

BALDOR® • RELIANCE 

Product Information Packet

EHFM2523T

15HP, 1765RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F2

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGY375	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39E172	Layout:	39LYE172	Poles:	04	Created Date:	10-02-2017
Base:	RG	Eff. Date:	05-10-2022	Leads:	9#12		

Specs			
Catalog Number:	EHFM2523T	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	254T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	15.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3948M
XP Division:	Not Applicable	Mounting Arrangement:	F2
Agency Approvals:	CSA	Power Factor:	85
	UR	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:	36.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	38.000 A @ 208.0 V	Shaft Rotation:	Reversible
	18.000 A @ 460.0 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 NP2094E06B03	
CAT.NO.	EHFM2523T
SPEC.	39E172Y375G1
HP	15
VOLTS	230/460
AMPS	36.4/18.2
RPM	1770
FRAME	254T HZ 60 PH 3
SER.F.	1.15 CODE J DES A CL F
NEMA-NOM-EFF	93 PF 83
RATING	40C AMB-CONT
CC	010A USABLE AT 208V 39
DE	6309 ODE 6208
AUTO	MANUAL NONE
ENCL	OPSB SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA345602	SA 39E172Y375G1	1.000 EA
RA334090	RA 39E172Y375G1	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
HA3154A03	STUD, 3/8-16 X 17.75	4.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 LB
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 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 # 93498

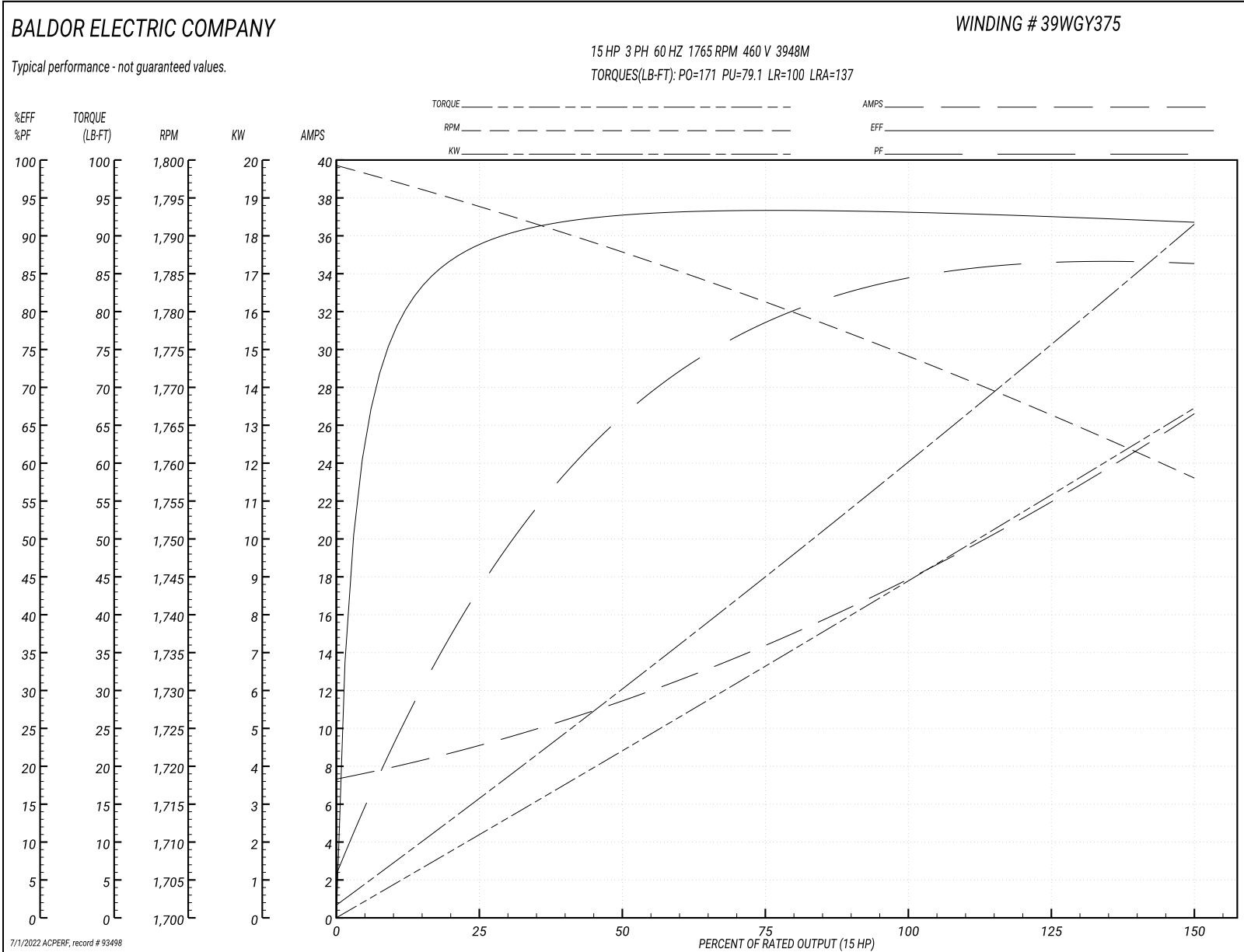
Typical performance - not guaranteed values

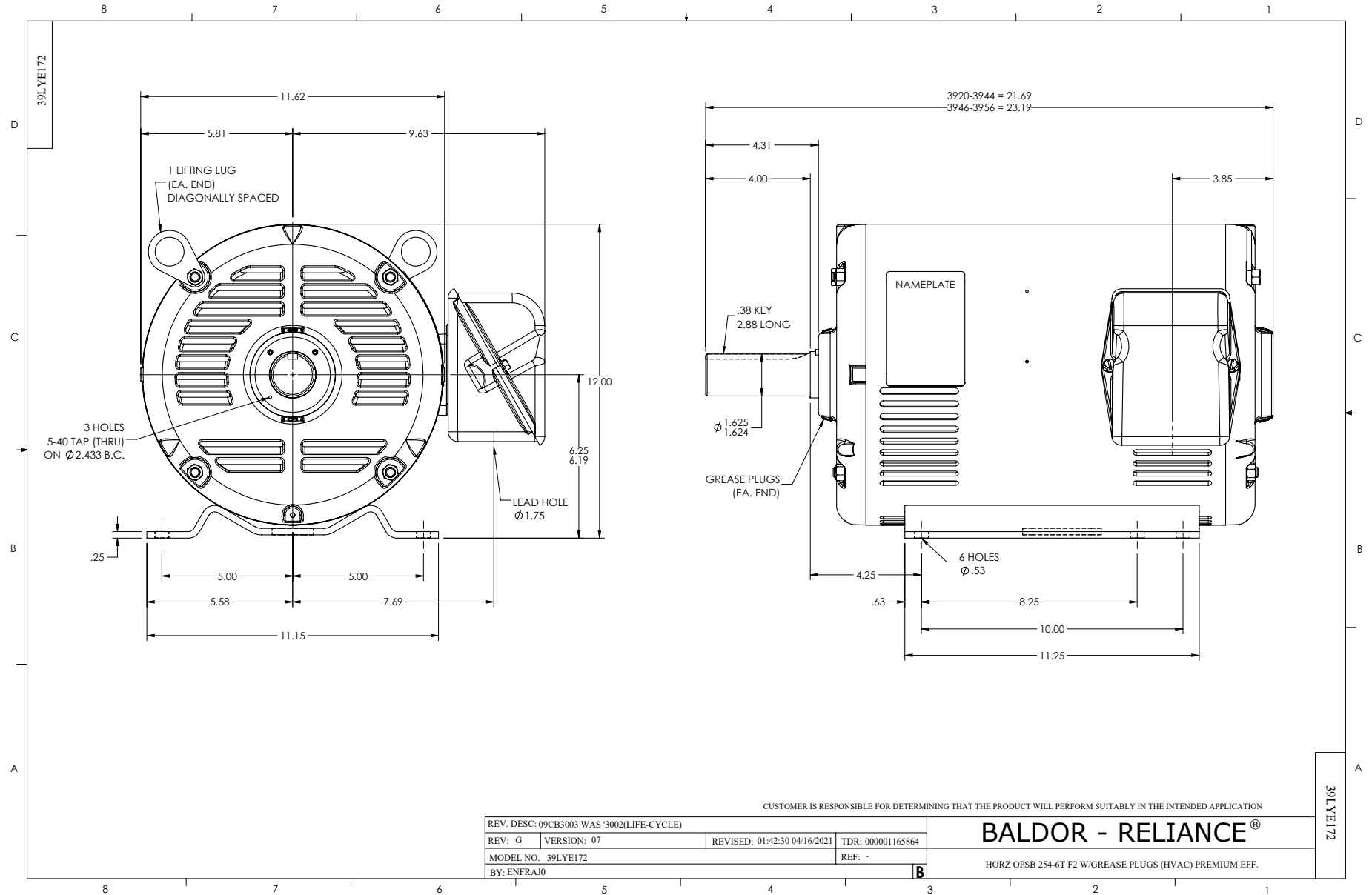
Winding: 39WGY375-R001			Type: 3948M			Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)	15		Full Load Torque	44.57 LB-FT				
Volts	230/460		Start Configuration	direct on line				
Full Load Amps	36/18		Breakdown Torque	171 LB-FT				
R.P.M.	1765		Pull-up Torque	79.1 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	100 LB-FT				
NEMA Design Code	A	KVA Code	J	Starting Current	137 A			
Service Factor (S.F.)	1.15		No-load Current	7.62 A				
NEMA Nom. Eff.	93	Power Factor	85	Line-line Res. @ 25°C	0.5794 Ω			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	29°C				
S.F. Amps			Temp. Rise @ S.F. Load	35°C				
			Locked-rotor Power Factor	32.8				

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	83	86	87	85
Efficiency	88.6	92.6	93.3	93.1	92.5	91.7	92.7
Speed	1794.2	1788	1781.2	1773.7	1766.3	1758.2	1769
Line amperes	8.77	11.2	14.5	18.2	22.1	26.4	20.5

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: -	© □	

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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