ABB BALDOR RELIANCE

Customer information packet

CM3607T

1.5HP, 1165RPM, 3PH, 60HZ, 182TC, 3628M, TEFC
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182TC
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	2.800 A @ 460.0 V
	5.600 A @ 230.0 V
	5.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
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	2.8 a
Insulation Class	B

Part Detail

Revision	H
Type	AC
Mech. spec.	36A002
Base	
Status	NLA/A
Elec. spec.	36WGT146
Layout	36LYA002
Eff. date	05-05-2009
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.55 IN
Power Factor	59
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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.	CM3607T							
SPEC.	36A002T146H1							
HP	1 1/2							
VOLTS	208-230/460							
AMP	5.7-5.6/2.8							
RPM	1165							
FRAME	182TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	B	
NEMA-NOM-EFF	85.5	**PF**	59					
RATING	40C AMB-CONT							
CC	010A							
DE	6206	**ODE**	6205					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 10598
Typical performance - not guaranteed values

Winding: 36WGT146-R001	**Type:** 3628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	6.75 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.7-5.6/2.8	**Breakdown Torque**	23.2 LB-FT
R.P.M.			1165	**Pull-up Torque**	11.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	13.6 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	16 A
Service Factor (S.F.)			1.15	**No-load Current**	1.96 A
NEMA Nom. Eff.	85.5	**Power Factor**	59	**Line-line Res. @ 25ºC**	6.95 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	41°C
				Locked-rotor Power Factor	37
				Rotor inertia	0.263 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	40	51	59	65	69	63
Efficiency	71.6	81.5	84.7	85.7	85.6	84.9	85.6
Speed	1192	1185	1178	1171	1162	1153	1166
Line amperes	2.04	2.22	2.46	2.79	3.17	3.61	3.02

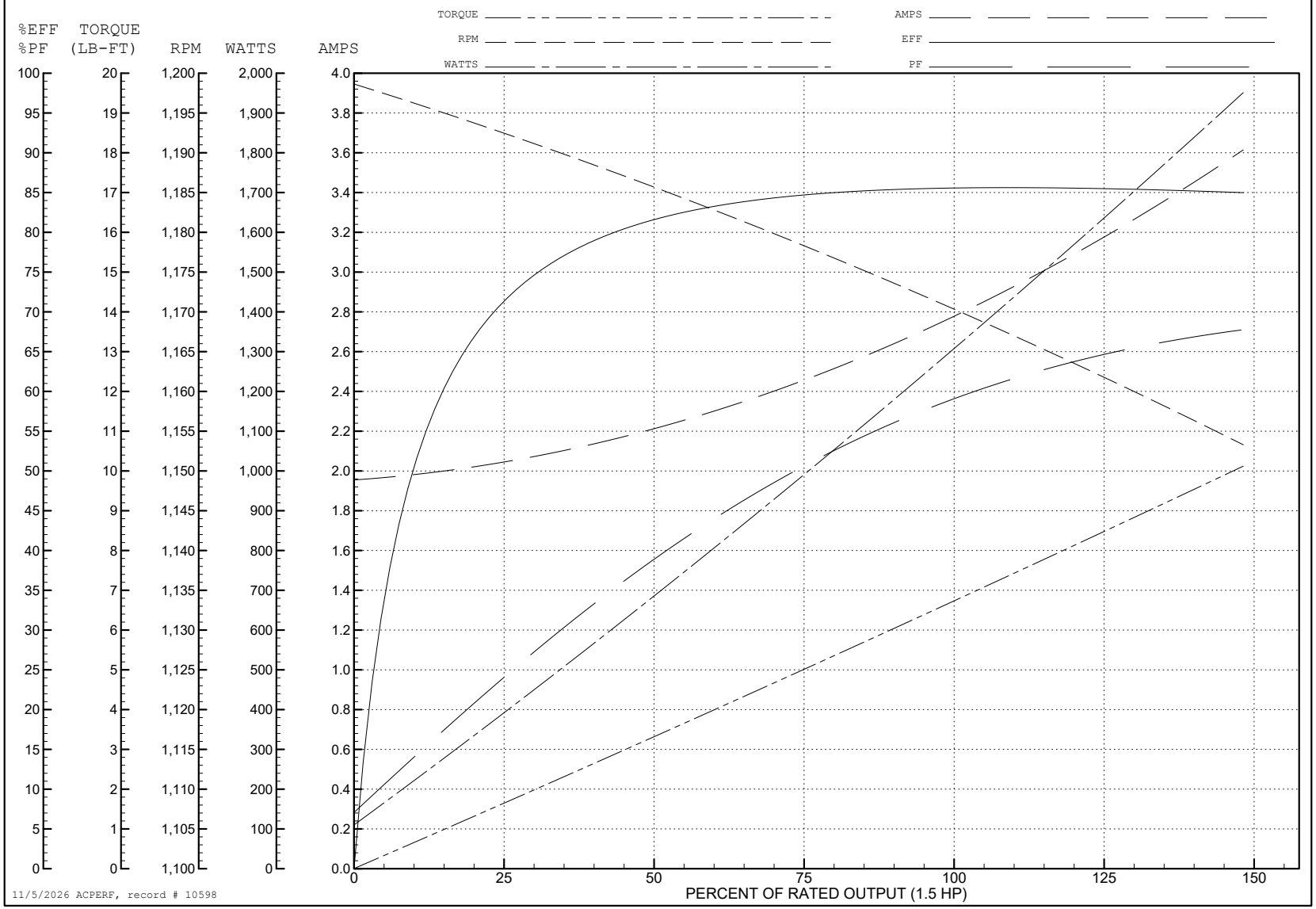
ABB Motors and Mechanical Inc.

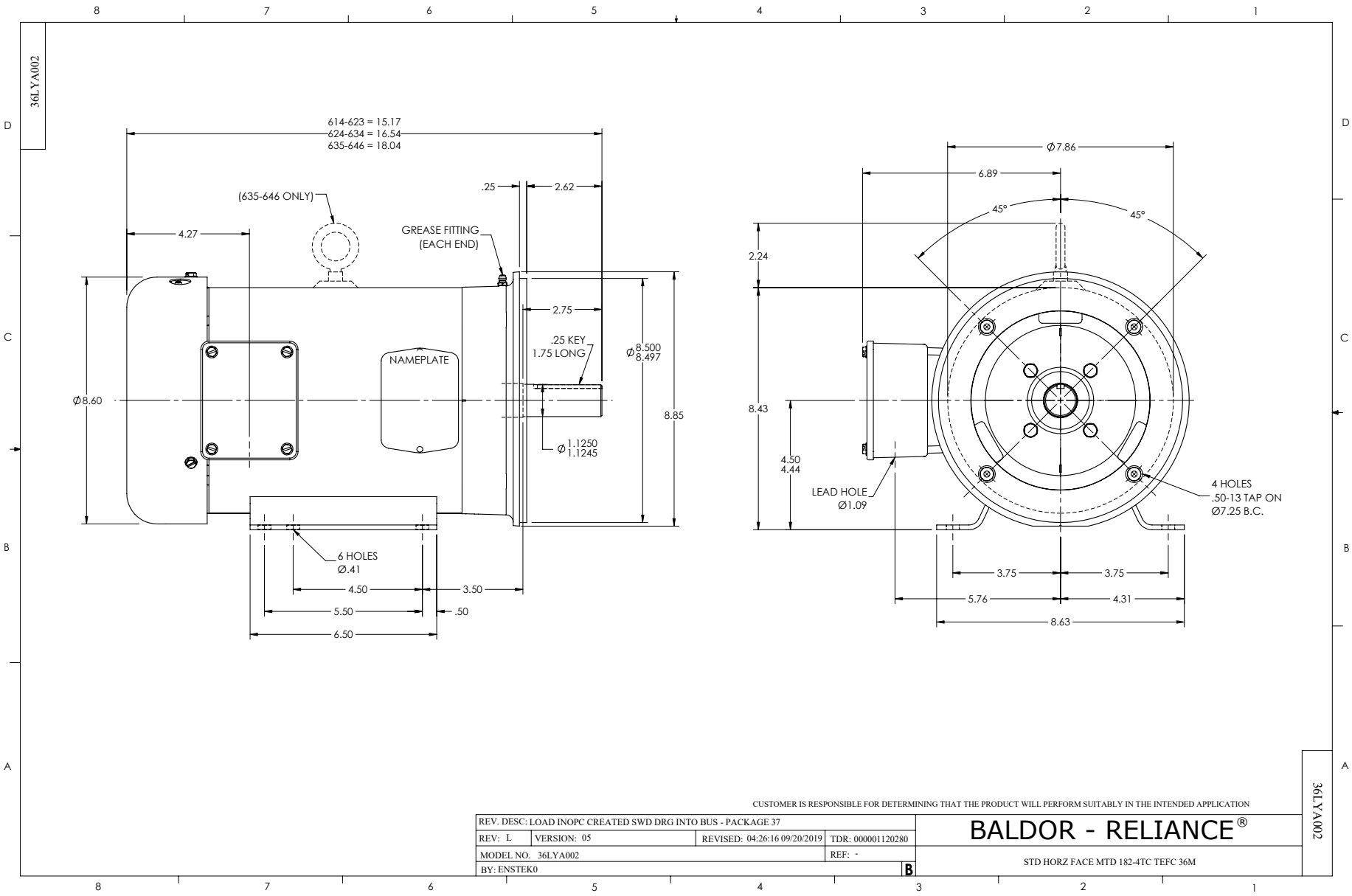
WINDING # 36WGT146

1.5 HP 3 PH 60 HZ 1165 RPM 460 V 3628M

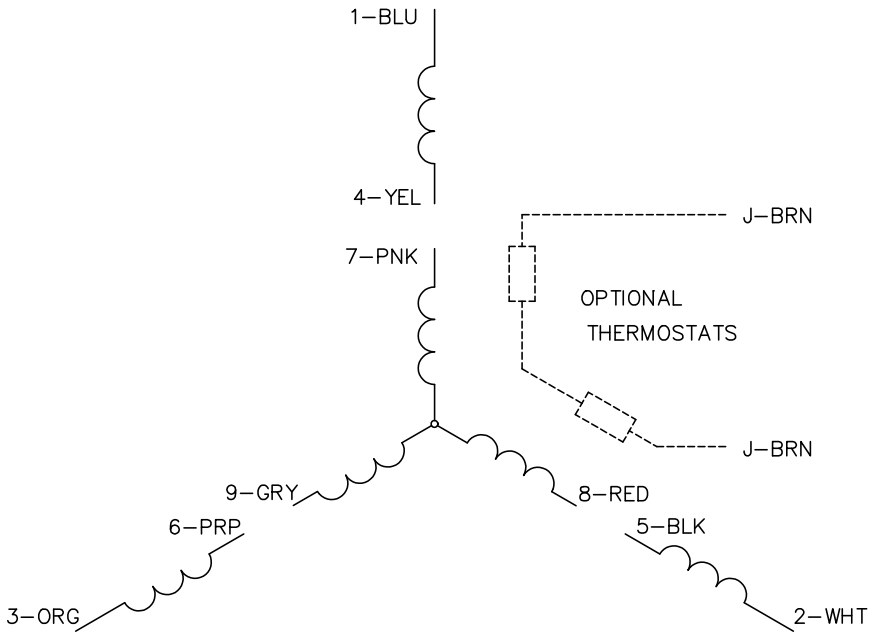
Typical performance - not guaranteed values.

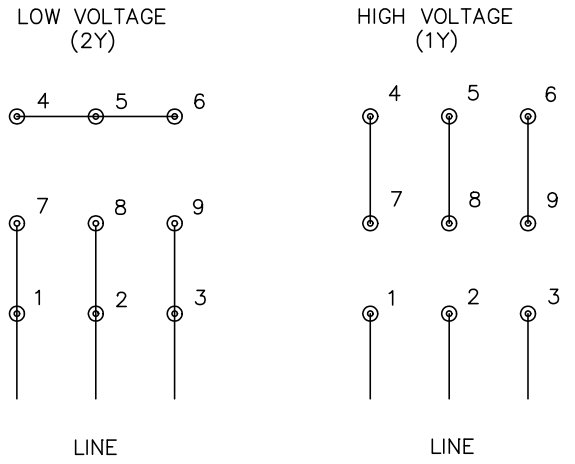
TORQUES(LB-FT): PO=23.2 PU=11.9 LR=13.6 LRA=16




36LYA002
614-623 = 15.17
624-634 = 16.54
635-646 = 18.04
(635-646 ONLY)
.25
2.62
4.27
GREASE FITTING
(EACH END)
2.75
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.500
8.497
Ø8.60
8.85
Ø1.1250
1.1245
6 HOLES
Ø.41
4.50
3.50
5.50
.50
6.50
Ø7.86
6.89
45°
45°
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 37
REV: L
VERSION: 05
REVISED: 04:26:16 09/20/2019
TDR: 000001120280
MODEL NO. 36LYA002
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
STD HORZ FACE MTD 182-4TC TEFC 36M
36LYA002

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS