ABB BALDOR RELIANCE

Customer information packet

PCL1313M

1.5HP, 3450RPM, 1PH, 60HZ, 56C, 3520LC, OPEN
Class -
Division - Not Applicable

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Specifications

Enclosure	ODP
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	13.200 A @ 115.0 V
	6.600 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	R
Type	AC
Mech. spec.	35T969
Base	
Status	NLA/A
Elec. spec.	35WGY686
Layout	35LYT969
Eff. date	04-10-2015
CD Diagram	CD0320
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	06-22-2007

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.06 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1257L								
CAT.NO.								
SPEC.	35T969Y686							
HP	1.5							
VOLTS	115/230							
AMP	13.2/6.6							
RPM	3450							
FRAME	56C		**HZ**	60		**PH**	1	
SER.F.	1.15	**CODE**	F	**DES**	L	**CL**	B	
NEMA-NOM-EFF	75.5	**PF**	98					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	OPEN	**SN**						

Parts List

Part number	Description	Quantity
SA111041	SA 35T969Y686	1.000 ea
RA102420	RA 35T969Y686	1.000 ea
OC3060C09SP	CAPACITOR 60 MFD 240 VAC	1.000 ea
TPMSJ24AB	THERMAL 1PH .75 MAN 120C X	1.000 ea
EC1340A03	ELEC CAP, 340-408 MFD, 125V, 1.81D X 3.	1.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007A37	35 CB .88 DIA @ 6:00, .75 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
HA6001A01	THERMAL RETAINER (PLATED)	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
35EP3209G00	STD FR EP OPEN-203BRG-35L OR M FRAME--LE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3402C00	STD FACE MTD END PLATE OPEN NEMA 56C 05	1.000 ea
35AD2000	AIR BAFFLE - GALVANNEAL	1.000 ea
15XF0632A06	6-32 X 3/8 PHILL PAN HD TYPE F	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 ea
35GS1030	35 GS FOR CB LID - LEXIDE	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, POLYREX EM EXXON	0.050 lb
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 ga
SP5181A28	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
LB1624	WARNING LABEL	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 ea

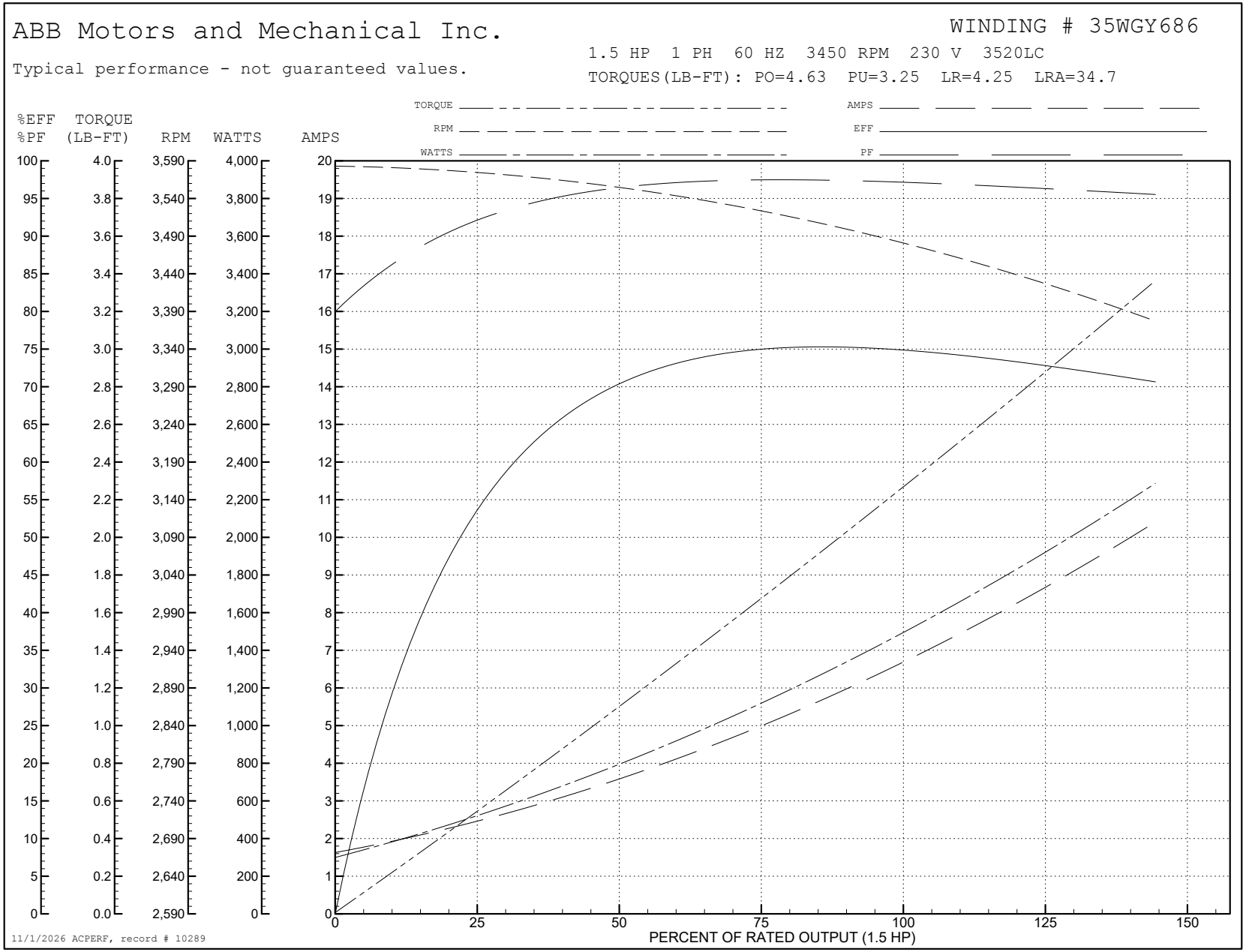
AC Induction Motor Performance Data
Record # 10289
Typical performance - not guaranteed values

Winding: 35WGY686-R001	**Type:** 3520LC	**Enclosure:** OPEN

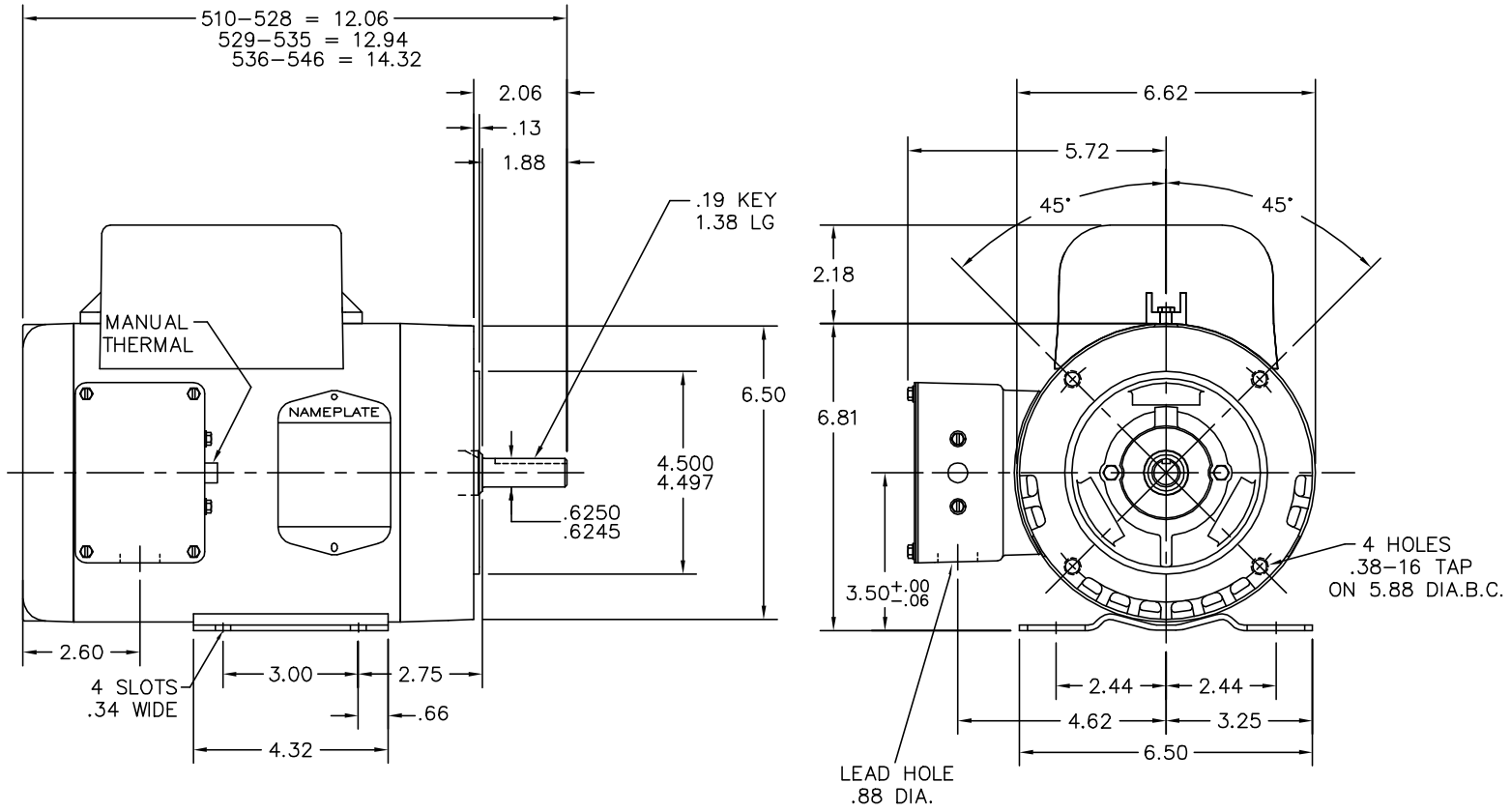
Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.25 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13.2/6.6	**Breakdown Torque**	4.63 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.25 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	4.25 LB-FT
NEMA Design Code	L	**KVA Code**	F	**Starting Current**	34.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.5 A
NEMA Nom. Eff.	75.5	**Power Factor**	98	**Line-line Res. @ 25ºC**	2.38 Ω A Ph 1.84 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	47°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	87	90	96	98	97	96	98
Efficiency	51	71	74.5	75.5	74	70	75
Speed	3575	3550	3515	3490	3440	3370	3470
Line amperes	2.7	3.6	5	6.6	8.4	10.5	7.4


ABB Motors and Mechanical Inc.
WINDING # 35WGY686
1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3520LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=4.63 PU=3.25 LR=4.25 LRA=34.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/1/2026 ACPERF, record # 10289

35LYT969

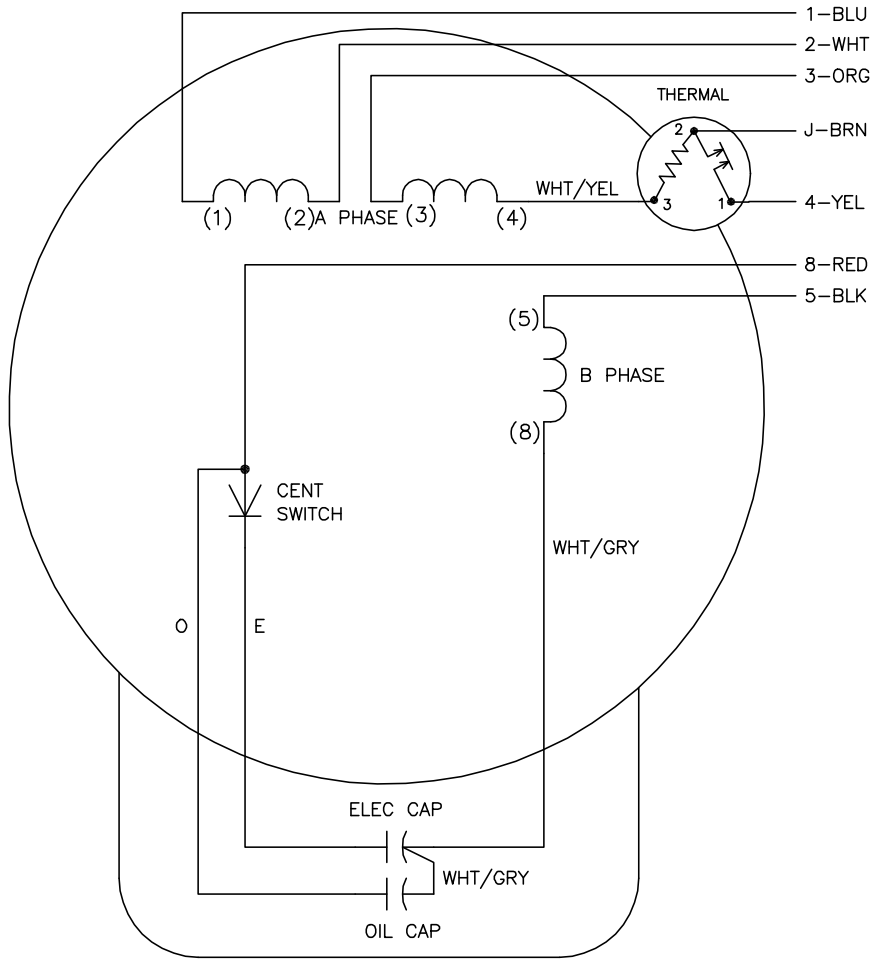


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW				BALDOR ELECTRIC Co.
REV. LTR: –	BY: KCT	REVISED: 14:07:36 11/18/2003	TDR: 317882	
35LYT969		FILE: AAA00111455	REF: 35LYT969	HOR 56C OPEN LC W/.75" MTO IN KBOX,2 POLE "W" BASE(35BA4010)
		MTL: –		

35LYT969

CD0320



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

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: –		

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

SH 1 of 1