

BALDOR • RELIANCE

Customer information packet

VSPM3158T

3HP, 3465RPM, 3PH, 60HZ, 145TC, 3540M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA_PREMIUM WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.900 A @ 230.0 V 7.900 A @ 208.0 V 3.450 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	-
Type	AC
Mech. spec.	35E6388
Base	
Status	PRD/A
Elec. spec.	35WGZ969
Layout	35LYE6388
Eff. date	10-17-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-05-2024

High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.38 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3465 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

NP4423A01A01L											
CAT #	VSPM3158T			WGT	64	LBS					
SPEC	35E6388Z969			ENCL	OPSB						
SER #				CC	010A	IP	22				
HP	3	MAG CUR		2.18/1.09							
VOLTS	230/460			NEMA NOM. EFF			88.5				
AMPS	6.9/3.45			PF	92						
RATING	40C AMB-CONT										
RPM	3465			MAX RPM		5400					
FRAME	145TC	HZ	60	CODE	K	CLASS		F			
SER.F.	1.15	SF AMP	7.96/3.98		PH	3	DES	B			
DE	6205		ODE		6203						
LUBRICATION	POLYREX EM										
ID LOGO	INVERTER TYPE		VPWM		CHP	60	TO	90	1.5:1		
ID LOGO	WK2	0.11	CT	6	TO	60	10:1				
ID LOGO	SL HZ	2.25	VT	3	TO	60	20:1				
				QR							
YR											

AC Induction Motor Performance Data

Record # 100814

Preliminary Data Sheet

Winding: 35WGZ969-R002		Type: 3540M		Enclosure: ODP	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		3	Full Load Torque		4.53 lb-ft
Volts		230/460	Start Configuration		direct on line
Full Load Amps		6.9/3.45	Breakdown Torque		21.4 lb-ft
R.P.M.		3465	Pull-up Torque		12.2 lb-ft
Hz	60 Phase	3	Locked-rotor Torque		19.3 lb-ft
NEMA Design Code	B KVA Code	K	Starting Current		34.6 A
Service Factor (S.F.)		1.15	No-load Current		1.29 A
NEMA Nom. Eff.	88.5 Power Factor	92	Line-line Res. @ 25°C		4.7 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		32°C
S.F. Amps		7.96/3.98	Temp. Rise @ S.F. Load		68°C
			Locked-rotor Power Factor		42.1
			Rotor inertia		0.0885 lb-ft ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	79	86	90	92	92	91
Efficiency	74	82.8	85.4	86	85.7	84.8	85.8
Speed	3568	3541	3513	3483	3450	3414	3463
Line amperes	1.6	2.16	2.86	3.63	4.48	5.39	4.14

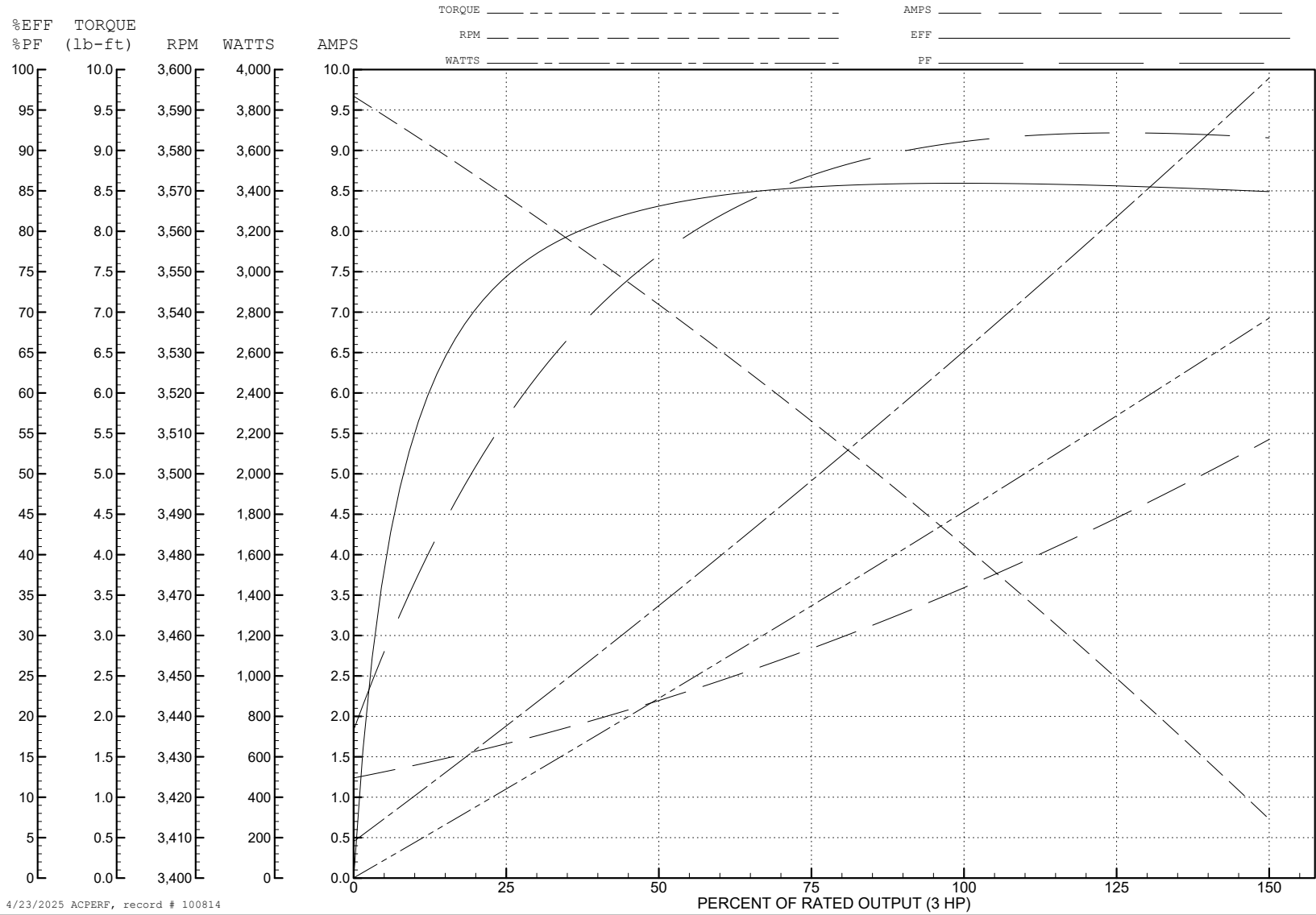
ABB Motors and Mechanical Inc.

WINDING # 35WGZ969

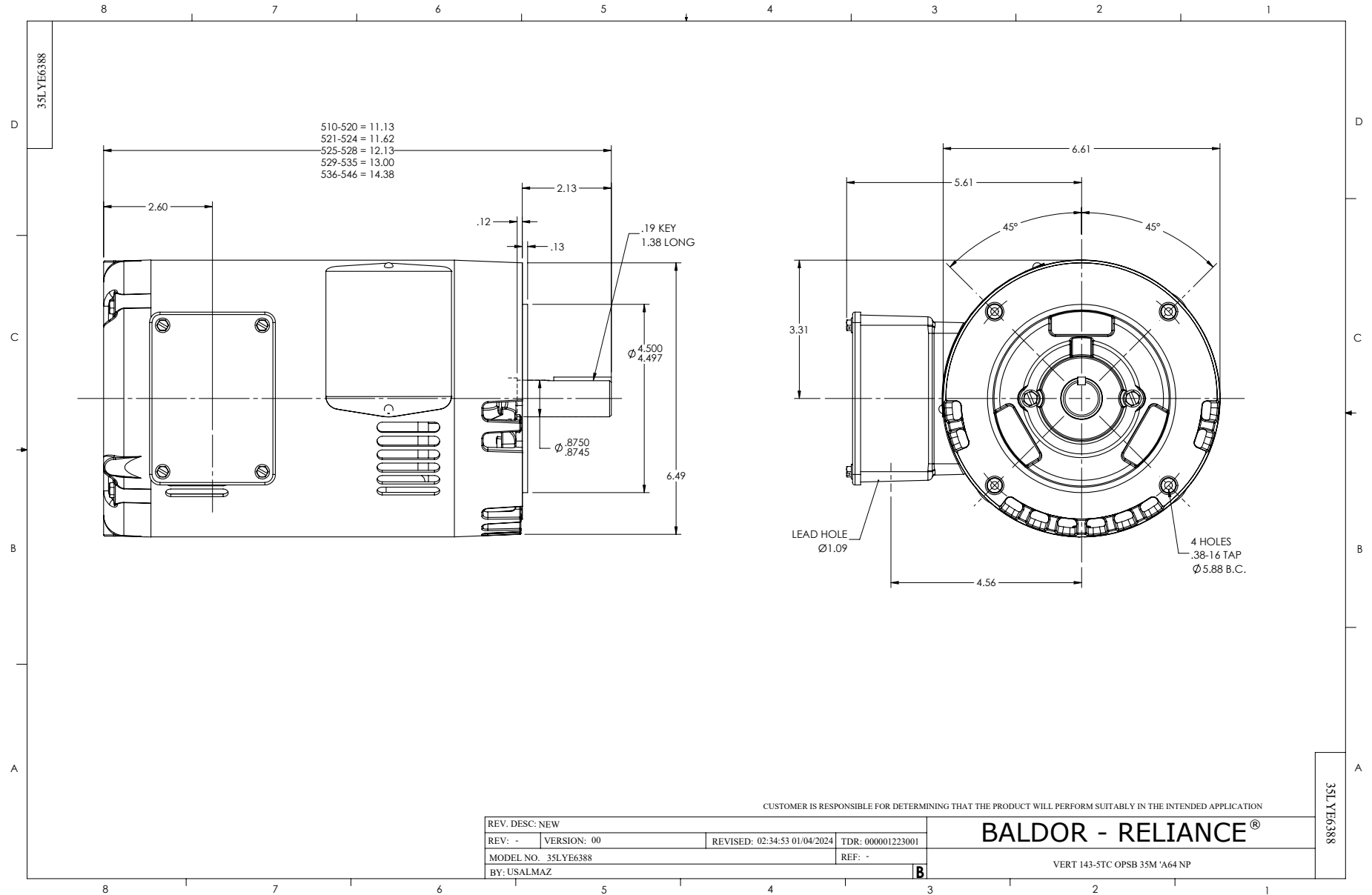
3 HP 3 PH 60 HZ 3465 RPM 460 V 3540M

Typical performance - not guaranteed values.

TORQUES(lb-ft): PO=21.4 PU=12.2 LR=19.3 LRA=34.6



4/23/2025 ACPERF, record # 100814



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS