ABB BALDOR RELIANCE

Customer information packet

CL3516TM

2HP, 1740RPM, 1PH, 60HZ, 145TC, 3534LC, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	8.200 A @ 230.0 V
	8.900 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	B
Type	AC
Mech. spec.	35KK375
Base	
Status	PRD/A
Elec. spec.	35WGG819
Layout	35LYKK375
Eff. date	04-25-2025
CD Diagram	CD0002A02
Poles	04
Leads	2#16 A PH,3#18 B&J
Proprietary	False
Created date	12-18-2024

KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.16 IN
Power Factor	99
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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.	CL3516TM								
SPEC.	35KK375G819G1								
HP	2								
VOLTS	208-230								
AMP	8.9-8.2								
RPM	1740								
FRAME	145TC		**HZ**	60		**PH**	1		
SER.F.	1.15	**CODE**	J	**DES**	L	**CL**	F		
NEMA-NOM-EFF	78	**PF**	99						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 110277
Typical performance - not guaranteed values

Winding: 35WGG819-R003	**Type:** 3534LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	6.05 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			8.9-8.2	**Breakdown Torque**	17.5 LB-FT
R.P.M.			1740	**Pull-up Torque**	12 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	19.1 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	65.2 A
Service Factor (S.F.)			1.15	**No-load Current**	2.03 A
NEMA Nom. Eff.	78	**Power Factor**	99	**Line-line Res. @ 25ºC**	1.6721 Ω A Ph 3.8548 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	80°C
S.F. Amps				**Temp. Rise @ S.F. Load**	93°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	97	99	99	99	99	99	99
Efficiency	52.1	70.1	77.3	79.8	79.5	77.4	79.6
Speed	1785.1	1773.1	1758.2	1743.1	1722.5	1698.8	1731
Line amperes	3.29	4.71	6.38	8.19	10.3	12.7	9.46

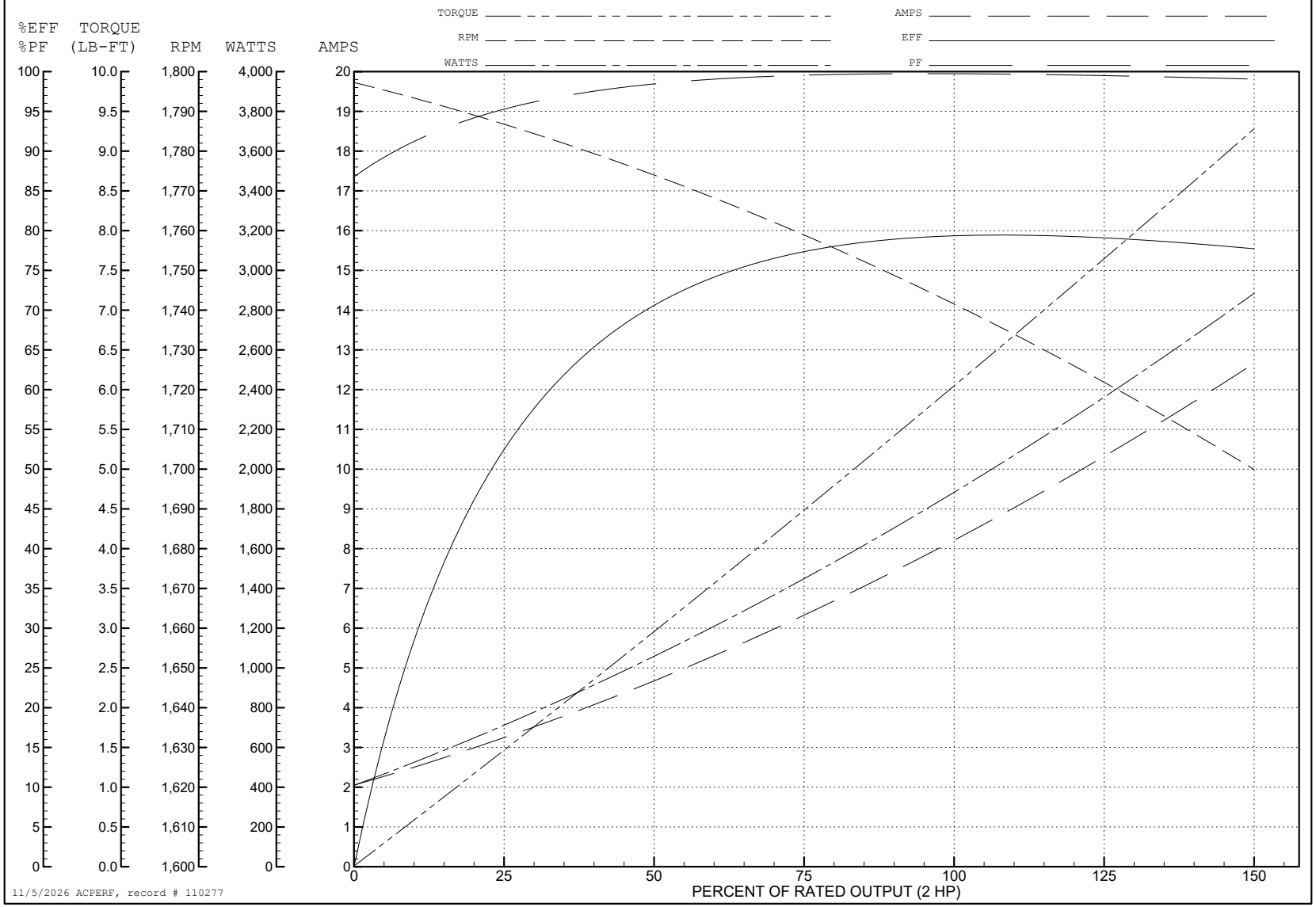
ABB Motors and Mechanical Inc.

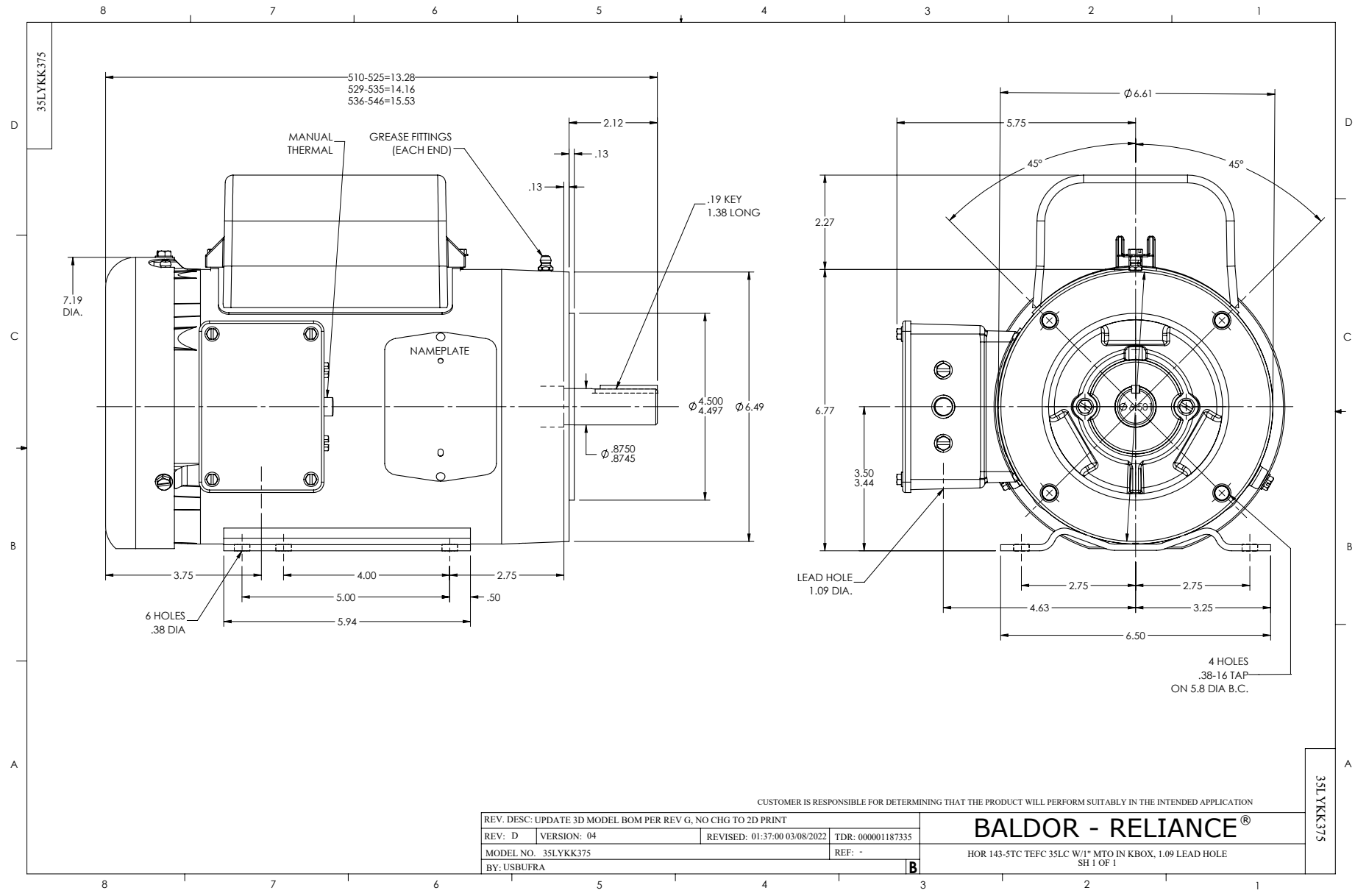
WINDING # 35WGG819

2 HP 1 PH 60 HZ 1740 RPM 230 V 3534LC

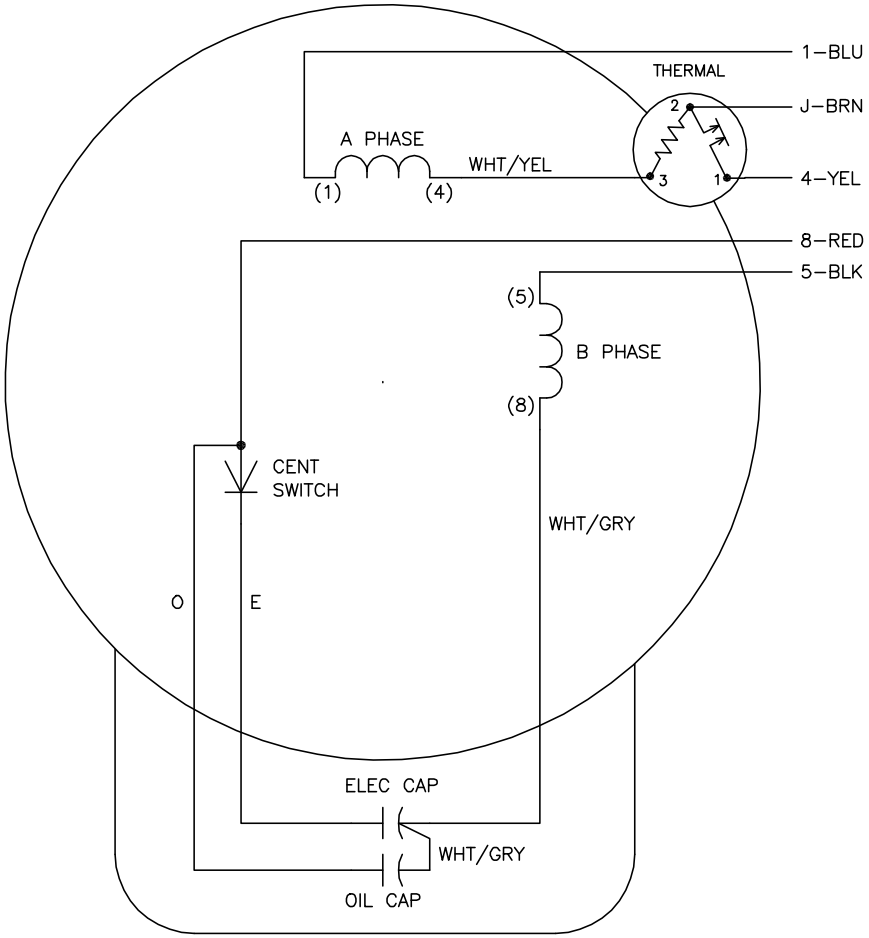
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=17.5 PU=12 LR=19.1 LRA=65.2




35LYKK375
510-525=13.28
529-535=14.16
536-546=15.53
2.12
.13
.13
MANUAL THERMAL
GREASE FITTINGS (EACH END)
.19 KEY
1.38 LONG
7.19 DIA.
NAMEPLATE
Ø 4.500
4.497
Ø6.49
Ø .8750
.8745
3.75
4.00
2.75
5.00
.50
5.94
6 HOLES
.38 DIA
Ø6.61
5.75
45°
45°
2.27
6.77
3.50
3.44
LEAD HOLE
1.09 DIA.
2.75
2.75
4.63
3.25
6.50
4 HOLES
.38-16 TAP
ON 5.8 DIA B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV G, NO CHG TO 2D PRINT
REV: D
VERSION: 04
REVISED: 01:37:00 03/08/2022
TDR: 000001187335
MODEL NO. 35LYKK375
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5TC TEFC 35LC W/1" MTO IN KBOX, 1.09 LEAD HOLE
SH 1 OF 1
35LYKK375

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			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000360649	
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005	TYPE LC, SV, REV, THERMAL, 5 LEADS
	MTL: –	BY: ENJOEP0	

CD0002A02