ABB BALDOR RELIANCE

Customer information packet

VJPFPM2538T-5

40HP, 3500RPM, 3PH, 60HZ, 286JP, 3954M, OPSB, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	286JP
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	36.000 A @ 575.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	R
Type	AC
Mech. spec.	39T043
Base	
Status	PRD/A
Elec. spec.	39WGX991
Layout	39LYT043
Eff. date	06-10-2026
CD Diagram	CD0382
Poles	02
Leads	6#10
Proprietary	False
Created date	07-21-2016

KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3954M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.44 IN
Power Factor	91
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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.	VJPFPM2538T-5			**CUST P/N**				**I.P.**	23			
SPEC.	39T043X991H2			**SER.NO.**				**FRAME**	286JP			
HZ	60	**HP**	40	**RPM**	3500	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	G	**VOLTS**				**CODE**		
AMPS	36			**DES**	B	**AMPS**				**DES**		
EFF	91.7	**SER.F.**	1.15	**PF**	91	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6312			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6208			**MTR. WT.**	303			
				CLASS	F	**PH**	3					
				ENCL	OPSB	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 58306
Typical performance - not guaranteed values

Winding: 39WGX991-R001	**Type:** 3954M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			40	**Full Load Torque**	60.6 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			36	**Breakdown Torque**	190 LB-FT
R.P.M.			3500	**Pull-up Torque**	70.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	89.9 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	227 A
Service Factor (S.F.)			1.15	**No-load Current**	8.34 A
NEMA Nom. Eff.	91.7	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.371 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	27.5
				Rotor inertia	1.38 LB-FT2

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	69	85	90	91	91	90	91
Efficiency	93	94	93.3	92	90.1	88.3	90.9
Speed	3580	3557	3532	3503	3470	3435	3483
Line amperes	12.2	19.1	27.2	36.2	46.2	56.7	42.2

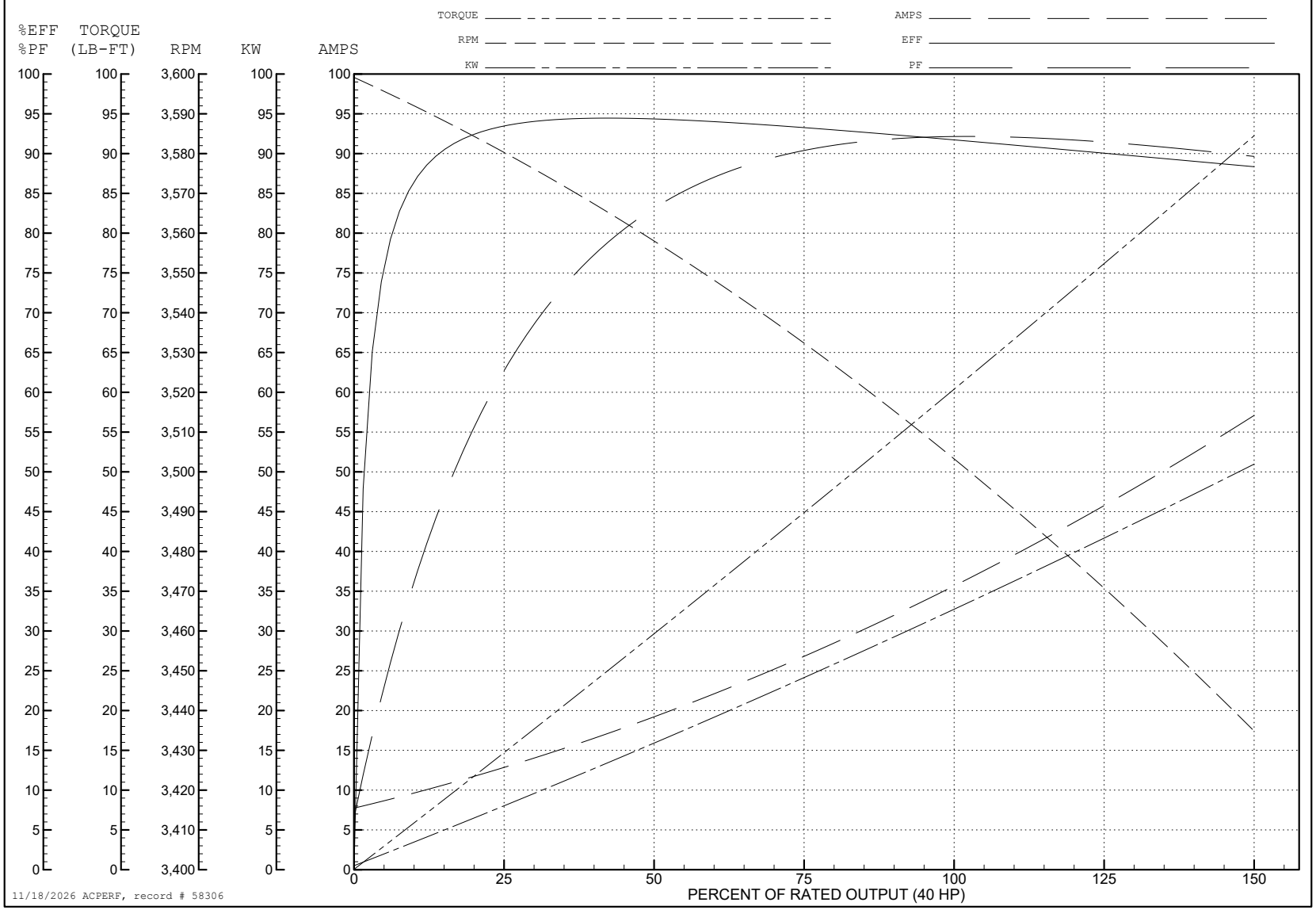
ABB Motors and Mechanical Inc.

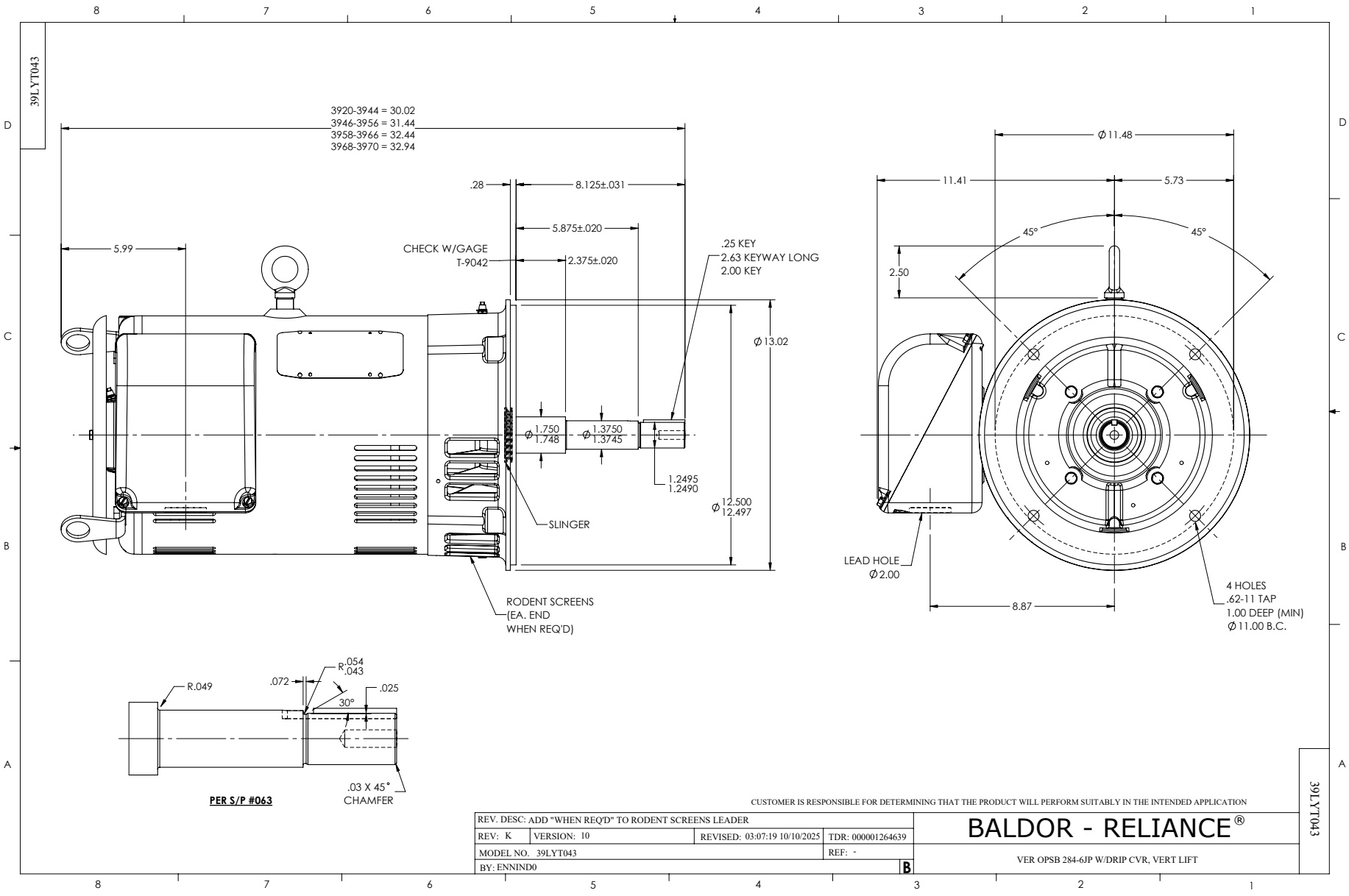
WINDING # 39WGX991

40 HP 3 PH 60 HZ 3500 RPM 575 V 3954M

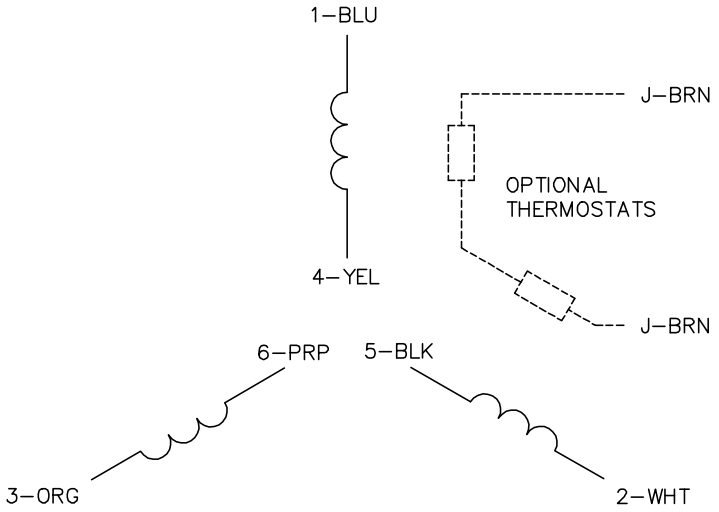
Typical performance - not guaranteed values.

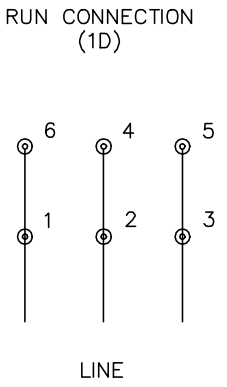
TORQUES(LB-FT): PO=190 PU=70.8 LR=89.9 LRA=227

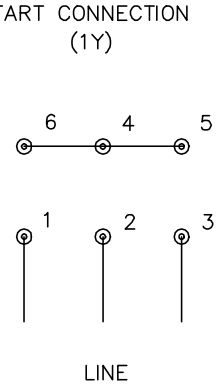



39LYT043
3920-3944 = 30.02
3946-3956 = 31.44
3958-3966 = 32.44
3968-3970 = 32.94
.28
8.125±.031
5.875±.020
5.99
CHECK W/GAGE
T-9042
2.375±.020
.25 KEY
2.63 KEYWAY LONG
2.00 KEY
Ø13.02
Ø1.750
1.748
Ø1.3750
1.3745
1.2495
1.2490
Ø12.500
12.497
SLINGER
RODENT SCREENS
(EA. END
WHEN REQ'D)
Ø11.48
11.41
5.73
45°
45°
2.50
LEAD HOLE
Ø2.00
8.87
4 HOLES
.62-11 TAP
1.00 DEEP (MIN)
Ø11.00 B.C.
R.049
.072
R:.054
.043
.025
30°
.03 X 45°
CHAMFER
PER S/P #063
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD "WHEN REQ'D" TO RODENT SCREENS LEADER
REV: K
VERSION: 10
REVISED: 03:07:19 10/10/2025
TDR: 000001264639
MODEL NO. 39LYT043
REF: -
BY: ENNIND0
B
BALDOR - RELIANCE®
VER OPSB 284-6JP W/DRIP CVR, VERT LIFT
39LYT043

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: –		

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

SH 1 of 1