ABB BALDOR RELIANCE

Customer information packet

L1405T-50

2/1.5KW, 1460RPM, 1PH, 50HZ, 182T, 3646LC, OPE
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 KW @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ
	220.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	UKCA
	WEEE
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	9.200 A @ 220.0 V
	18.400 A @ 110.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	36E002
Base	
Status	PRD/A
Elec. spec.	36WGQ057
Layout	36LYE002
Eff. date	05-05-2025
CD Diagram	CD0055
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	03-08-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	9.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 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

NP1372L									
CAT.NO.	L1405T-50								
SPEC.	36E002Q057								
HP	2/1.5KW								
VOLTS	110/220								
AMP	18.4/9.2								
R.P.M. (1/MIN)	1460								
FRAME	182T		**HZ**	50			**PH**	1	
SER.F.	1.15	**CODE**	K	**DES**	-	**CL**	F		
NEMA-NOM-EFF	82.8	**PF**	90						
RATING	40C AMB-S1 CONT								
CC			IP22 45KG IC01						
DE	6206		**ODE**	6205					
ENCL	OPEN	**SN**							

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

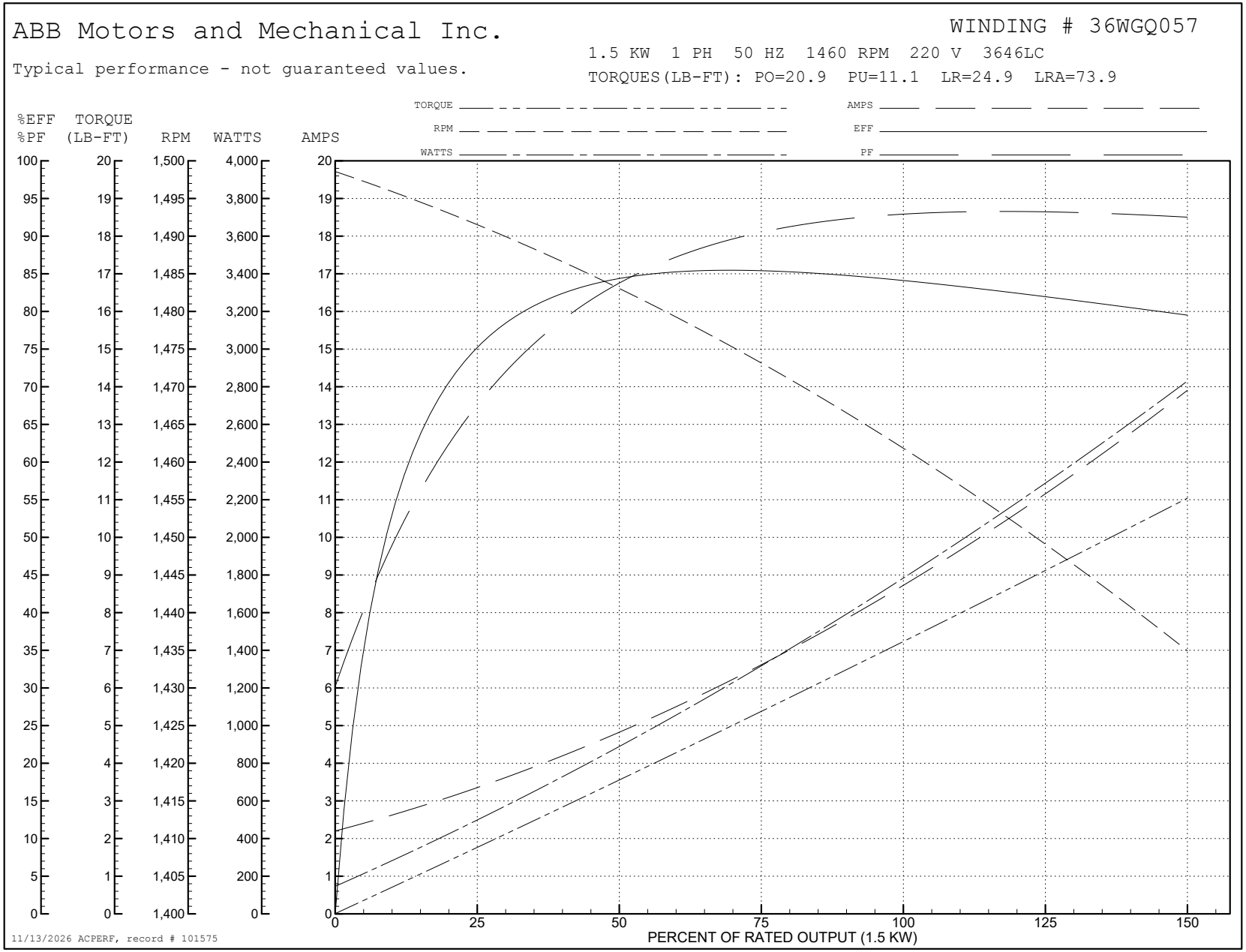
AC Induction Motor Performance Data
Record # 101575
Typical performance - not guaranteed values

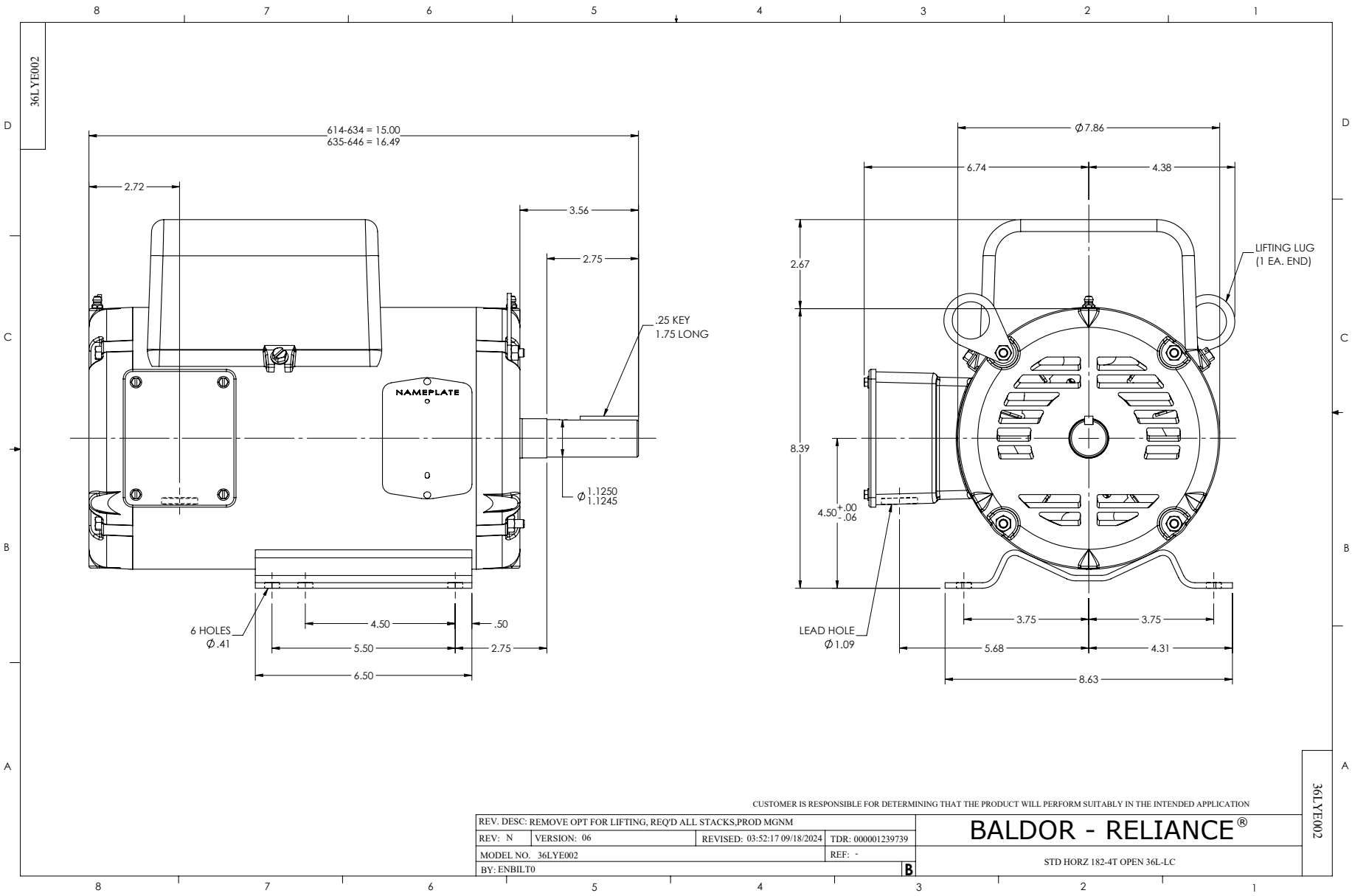
Winding: 36WGQ057-R001	**Type:** 3646LC	**Enclosure:** OPEN

Nameplate Data				**220 V, 50 Hz: High Voltage Connection**	
Rated Output (KW)			1.5	**Full Load Torque**	7.194 LB-FT
Volts			110/220	**Start Configuration**	direct on line
Full Load Amps			18.4/9.2	**Breakdown Torque**	20.9 LB-FT
R.P.M.			1460	**Pull-up Torque**	11.1 LB-FT
Hz	50	**Phase**	1	**Locked-rotor Torque**	24.9 LB-FT
NEMA Design Code	-	**KVA Code**	K	**Starting Current**	73.9 A
Service Factor (S.F.)			1.15	**No-load Current**	2.3 A
NEMA Nom. Eff.	82.8	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.85264 Ω A Ph 0.83098 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	28°C
S.F. Amps				**Temp. Rise @ S.F. Load**	36°C

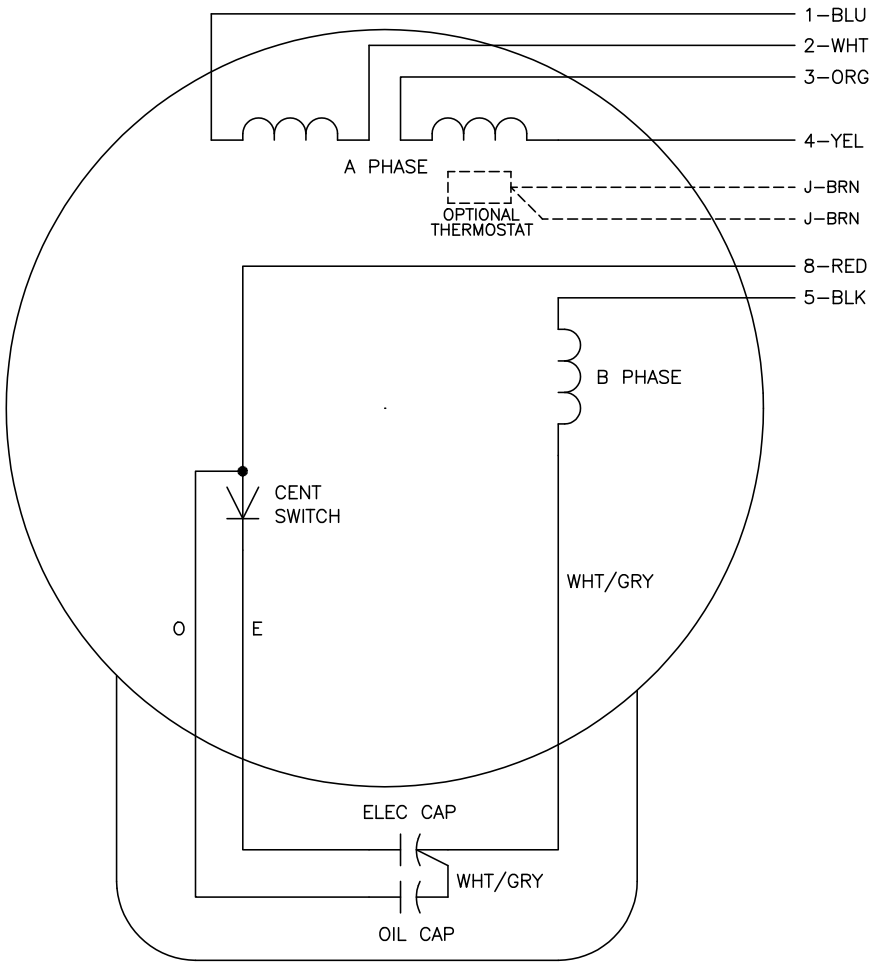
Load Characteristics 220 V, 50 Hz, 1.5 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	71	85	90	92	92	93	92
Efficiency	75.1	83.5	85.2	84.5	82.4	79.2	83.2
Speed	1491.2	1482.4	1473	1462.5	1449.9	1434.3	1455
Line amperes	3.19	4.82	6.69	8.75	11.1	13.9	10.2


ABB Motors and Mechanical Inc.
WINDING # 36WGQ057
1.5 KW 1 PH 50 HZ 1460 RPM 220 V 3646LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=20.9 PU=11.1 LR=24.9 LRA=73.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 KW)
11/13/2026 ACPERF, record # 101575


36LYE002
614-634 = 15.00
635-646 = 16.49
2.72
3.56
2.75
.25 KEY
1.75 LONG
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
Ø .41
4.50
.50
5.50
2.75
6.50
Ø 7.86
6.74
4.38
LIFTING LUG
(1 EA. END)
2.67
8.39
4.50 +.00 -.06
LEAD HOLE
Ø 1.09
3.75
3.75
5.68
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE OPT FOR LIFTING, REQ'D ALL STACKS,PROD MGNM
REV: N
VERSION: 06
REVISED: 03:52:17 09/18/2024
TDR: 000001239739
MODEL NO. 36LYE002
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
STD HORZ 182-4T OPEN 36L-LC
36LYE002

CD0055



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

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.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS