BALDOR • RELIANCE

Customer information packet

FDL1177T

16HP, 1740RPM, 1PH, 60HZ, 256T, 0956LC, TEFC, F
Class - None
Division - Not Applicable

1/21/2025 1:37:25 PM

Specifications

Enclosure	TEFC
Frame	256T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	16.000 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	UR
	CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	61.000 A @ 230.0 V
	69.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
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	61.0 a

Part detail

Revision	N
Type	AC
Mech. spec.	09M634
Base	
Status	PRD/A
Elec. spec.	09WGT428
Layout	09LYM634
Eff. date	01-02-2025
CD Diagram	CD1084
Poles	04
Leads	2#6 A PH 15" LONG,2#12 B PH 15" LONG Y
Proprietary	False
Created date	04-04-2017

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	C
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 6 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0956LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.28 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1279L									
CAT.NO.	FDL1177T								
SPEC.	09M634T428G1								
HP	16								
VOLTS	208-230								
AMP	69-61								
RPM	1740								
FRAME	256T	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	C	**DES**	L	**CL**	F		
NEMA-NOM-EFF	87.5	**PF**	96						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6307						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 63464
Typical performance - not guaranteed values

Winding: 09WGT428-R001	**Type:** 0956LC	**Enclosure:** TEFC

Nameplate Data			**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		16	**Full Load Torque**	48.4 LB-FT
Volts		208-230	**Start Configuration**	direct on line
Full Load Amps		61	**Breakdown Torque**	147 LB-FT
R.P.M.		1740	**Pull-up Torque**	75.4 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	99.7 LB-FT
NEMA Design Code	L **KVA Code**	C	**Starting Current**	250 A
Service Factor (S.F.)		1	**No-load Current**	9.37 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	0.098033 Ω A Ph 0.32402 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	83°C

Load Characteristics 230 V, 60 Hz, 16 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	89	95	96	96	96	95
Efficiency	78.6	87.1	88.6	88	85.9	82.4
Speed	1787.1	1773.2	1757.9	1741.3	1721.2	1693.9
Line amperes	18.8	31.5	45.6	61.4	78.5	100

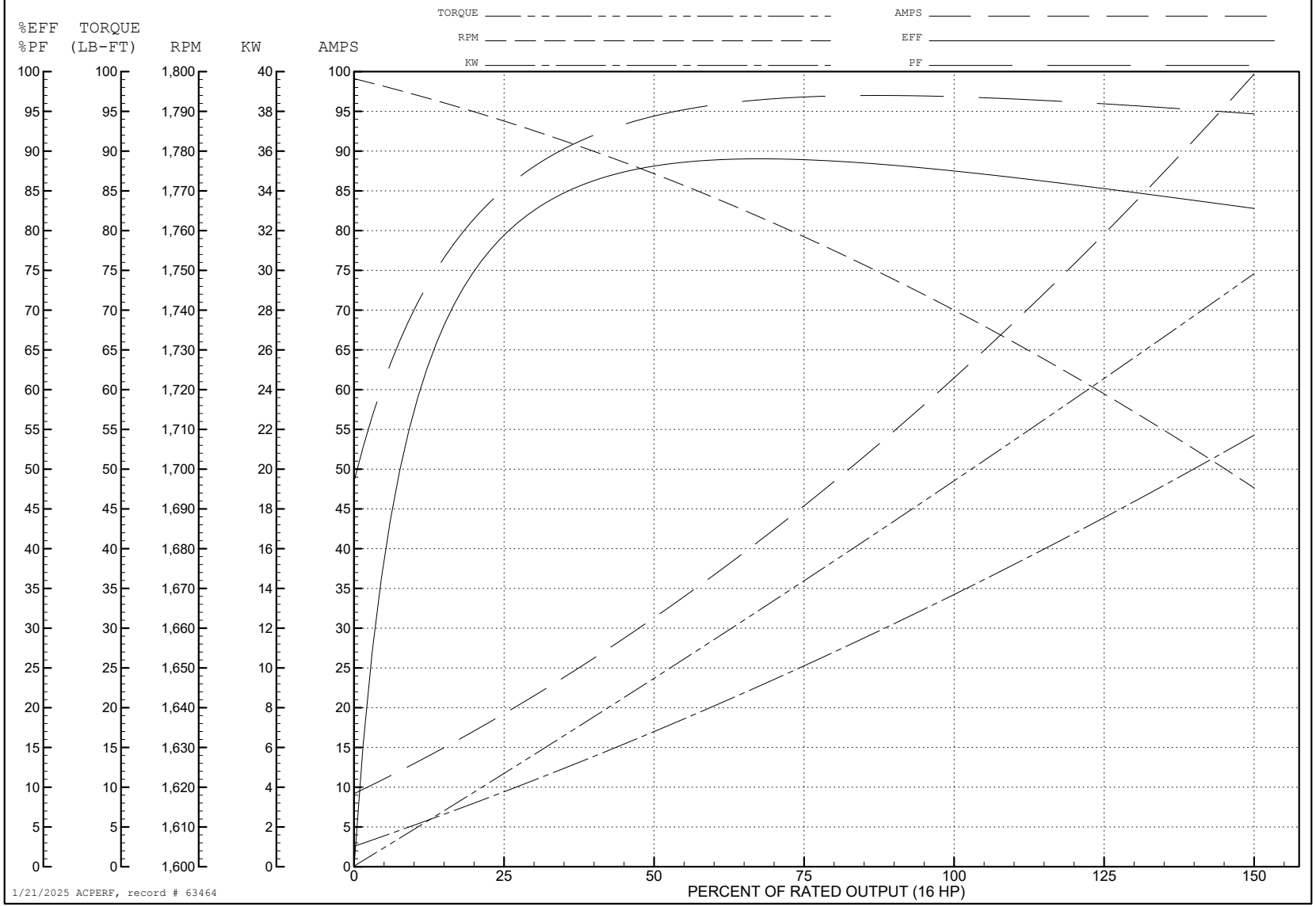
ABB Motors and Mechanical Inc.

WINDING # 09WGT428

16 HP 1 PH 60 HZ 1740 RPM 230 V 0956LC

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=147 PU=75.4 LR=99.7 LRA=250



AC Induction Motor Performance Data
Record # 63558
Typical performance - not guaranteed values

Winding: 09WGT428-R001	**Type:** 0956LC	**Enclosure:** TEFC

Nameplate Data			**208 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		16	**Full Load Torque**	49.09 LB-FT
Volts		208-230	**Start Configuration**	direct on line
Full Load Amps		69-61	**Breakdown Torque**	144 LB-FT
R.P.M.		1725	**Pull-up Torque**	73.7 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	98.2 LB-FT
NEMA Design Code	L **KVA Code**	C	**Starting Current**	350 A
Service Factor (S.F.)		1	**No-load Current**	29.1 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	0.098033 Ω A Ph 0.32402 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	104°C

Load Characteristics 208 V, 60 Hz, 16 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	97	98	98	97	95	92
Efficiency	82.7	88.6	88.5	85.6	80.8	71.7
Speed	1782.8	1765.1	1742.2	1713.4	1675.4	1608.7
Line amperes	18	32.4	49.9	69.2	92.2	129

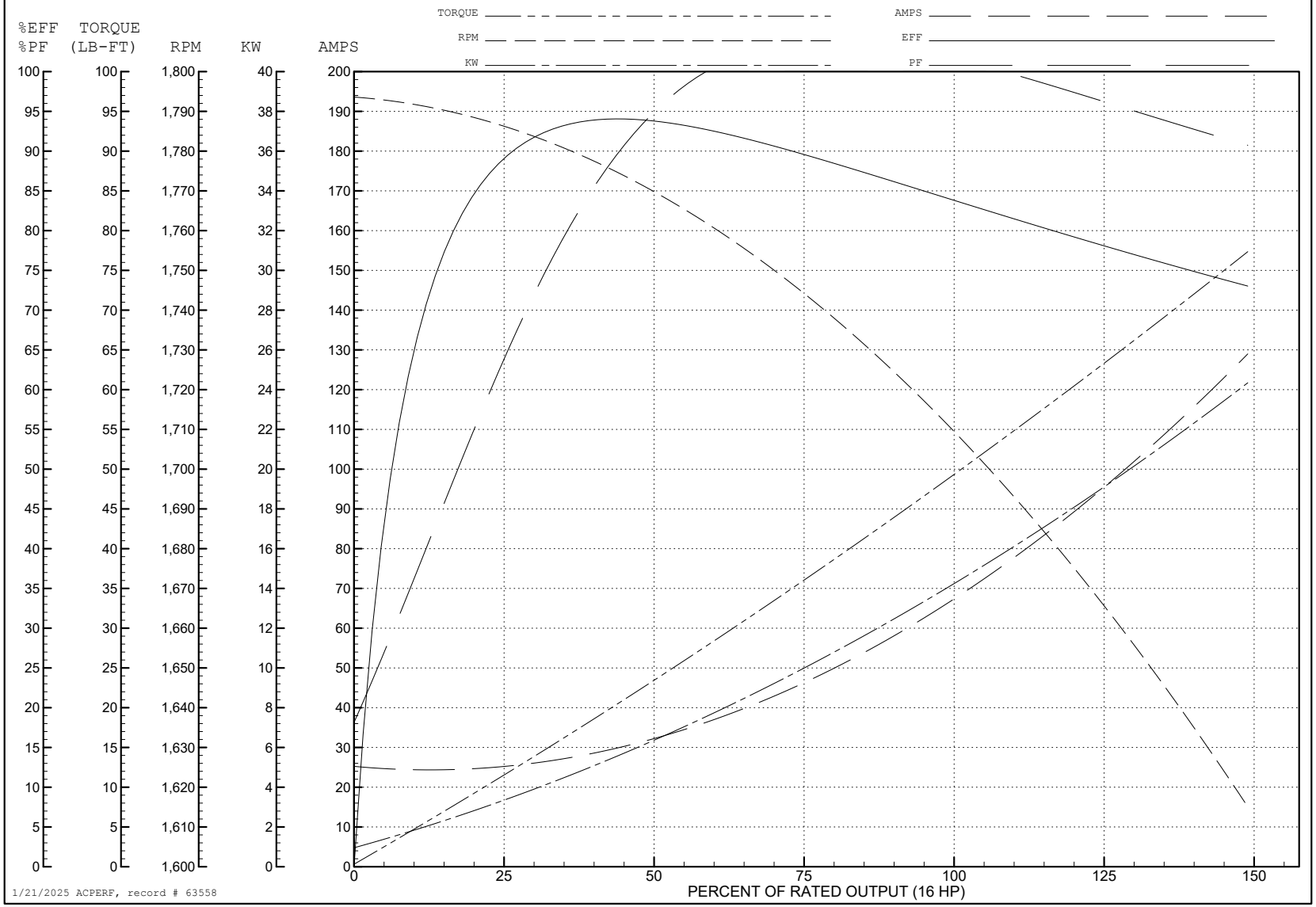
ABB Motors and Mechanical Inc.

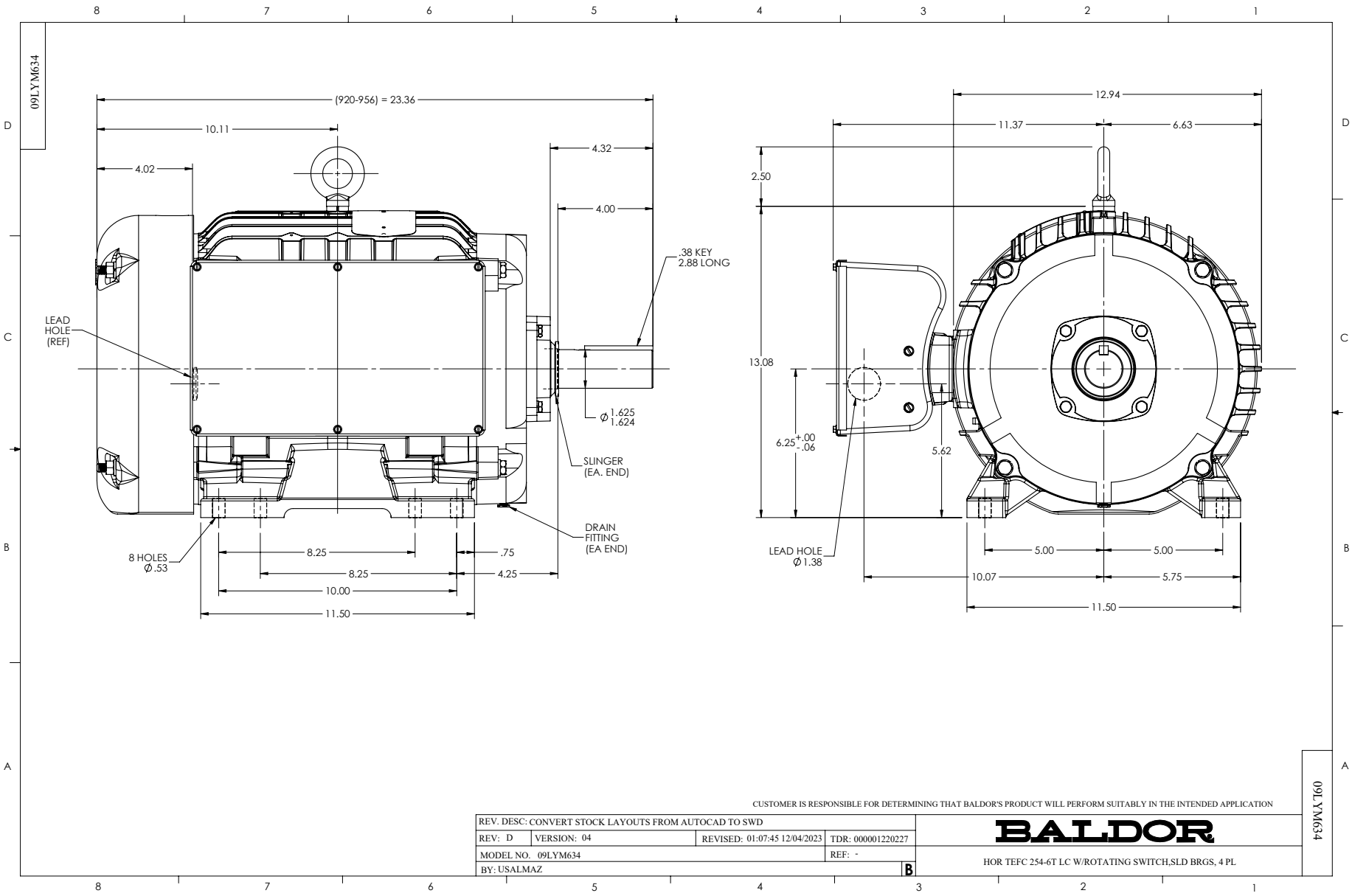
WINDING # 09WGT428

16 HP 1 PH 60 HZ 1725 RPM 208 V 0956LC

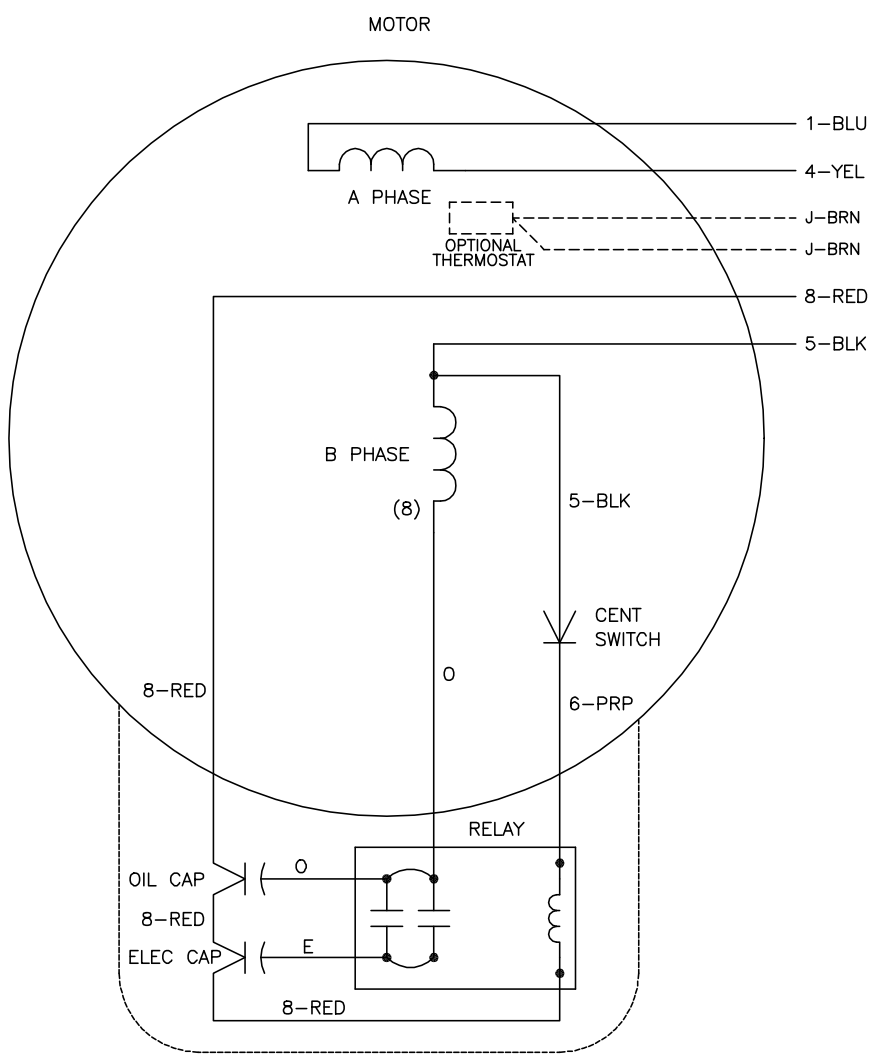
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=144 PU=73.7 LR=98.2 LRA=350




09LYM634
(920-956) = 23.36
10.11
4.02
4.32
4.00
.38 KEY
2.88 LONG
LEAD
HOLE
(REF)
Ø 1.625
1.624
SLINGER
(EA. END)
DRAIN
FITTING
(EA END)
8 HOLES
Ø .53
8.25
.75
8.25
4.25
10.00
11.50
12.94
11.37
6.63
2.50
13.08
6.25 +.00 -.06
5.62
LEAD HOLE
Ø 1.38
5.00
5.00
10.07
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: D
VERSION: 04
REVISED: 01:07:45 12/04/2023
TDR: 000001220227
MODEL NO. 09LYM634
REF: -
BY: USALMAZ
B
BALDOR
HOR TEFC 254-6T LC W/ROTATING SWITCH,SLD BRGS, 4 PL
09LYM634

CD1084



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	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. USE GE CR353CB2AB1, OR FURNAS 45DG20AG, OR EQUIVALENT POTENTIAL RELAY.
5. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
6. CAPS AND RELAY MAY BE SEPERATELY MOUNTED.
7. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD1084

REV. DESC: NO CHANGES MADE		
REV. LTR: D	VERSION: 01	TDR: 000001193788
FILE: \AAA\00029\485	REVISED: 10:01:49 07/13/2022	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, SV, REV, 4LD, RELAY W/CENT SW, ON/OFF SW

SH 1 of 1