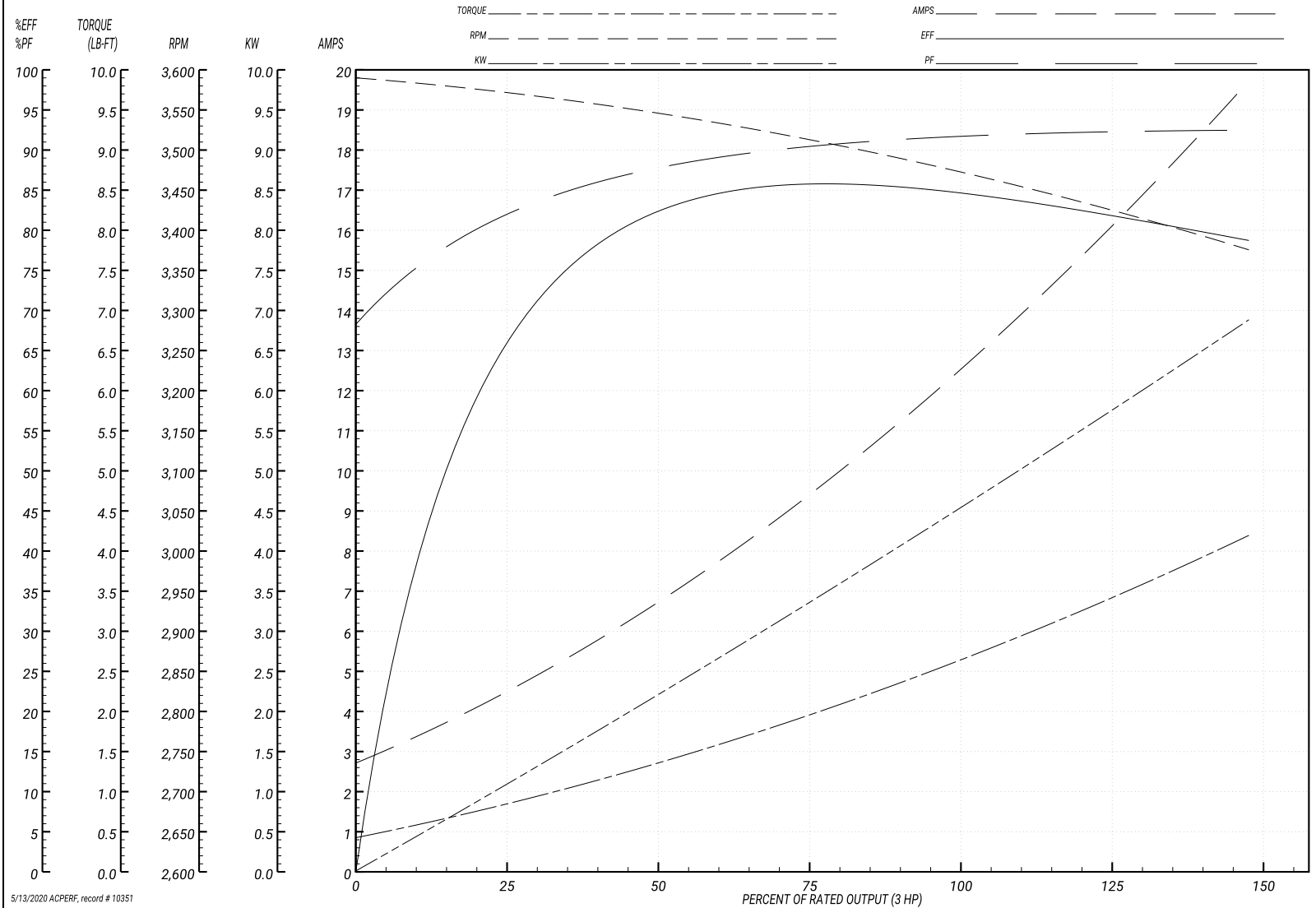
Performance Graph at 230V, 60Hz, 3.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 35WGY870

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 230 V 3532LC  
 TORQUES(LB-FT): PO=11.5 PU=9.3 LR=10.5 LRA=77



5/13/2020 ACPERF, record # 10351

**AC Induction Motor Performance Data**

Record # 38571 - Typical performance - not guaranteed values

<b>Winding:</b> 35WGY870-R001	<b>Type:</b> 3532LC	<b>Enclosure:</b> TEFC
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Nameplate Data				230 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	3			Full Load Torque	4.65 LB-FT
Volts	230			Start Configuration	direct on line
Full Load Amps	12.5			Breakdown Torque	10.4 LB-FT
R.P.M.	3450			Pull-up Torque	8.29 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	10.7 LB-FT
NEMA Design Code	L	KVA Code	G	Starting Current	79.3 A
Service Factor (S.F.)	1.15			No-load Current	1.97 A
NEMA Nom. Eff.	85.5	Power Factor	95	Line-line Res. @ 25°C	0.80257 Ω A Ph 1.4763 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	104°C
S.F. Amps				Temp. Rise @ S.F. Load	136°C

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	95	98	100	100	99	98	99
Efficiency	66.4	76.2	79.4	78.2	74.4	67.8	75.9
Speed	3553.8	3518.2	3479.4	3428.6	3362.2	3254.4	3389
Line amperes	4.09	6.62	9.37	12.7	16.6	22.2	15

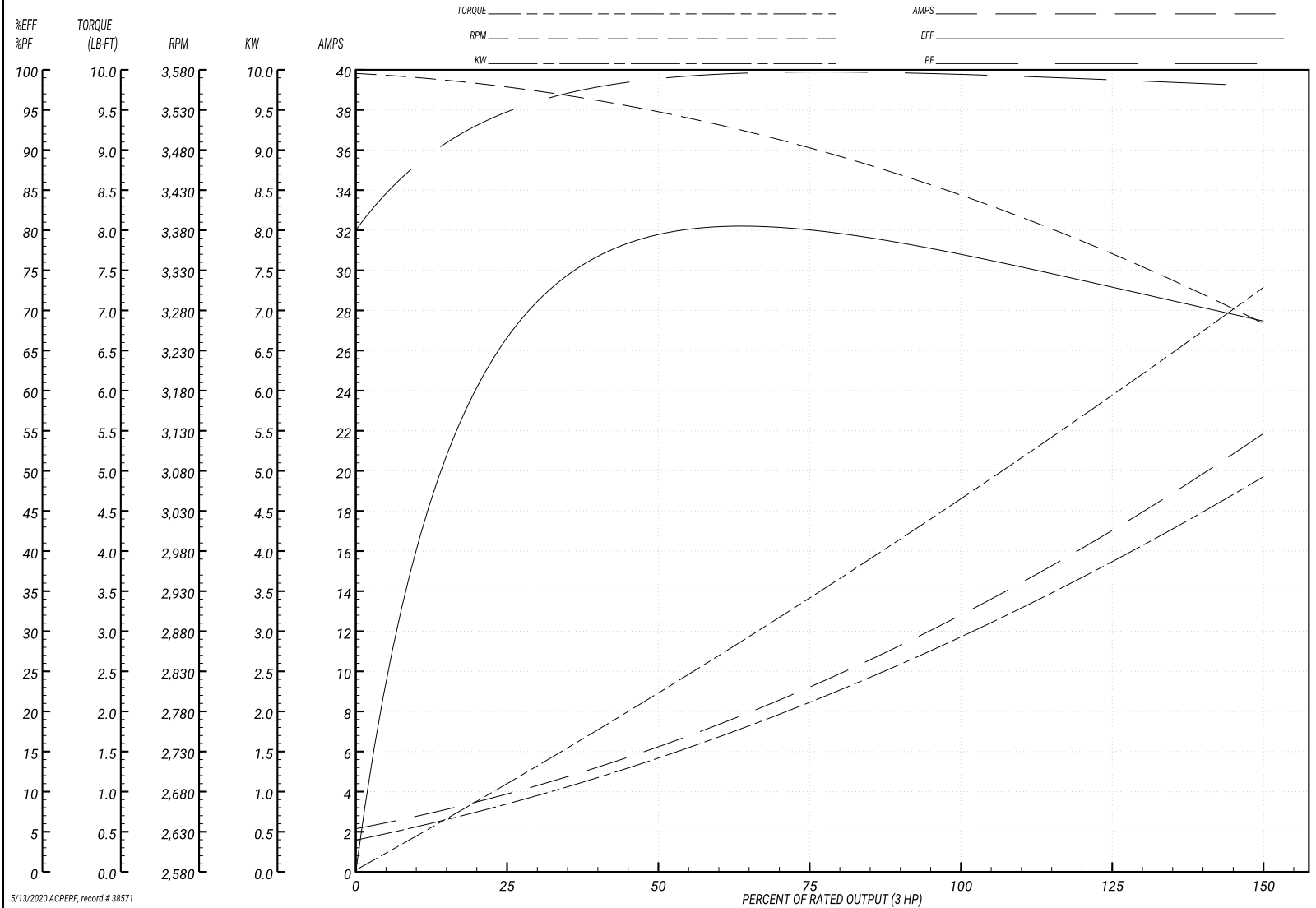
Performance Graph at 230V, 60Hz, 3.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 35WGY870

Typical performance - not guaranteed values.

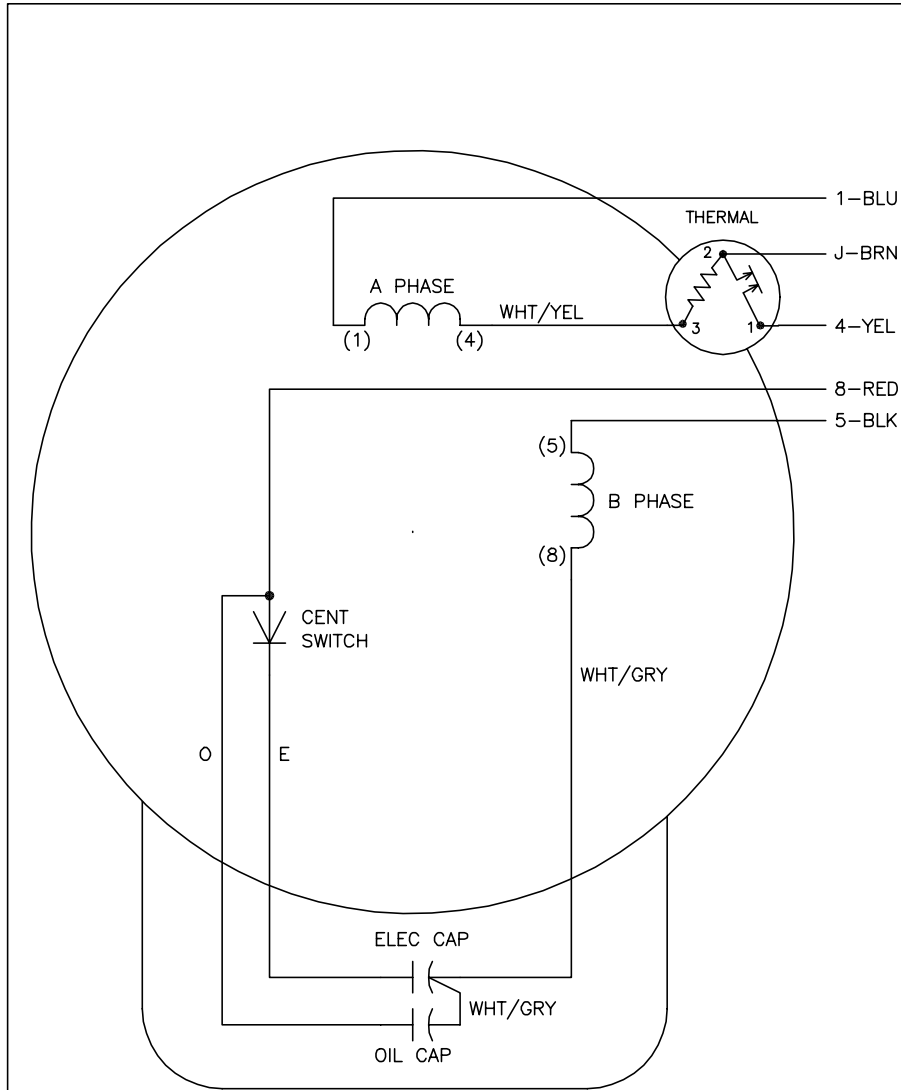
3 HP 1 PH 60 HZ 3450 RPM 230 V 3532LC  
 TORQUES(LB-FT): PO=10.4 PU=8.29 LR=10.7 LRA=79.3



5/13/2020 ACPERF, record # 38571



CD0002A02



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	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.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04			
REV. LTR: D	VERSION: 01	TDR: 000000360649	
Z0VZ00000	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005	
	MTL: -	BY: ENJOEPO	

**BALDOR ELECTRIC Co.**

TYPE LC, SV, REV, THERMAL, 5 LEADS

CD0002A02