ABB BALDOR RELIANCE

Customer information packet

CUHL3518

.5/.37KWHP, 1740RPM, 1PH, 60HZ, 56C, 3518LC, T
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
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	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 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	6.200 A @ 115.0 V
	3.100 A @ 230.0 V
	3.100 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	J
Type	AC
Mech. spec.	35E6093
Base	
Status	PRD/A
Elec. spec.	35WGG588
Layout	35LYE6093
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	03-01-2023

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	CLEAR COAT
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518LC
Mounting Arrangement	F3
Number of Poles	4
Overall Length	13.23 IN
Power Factor	72
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	0.625 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	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1372L										
CAT.NO.	CUHL3518									
SPEC.	35E6093G588									
HP	.5/.37KW									
VOLTS	115/208-230									
AMP	6.2/3.1									
R.P.M. (1/MIN)	1740									
FRAME	56C		**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	N	**DES**	N	**CL**	F			
NEMA-NOM-EFF	72	**PF**	72							
RATING	40C AMB-S1 CONT									
CC			IP44 KG19 IC411							
DE	6205		**ODE**	6203						
ENCL	TEFC	**SN**								
	IE2-60HZ 69.9 (75%),62.5 (50%)									

AC Induction Motor Performance Data
Record # 101468
Typical performance - not guaranteed values

Winding: 35WGG588-R001	**Type:** 3518LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.509 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			6.2/3.1	**Breakdown Torque**	4.66 LB-FT
R.P.M.			1740	**Pull-up Torque**	3.43 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7.79 LB-FT
NEMA Design Code	N	**KVA Code**	N	**Starting Current**	25.3 A
Service Factor (S.F.)			1.15	**No-load Current**	2.25 A
NEMA Nom. Eff.	72	**Power Factor**	72	**Line-line Res. @ 25ºC**	4.0719 Ω A Ph 1.6063 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
S.F. Amps			6.6/3.5-3.3	**Temp. Rise @ S.F. Load**	44°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	53	64	72	78	83	76
Efficiency	46.3	62.5	69.9	73.2	74.2	73.6	73.8
Speed	1781.7	1768.9	1755.3	1740.7	1723.7	1704.2	1730
Line amperes	2.29	2.46	2.72	3.06	3.49	4	3.32

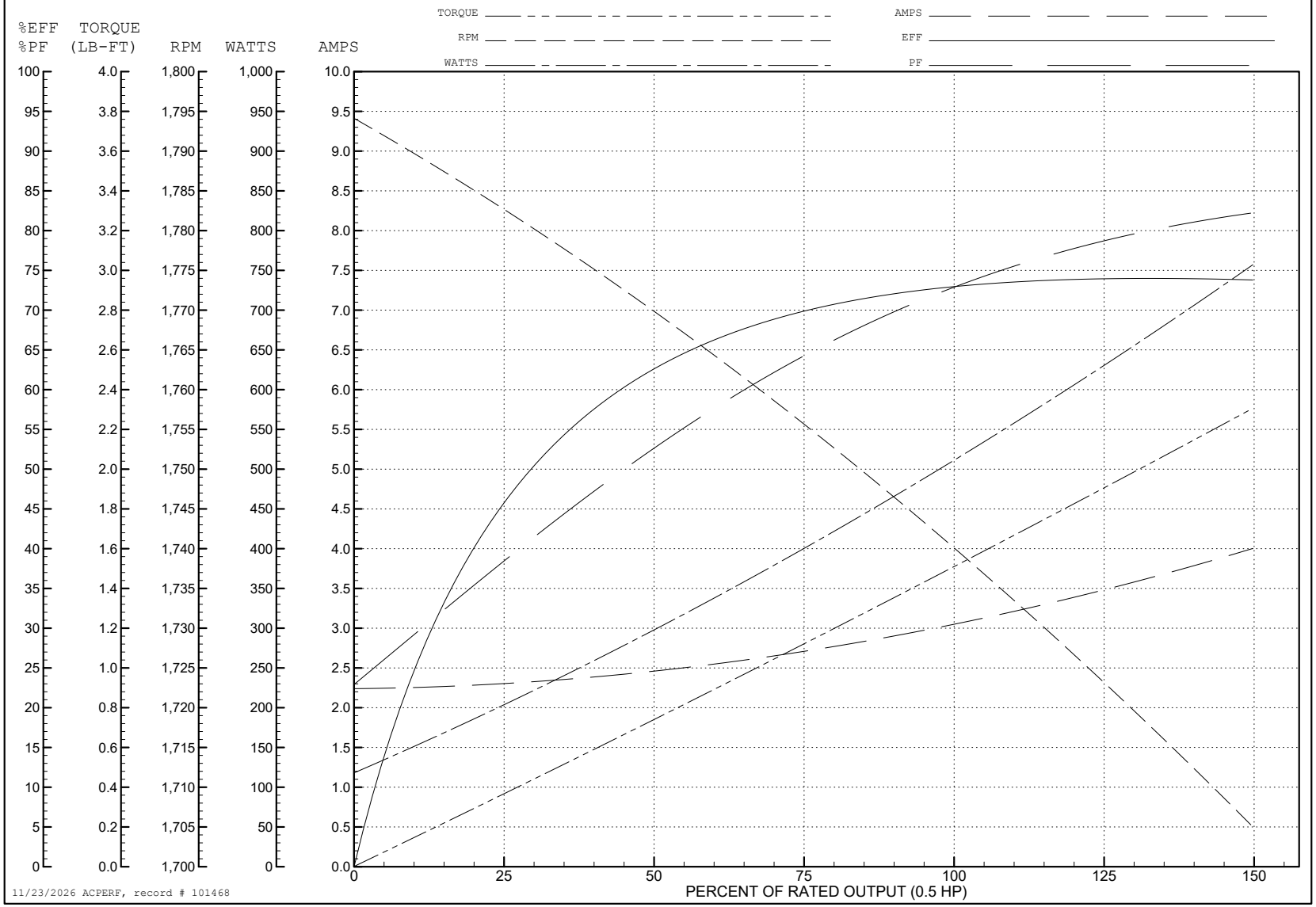
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

0.5 HP 1 PH 60 HZ 1740 RPM 230 V 3518LC

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.66 PU=3.43 LR=7.79 LRA=25.3



11/23/2026 ACPERF, record # 101468

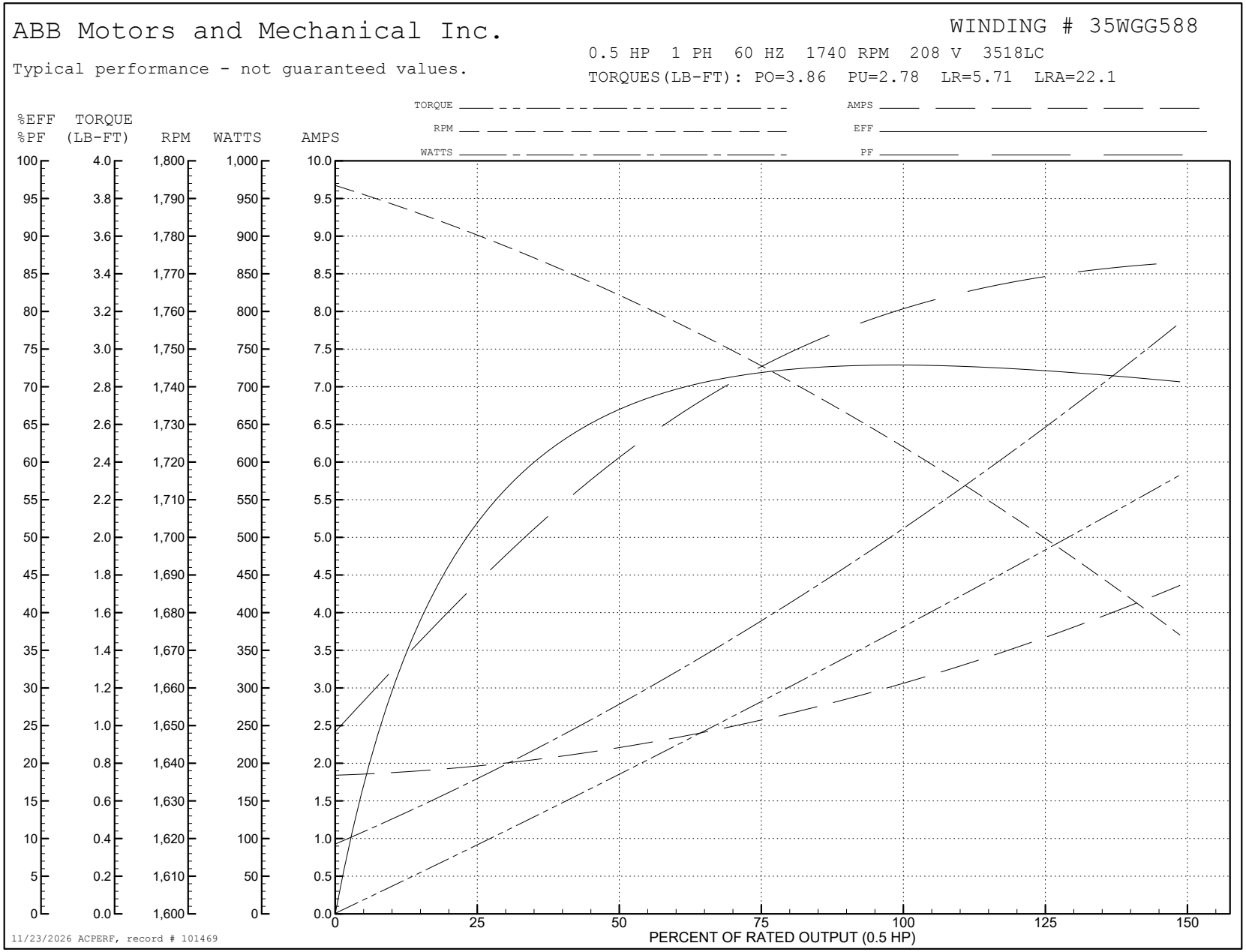
AC Induction Motor Performance Data
Record # 101469
Typical performance - not guaranteed values

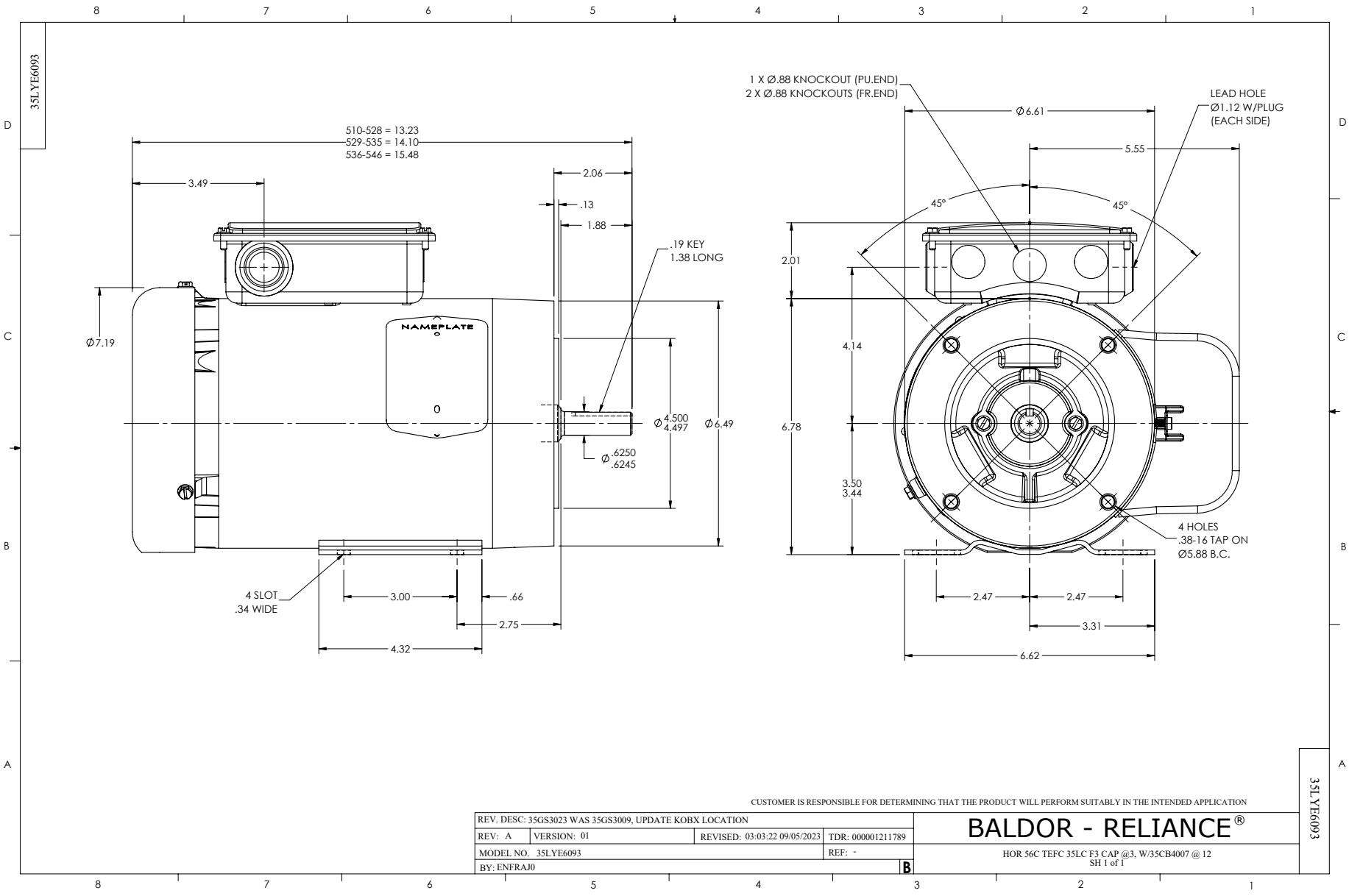
Winding: 35WGG588-R001	**Type:** 3518LC	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.514 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			6.2/3.1	**Breakdown Torque**	3.86 LB-FT
R.P.M.			1740	**Pull-up Torque**	2.78 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	5.71 LB-FT
NEMA Design Code	N	**KVA Code**	N	**Starting Current**	22.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.85 A
NEMA Nom. Eff.	72	**Power Factor**	72	**Line-line Res. @ 25ºC**	4.0972 Ω A Ph 1.6154 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			6.6/3.5-3.3	**Temp. Rise @ S.F. Load**	40°C

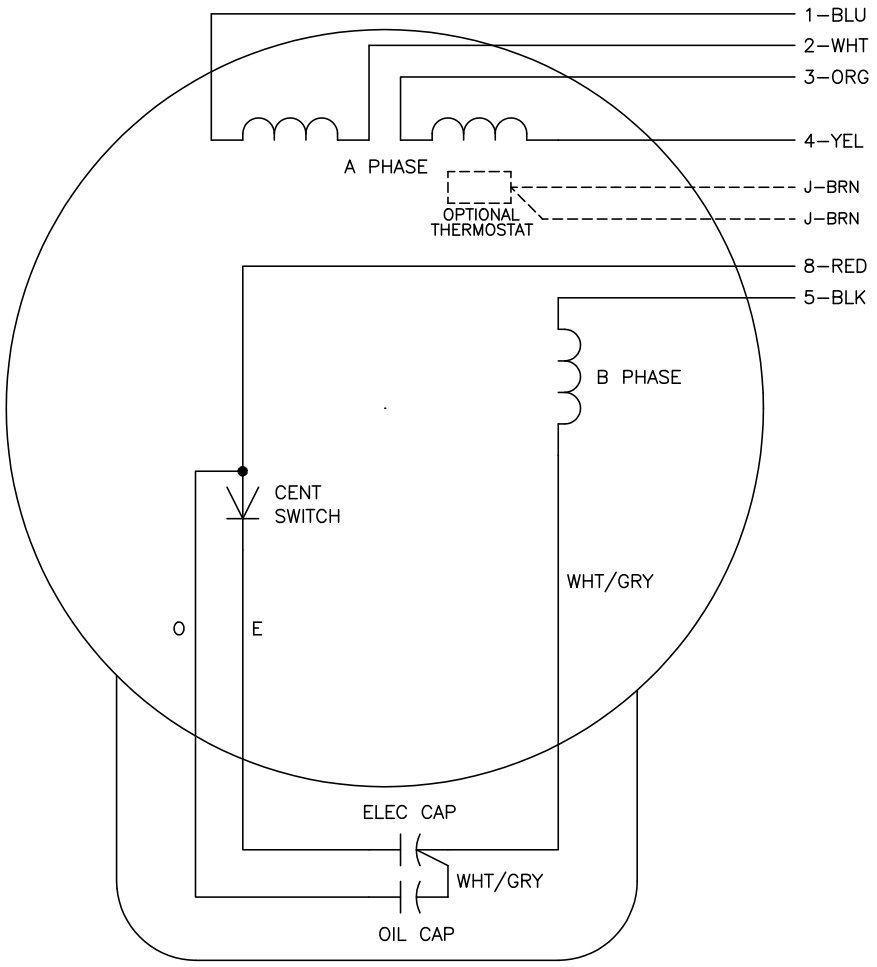
Load Characteristics 208 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	61	72	79	84	87	82
Efficiency	51.2	66.3	71.8	73.5	72.6	70.3	73
Speed	1778.5	1763	1745.6	1726.2	1701.3	1672.7	1711
Line amperes	1.95	2.21	2.58	3.05	3.66	4.36	3.42


ABB Motors and Mechanical Inc.
WINDING # 35WGG588
Typical performance - not guaranteed values.
0.5 HP 1 PH 60 HZ 1740 RPM 208 V 3518LC
TORQUES(LB-FT): PO=3.86 PU=2.78 LR=5.71 LRA=22.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
4.0 3.8 3.6 3.4 3.2 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0.0
1,800 1,790 1,780 1,770 1,760 1,750 1,740 1,730 1,720 1,710 1,700 1,690 1,680 1,670 1,660 1,650 1,640 1,630 1,620 1,610 1,600
1,000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.5 HP)
11/23/2026 ACPERF, record # 101469


35LYE6093
510-528 = 13.23
529-535 = 14.10
536-546 = 15.48
3.49
2.06
.13
1.88
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø 4.500
4.497
Ø6.49
Ø .6250
.6245
4 SLOT
.34 WIDE
3.00
.66
2.75
4.32
1 X Ø.88 KNOCKOUT (PU.END)
2 X Ø.88 KNOCKOUTS (FR.END)
Ø6.61
LEAD HOLE
Ø1.12 W/PLUG
(EACH SIDE)
5.55
45°
45°
2.01
4.14
6.78
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
2.47
2.47
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: 35GS3023 WAS 35GS3009, UPDATE KOBX LOCATION
REV: A
VERSION: 01
REVISED: 03:03:22 09/05/2023
TDR: 000001211789
MODEL NO. 35LYE6093
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 56C TEFC 35LC F3 CAP @3, W/35CB4007 @ 12
SH 1 of 1
35LYE6093

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