

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EHF2523T**

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

Part Detail							
Revision:	L	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:	12-02-2021	Leads:	9#12		

Specs			
Catalog Number:	EHFM2523T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	254T	KVA Code:	G
Frame Material:	Steel	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:	18.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	36.000 A @ 230.0 V	<b>Shaft Rotation:</b>	Reversible
	38.000 A @ 208.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

Nameplate NP2094E06B03	
CAT.NO.	EHF2523T
SPEC.	39E172Y375G1
HP	15
VOLTS	230/460
AMPS	36/18
RPM	1765
FRAME	254T
	HZ 60
	PH 3
SER.F.	1.15
	CODE G
	DES A
	CL F
NEMA-NOM-EFF	93
	PF 85
RATING	40C AMB-CONT
CC	010A
	USABLE AT 208V 38
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, MOBIL POLYREX EM - 124047	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

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
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 # 66605

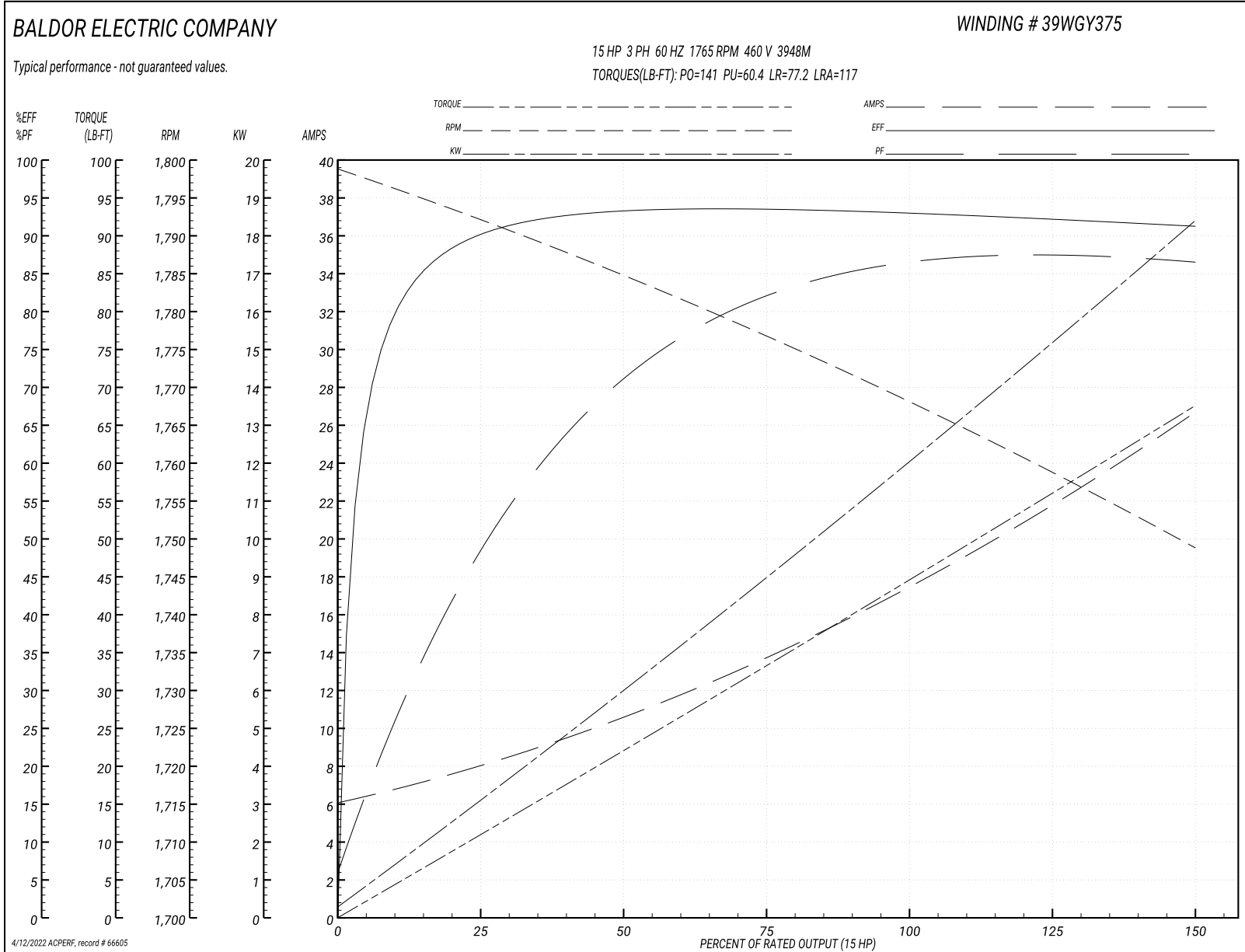
Typical performance - not guaranteed values

Winding: 39WGY375-R001			Type: 3948M			Enclosure: OPSB		
<b>Nameplate Data</b>				<b>460 V, 60 Hz: High Voltage Connection</b>				
Rated Output (HP)	15		Full Load Torque	44.53 LB-FT				
Volts	230/460		Start Configuration	direct on line				
Full Load Amps	36/18		Breakdown Torque	141 LB-FT				
R.P.M.	1765		Pull-up Torque	60.4 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	77.2 LB-FT				
NEMA Design Code	A	KVA Code	G	Starting Current	117 A			
Service Factor (S.F.)	1.15		No-load Current	6.37 A				
NEMA Nom. Eff.	93	Power Factor	85	Line-line Res. @ 25°C	0.62591 Ω			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	26°C				
S.F. Amps			Temp. Rise @ S.F. Load	32°C				
			Locked-rotor Power Factor	32.8				
			Rotor inertia	2.1 lb-ft <sup>2</sup>				

**Load Characteristics 460 V, 60 Hz, 15 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	81	85	87	87	86
Efficiency	89.9	93.1	93.5	93	92.3	91.2	92.6
Speed	1792	1784.7	1776.9	1768	1759.3	1748.7	1763
Line amperes	7.67	10.4	13.8	17.7	21.8	26.5	20.2

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





**AC Induction Motor Performance Data**

Record # 89973

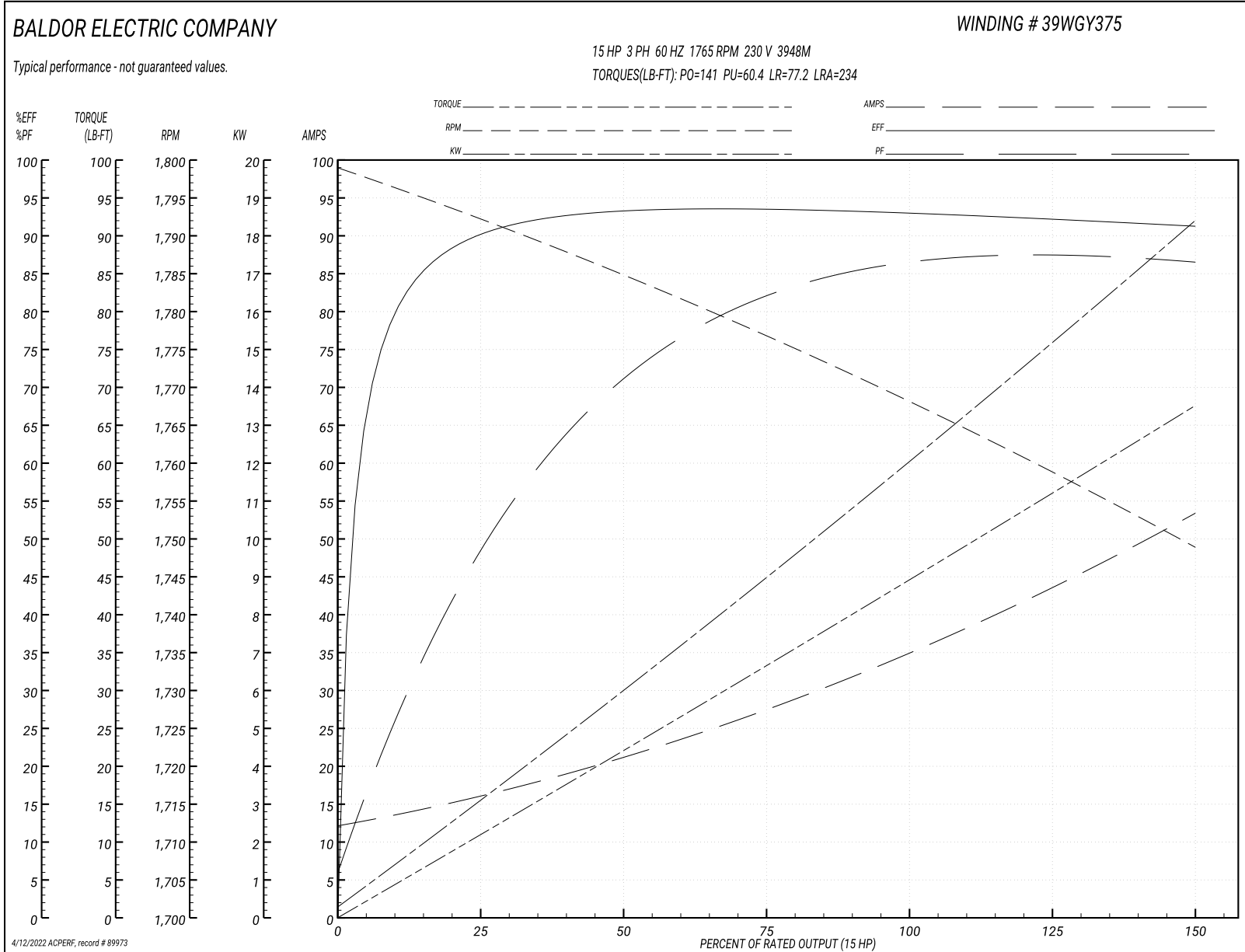
Typical performance - not guaranteed values

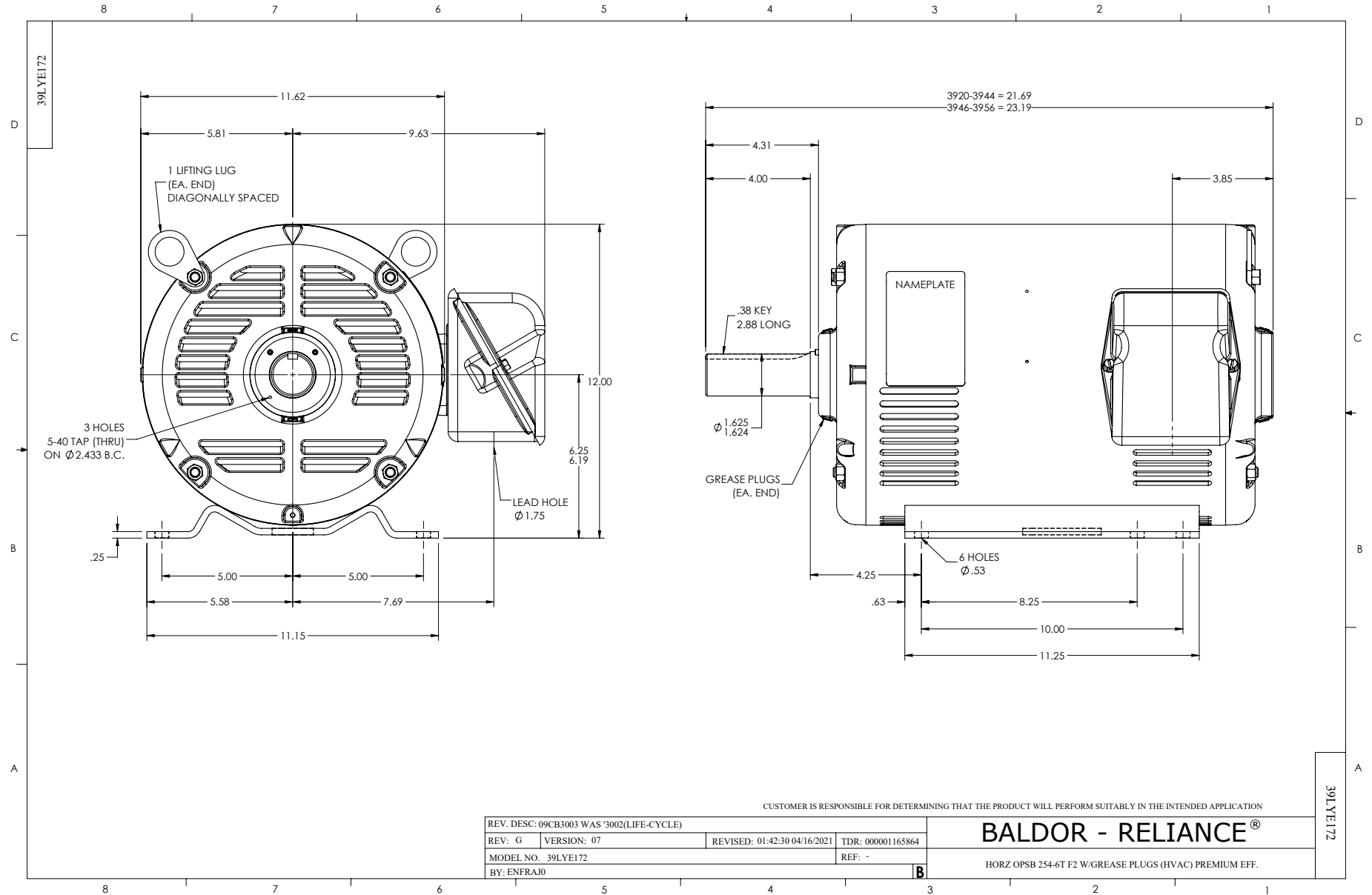
Winding: 39WGY375-R001			Type: 3948M			Enclosure: OPSB		
<b>Nameplate Data</b>				<b>230 V, 60 Hz: Low Voltage Connection</b>				
Rated Output (HP)	15		Full Load Torque	44.53 LB-FT				
Volts	230/460		Start Configuration	direct on line				
Full Load Amps	36/18		Breakdown Torque	141 LB-FT				
R.P.M.	1765		Pull-up Torque	60.4 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	77.2 LB-FT				
NEMA Design Code	A KVA Code	G	Starting Current	234 A				
Service Factor (S.F.)	1.15		No-load Current	12.74 A				
NEMA Nom. Eff.	93 Power Factor	85	Line-line Res. @ 25°C	0.145 Ω				
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	26°C				
S.F. Amps			Temp. Rise @ S.F. Load	32°C				
			Locked-rotor Power Factor	32.7816				
			Rotor inertia	2.1 lb-ft <sup>2</sup>				

**Load Characteristics 230 V, 60 Hz, 15 HP**

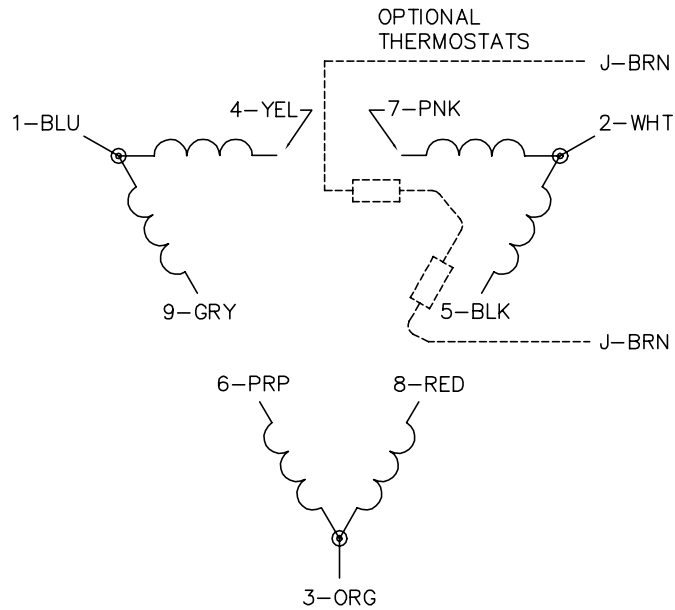
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	85	87	87	86
Efficiency	90	93.1	93.5	93	92.2	91.2	92.5
Speed	1792	1785	1777	1768	1759	1749	1763
Line amperes	15.34	20.8	27.6	35.4	43.6	53	40.3

Performance Graph at 230V, 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		
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MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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