ABB BALDOR RELIANCE

Customer information packet

EHFM2523T-8

15HP, 1765RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F2
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	41.000 A @ 200.0 V
	40.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	41.0 a
Insulation Class	F

Part Detail

Revision	L
Type	AC
Mech. spec.	39E172
Base	
Status	PRD/A
Elec. spec.	39WGY389
Layout	39LYE172
Eff. date	12-12-2025
CD Diagram	CD0695
Poles	04
Leads	6#8
Proprietary	False
Created date	10-12-2017

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	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3948M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	23.19 IN
Power Factor	85
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2094E06B03									
CAT.NO.	EHFM2523T-8								
SPEC.	39E172Y389G1								
HP	15								
VOLTS	200								
AMPS	41								
RPM	1765								
FRAME	254T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F		
NEMA-NOM-EFF	93	**PF**	85						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**		N/A					
DE	6309	**ODE**	6208						
AUTO		**MANUAL**		**NONE**					
ENCL	OPSB	**SN**							
BLANK									

AC Induction Motor Performance Data
Record # 67364
Typical performance - not guaranteed values

Winding: 39WGY389-R001	**Type:** 3948M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Run Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.48 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			41	**Breakdown Torque**	145 LB-FT
R.P.M.			1765	**Pull-up Torque**	62.18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	79.47 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	277 A
Service Factor (S.F.)			1.15	**No-load Current**	15.15 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.108 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	32.9
				Rotor inertia	2.1 LB-FT2

Load Characteristics 200 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	72	81	85	87	87	86
Efficiency	89.8	93	93.5	93	92.3	91.3	92.6
Speed	1792	1785	1778	1769	1760	1750	1764
Line amperes	18.08	24.24	31.96	40.84	50.2	60.92	46.5

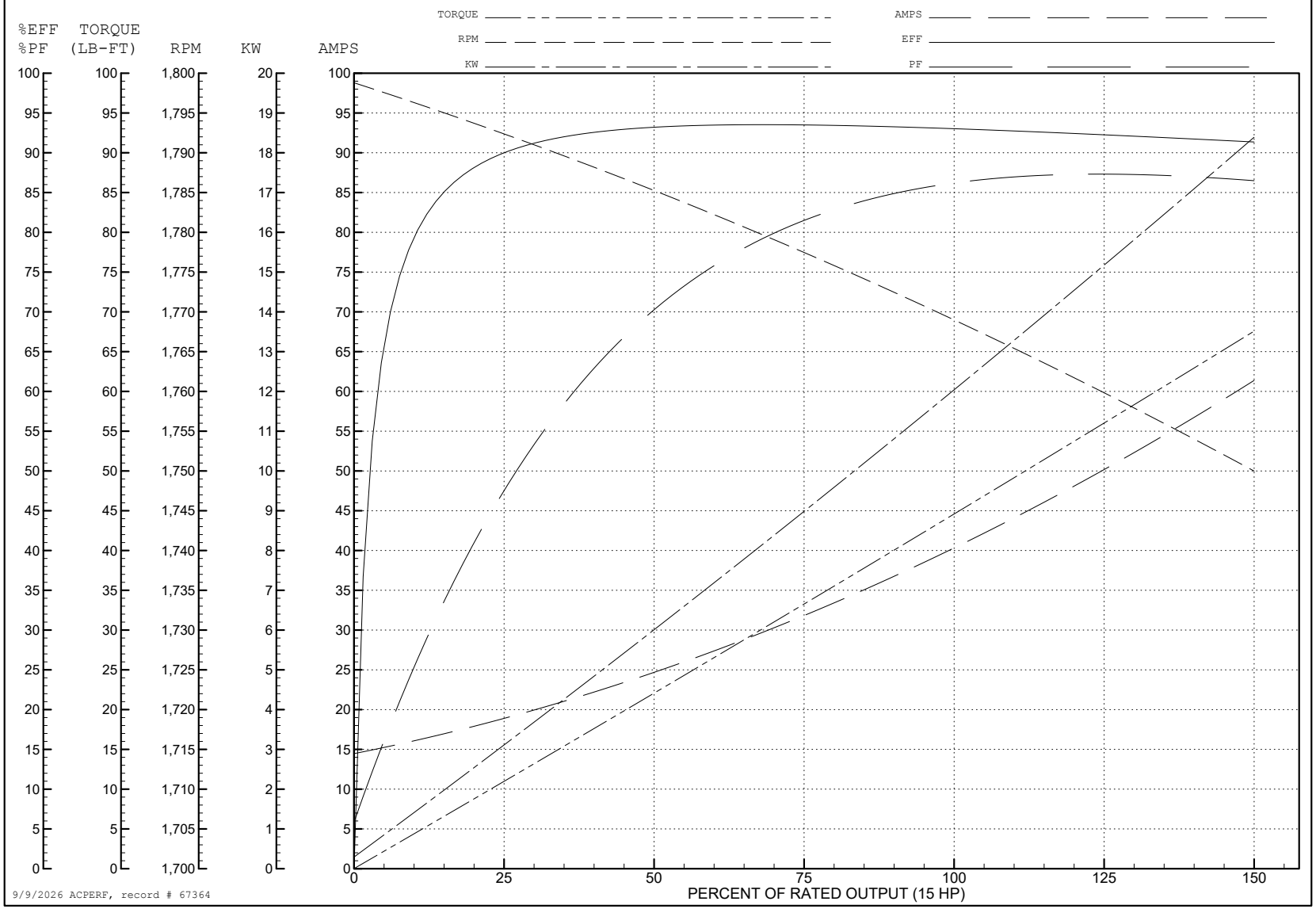
ABB Motors and Mechanical Inc.

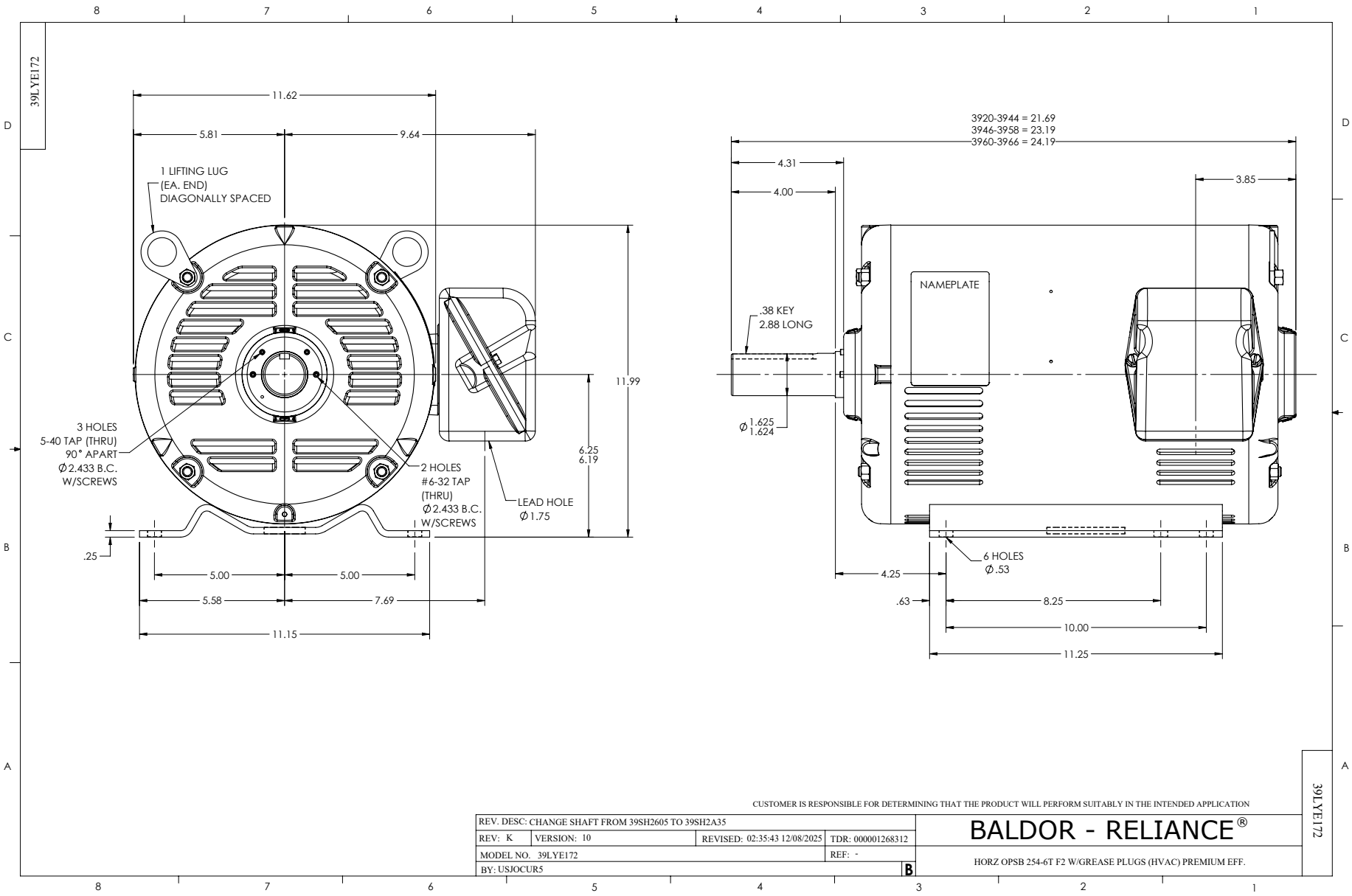
WINDING # 39WGY389

15 HP 3 PH 60 HZ 1765 RPM 200 V 3948M

Typical performance - not guaranteed values.

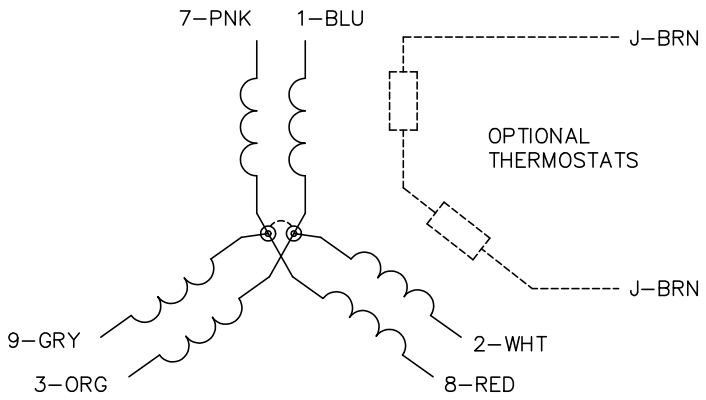
TORQUES(LB-FT): PO=145 PU=62.18 LR=79.47 LRA=277



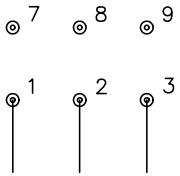

39LYE172
11.62
5.81
9.64
1 LIFTING LUG
(EA. END)
DIAGONALLY SPACED
11.99
6.25
6.19
3 HOLES
5-40 TAP (THRU)
90° APART
Ø2.433 B.C.
W/SCREWS
2 HOLES
#6-32 TAP
(THRU)
Ø2.433 B.C.
W/SCREWS
LEAD HOLE
Ø1.75
.25
5.00
5.00
5.58
7.69
11.15
3920-3944 = 21.69
3946-3958 = 23.19
3960-3966 = 24.19
4.31
4.00
3.85
NAMEPLATE
.38 KEY
2.88 LONG
Ø1.625
1.624
6 HOLES
Ø.53
4.25
.63
8.25
10.00
11.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: K
VERSION: 10
REVISED: 02:35:43 12/08/2025
TDR: 000001268312
MODEL NO. 39LYE172
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T F2 W/GREASE PLUGS (HVAC) PREMIUM EFF.
39LYE172

CD0695

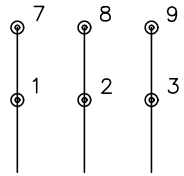
TYPICAL WYE–CONNECTED MOTOR



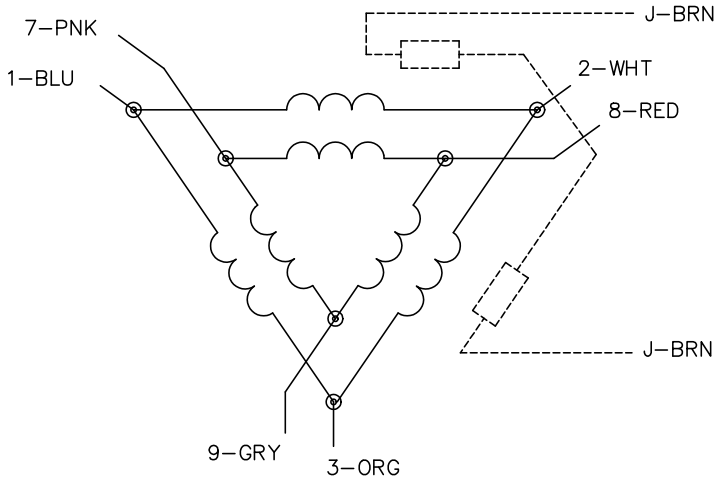
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START