



Customer information packet

EM2514T-G

20HP, 3510RPM, 3PH, 60HZ, 254T, 3928M, OPSB, F1

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 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	CSA EEV UR CSA
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	23.500 A @ 460.0 V 47.000 A @ 230.0 V 51.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	Y
Type	AC
Mech. spec.	39E366
Base	
Status	PRD/A
Elec. spec.	39WGX101
Layout	39LYE366
Eff. date	12-09-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	11-29-2011

High Voltage Full Load Amps	23.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3928M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.69 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3510 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

NP3553LUA

CAT.NO.	EM2514T-G						
SPEC.	39E366X101G1						
HP	20						
VOLTS	230/460						
AMPS	47/23.5						
RPM	3510						
FRAME	254T		HZ	60		PH	3
SF	1.15	CODE	G	DES	A	CLASS	H
NEMA NOM. EFF	91	PF	88				
RATING	40C AMB-CONT						
CC	010A						
ENCL	OPSB	SN					
DE	6309		ODE	6208			
VPWM INVERTER READY							
CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 20HP 190/380V 56/28A						SF1.0

AC Induction Motor Performance Data

Record # 36295

Typical performance - not guaranteed values

Winding: 39WGX101-R010				Type: 3928M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		20		Full Load Torque		29.6 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		47/23.5		Breakdown Torque		111 LB-FT		
R.P.M.		3510		Pull-up Torque		36.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		50.6 LB-FT		
NEMA Design Code		B		KVA Code	G		Starting Current	153 A
Service Factor (S.F.)		1.15		No-load Current		8.61 A		
NEMA Nom. Eff.		91		Power Factor	88		Line-line Res. @ 25°C	0.512 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps						Temp. Rise @ S.F. Load		54°C
						Locked-rotor Power Factor		30
						Rotor inertia		0.715 LB-FT ²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	83	87	89	89	88
Efficiency	84.7	90.1	91.2	91	90.1	89.1	90.5
Speed	3581	3563	3544	3522	3496	3472	3506
Line amperes	10.2	13.9	18.1	23.3	29.1	35	26.78

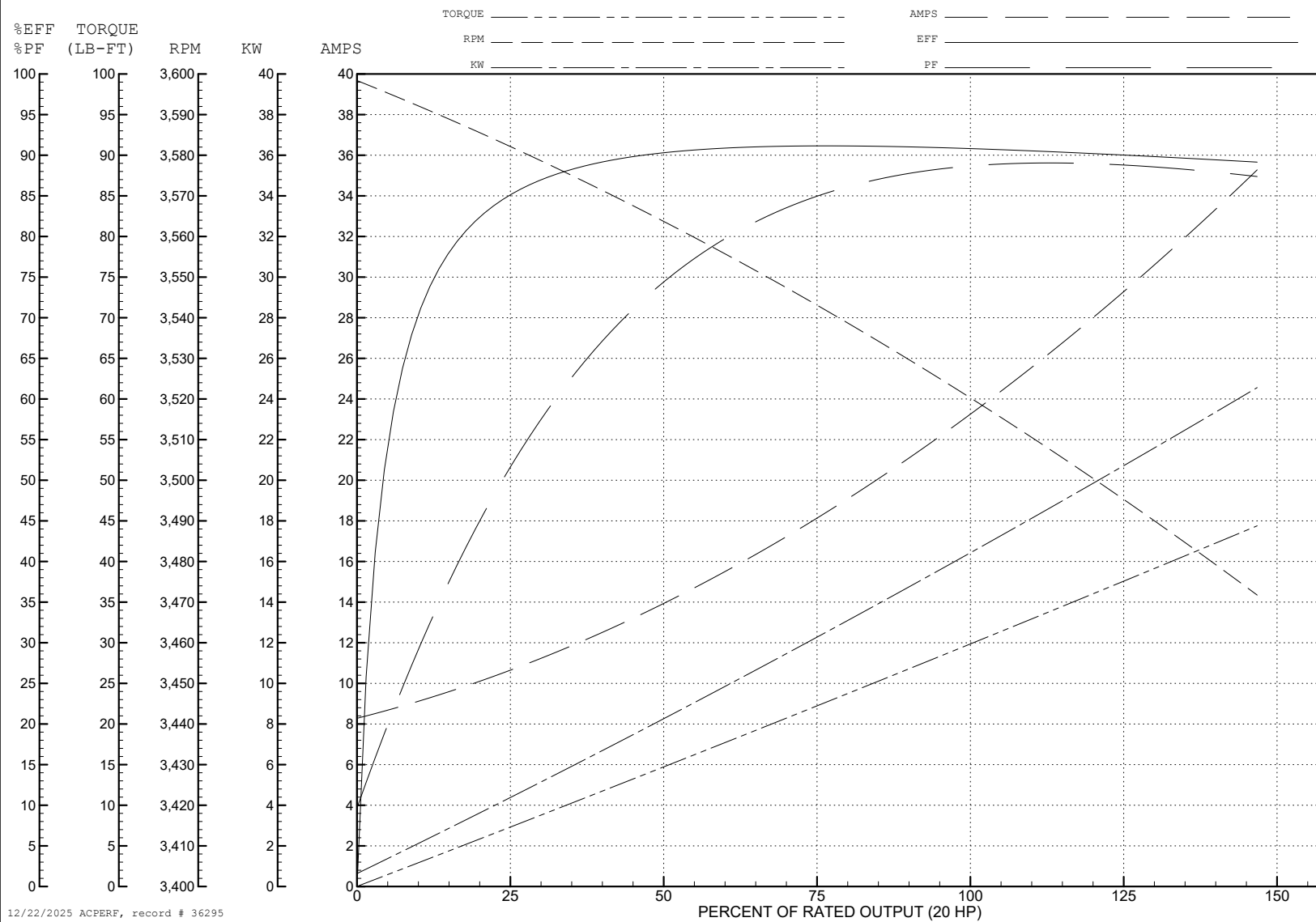
ABB Motors and Mechanical Inc.

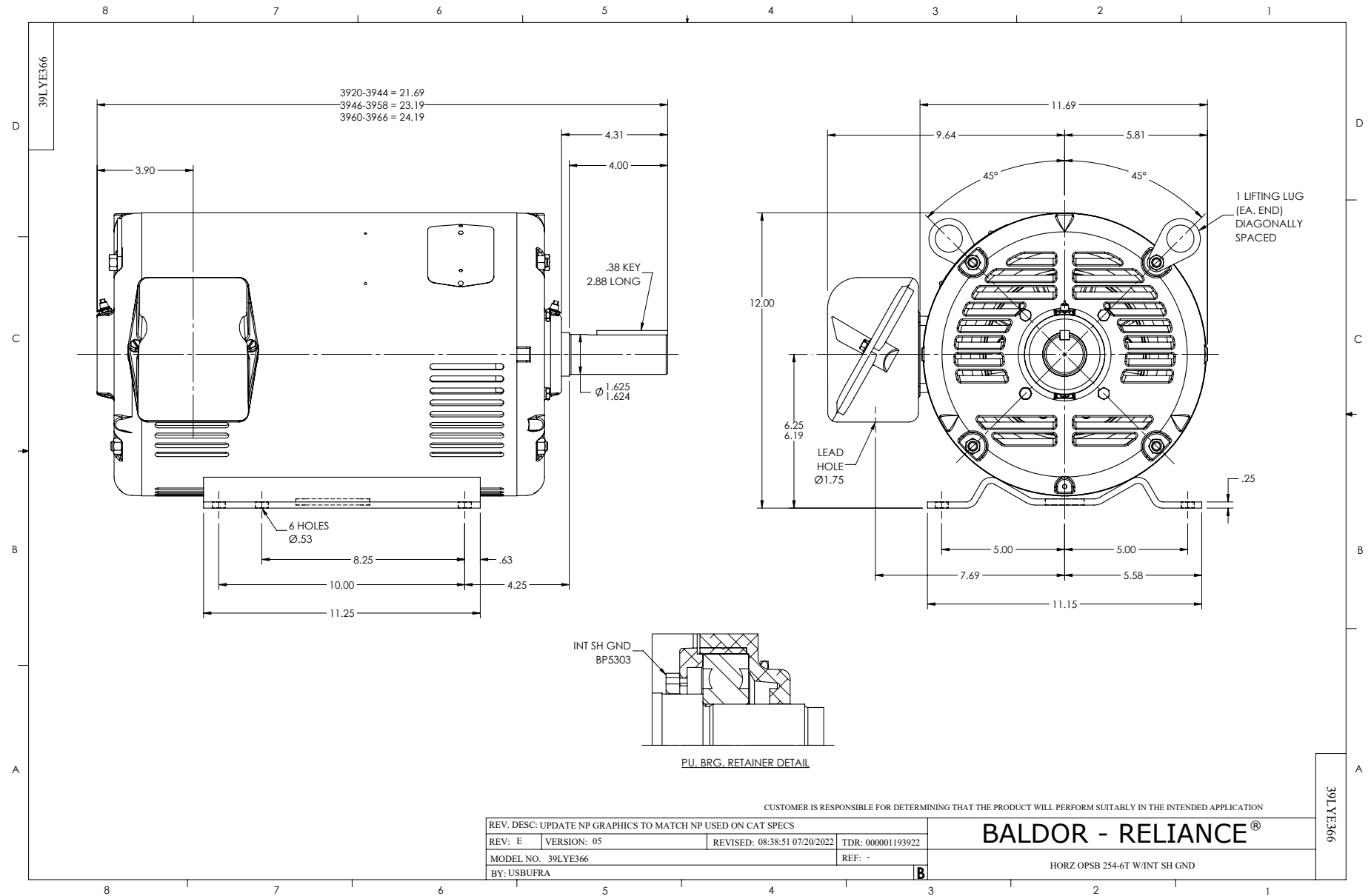
WINDING # 39WGX101

Typical performance - not guaranteed values.

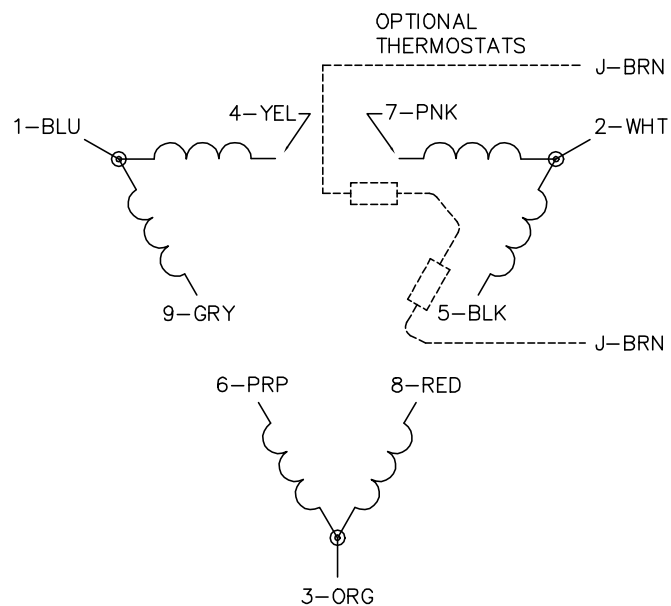
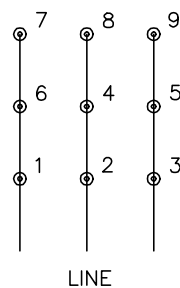
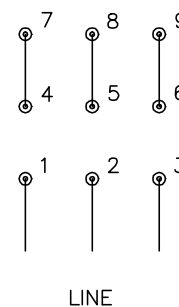
20 HP 3 PH 60 HZ 3510 RPM 460 V 3928M

TORQUES (LB-FT): PO=111 PU=36.1 LR=50.6 LRA=153





CD0180

LOW VOLTAGE
(2D)HIGH VOLTAGE
(1D)

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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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