

ABB BALDOR RELIANCE III

Customer information packet

EM2506T-G

7.5HP, 1180RPM, 3PH, 60HZ, 254T, 3950M, OPSB, F

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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	11.000 A @ 460.0 V 22.400 A @ 230.0 V 23.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	Z
Type	AC
Mech. spec.	39E366
Base	
Status	PRD/A
Elec. spec.	M-39WG-X747
Layout	39LYE366
Eff. date	02-11-2026
CD Diagram	CD0180
Poles	06
Leads	9#12,0#0,0#0
Proprietary	False
Created date	11-29-2011

High Voltage Full Load Amps	11.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	H
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	3950M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	70
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	1180 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

NP1259LUA									
CAT.NO.	EM2506T-G								
SPEC.	39E366X747G1								
HP	7.5								
VOLTS	230/460								
AMPS	22.8/11.4								
R.P.M.	1180								
FRAME	254T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	A	CLASS	H		
NEMA NOM. EFF.	90.2		P.F.	68					
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6208					
ENCL	OPSB	SN							
USABLE AT	50HZ 7.5HP 190/380V 26.4/13.2A							SF1.0	

AC Induction Motor Performance Data

Record # 70941

Typical performance - not guaranteed values

Winding: 39WGX747-R002			Type: 3950M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		33.36 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		22.8/11.4	Breakdown Torque		110 LB-FT			
R.P.M.		1180	Pull-up Torque		42.6 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		61.2 LB-FT		
NEMA Design Code		A	KVA Code	K	Starting Current		76.9 A	
Service Factor (S.F.)		1.15	No-load Current		6.51 A			
NEMA Nom. Eff.		90.2	Power Factor		68	Line-line Res. @ 25°C		1.0034 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		27°C	
S.F. Amps					Temp. Rise @ S.F. Load		32°C	
					Locked-rotor Power Factor		26.3	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	61	68	72	74	70
Efficiency	82	88.7	90.4	90.7	90.4	89.6	90.5
Speed	1195.7	1192.4	1188.2	1183.9	1179.4	1174.3	1181
Line amperes	6.99	8.06	9.59	11.4	13.5	15.9	12.7

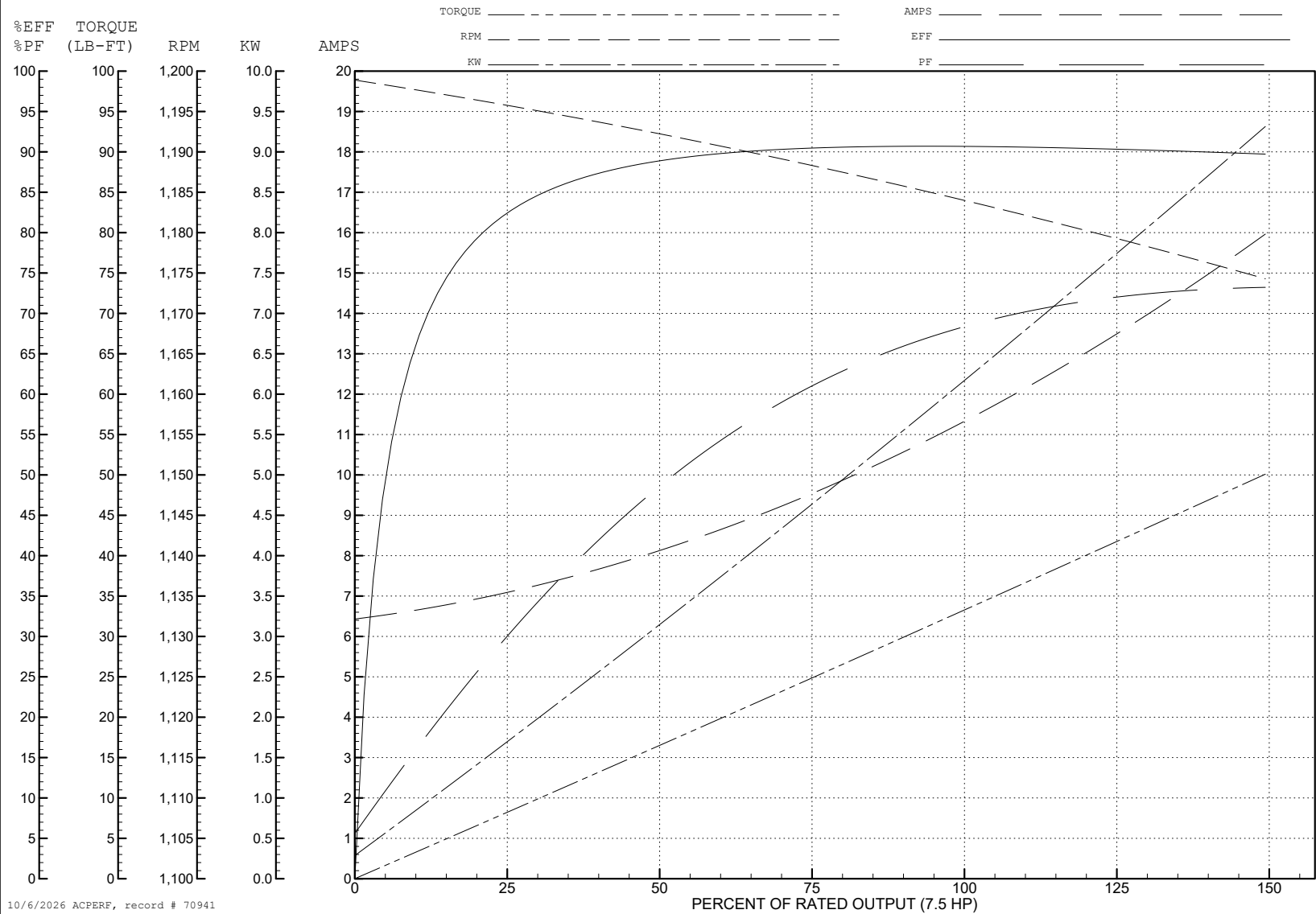
ABB Motors and Mechanical Inc.

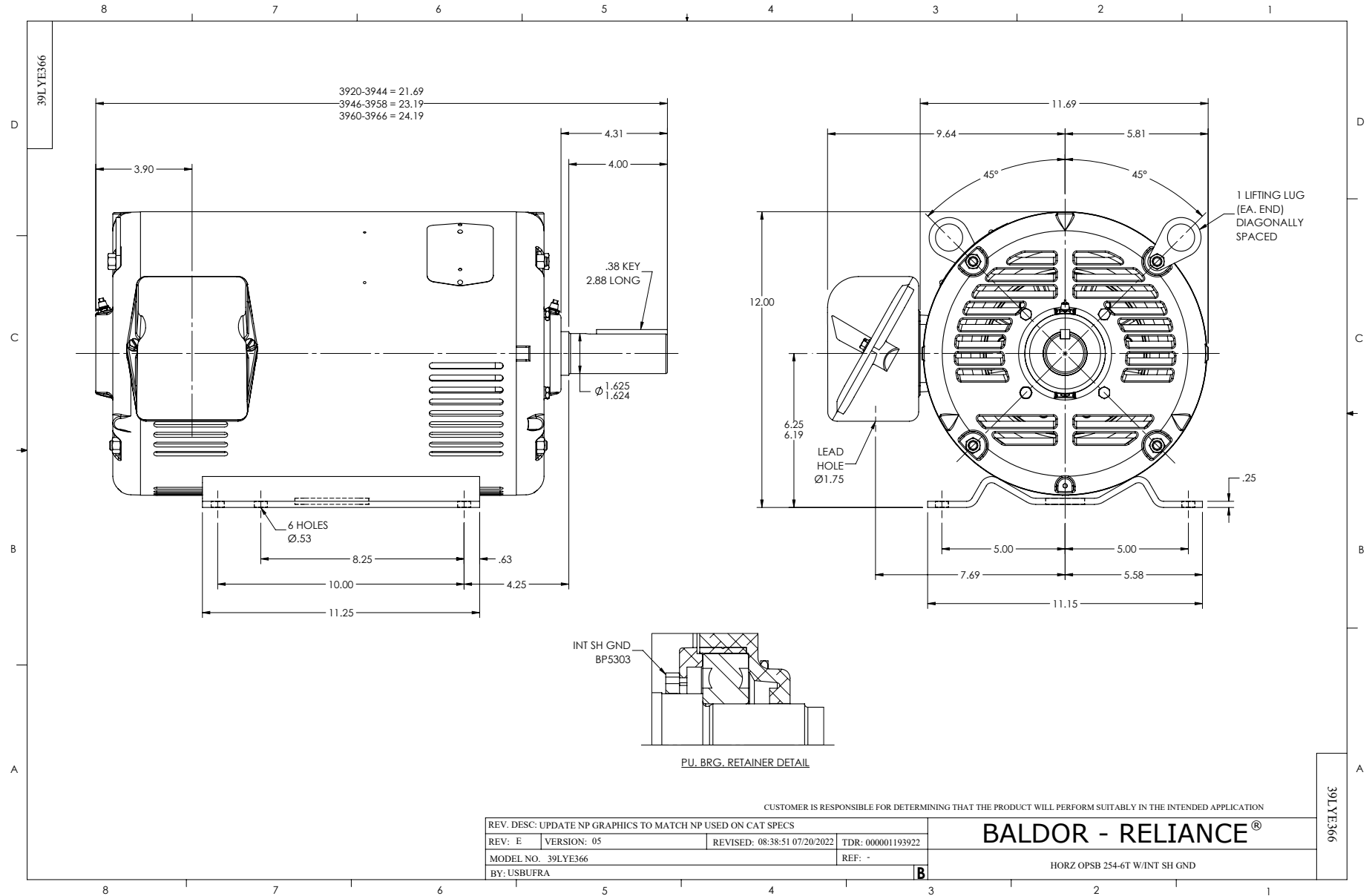
WINDING # 39WGX747

Typical performance - not guaranteed values.

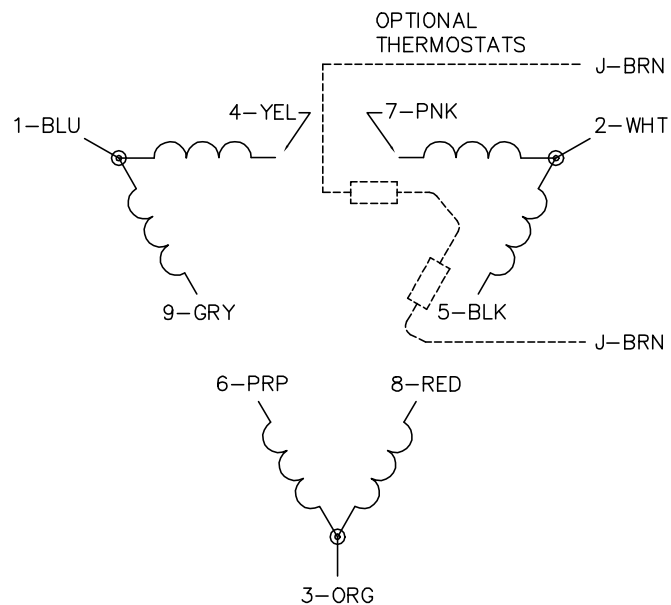
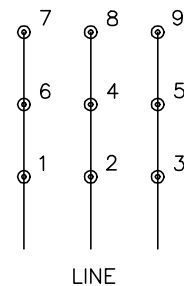
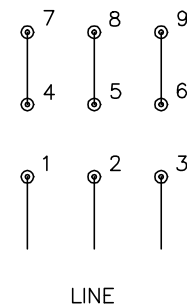
7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3950M

TORQUES (LB-FT): PO=110 PU=42.6 LR=61.2 LRA=76.9





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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