ABB BALDOR RELIANCE

Customer information packet

EM3550T-57

1.5HP, 2850RPM, 3PH, 50HZ, 143T, 3524M, TEFC, F
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/15/2026 11:17:57 AM

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	1.500 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	2.300 A @ 400.0 V
	4.000 A @ 230.0 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

Part Detail

Revision	K
Type	AC
Mech. spec.	35TT638
Base	
Status	PRD/A
Elec. spec.	35WGP217
Layout	35LYTT638
Eff. date	05-07-2024
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	2.3 a
Insulation Class	B
Inverter Code	Inverter Ready
KVA Code	L
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	3524M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.29 IN
Power Factor	84
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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2850 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	EM3550T-57										
SPEC.	35TT638P217G2										
HP	1.5/1.1KW						**PH**	3			
VOLTS	230/400										
AMP	4/2.3										
R.P.M. (1/MIN)	2850										
FRAME	143T		**HZ**	50				**I.P.**	44		
SER.F.	1.15	**CODE**	L	**DES**	B			**CL**	B		
NOM.EFF.	85.5			**% (100%)**							
PF	84										
RATING	40C AMB-S1 CONT					**CC**					
DE BRG	6205		**ODE**	6203							
ENCL	TEFC	**SN**									
BLANK	IE3-85.5(75%)84.1(50%)										
	IC411 20KG										

AC Induction Motor Performance Data
Record # 54624
Typical performance - not guaranteed values

Winding: 35WGP217-R006	**Type:** 3524M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.78 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			4/2.3	**Breakdown Torque**	11.3 LB-FT
R.P.M.			2850	**Pull-up Torque**	9.61 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	12.1 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	20.2 A
Service Factor (S.F.)			1.15	**No-load Current**	0.949 A
NEMA Nom. Eff.	85.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	7.48 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	55.1
				Rotor inertia	0.0664 LB-FT2

Load Characteristics 400 V, 50 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	70	81	85	88	91	87
Efficiency	76.9	84.5	85.8	85.9	84.7	82.9	85.2
Speed	2969	2943	2916	2888	2856	2823	2869
Line amperes	1.11	1.42	1.79	2.26	2.75	3.24	2.55

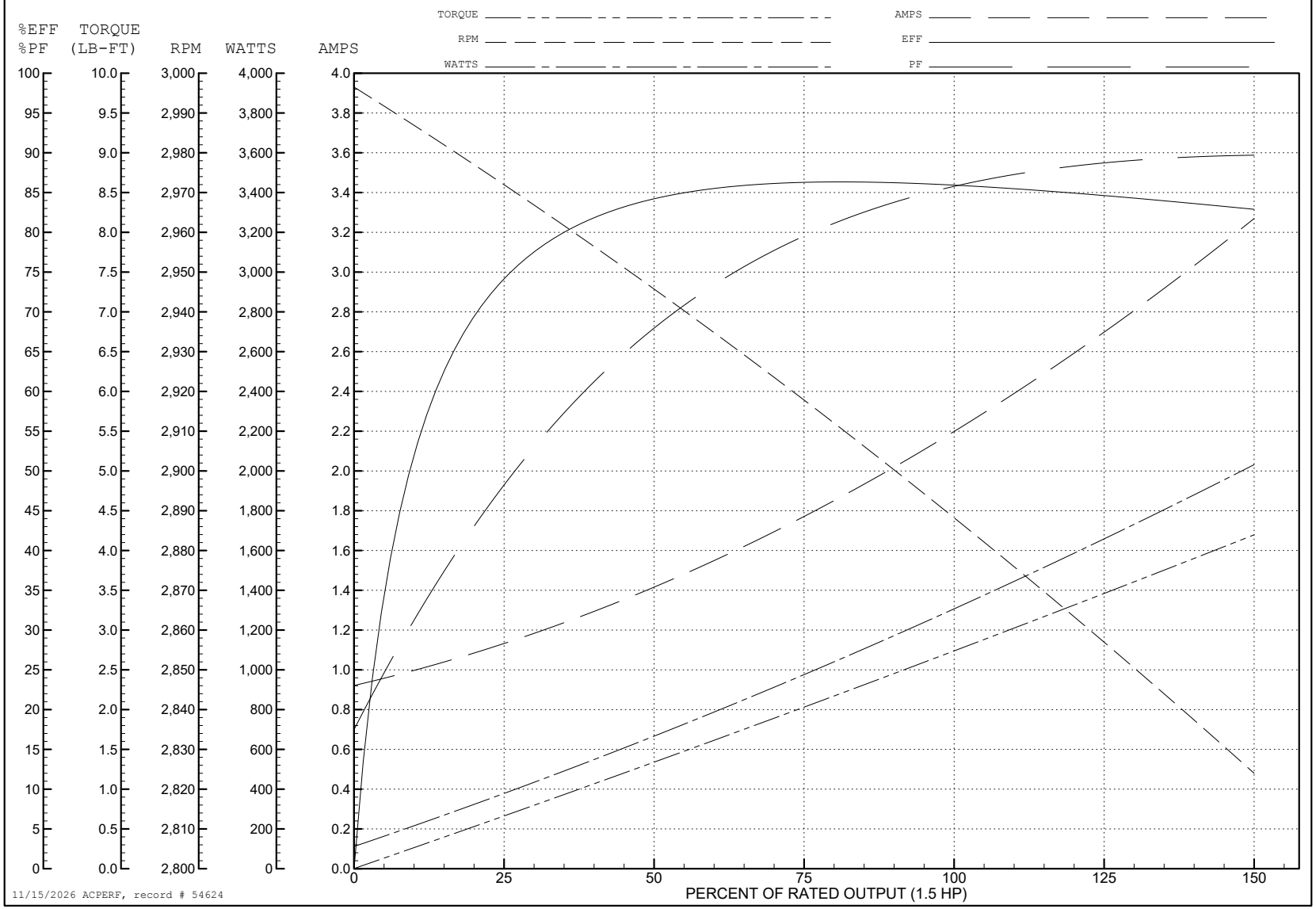
ABB Motors and Mechanical Inc.

WINDING # 35WGP217

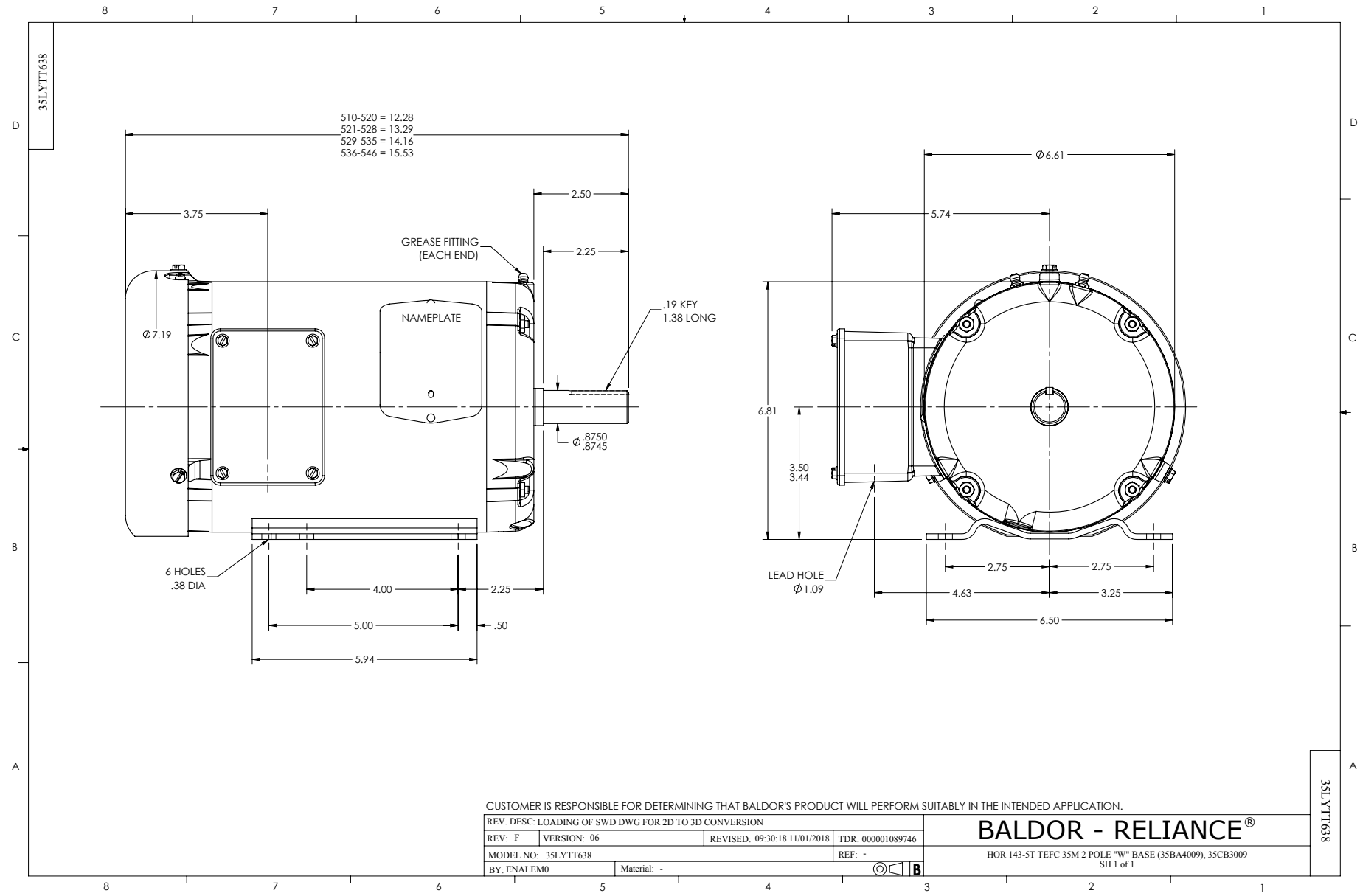
1.5 HP 3 PH 50 HZ 2850 RPM 400 V 3524M

Typical performance - not guaranteed values.

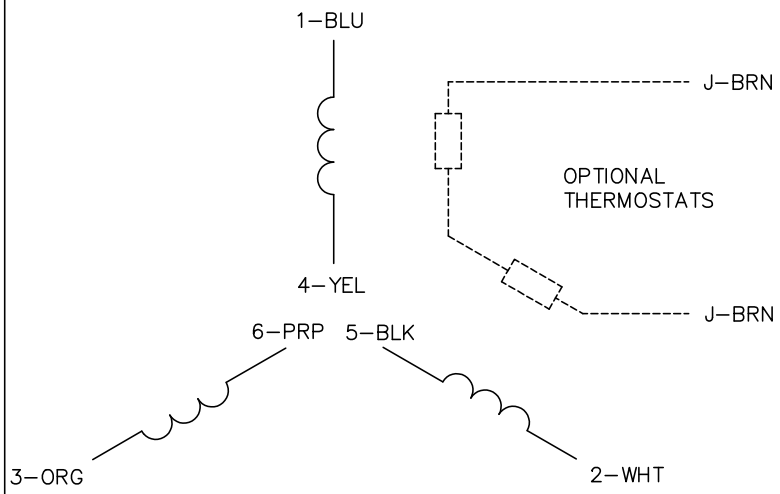
TORQUES(LB-FT): PO=11.3 PU=9.61 LR=12.1 LRA=20.2

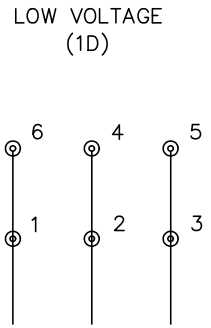


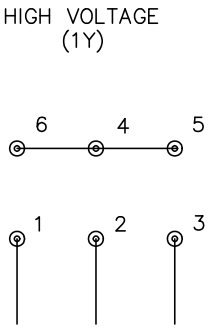
11/15/2026 ACPERF, record # 54624


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