ABB BALDOR RELIANCE

Customer information packet

EL11306A

.75HP, 3450RPM, 1PH, 60HZ, 56, 3428LC, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	6.300 A @ 115.0 V
	4.700 A @ 208.0 V
	3.300 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.2 %
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	3.3 a

Part Detail

Revision	G
Type	AC
Mech. spec.	34F353
Base	
Status	PRD/A
Elec. spec.	34WGR220
Layout	34LYF353
Eff. date	12-31-2024
CD Diagram	CD0320
Poles	02
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	09-15-2015

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.00 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2	None

Nameplate

NP3273L									
CAT.NO.	EL11306A								
SPEC.	34F353R220G1								
HP	.75								
VOLTS	115/230								
AMP	6.3/3.3								
RPM	3450								
FRAME	56		**HZ**	60			**PH**	1	
SER.F.	1.25	**CODE**	J	**DES**	N	**CL**	B		
F.L. AVG. EFF.	76.2	**PF**	95						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	SFA 8.4/4.2								

AC Induction Motor Performance Data
Record # 52884
Typical performance - not guaranteed values

Winding: 34WGR220-R001	**Type:** 3428LC	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.14 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			6.3/3.3	**Breakdown Torque**	3.88 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.07 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.92 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	24.8 A
Service Factor (S.F.)			1.25	**No-load Current**	0.961 A
NEMA Nom. Eff.	76.2	**Power Factor**	95	**Line-line Res. @ 25ºC**	2.4012 Ω A Ph 2.118 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	12°C
S.F. Amps			8.4/4.2	**Temp. Rise @ S.F. Load**	16°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	77	89	93	95	95	95	95
Efficiency	62.6	74.2	78.2	77.5	76.1	74.7	76.1
Speed	3567.6	3537.1	3504.2	3465	3419.8	3372.1	3420
Line amperes	1.23	1.84	2.51	3.32	4.21	5.14	4.21

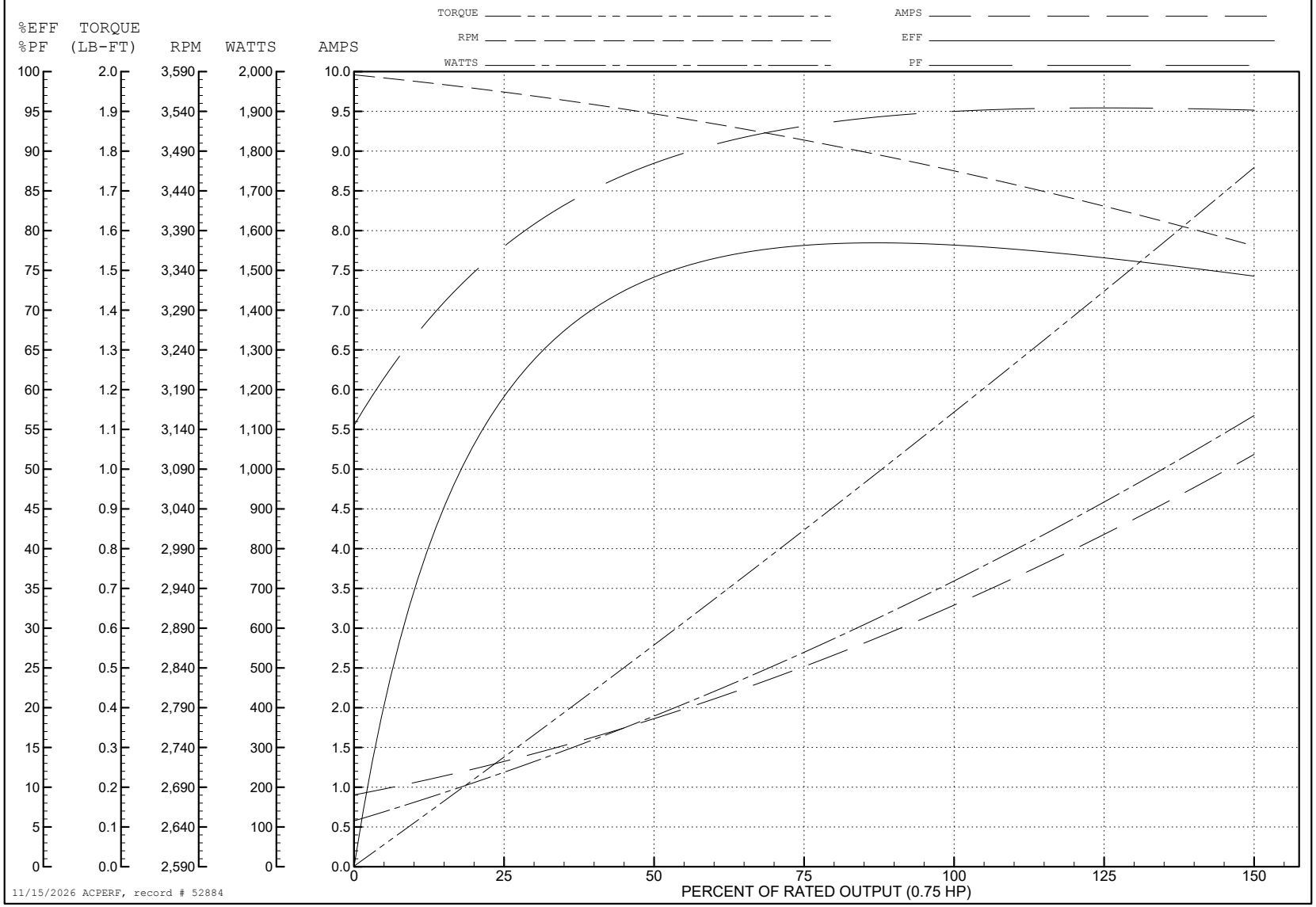
ABB Motors and Mechanical Inc.

WINDING # 34WGR220

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3428LC

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=3.88 PU=2.07 LR=3.92 LRA=24.8



11/15/2026 ACPERF, record # 52884

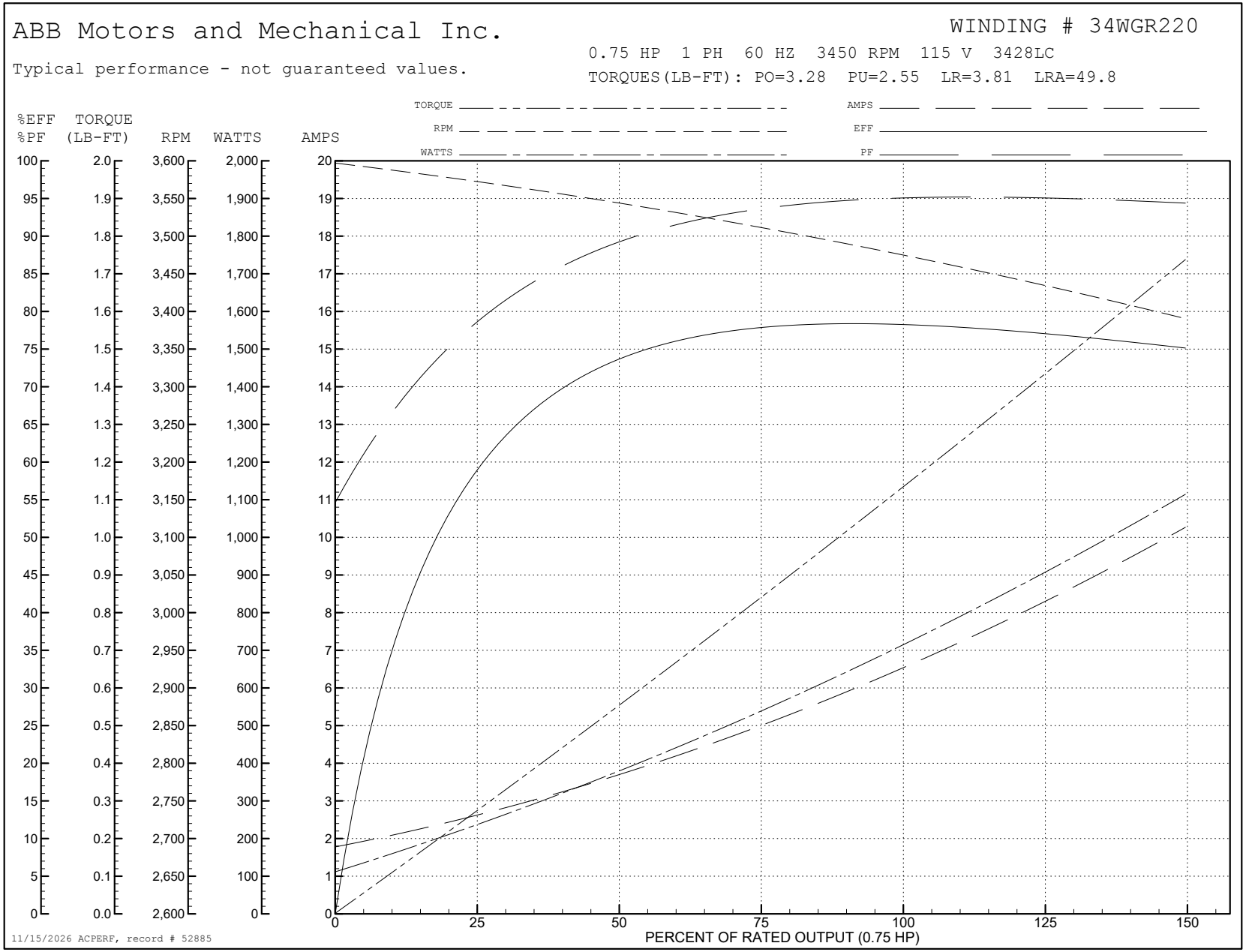
AC Induction Motor Performance Data
Record # 52885
Typical performance - not guaranteed values

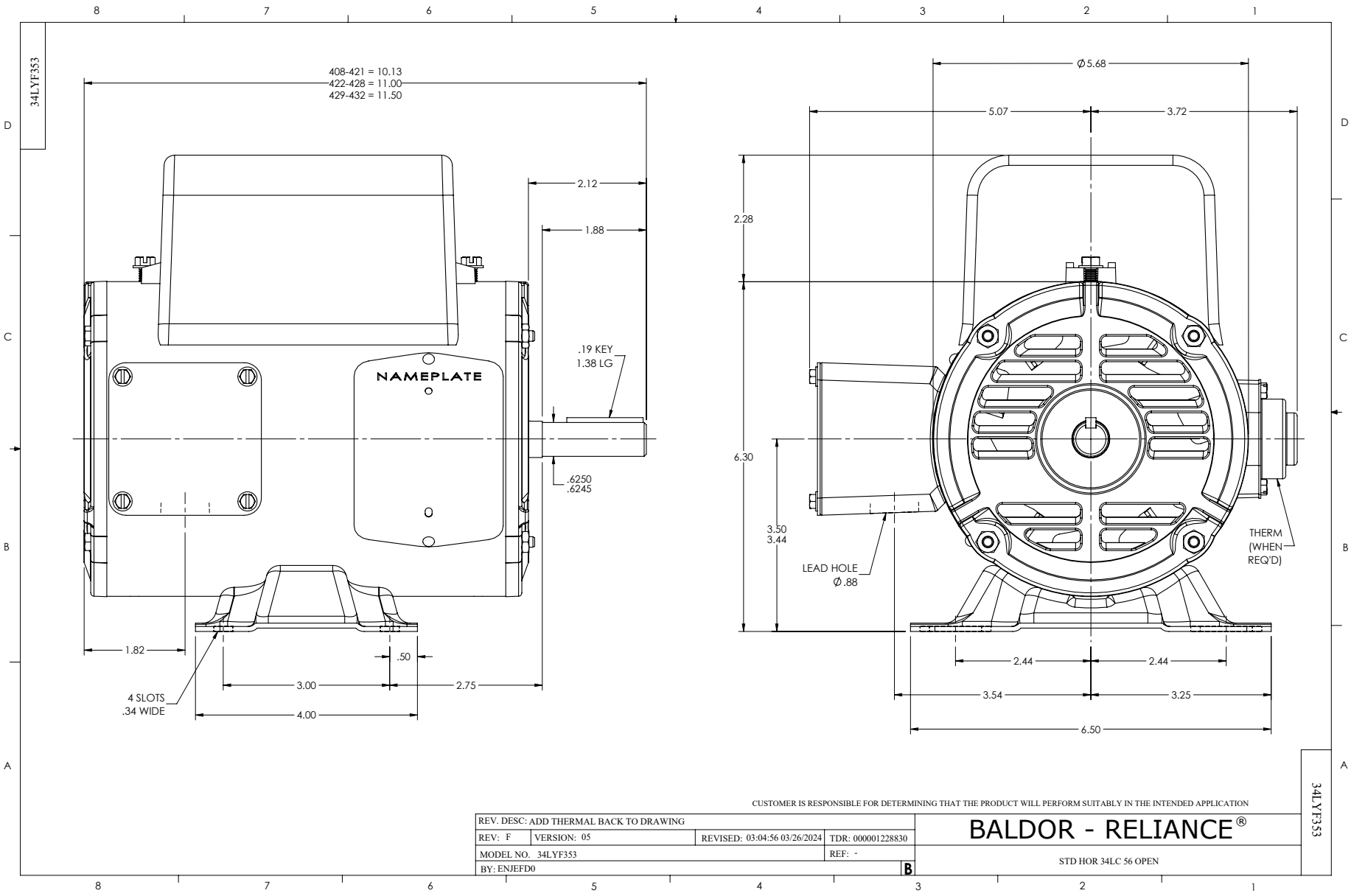
Winding: 34WGR220-R001	**Type:** 3428LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.13 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			6.3/3.3	**Breakdown Torque**	3.28 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.55 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.81 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	49.8 A
Service Factor (S.F.)			1.25	**No-load Current**	1.82 A
NEMA Nom. Eff.	76.2	**Power Factor**	95	**Line-line Res. @ 25ºC**	0.58846 Ω A Ph 2.1681 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps			8.4/4.2	**Temp. Rise @ S.F. Load**	36°C

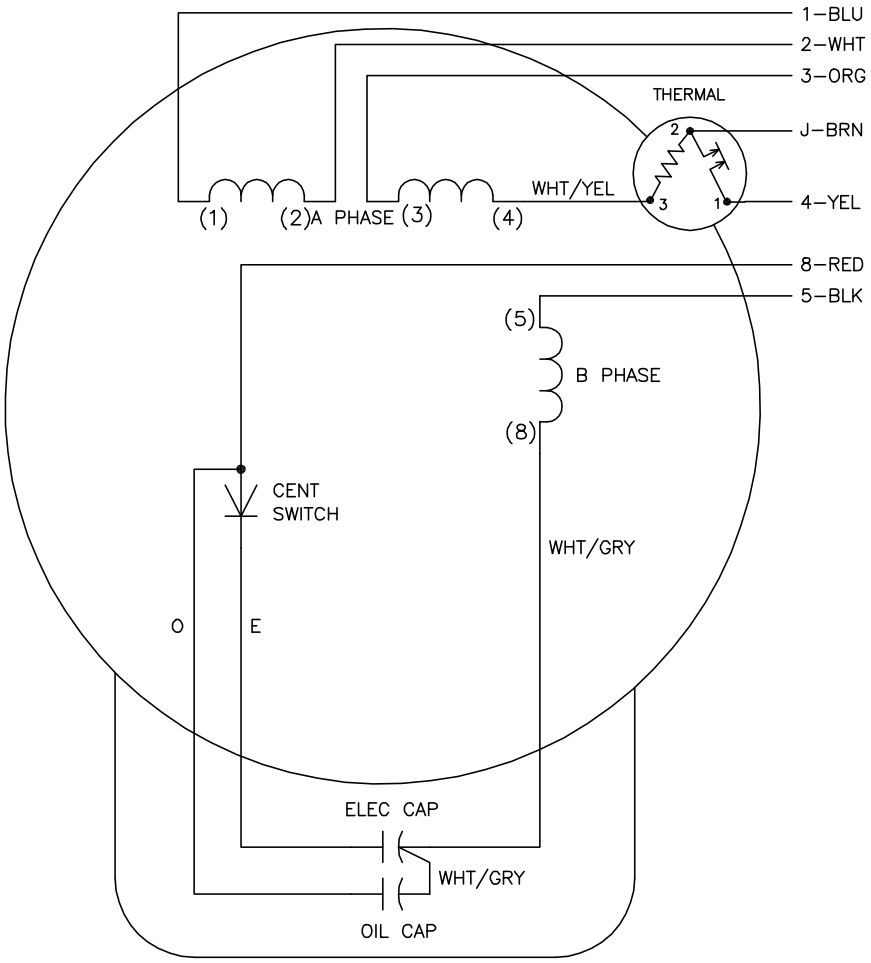
Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	80	89	93	94	95	95	95
Efficiency	60.3	73.2	77.3	78.2	77.3	74.8	77.3
Speed	3570	3543.5	3508.4	3477.4	3436.9	3387.6	3437
Line amperes	2.54	3.7	5.12	6.53	8.27	10.3	8.27


ABB Motors and Mechanical Inc.
WINDING # 34WGR220
Typical performance - not guaranteed values.
0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3428LC
TORQUES(LB-FT): PO=3.28 PU=2.55 LR=3.81 LRA=49.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/15/2026 ACPERF, record # 52885


34LYF353
408-421 = 10.13
422-428 = 11.00
429-432 = 11.50
2.12
1.88
.19 KEY
1.38 LG
NAMEPLATE
.6250
.6245
1.82
.50
3.00
2.75
4.00
4 SLOTS
.34 WIDE
Ø5.68
5.07
3.72
2.28
6.30
3.50
3.44
LEAD HOLE
Ø .88
THERM
(WHEN
REQ'D)
2.44
2.44
3.54
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL BACK TO DRAWING
REV: F
VERSION: 05
REVISED: 03:04:56 03/26/2024
TDR: 000001228830
MODEL NO. 34LYF353
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD HOR 34LC 56 OPEN
34LYF353

CD0320



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

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: –		

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

SH 1 of 1