

BALDOR® • RELIANCE 

Product Information Packet

EHM2506T

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

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WG747	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39R006	Layout:	39LYR006	Poles:	06	Created Date:	10-21-2013
Base:	RG	Eff. Date:	05-13-2021	Leads:	9#12		

Specs			
Catalog Number:	EHM2506T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	254T	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	7.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3950M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	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:	No 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
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP2094E06B03	
CAT.NO.	EHM2506T
SPEC.	39R006X747G1
HP	7.5
VOLTS	230/460
AMPS	22.8/11.4
RPM	1180
FRAME	254T
	HZ 60
	PH 3
SER.F.	1.15
	CODE K
	DES A
	CL F
NEMA-NOM-EFF	90.2
	PF 68
RATING	40C AMB-CONT
CC	010A
	USABLE AT 208V 24
DE	6309
	ODE 6208
AUTO	
	MANUAL
	NONE
ENCL	OPSB
	SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA271133	SA 39R006X747G1	1.000 EA
RA257763	RA 39R006X747G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
39EP3201A23	PU ENDPLATE, MACH W/AEGIS SH RING MTG	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	3.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.030 LB
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
HA3154A03	STUD, 3/8-16 X 17.75	4.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.050 GA
LC0181	CONNECTION LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA

AC Induction Motor Performance Data

Record # 31707

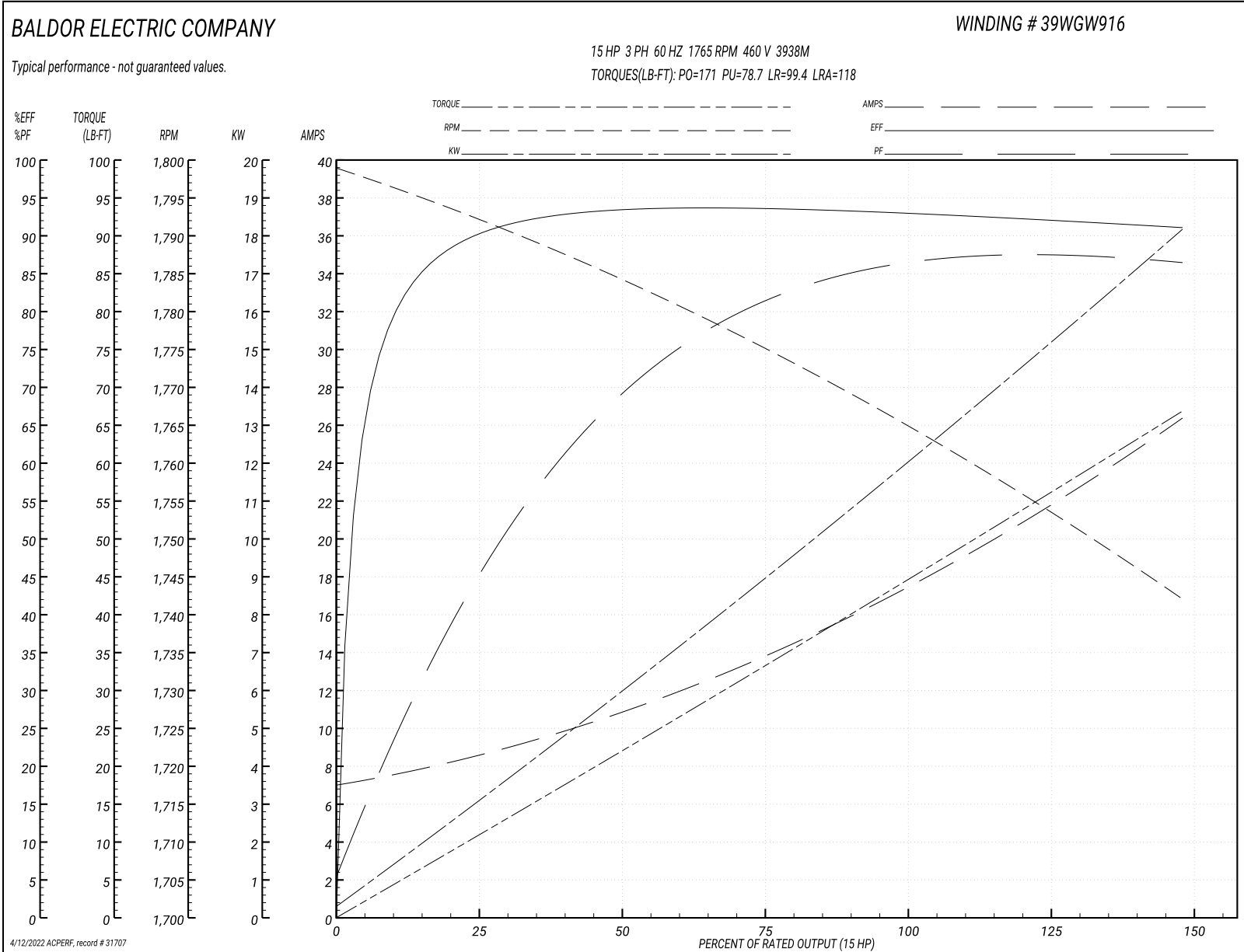
Typical performance - not guaranteed values

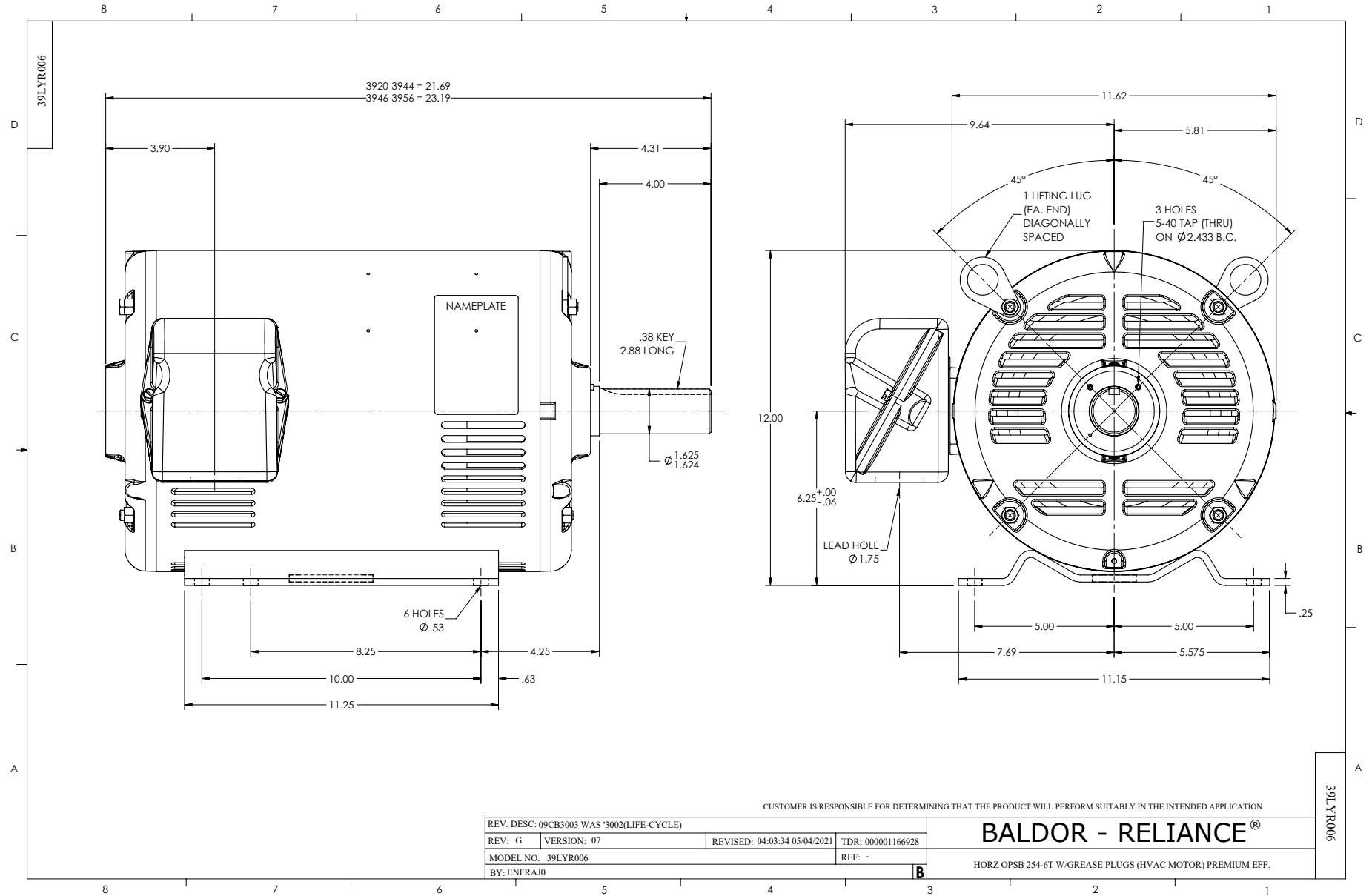
Winding: 39GWG916-R007			Type: 3938M	Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT
Volts		208-230/460	Start Configuration		direct on line
Full Load Amps		37.4-35.4/17.7	Breakdown Torque		171 LB-FT
R.P.M.		1765	Pull-up Torque		78.7 LB-FT
Hz	60 Phase	3	Locked-rotor Torque		99.4 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	118 A
Service Factor (S.F.)		1.15	No-load Current		7.27 A
NEMA Nom. Eff.	93	Power Factor	86	Line-line Res. @ 25°C	0.622 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load	22°C
S.F. Amps				Temp. Rise @ S.F. Load	29°C
				Locked-rotor Power Factor	35
				Rotor inertia	1.66 LB-FT ²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	70	81	86	88	89	87
Efficiency	90.1	93.3	93.5	93.1	92.2	91	92.6
Speed	1792	1784	1775	1765	1754	1742	1759
Line amperes	8.27	10.72	13.99	17.67	21.74	26.21	20.11

Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values

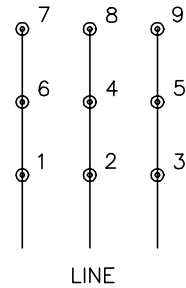




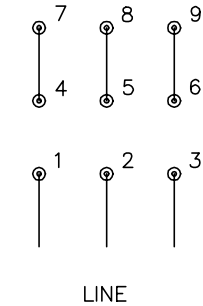
CD0180



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		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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