ABB BALDOR RELIANCE

Customer information packet

EM3218T-57

5HP, 1450RPM, 3PH, 50HZ, 184T, 3646M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	184T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ
	400.0 V @ 50 HZ
Agency Approvals	CE
	CURUS
	IE3
	UKCA
	WEEE
	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	8.000 A @ 400.0 V
	14.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	H
Type	AC
Mech. spec.	36B001
Base	
Status	PRD/A
Elec. spec.	36WGR998
Layout	36LYB001
Eff. date	11-05-2026
CD Diagram	CD0022
Poles	04
Leads	6#14
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	75
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	1.15
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	1450 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

NP2716L									
CAT NO	EM3218T-57								
SPEC.	36B001R998G1								
HP	5/3.7KW					**PH**	3		
VOLTS	230/400								
AMP	14/8								
R.P.M. (1/MIN)	1450								
FRAME	184T		**HZ**	50			**I.P.**	23	
SER.F.	1.15	**CODE**	K	**DES**	B		**CL**	F	
NOM.EFF.	88.4			**% (100%)**					
PF	75								
RATING	40C AMB-CONT				**CC**				
DE BRG	6206		**ODE**	6205					
ENCL	OPEN	**SN**							
BLANK	IE3 89.0(75%)88.0(50%)								
	46KG IC01								

AC Induction Motor Performance Data
Record # 54640
Typical performance - not guaranteed values

Winding: 36WGR998-R001	**Type:** 3646M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			5
Volts			230/400
Full Load Amps			14/8
R.P.M.			1450
Hz	50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	88.4	**Power Factor**	75
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	18.07 LB-FT
Start Configuration	direct on line
Breakdown Torque	67.85 LB-FT
Pull-up Torque	35.59 LB-FT
Locked-rotor Torque	43.26 LB-FT
Starting Current	57.27 A
No-load Current	3.64 A
Line-line Res. @ 25ºC	1.91 Ω
Temp. Rise @ Rated Load	82°C
Temp. Rise @ S.F. Load	102°C
Locked-rotor Power Factor	44
Rotor inertia	0.428 LB-FT2

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	64	76	82	85	86	79
Efficiency	84.3	89	89.5	88.5	87.1	85.1	88.1
Speed	1489	1476	1464	1449	1434	1416	1444
Line amperes	4.03	4.94	6.21	7.77	9.57	11.58	8.87

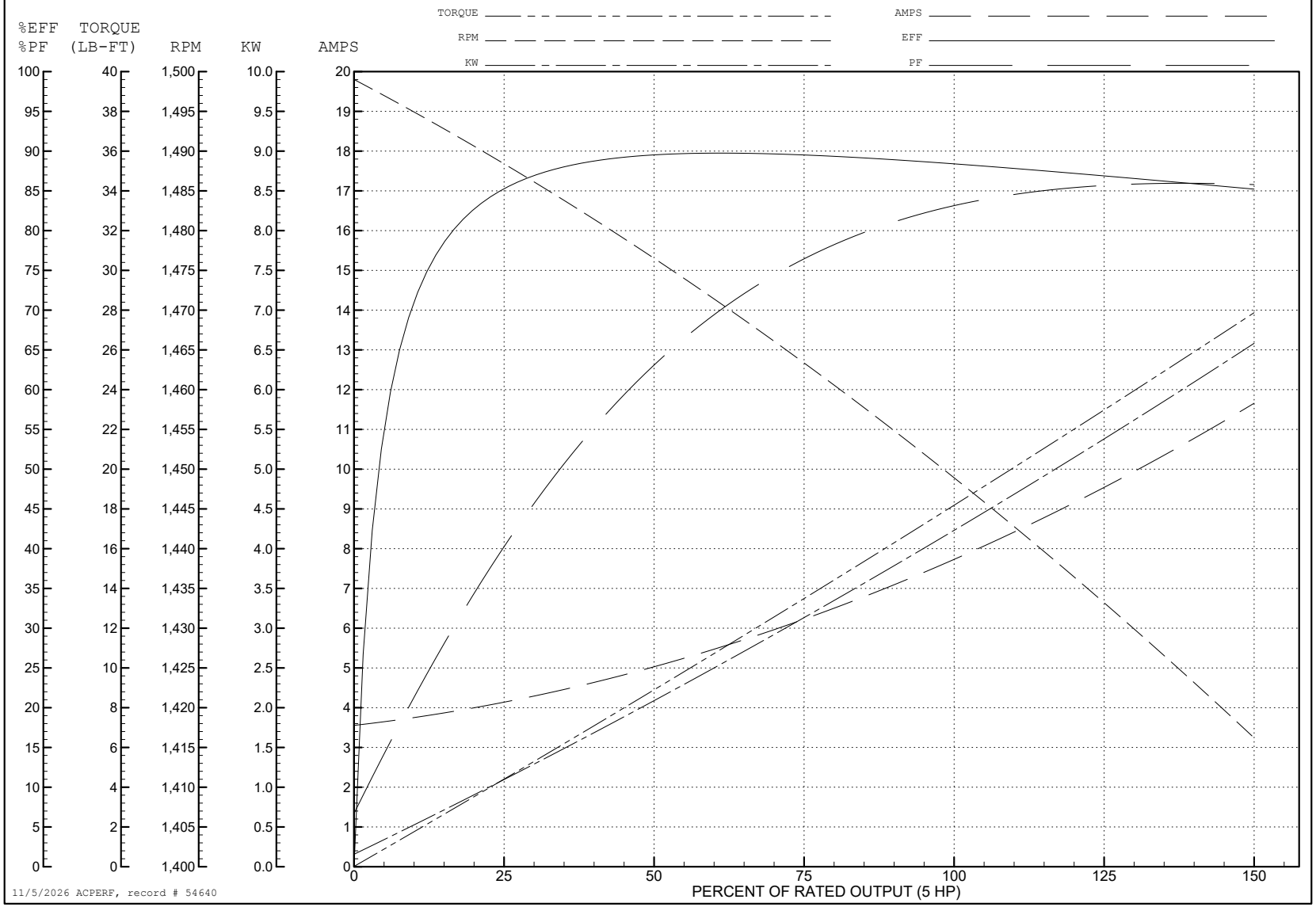
ABB Motors and Mechanical Inc.

WINDING # 36WGR998

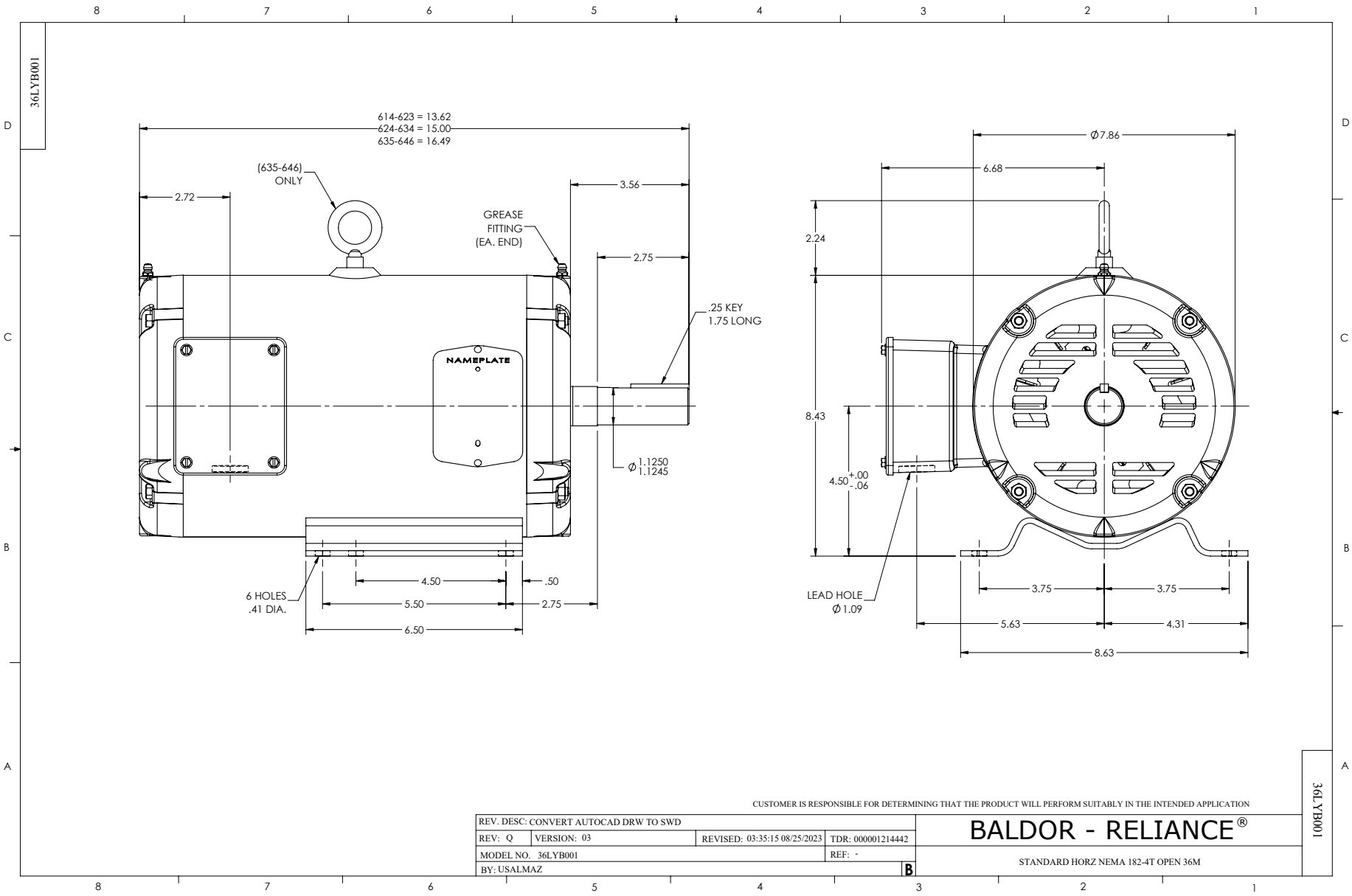
5 HP 3 PH 50 HZ 1450 RPM 380 V 3646M

Typical performance - not guaranteed values.

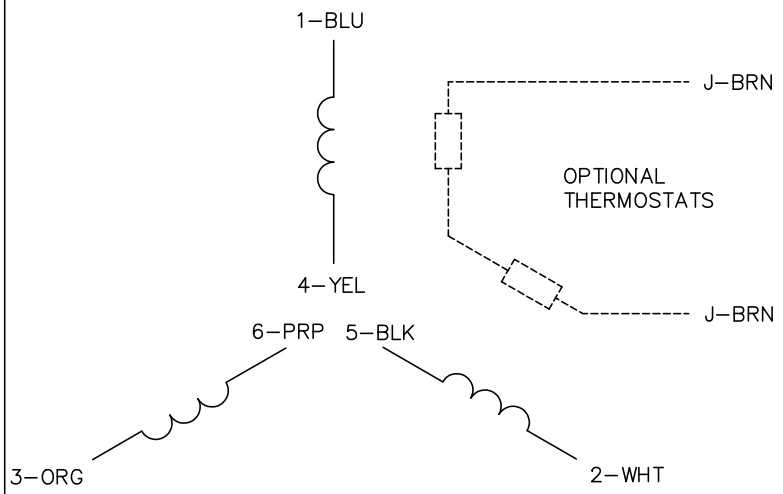
TORQUES(LB-FT): PO=67.85 PU=35.59 LR=43.26 LRA=57.27

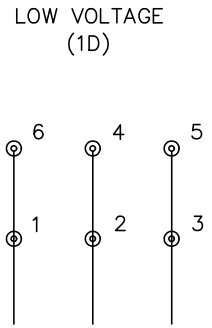


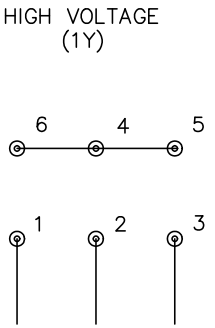
11/5/2026 ACPERF, record # 54640


36LYB001
614-623 = 13.62
624-634 = 15.00
635-646 = 16.49
(635-646) ONLY
2.72
3.56
GREASE FITTING (EA. END)
2.75
.25 KEY 1.75 LONG
NAMEPLATE
Ø 1.1250 1.1245
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.86
6.68
2.24
8.43
4.50 +.00 -.06
LEAD HOLE Ø 1.09
3.75
3.75
5.63
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: Q
VERSION: 03
REVISED: 03:35:15 08/25/2023
TDR: 000001214442
MODEL NO. 36LYB001
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STANDARD HORZ NEMA 182-4T OPEN 36M
36LYB001

CD0022







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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022