

ABB BALDOR RELIANCE III

Customer information packet

EJMM2516T-G

38M 2P OPSB HOR 256JM SE

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256JM
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	62.000 A @ 208.0 V 56.000 A @ 230.0 V 28.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	39E447
Base	
Status	PRD/A
Elec. spec.	39WGX424
Layout	39LYE447
Eff. date	12-11-2025
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	04-03-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP23
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3938M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.19 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3515 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554LUA												
CAT.NO.	EJMM2516T-G				P/N						ENCL	OPSE
SPEC.	39E447X424G4		CC	010A		FRAME	256JM		SER.NO.			
HP	25			CLASS		H	HZ	60				
RPM	3515			PH	3	DES		A				
VOLTS	230/460				CODE		G	ODE BRG		6208	DE BRG	6309
AMPS	56/28											
RATING	40C AMB-CONT			NEMA-NOM-EFF				91.7	GREASE		POLYREX EM	
PF	89	SER.F.	1.15			CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 25HP 190/380V 68/34A					SF1.0						
HTR-VOLTS	HTR-AMPS		MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 36405

Typical performance - not guaranteed values

Winding: 39WGX424-R006				Type: 3938M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		37.2 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		56/28		Breakdown Torque		148 LB-FT	
R.P.M.		3515		Pull-up Torque		54.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		77.2 LB-FT	
NEMA Design Code		B	KVA Code	Starting Current		197 A	
Service Factor (S.F.)		1.15		No-load Current		8.48 A	
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		0.38245 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps				Temp. Rise @ S.F. Load		57°C	
				Locked-rotor Power Factor		29	
				Rotor inertia		0.971 LB-FT2	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	79	86	89	90	90	90
Efficiency	87.5	91.8	92.3	91.7	90.7	89.4	91.1
Speed	3578.1	3559.4	3538.9	3515.1	3490	3461	3500
Line amperes	13.1	15.8	21.8	28.4	35.6	43.3	32.7

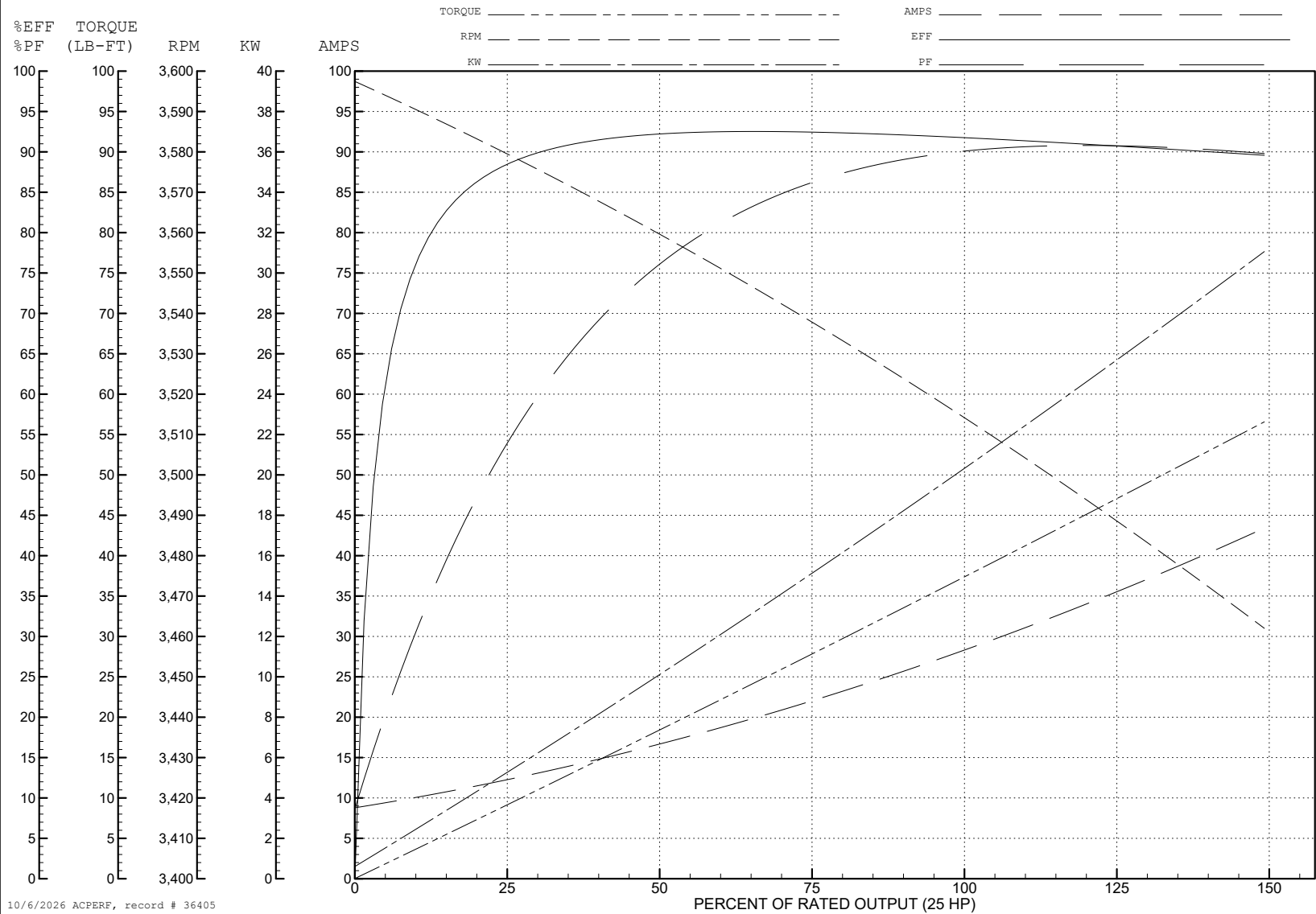
ABB Motors and Mechanical Inc.

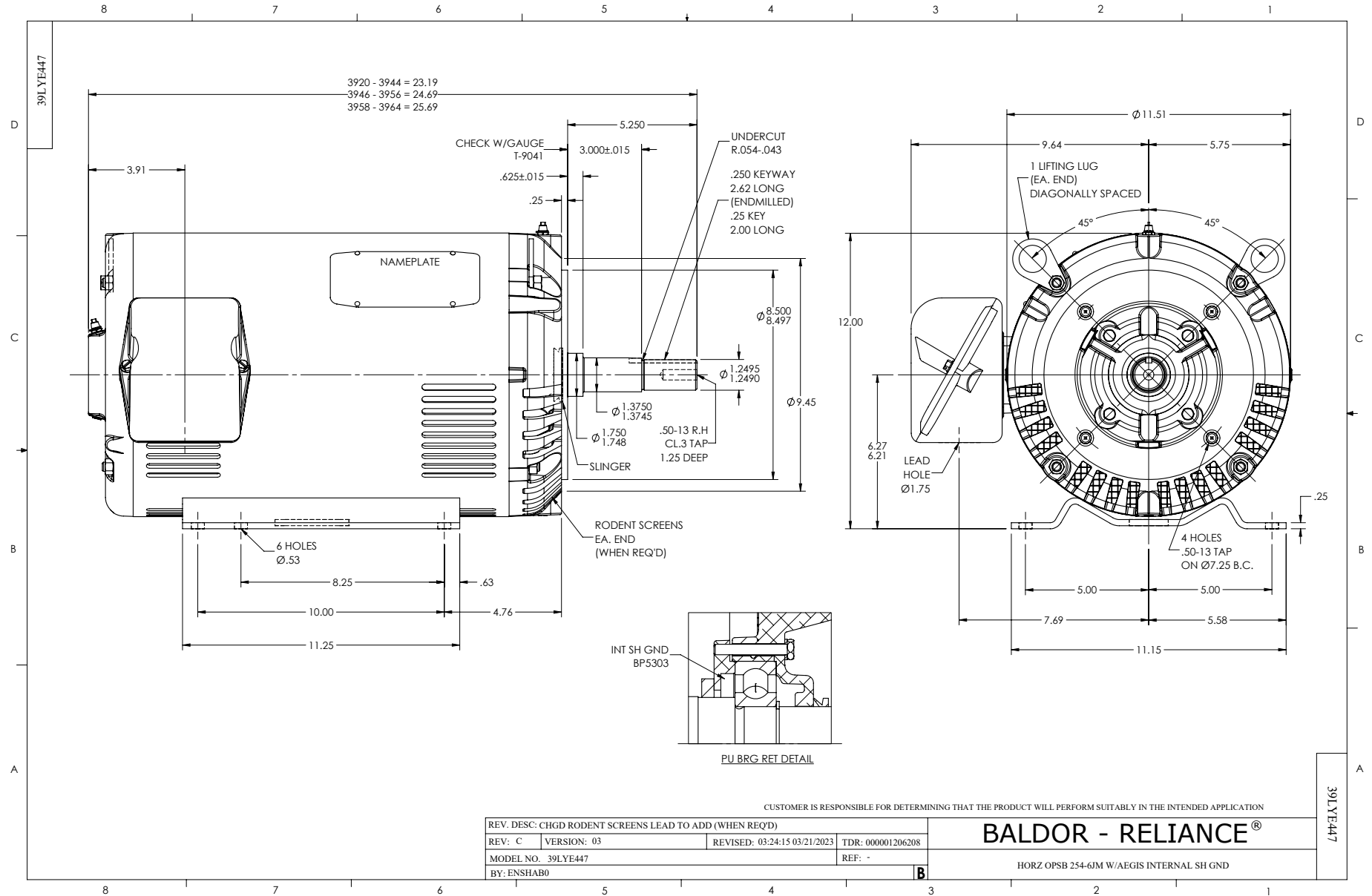
WINDING # 39WGX424

Typical performance - not guaranteed values.

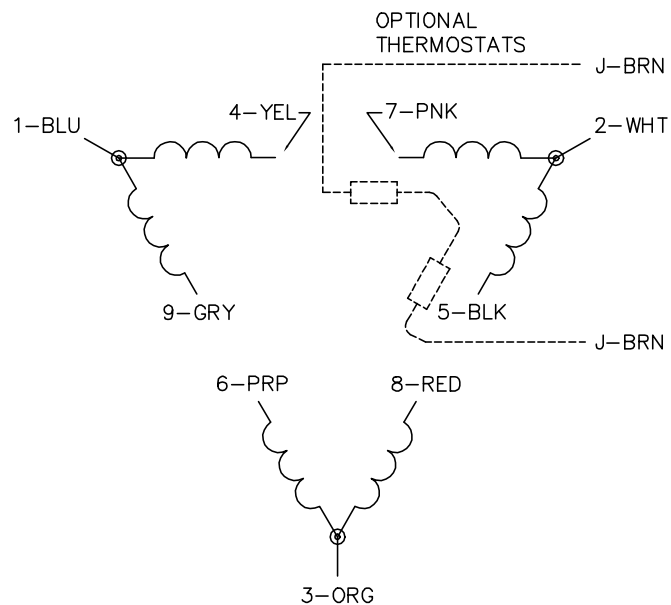
25 HP 3 PH 60 HZ 3515 RPM 460 V 3938M

TORQUES (LB-FT): PO=148 PU=54.9 LR=77.2 LRA=197

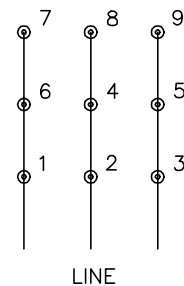




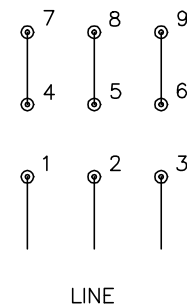
CD0180



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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