

BALDOR® • RELIANCE 

Product Information Packet

EM2506T-BG

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

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX747	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39E531	Layout:	39LYE531	Poles:	06	Created Date:	10-07-2013
Base:	RG	Eff. Date:	05-10-2021	Leads:	9#12		

Specs			
Catalog Number:	EM2506T-BG	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	H
Frame:	254T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	K
Output @ Frequency:	7.500 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3950M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	68
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	11.400 A @ 460.0 V	Shaft Ground Indicator:	Shaft Grounding
	22.800 A @ 230.0 V	Shaft Rotation:	Reversible
	24.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1259LUA										
CAT.NO.	EM2506T-BG									
SPEC.	39E531X747G1									
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						USABLE AT 208V	24		
DE	6309					ODE	6208			
ENCL	OPSB			SN						
USABLE AT	50HZ 7.5HP 190/380V 26.4/13.2A									
										SF1.0

Parts List		
Part Number	Description	Quantity
SA270437	SA 39E531X747G1	1.000 EA
RA257072	RA 39E531X747G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
39EP3201A22	PU ENDPLATE, MACH	1.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	4.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA
LB1508	LABEL "SHAFT GROUNDING BRUSH" 1.50 X .81	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.030 LB

Parts List (continued)		
Part Number	Description	Quantity
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
HA3154A03	STUD, 3/8-16 X 17.75	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP1259LUA	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA

AC Induction Motor Performance Data

Record # 70941

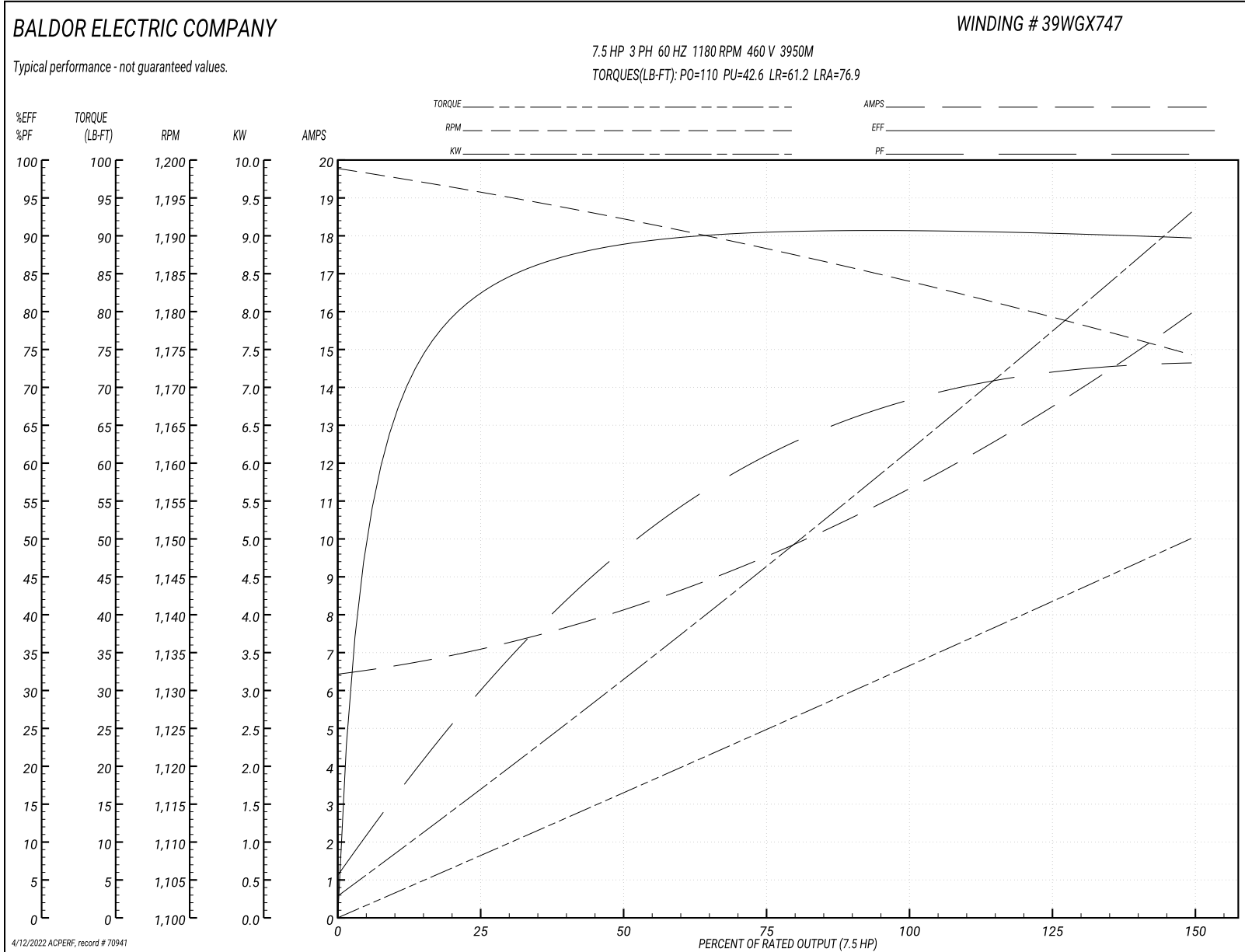
Typical performance - not guaranteed values

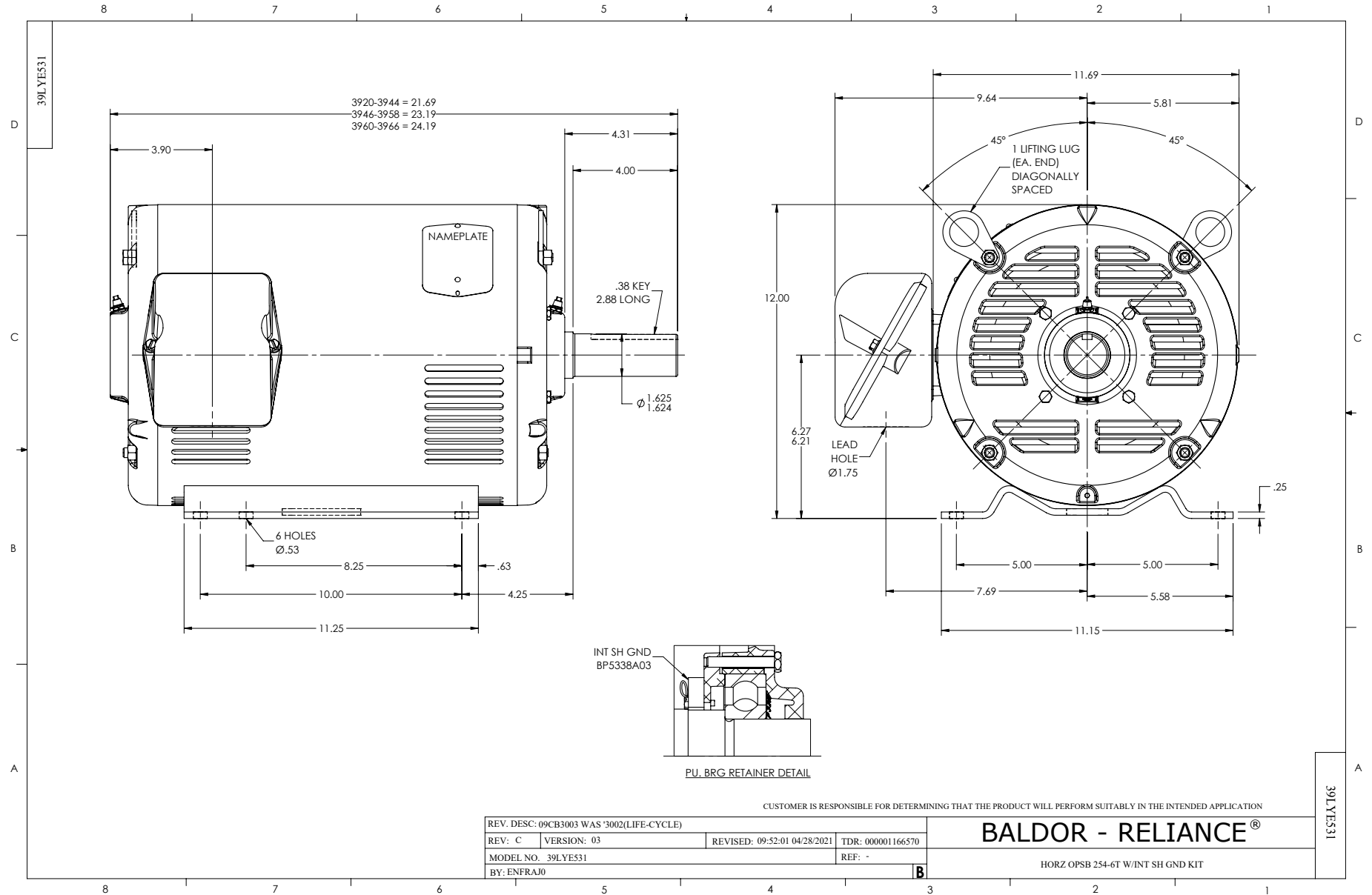
Winding: 39WGX747-R002		Type: 3950M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	7.5	Full Load Torque	33.36 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	22.8/11.4	Breakdown Torque	110 LB-FT		
R.P.M.	1180	Pull-up Torque	42.6 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

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

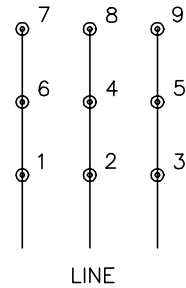




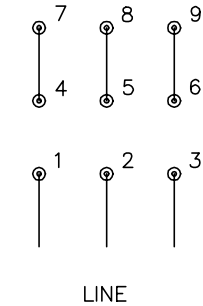
CD0180



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		
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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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