ABB BALDOR RELIANCE

Customer information packet

FPM2515T-5

20HP, 1755RPM, 3PH, 60HZ, 256T, 3936M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL
	CSA EEV
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	19.600 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	19.6 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	39D101
Base	
Status	PRD/A
Elec. spec.	39WGX987
Layout	39LYD101
Eff. date	12-12-2025
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	07-20-2016

KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3936M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.69 IN
Power Factor	83
Product Family	Fire Pump Motor
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	1755 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3454L													
CAT.NO.	FPM2515T-5			**CUST P/N**					**I.P.**	23			
SPEC.	39D101X987H2			**SER.NO.**					**FRAME**	256T			
HZ	60	**HP**	20	**RPM**	1755	**HZ**		**HP**			**RPM**		
VOLTS	575			**CODE**	F	**VOLTS**					**CODE**		
AMPS	19.6			**DES**	B	**AMPS**					**DES**		
EFF	91	**SER.F.**	1.15	**PF**	83	**EFF**			**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6309			**GREASE**	POLYREX EM				
BLANK				**ODE BRG**	6208			**MTR. WT.**	231				
				CLASS	F	**PH**	3						
				ENCL	OPSB	**CC**	010A						
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**									

AC Induction Motor Performance Data
Record # 58294
Typical performance - not guaranteed values

Winding: 39WGX987-R001	**Type:** 3936M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.2 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			19.6	**Breakdown Torque**	177 LB-FT
R.P.M.			1755	**Pull-up Torque**	73.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	105 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	109 A
Service Factor (S.F.)			1.15	**No-load Current**	7.71 A
NEMA Nom. Eff.	91	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.916 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	35.6
				Rotor inertia	1.57 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	79	83	86	86	85
Efficiency	87.7	91.6	91.9	91.1	89.9	88.2	90.4
Speed	1790	1781	1770	1759	1746	1730	1751
Line amperes	8.98	11.8	15.5	19.6	24.4	29.6	22.5

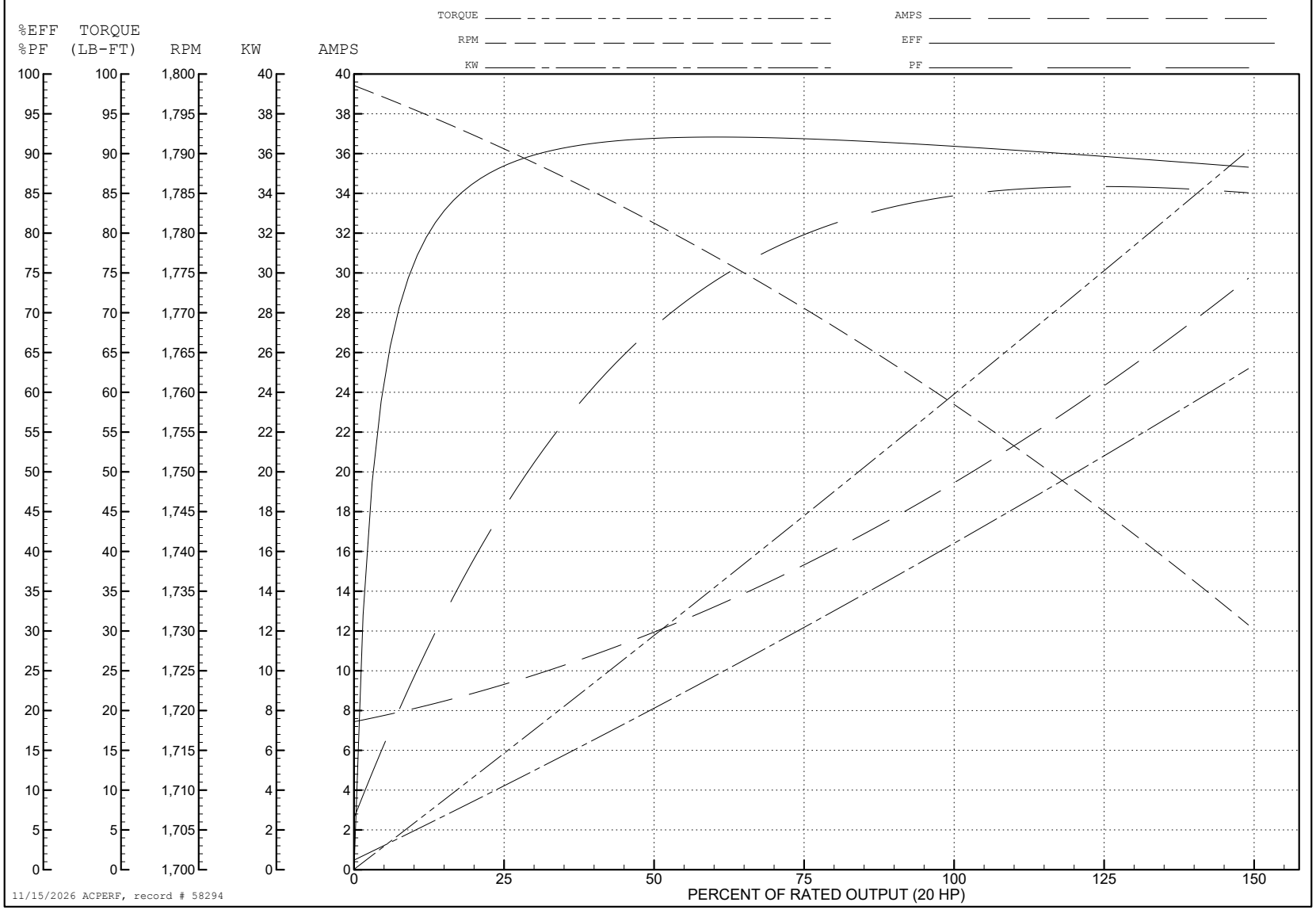
ABB Motors and Mechanical Inc.

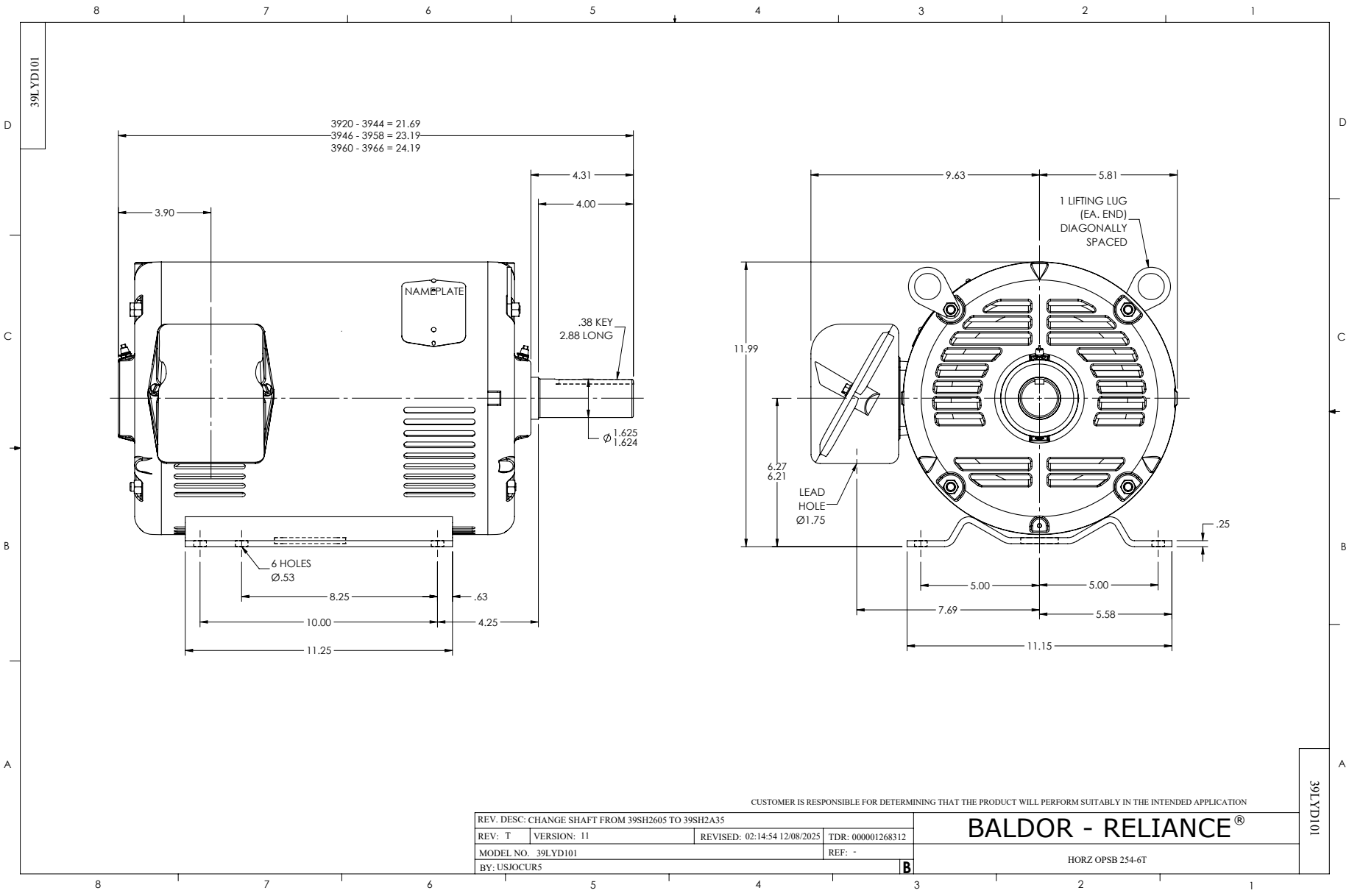
WINDING # 39WGX987

20 HP 3 PH 60 HZ 1755 RPM 575 V 3936M

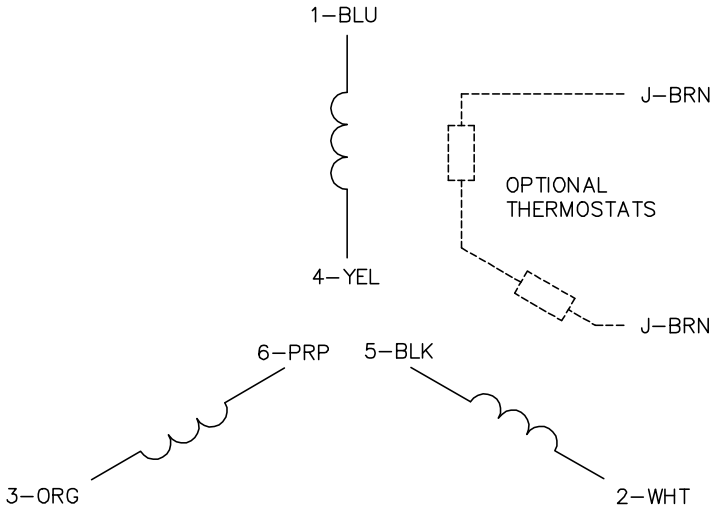
Typical performance - not guaranteed values.

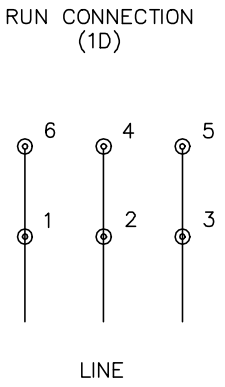
TORQUES(LB-FT): PO=177 PU=73.5 LR=105 LRA=109

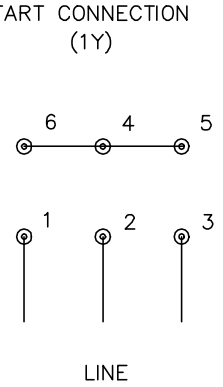



39LYD101
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
4.31
4.00
3.90
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø.53
8.25
.63
10.00
4.25
11.25
9.63
5.81
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø1.75
.25
5.00
5.00
7.69
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: T
VERSION: 11
REVISED: 02:14:54 12/08/2025
TDR: 000001268312
MODEL NO. 39LYD101
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T
39LYD101

CD0382







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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1