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%)									

Parts List

Part number	Description	Quantity
SA411934	SA 35E6093G588	1.000 ea
RA403603	RA 35E6093G588	1.000 ea
OC3025F11	CYL OIL CAP 25MFD/370V	1.000 ea
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB4007	KOBX,W/PRIMER (WAS REL# 79097-49-C)	1.000 ea
35GS3023	GASKET FOR KOBX 35CB4007, CLSD CELL NEOP	1.000 ea
WD4101A13	STEEL CAPLUG,BP-1 1/8, PLUG D3561S	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
11XT1032G04	10-32 X 1/4" GRD SCREW	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	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
35CB3801	CAPACITOR COVER, CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	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
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4519	CB LID W/BLACK PRIMER	1.000 ea
35GS3019A01	LEXIDE GASKET, FOR KOBX LID 35CB4519	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
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
SP5181A48	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1372L	ALUM UL CE UKCA WEEE CC, A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

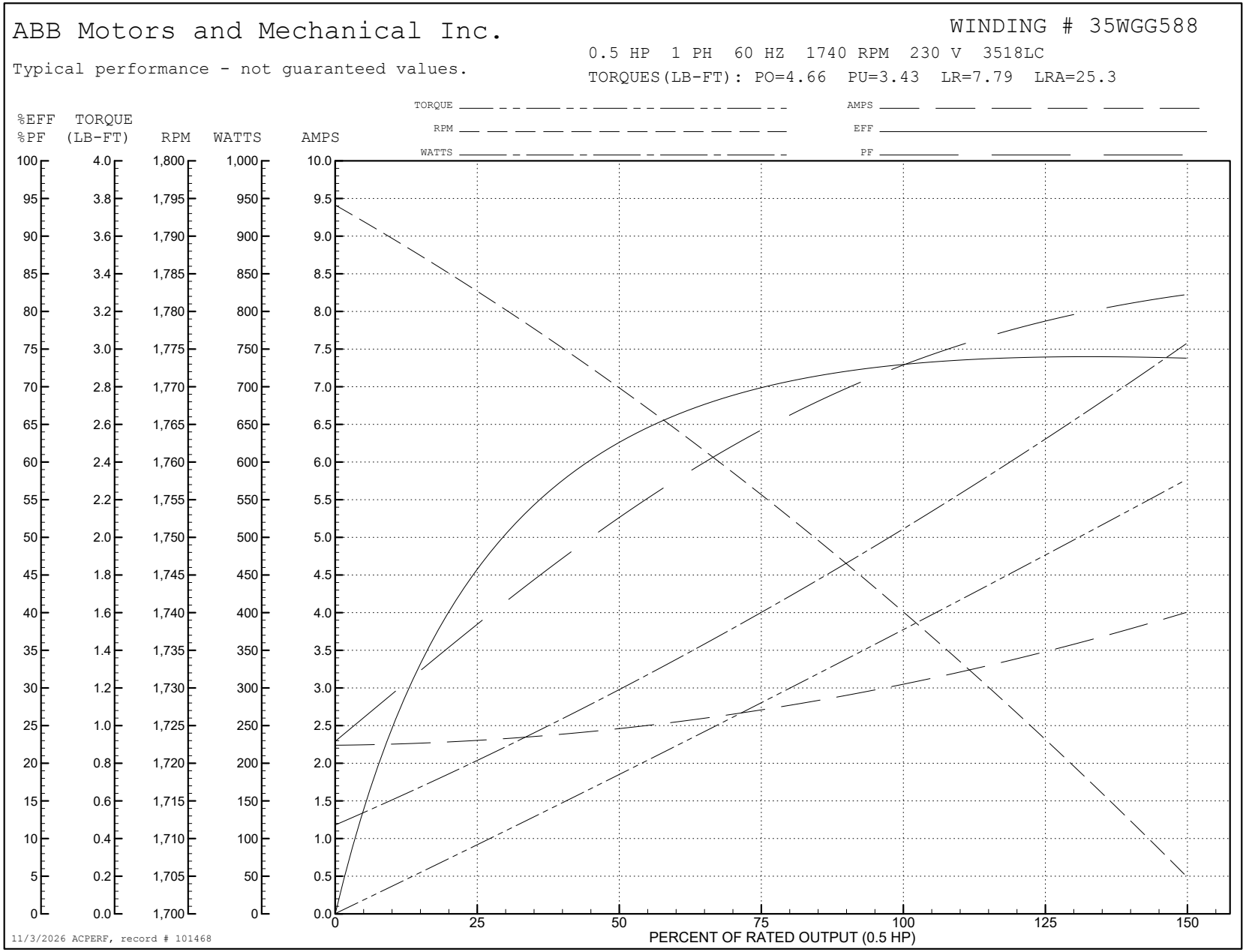
AC Induction Motor Performance Data
Record # 101468
Typical performance - not guaranteed values

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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/3/2026 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

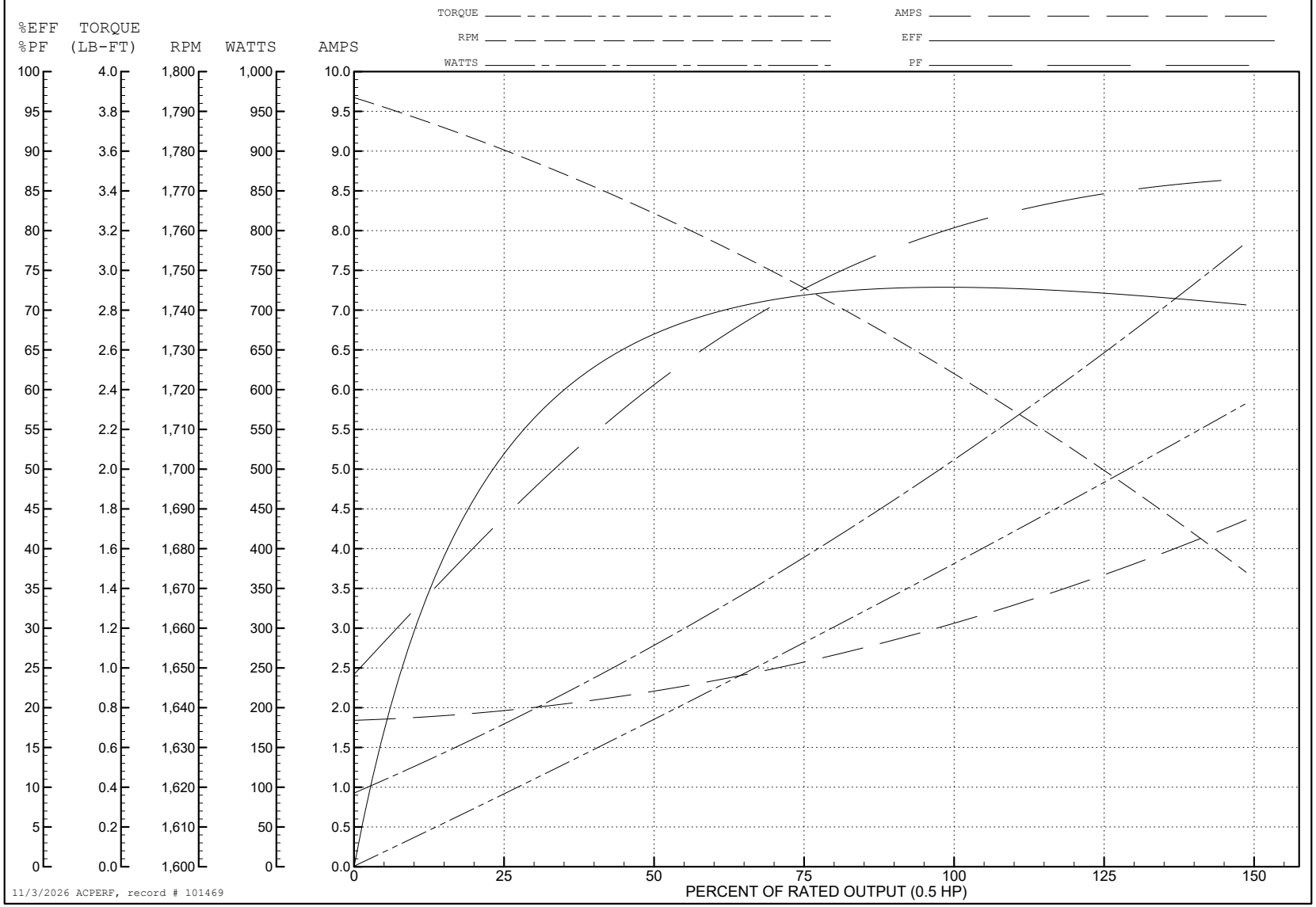
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

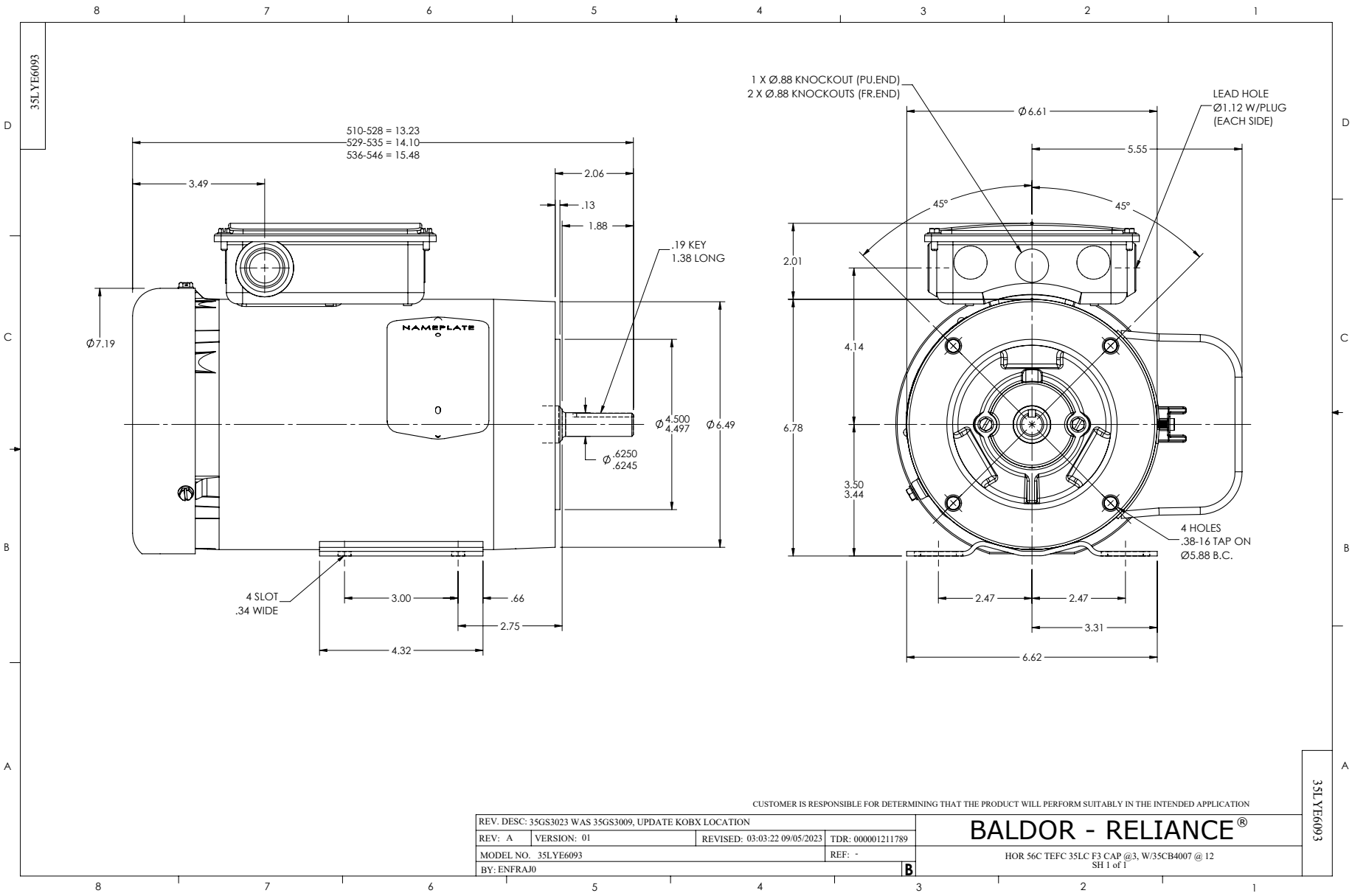
0.5 HP 1 PH 60 HZ 1740 RPM 208 V 3518LC

Typical performance - not guaranteed values.

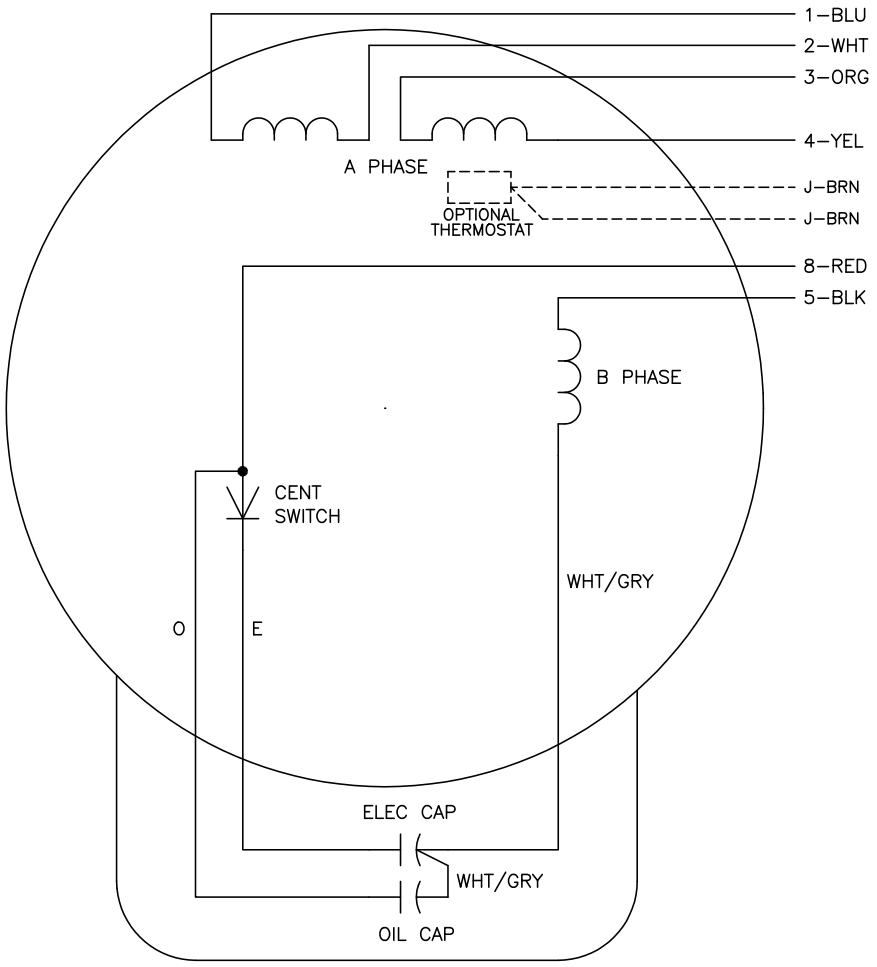
TORQUES(LB-FT): PO=3.86 PU=2.78 LR=5.71 LRA=22.1



11/3/2026 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.

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

CD0055