ABB BALDOR RELIANCE

Customer information packet

CL3709T

7.5HP, 3450RPM, 1PH, 60HZ, 213TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213TC
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	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
	CURUS
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	33.000 A @ 230.0 V
	36.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	83.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	33.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGW579
Layout	37LYC002
Eff. date	05-01-2024
CD Diagram	CD0017A02
Poles	02
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	08-05-2019

IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3735LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.63 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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.	CL3709T								
SPEC.	37-0000-0098								
HP	7.5								
VOLTS	208-230								
AMP	36-33								
RPM	3450								
FRAME	213TC	**HZ**	60			**PH**	1		
SER.F.	1.00	**CODE**	F	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	83	**PF**	91						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 61322
Typical performance - not guaranteed values

Winding: 37WGW579-R002	**Type:** 3735LC	**Enclosure:** TEFC

Nameplate Data			**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		7.5	**Full Load Torque**	11.2 LB-FT
Volts		230	**Start Configuration**	direct on line
Full Load Amps		33	**Breakdown Torque**	35 LB-FT
R.P.M.		3450	**Pull-up Torque**	17 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	28 LB-FT
NEMA Design Code	L **KVA Code**	F	**Starting Current**	220 A
Service Factor (S.F.)		1	**No-load Current**	8.2 A
NEMA Nom. Eff.	83 **Power Factor**	91	**Line-line Res. @ 25ºC**	0.22 Ω A Ph 0.98 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	88°C

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	76	88	92	94	94	94
Efficiency	66.7	78.4	82.2	83.3	82.9	81.6
Speed	3575	3555	3533	3508	3481	3449
Line amperes	12	17.6	24.1	31.2	39	47.6

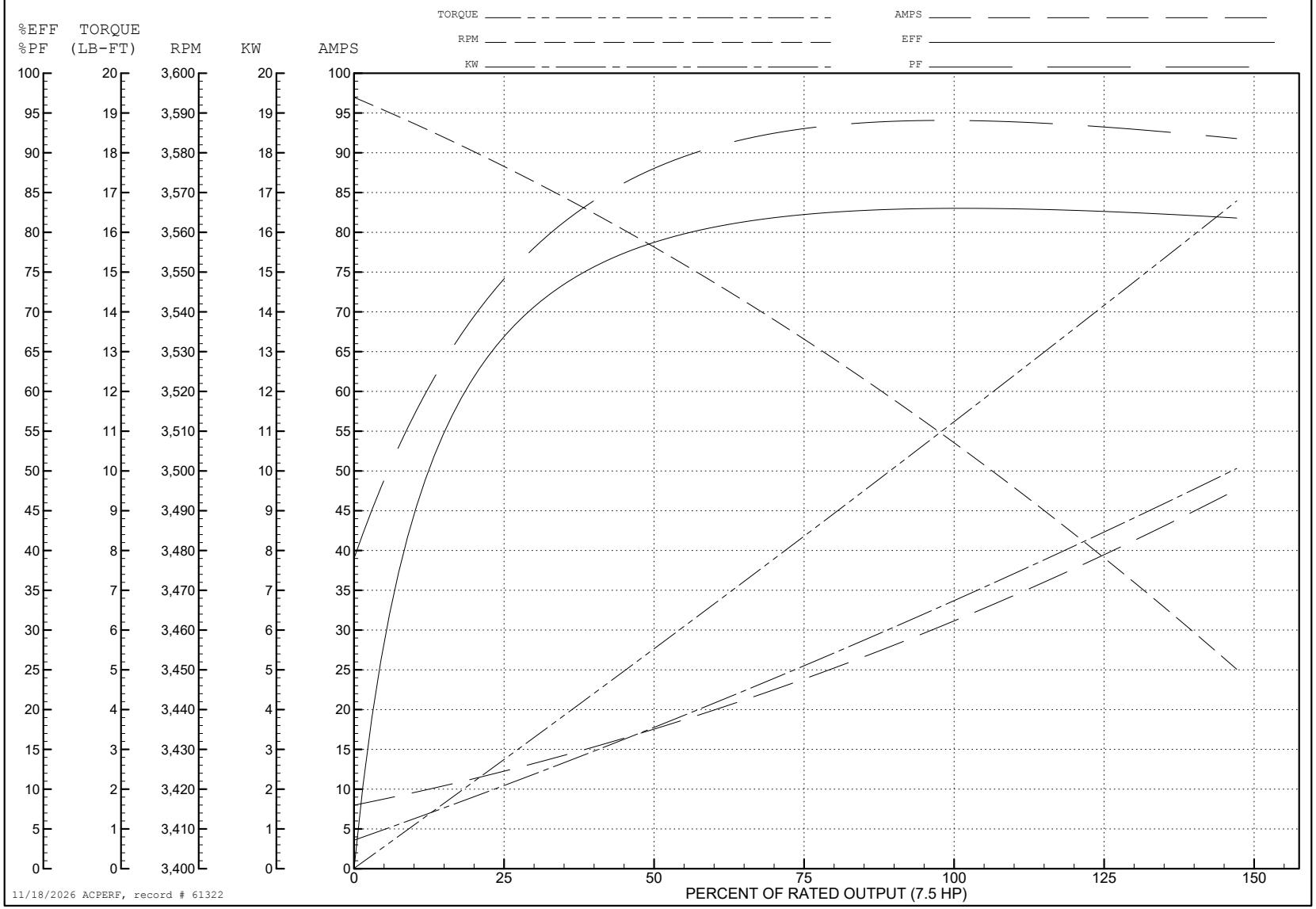
ABB Motors and Mechanical Inc.

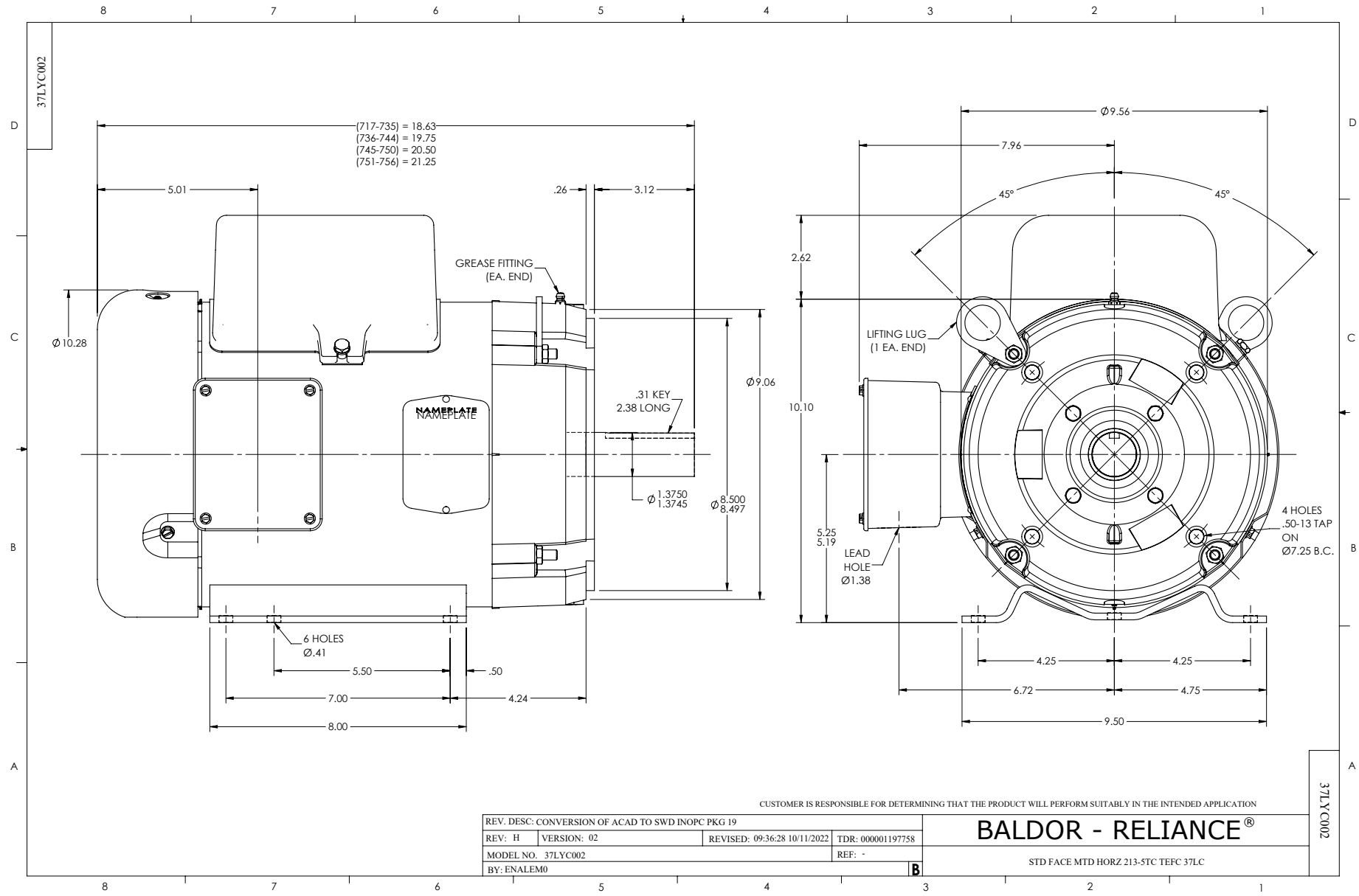
WINDING # 37WGW579

7.5 HP 1 PH 60 HZ 3450 RPM 230 V 3735LC

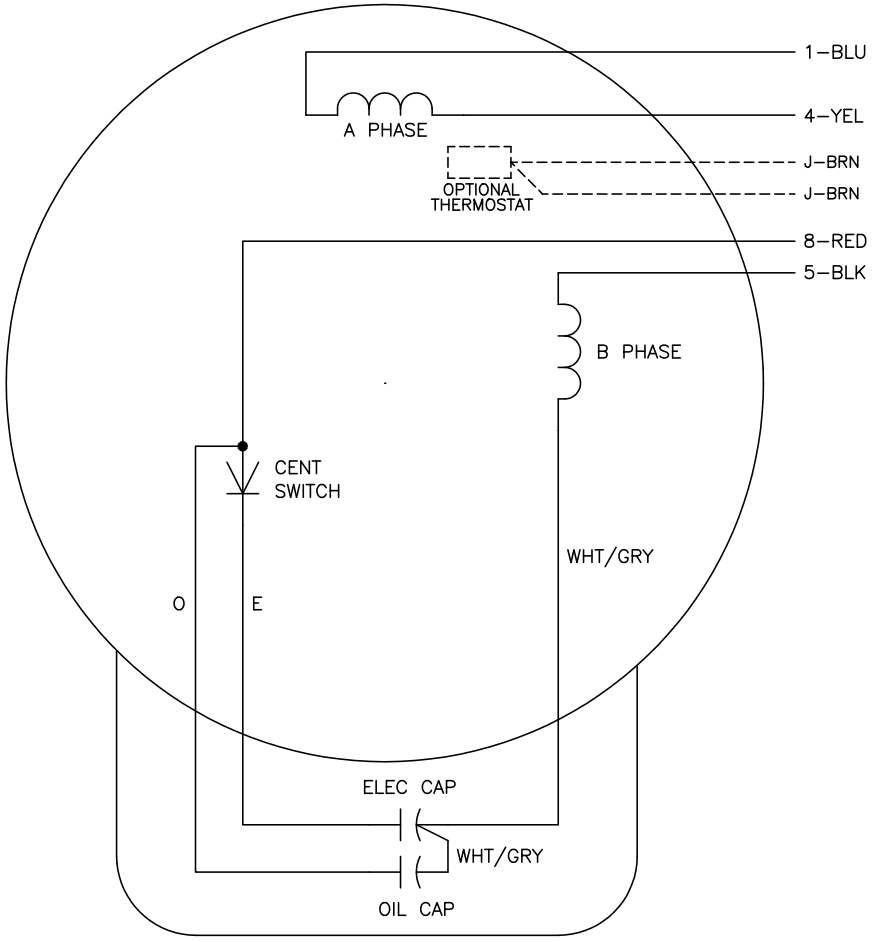
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=35 PU=17 LR=28 LRA=220




37LYC002
(717-735) = 18.63
(736-744) = 19.75
(745-750) = 20.50
(751-756) = 21.25
5.01
.26
3.12
GREASE FITTING
(EA. END)
Ø10.28
NAMEPLATE
NAMEPLATE
.31 KEY
2.38 LONG
Ø9.06
Ø1.3750
1.3745
Ø8.500
8.497
6 HOLES
Ø.41
5.50
.50
7.00
4.24
8.00
Ø9.56
7.96
45°
45°
2.62
LIFTING LUG
(1 EA. END)
10.10
5.25
5.19
LEAD
HOLE
Ø1.38
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: H
VERSION: 02
REVISED: 09:36:28 10/11/2022
TDR: 000001197758
MODEL NO. 37LYC002
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD FACE MTD HORZ 213-5TC TEFC 37LC
37LYC002

CD0017A02



	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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	TYPE LC, SV, REV, 4 LEADS

CD0017A02