ABB BALDOR RELIANCE

Customer information packet

EM2511T

10HP, 1180RPM, 3PH, 60HZ, 256T, 3954M, 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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	28.600 A @ 230.0 V
	30.000 A @ 208.0 V
	14.300 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AR
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGW950
Layout	39LYK057
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	14.3 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	71
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	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554LUA												
CAT.NO.	EM2511T			**P/N**						**ENCL**	OPSB	
SPEC.	39K057W950	**CC**	010A		**FRAME**	256T		**SER.NO.**				
HP	10		**CLASS**	F	**HZ**	60						
RPM	1180		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	J		**ODE BRG**	6208	**DE BRG**	6309		
AMPS	28.6/14.3											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	91.7		**GREASE**	POLYREX EM				
PF	71	**SER.F.**	1.15		**CT30-60(2:1) VT3-60(20:1)**							
USABLE AT	50HZ 10HP 190/380V 33.4/16.7A			SF 1.0								
HTR-VOLTS	**HTR-AMPS**		**MAX. SPACE HEATER TEMP.**									

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

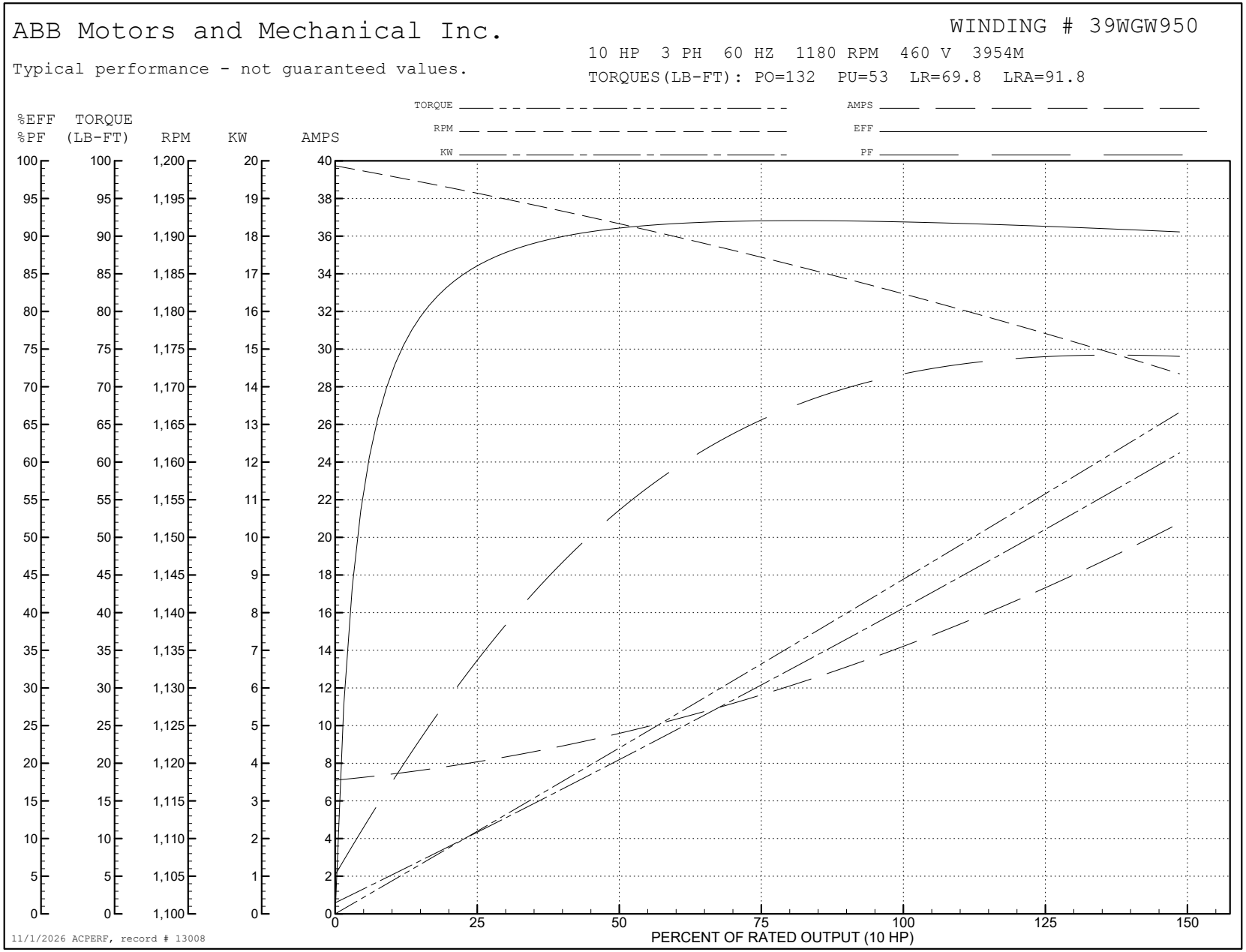
AC Induction Motor Performance Data
Record # 13008
Typical performance - not guaranteed values

Winding: 39WGW950-R001	**Type:** 3954M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	44.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			28.6/14.3	**Breakdown Torque**	132 LB-FT
R.P.M.			1180	**Pull-up Torque**	53 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	69.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	91.8 A
Service Factor (S.F.)			1.15	**No-load Current**	7.16 A
NEMA Nom. Eff.	91.7	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.746 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	22°C
S.F. Amps				**Temp. Rise @ S.F. Load**	29°C
				Locked-rotor Power Factor	25.9
				Rotor inertia	4.34 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	54	65	71	74	75	73
Efficiency	85.7	91	92	92	91.4	90.5	91.6
Speed	1196	1192	1187	1182	1177	1172	1179
Line amperes	8.04	9.52	11.7	14.25	17.29	20.7	16.07


ABB Motors and Mechanical Inc.
WINDING # 39WGW950
10 HP 3 PH 60 HZ 1180 RPM 460 V 3954M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=132 PU=53 LR=69.8 LRA=91.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/1/2026 ACPERF, record # 13008

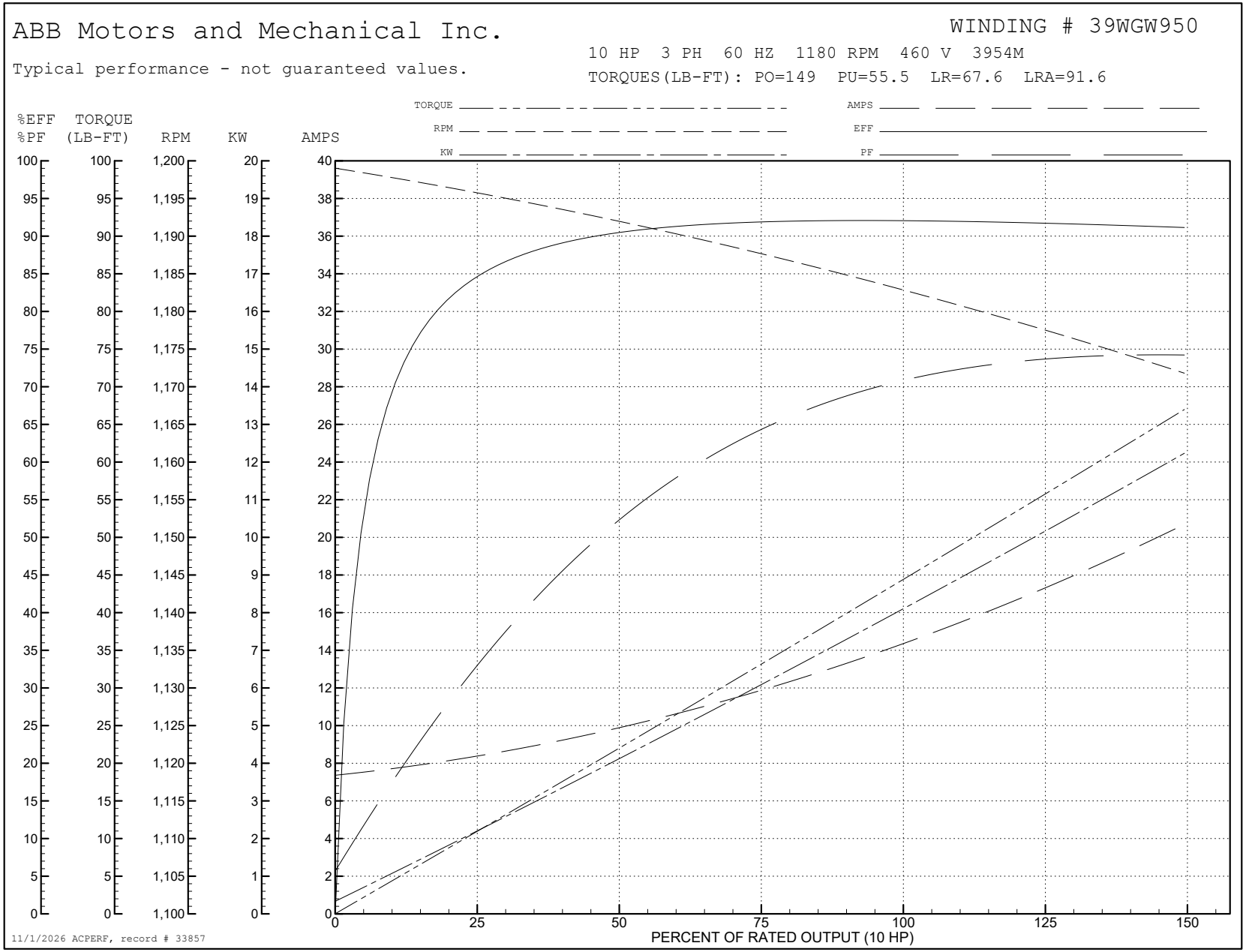
AC Induction Motor Performance Data
Record # 33857
Typical performance - not guaranteed values

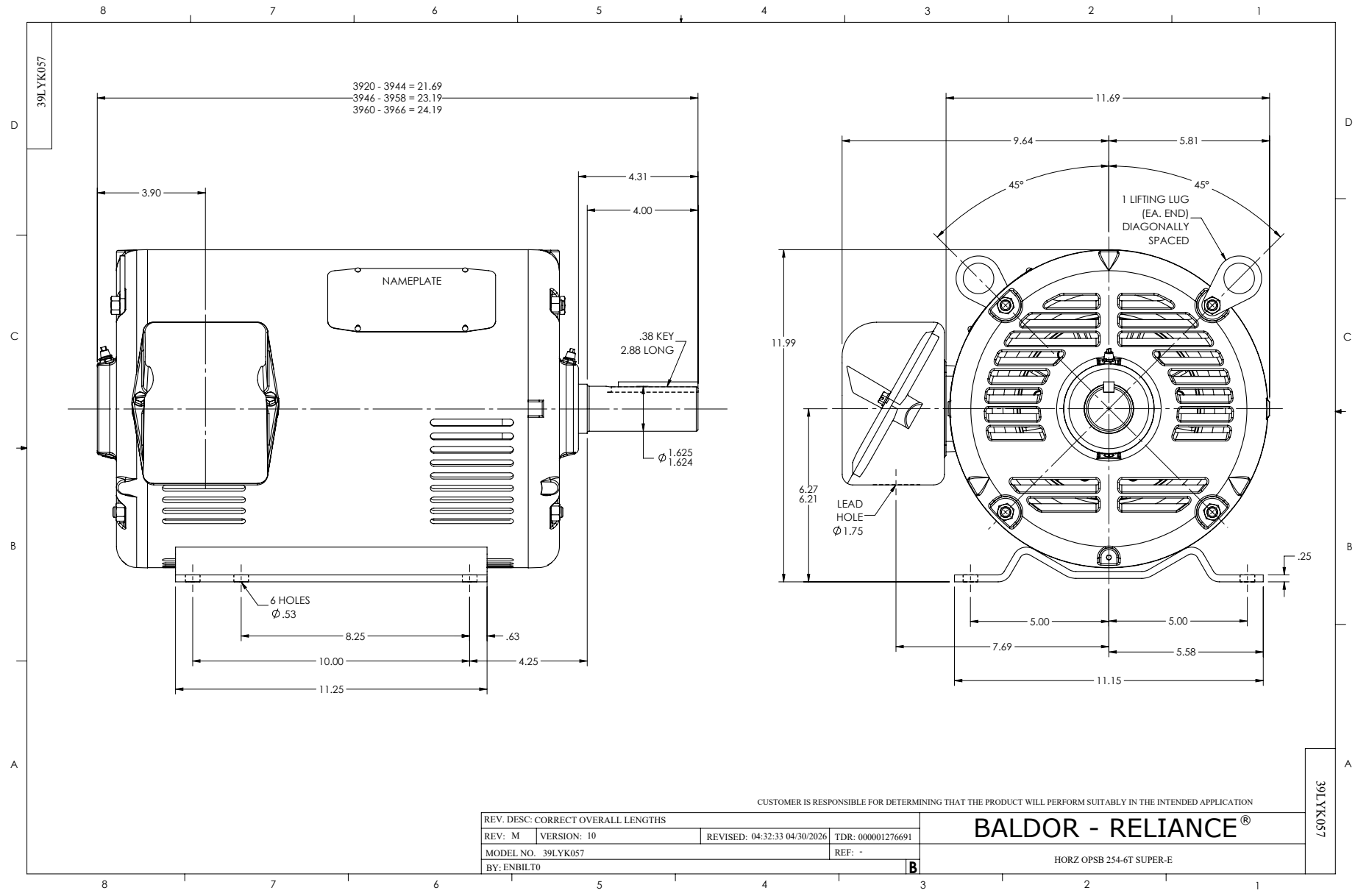
Winding: 39WGW950-R001	**Type:** 3954M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	44.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			28.6/14.3	**Breakdown Torque**	149 LB-FT
R.P.M.			1180	**Pull-up Torque**	55.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	67.6 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	91.6 A
Service Factor (S.F.)			1.15	**No-load Current**	7.51 A
NEMA Nom. Eff.	91.7	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.72568 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	18°C
S.F. Amps				**Temp. Rise @ S.F. Load**	22°C
				Locked-rotor Power Factor	25.9
				Rotor inertia	4.34 LB-FT2

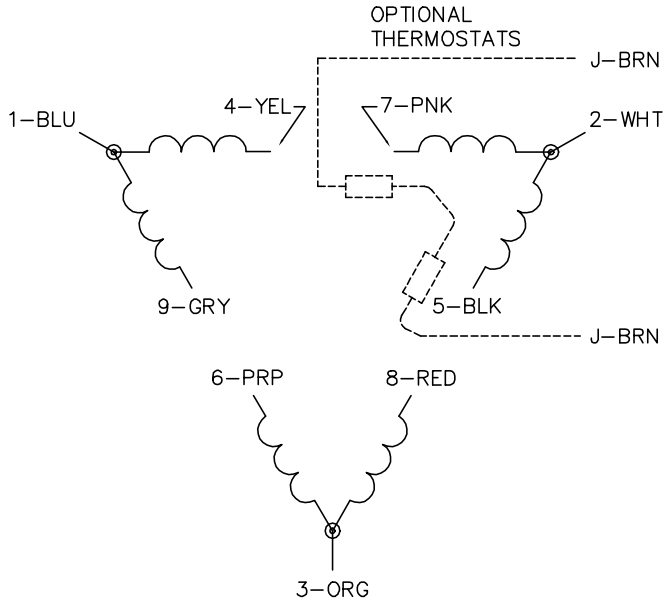
Load Characteristics 460 V, 60 Hz, 10 HP

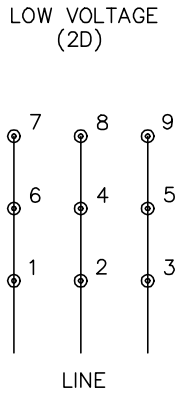
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	53	64	70	73	74	72
Efficiency	84.5	90.2	91.8	92.1	91.8	91.1	91.9
Speed	1195.9	1191.9	1187.8	1182.8	1177.7	1171.6	1180
Line amperes	8.2	9.72	11.9	14.4	17.5	20.6	16.3

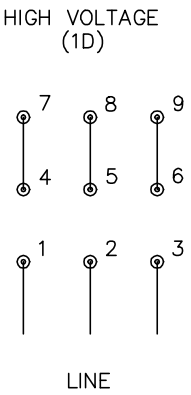

ABB Motors and Mechanical Inc.
WINDING # 39WGW950
10 HP 3 PH 60 HZ 1180 RPM 460 V 3954M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=149 PU=55.5 LR=67.6 LRA=91.6
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/1/2026 ACPERF, record # 33857


39LYK057
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
3.90
4.31
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
.63
10.00
4.25
11.25
11.69
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø 1.75
.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: CORRECT OVERALL LENGTHS
REV: M
VERSION: 10
REVISED: 04:32:33 04/30/2026
TDR: 000001276691
MODEL NO. 39LYK057
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T SUPER-E
39LYK057

CD0180







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		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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