ABB BALDOR RELIANCE

Customer information packet

WCL1409T

5HP, 3450RPM, 1PH, 60HZ, 184TCZ, 3634L, OPEN
Class - None
Division - Not Applicable

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11/20/2026 8:38:08 AM

Specifications

Enclosure	OPEN
Frame	184TCZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	23.000 A @ 230.0 V 24.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.0 %
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	23.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AJ
Type	AC
Mech. spec.	36E775
Base	
Status	PRD/A
Elec. spec.	36WG0190
Layout	36LYE775
Eff. date	06-24-2026
CD Diagram	CD0017A01
Poles	02
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.69 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	WCL1409T								
SPEC.	36E775-190								
HP	5								
VOLTS	230								
AMP	23								
RPM	3450								
FRAME	184TCZ	**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	F	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	75	**PF**	88						
RATING	40C AMB-CONT								
CC									
DE	6207	**ODE**	6205						
ENCL	OPEN	**SN**							

AC Induction Motor Performance Data
Record # 20846
Typical performance - not guaranteed values

Winding: 36WG0190-R002	**Type:** 3634L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.6 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			23	**Breakdown Torque**	18.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	16 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	18 LB-FT
NEMA Design Code	L	**KVA Code**	F	**Starting Current**	125 A
Service Factor (S.F.)			1.15	**No-load Current**	9 A
NEMA Nom. Eff.	75	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.338 Ω A Ph 1.16 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	90°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	76	84	88	90	90	0
Efficiency	63	74.5	77.7	78	76.5	73.6	0
Speed	3559	3524	3485	3440	3387	3318	0
Line amperes	10.9	14.3	18.6	23.6	29.6	36.8	27.2

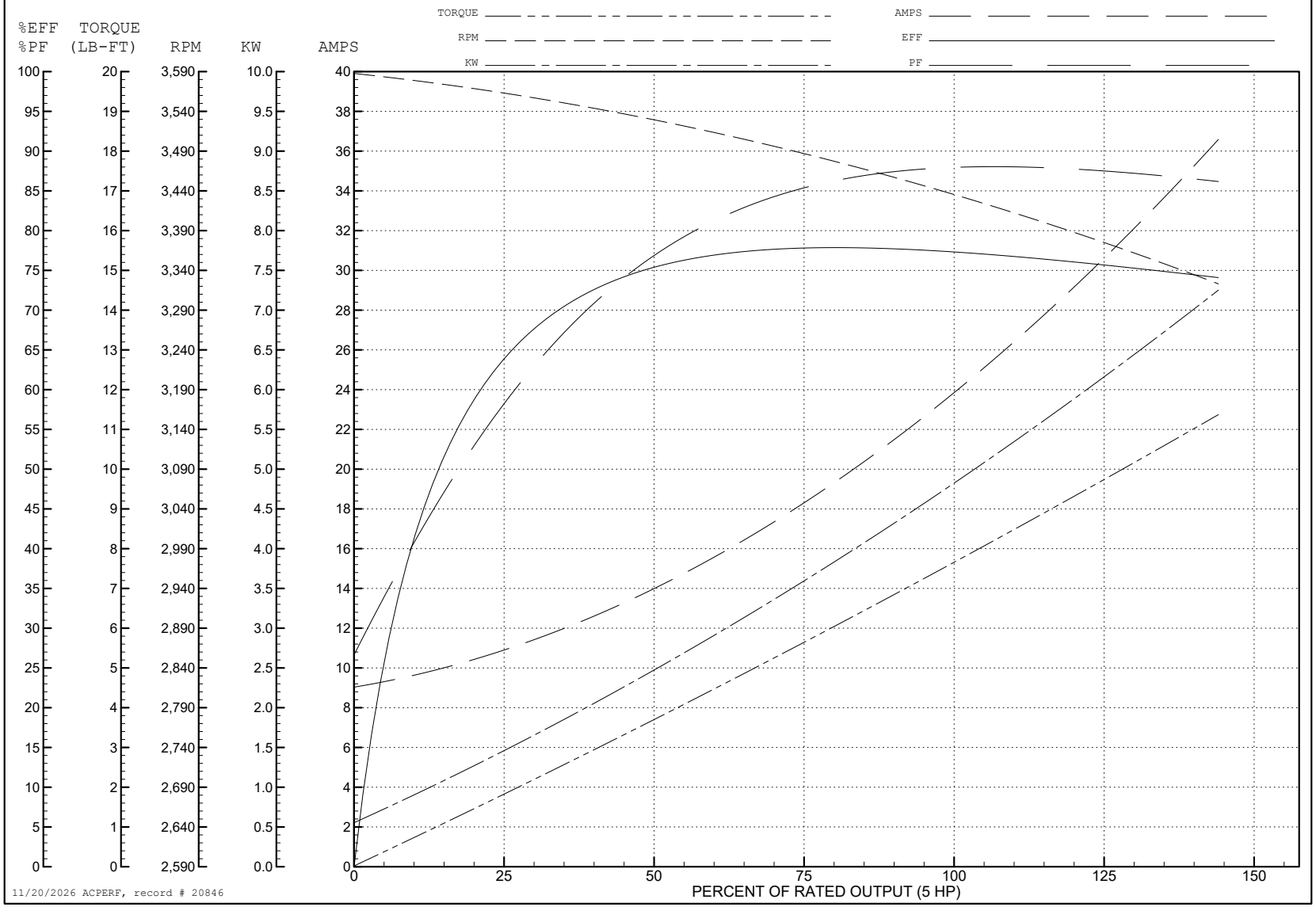
ABB Motors and Mechanical Inc.

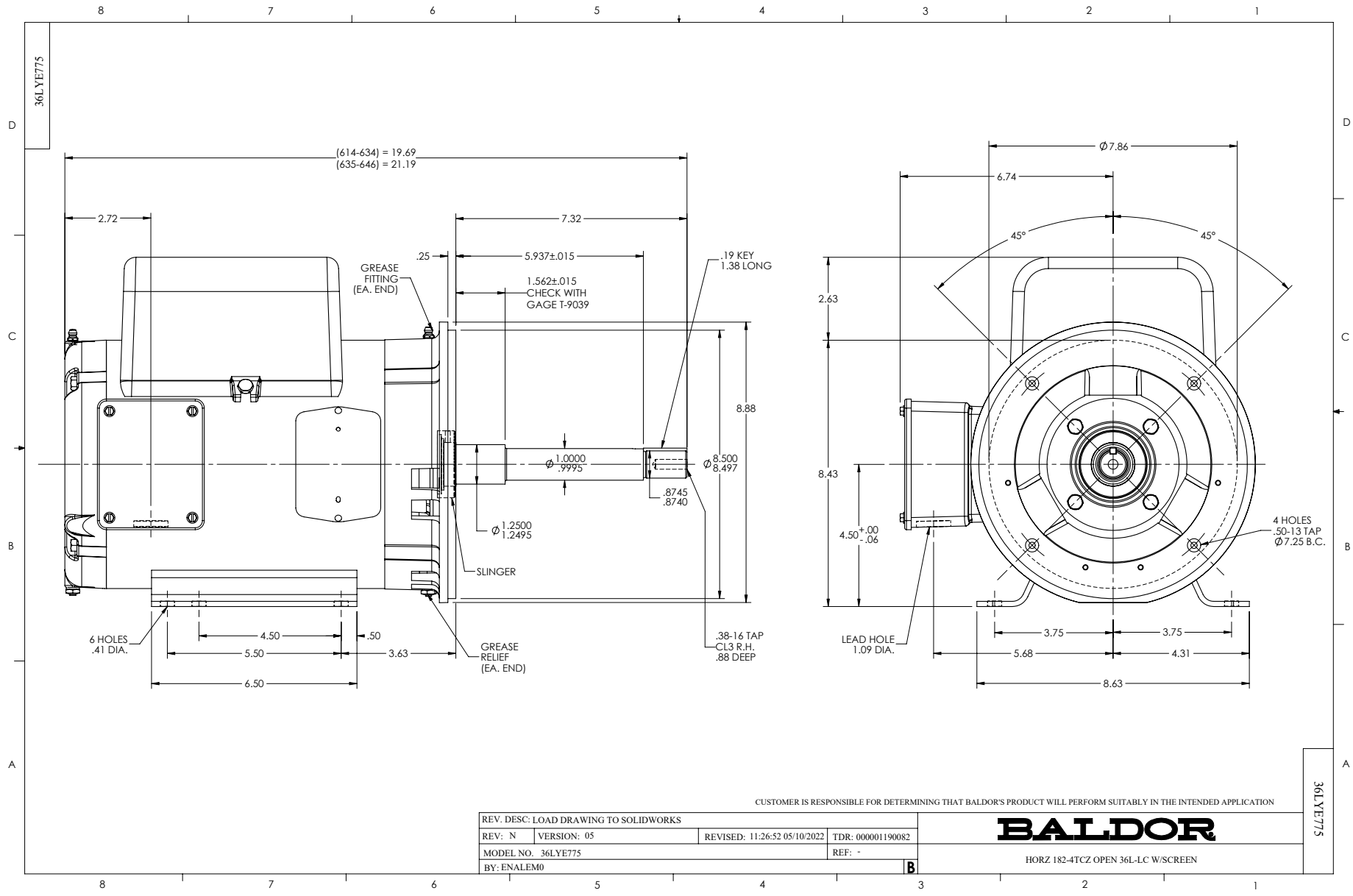
WINDING # 36WG0190

5 HP 1 PH 60 HZ 3450 RPM 230 V 3634L

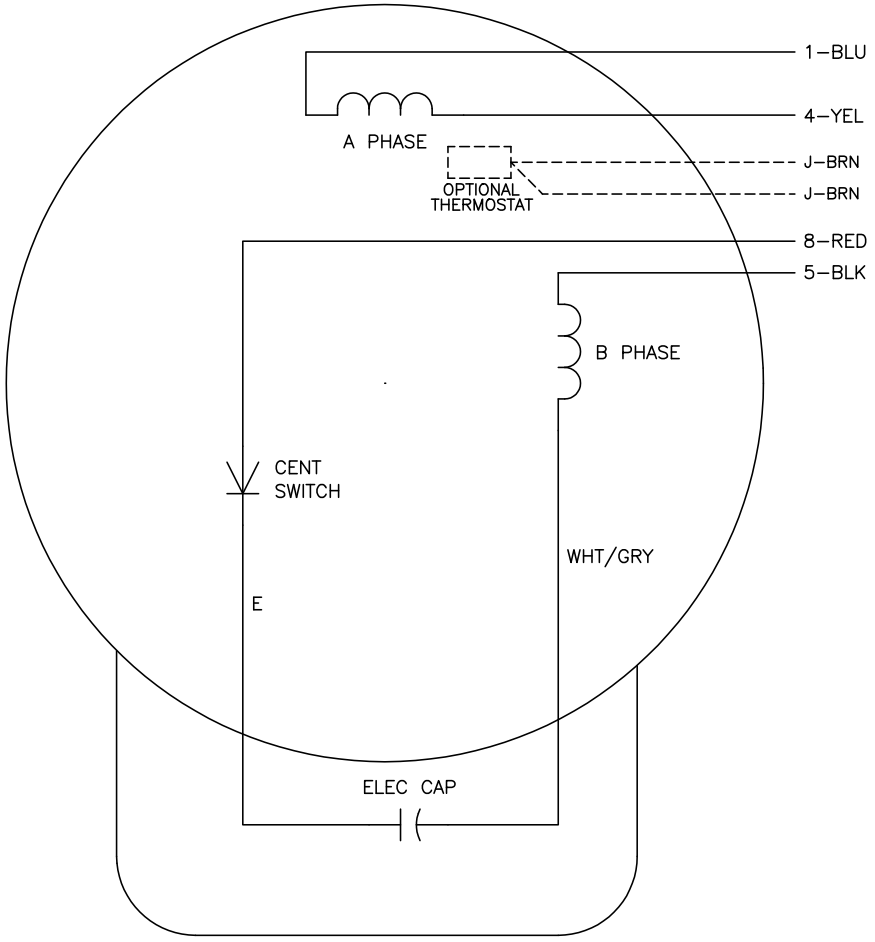
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=18.7 PU=16 LR=18 LRA=125




36LYE775
(614-634) = 19.69
(635-646) = 21.19
2.72
7.32
.25
5.937±.015
1.562±.015
CHECK WITH
GAGE T-9039
GREASE
FITTING
(EA. END)
.19 KEY
1.38 LONG
8.88
Ø 1.0000
.9995
Ø 8.500
8.497
.8745
.8740
Ø 1.2500
1.2495
SLINGER
6 HOLES
.41 DIA.
4.50
.50
5.50
3.63
6.50
GREASE
RELIEF
(EA. END)
.38-16 TAP
CL3 R.H.
.88 DEEP
Ø7.86
6.74
45°
45°
2.63
8.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
1.09 DIA.
3.75
3.75
5.68
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: N
VERSION: 05
REVISED: 11:26:52 05/10/2022
TDR: 000001190082
MODEL NO. 36LYE775
REF: -
BY: ENALEM0
B
BALDOR
HORZ 182-4TCZ OPEN 36L-LC W/SCREEN
36LYE775

CD0017A01



	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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0017A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/08/99 1:18	TDR: 0178636
CD0017A01		FILE: AAA00007513	MDL: –
		MTL: –	TYPE L, SV, REV, 4 LEADS