ABB BALDOR RELIANCE

Customer information packet

EM3555T-57

2HP, 2900RPM, 3PH, 50HZ, 145T, 3532M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	143T
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	2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ
	400.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	IE3
	UKCA
	WEEE
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	2.900 A @ 400.0 V
	5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	M
Type	AC
Mech. spec.	35TT638
Base	
Status	PRD/A
Elec. spec.	35WGQ064
Layout	35LYTT638
Eff. date	04-16-2025
CD Diagram	CD0022
Poles	02
Leads	6#18
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
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	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.17 IN
Power Factor	88
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	1.00
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	2900 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	EM3555T-57										
SPEC.	35TT638Q064G1										
HP	2/1.5KW						**PH**	3			
VOLTS	230/400										
AMP	5/2.9										
R.P.M. (1/MIN)	2900										
FRAME	143T		**HZ**	50				**I.P.**	44		
SER.F.	1.00	**CODE**	M	**DES**	B			**CL**	B		
NOM.EFF.	84.2			**% (100%)**							
PF	88										
RATING	40C AMB-CONT					**CC**					
DE BRG	6205		**ODE**	6203							
ENCL	TEFC	**SN**									
BLANK	IE3-83.5(75%)79.8(50%)										
	23KG IC411										

AC Induction Motor Performance Data
Record # 54635
Typical performance - not guaranteed values

Winding: 35WGQ064-R005	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3.55 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			5/2.9	**Breakdown Torque**	17.8 LB-FT
R.P.M.			2900	**Pull-up Torque**	11.5 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	16.4 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	30.7 A
Service Factor (S.F.)			1	**No-load Current**	1.4 A
NEMA Nom. Eff.	84.2	**Power Factor**	88	**Line-line Res. @ 25ºC**	4.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.0876 LB-FT2

Load Characteristics 400 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	50	71	83	88	90	92
Efficiency	70.4	80.6	83.9	84.9	84.8	84
Speed	2976	2954	2931	2908	2881	2855
Line amperes	1.53	1.87	2.3	2.84	3.42	4.05

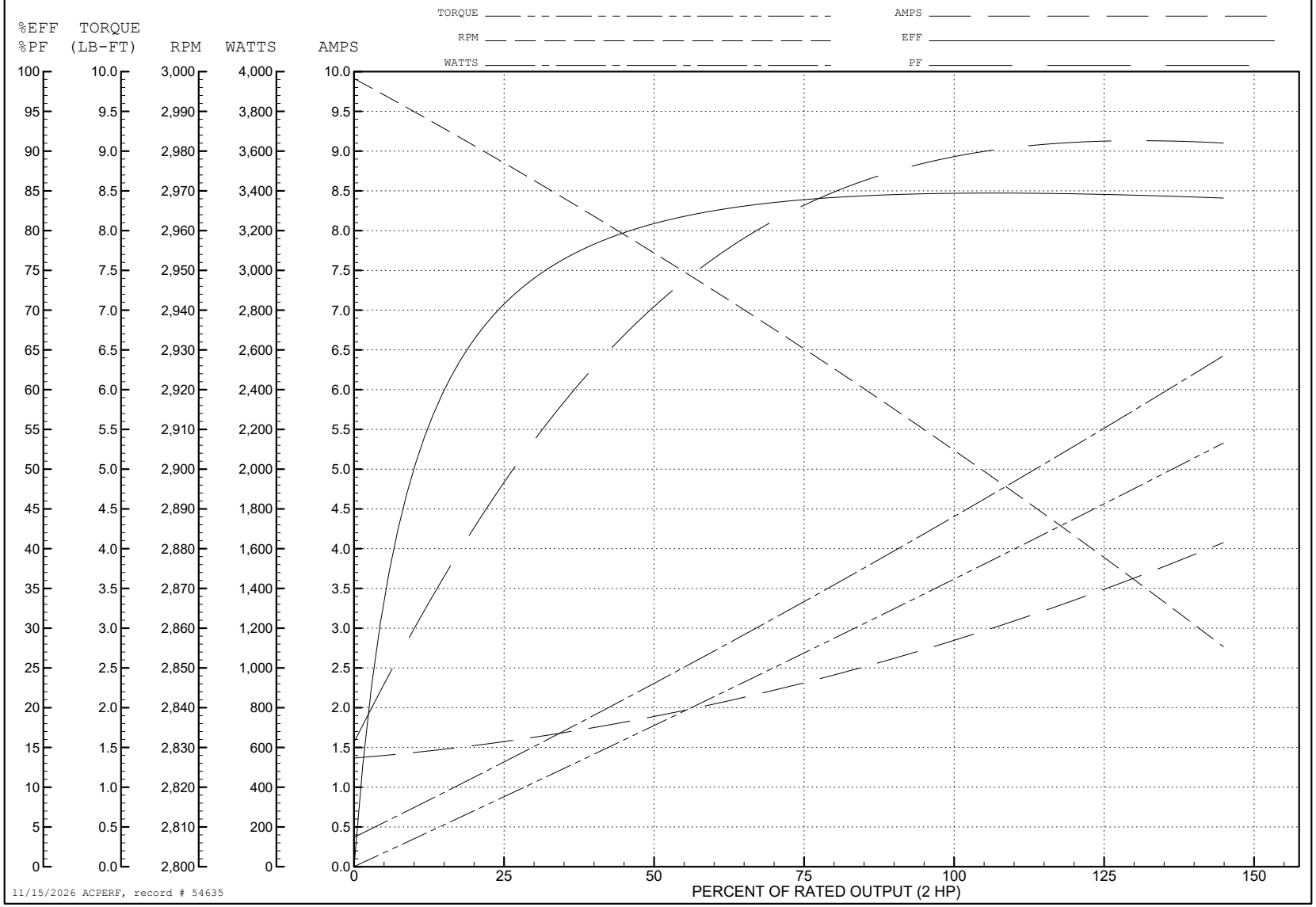
ABB Motors and Mechanical Inc.

WINDING # 35WGQ064

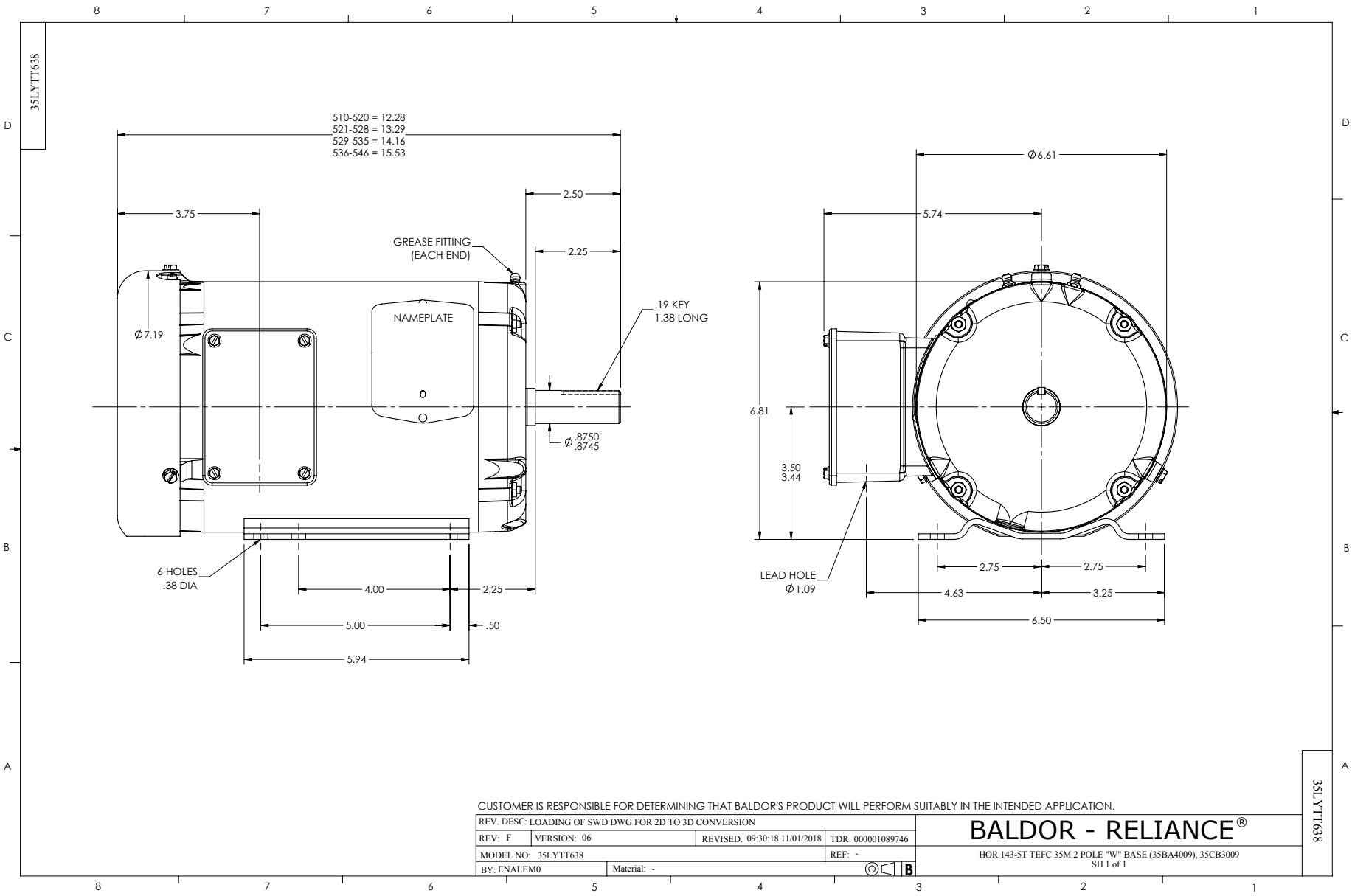
2 HP 3 PH 50 HZ 2900 RPM 400 V 3532M

Typical performance - not guaranteed values.

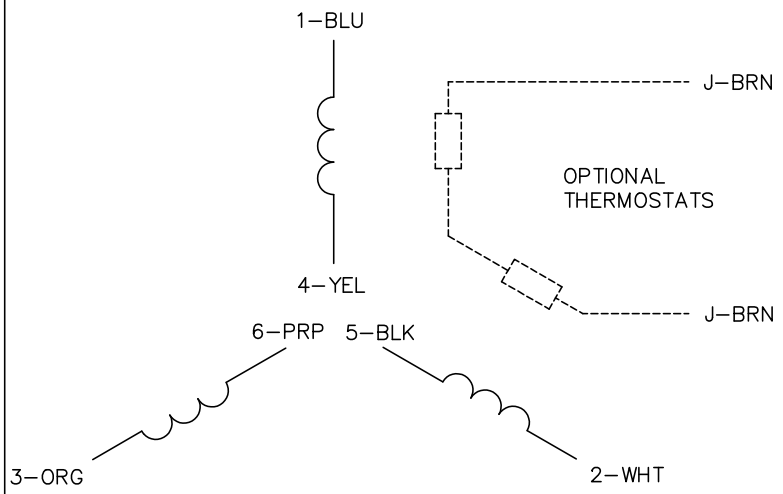
TORQUES(LB-FT): PO=17.8 PU=11.5 LR=16.4 LRA=30.7

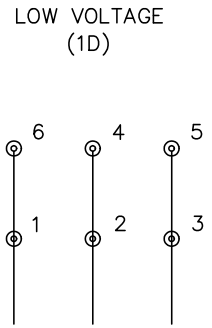


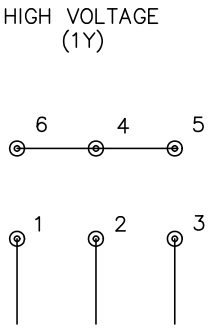
11/15/2026 ACPERF, record # 54635


35LYTT638
510-520 = 12.28
521-528 = 13.29
529-535 = 14.16
536-546 = 15.53
3.75
2.50
2.25
GREASE FITTING
(EACH END)
NAMEPLATE
.19 KEY
1.38 LONG
Ø7.19
Ø.8750
.8745
6 HOLES
.38 DIA
4.00
2.25
5.00
.50
5.94
Ø6.61
5.74
6.81
3.50
3.44
LEAD HOLE
Ø1.09
2.75
2.75
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION
REV: F
VERSION: 06
REVISED: 09:30:18 11/01/2018
TDR: 000001089746
MODEL NO: 35LYTT638
REF: -
BY: ENALEM0
Material: -
B
BALDOR - RELIANCE®
HOR 143-5T TEFC 35M 2 POLE "W" BASE (35BA4009), 35CB3009
SH 1 of 1
35LYTT638

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