BALDOR • RELIANCE

Customer information packet

FPM2538T

40//30HP, 3500//2910RPM, 3PH, 60//50HZ, 286T
Class -
Division - Not Applicable

12/22/2025 6:59:09 PM

Specifications

Enclosure	ODP
Frame	286TS
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ
	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
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	90.000 A @ 230.0 V
	84.000 A @ 190.0 V
	45.000 A @ 460.0 V
	42.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated

Part detail

Revision	G
Type	AC
Mech. spec.	39L35
Base	
Status	PRD/A
Elec. spec.	39WGX928
Layout	39LYL035
Eff. date	11-14-2023
CD Diagram	CD0104
Poles	02
Leads	12#10
Proprietary	False
Created date	03-13-2017

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	42.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3954M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.56 IN
Power Factor	91
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	2910 rpm
	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.	FPM2538T			**CUST P/N**				**I.P.**	23			
SPEC.	39L035X928H2			**SER.NO.**				**FRAME**	286TS			
HZ	60	**HP**	40	**RPM**	3500	**HZ**	50	**HP**	30	**RPM**	2910	
VOLTS	230/460			**CODE**	G	**VOLTS**	190/380			**CODE**	G	
AMPS	90/45			**DES**	B	**AMPS**	84/42			**DES**	B	
EFF	91.7	**SER.F.**	1.15	**PF**	91	**EFF**	91	**SER.F.**	1.15	**PF**	91	
RATING	40C AMB-CONT			**DE BRG**	6311			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6208			**MTR. WT.**	282			
				CLASS	F	**PH**	3					
				ENCL	ODP	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 54883
Typical performance - not guaranteed values

Winding: 39WGX928-R001	**Type:** 3954M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			40//30	**Full Load Torque**	60.6 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			90/45//84/42	**Breakdown Torque**	191 LB-FT
R.P.M.			3500//2910	**Pull-up Torque**	71.3 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	90.5 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	285 A
Service Factor (S.F.)			1.15	**No-load Current**	10.5 A
NEMA Nom. Eff.	91.7	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.23 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	79°C
				Locked-rotor Power Factor	27.2
				Rotor inertia	1.38 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	68	85	90	91	91	90	91
Efficiency	93.2	94	93.4	91.9	90.3	88.5	91
Speed	3580	3557	3532	3503	3471	3436	3484
Line amperes	15.3	23.9	34	45.3	57.7	70.7	52.7

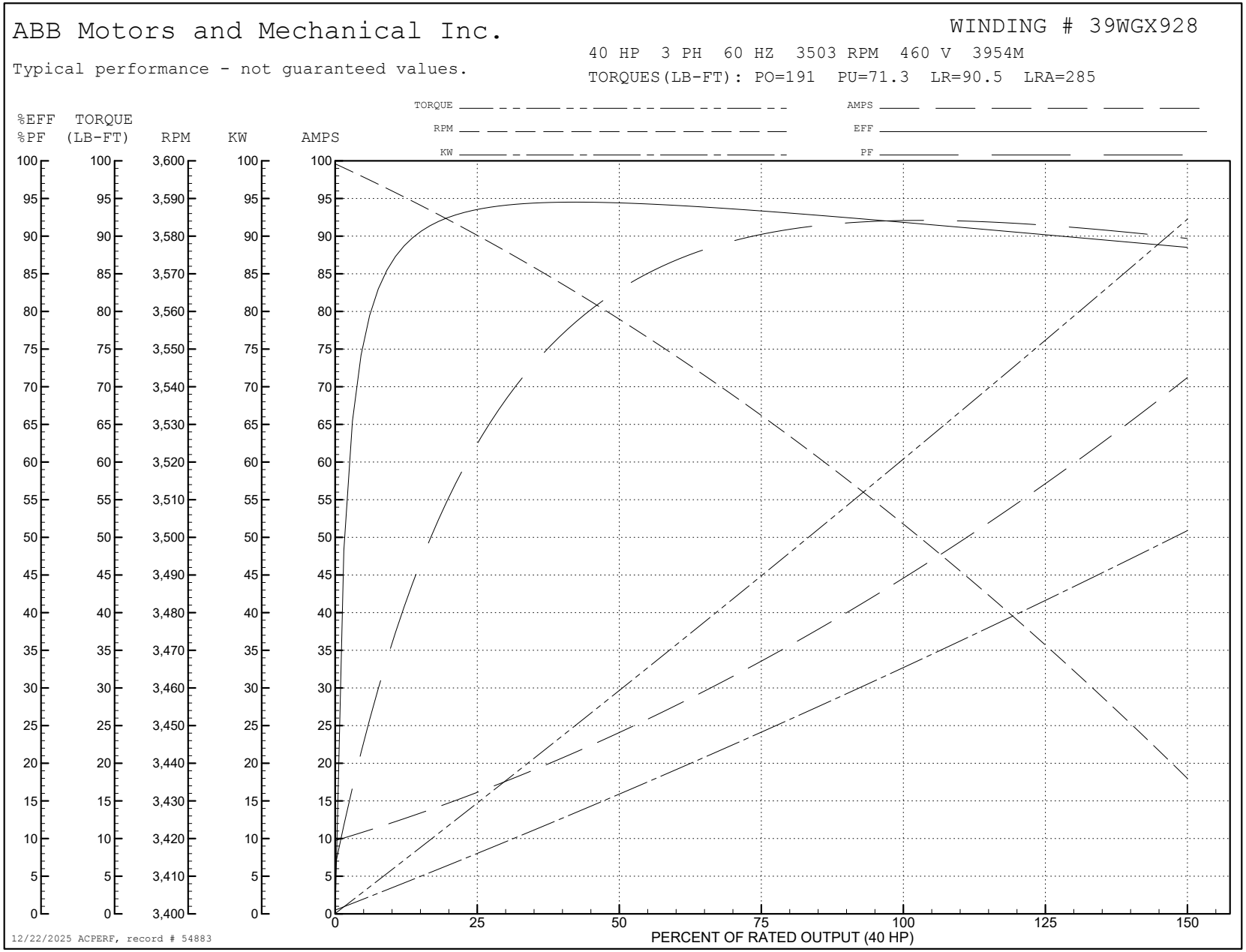


ABB Motors and Mechanical Inc.
WINDING # 39WGX928
40 HP 3 PH 60 HZ 3503 RPM 460 V 3954M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=191 PU=71.3 LR=90.5 LRA=285
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (40 HP)
12/22/2025 ACPERF, record # 54883

AC Induction Motor Performance Data
Record # 54884
Typical performance - not guaranteed values

Winding: 39WGX928-R001	**Type:** 3954M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			40//30
Volts			230/460//190/380
Full Load Amps			90/45//84/42
R.P.M.			3500//2910
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	91
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	54.6 LB-FT
Start Configuration	direct on line
Breakdown Torque	184 LB-FT
Pull-up Torque	75.2 LB-FT
Locked-rotor Torque	95.4 LB-FT
Starting Current	278 A
No-load Current	10.2 A
Line-line Res. @ 25ºC	0.23 Ω
Temp. Rise @ Rated Load	55°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	30.6
Rotor inertia	1.38 LB-FT2

Load Characteristics 380 V, 50 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	84	89	91	91	91	91
Efficiency	93.5	94	93.1	91.6	89.9	87.9	90.6
Speed	2982	2961	2939	2913	2885	2855	2896
Line amperes	14.4	22	31.1	41.3	52.5	64.1	48

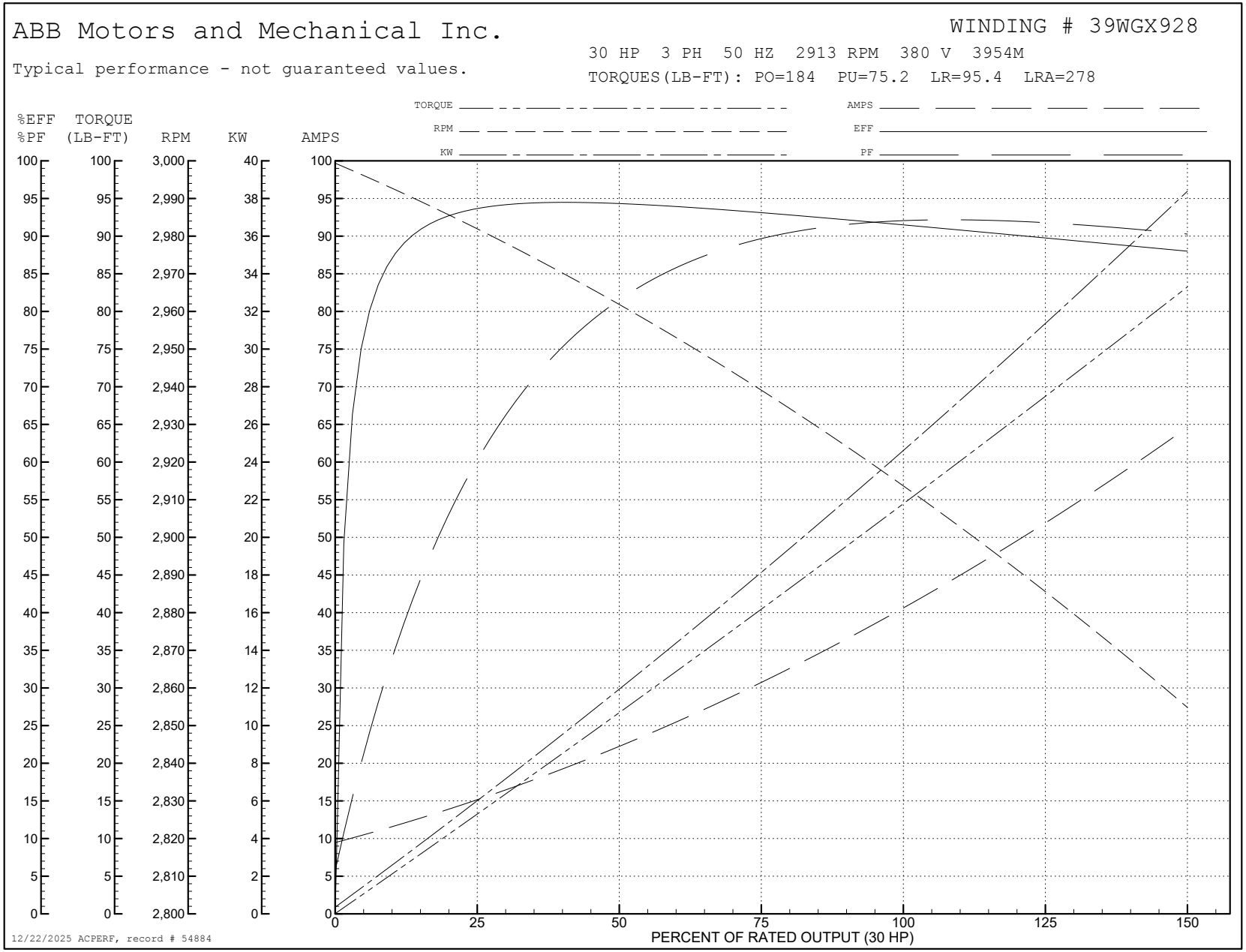
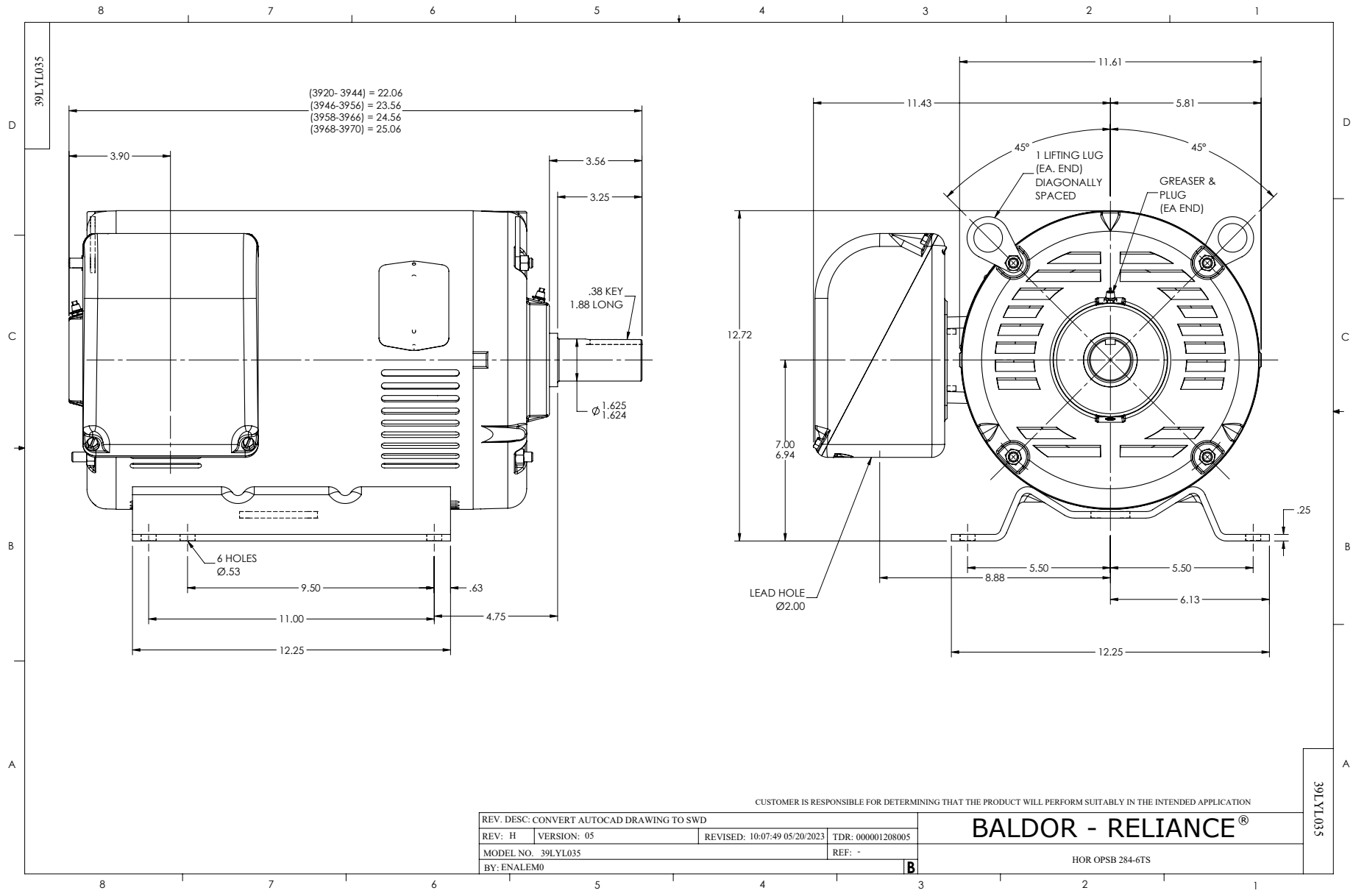
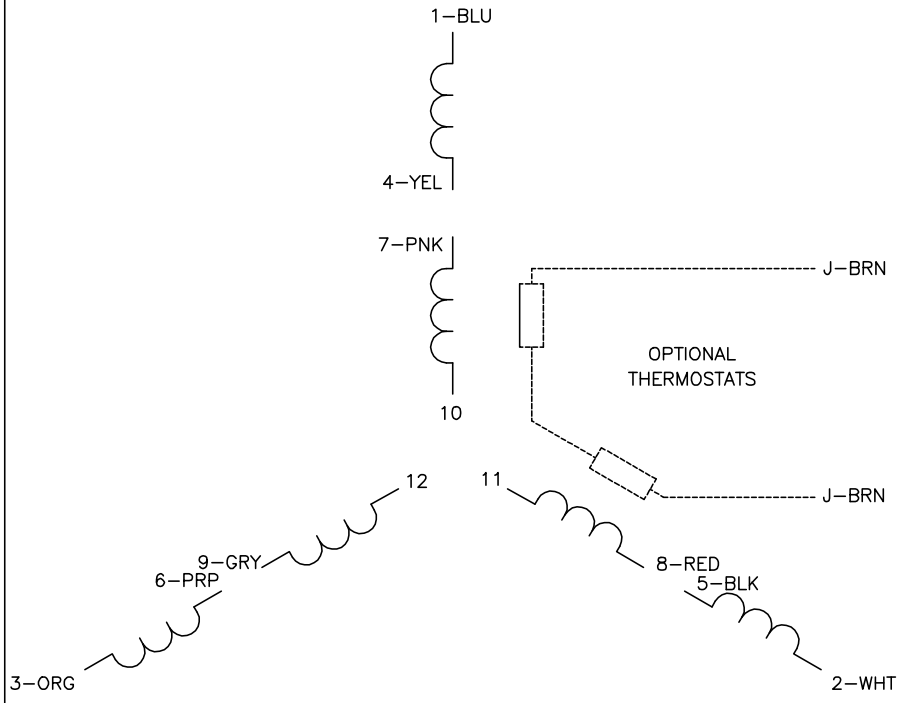
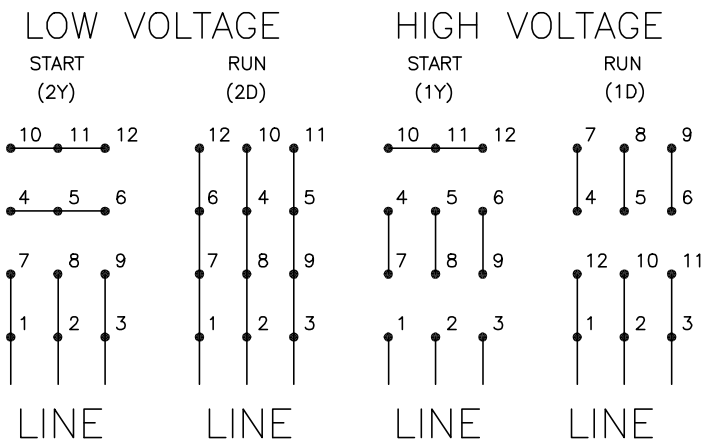


ABB Motors and Mechanical Inc.
WINDING # 39WGX928
Typical performance - not guaranteed values.
30 HP 3 PH 50 HZ 2913 RPM 380 V 3954M
TORQUES(LB-FT): PO=184 PU=75.2 LR=95.4 LRA=278
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
12/22/2025 ACPERF, record # 54884


39LYL035
(3920- 3944) = 22.06
(3946-3956) = 23.56
(3958-3966) = 24.56
(3968-3970) = 25.06
3.90
3.56
3.25
.38 KEY
1.88 LONG
Ø 1.625
1.624
6 HOLES
Ø.53
9.50
.63
11.00
4.75
12.25
11.61
11.43
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
GREASER &
PLUG
(EA END)
12.72
7.00
6.94
.25
5.50
5.50
8.88
6.13
LEAD HOLE
Ø2.00
12.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: H
VERSION: 05
REVISED: 10:07:49 05/20/2023
TDR: 000001208005
MODEL NO. 39LYL035
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR OPSB 284-6TS
39LYL035

CD0104





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.

CD0104

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 12 LEADS, Y START/D RUN

SH 1 of 1