BALDOR • RELIANCE

Customer information packet

GNEM2506T

7.5HP//5KW, 1185//985RPM, 3PH, 60//50HZ, 254
Class - None
Division - Not Applicable

12/22/2025 3:58:37 PM

Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
	5.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CE
	WEEE
	UKCA
	CURUSEEV
	IE3
	NEMA PREMIUM
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	26.200 A @ 190.0 V
	25.600 A @ 208.0 V
	25.400 A @ 230.0 V
	13.100 A @ 380.0 V

Part detail

Revision	C
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGY469
Layout	39LYK057
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	04-19-2024

	12.700 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1185 rpm
	985 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

NP4304L									
CAT.NO.	GNEM2506T								
SPEC.	39K057Y469G1								
HP	7.5HP//5KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	25.6-25.4/12.7//26.2/13.1								
R.P.M. (1/MIN)	1185//985				**WT.**	112KG	**KG**		
FRAME	254T	**HZ**	60//50		**I.P.**	22			
SER.F.	1.15	**CODE**	M	**DES.**	A	**CLASS**	F		
NOM.EFF.	90.2//89.0		**% (100%)**						
P.F.	61		IC01, 10:1 VT						
RATING	40C AMB-S1 CONT			**CC**	010A				
DE	6309		**ODE**	6208					
ENCL	OPSB	**SN**							
	IE3-50HZ-89.6(75%) 87.5(50%)								
	IE3-60HZ-89.6(75%) 87.0(50%)								

AC Induction Motor Performance Data
Record # 107538
Typical performance - not guaranteed values

Winding: 39WGY469-R001	**Type:** 3956M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			7.5HP//5KW
Volts			208-230/460//190/380
Full Load Amps			25.6-25.4/12.7//26.2/13.1
R.P.M.			1185//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	90.2	**Power Factor**	61
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	33.37 LB-FT
Start Configuration	direct on line
Breakdown Torque	132 LB-FT
Pull-up Torque	71.2 LB-FT
Locked-rotor Torque	88 LB-FT
Starting Current	99.7 A
No-load Current	8.52 A
Line-line Res. @ 25ºC	0.71832 Ω
Temp. Rise @ Rated Load	25°C
Temp. Rise @ S.F. Load	28°C
Locked-rotor Power Factor	26
Rotor inertia	4.5 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	25	41	53	61	67	70	65
Efficiency	79	87	89.6	90.6	90.8	90.6	90.7
Speed	1196.4	1193.7	1190.7	1187.7	1185.2	1181.9	1186
Line amperes	8.95	9.82	11.1	12.7	14.5	16.6	13.8

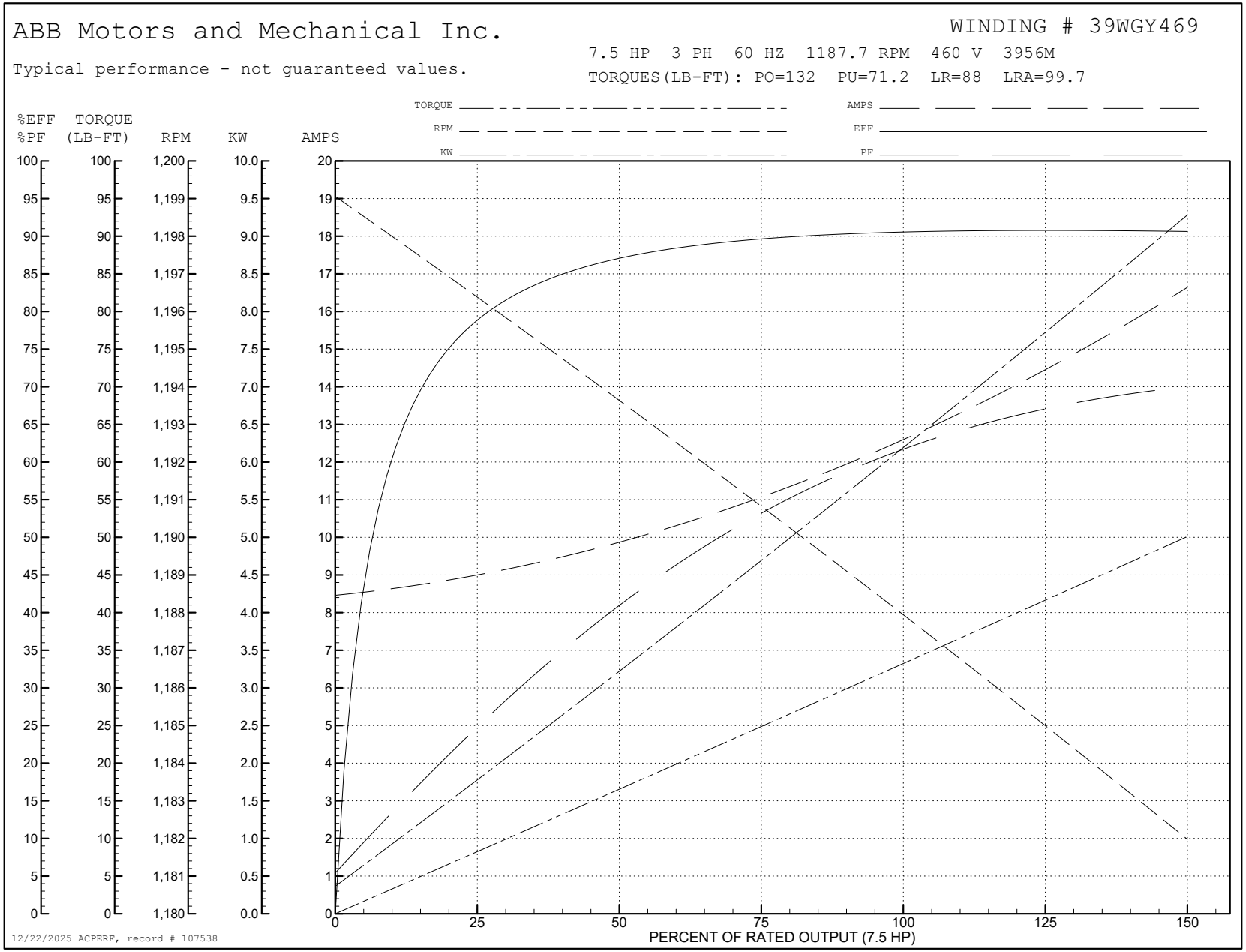


ABB Motors and Mechanical Inc.
WINDING # 39WGY469
Typical performance - not guaranteed values.
7.5 HP 3 PH 60 HZ 1187.7 RPM 460 V 3956M
TORQUES(LB-FT): PO=132 PU=71.2 LR=88 LRA=99.7
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
12/22/2025 ACPERF, record # 107538

AC Induction Motor Performance Data
Record # 107539
Typical performance - not guaranteed values

Winding: 39WGY469-R001	**Type:** 3956M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (KW)			7.5HP//5KW
Volts			208-230/460//190/380
Full Load Amps			25.6-25.4/12.7//26.2/13.1
R.P.M.			1185//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	90.2	**Power Factor**	61
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	35.72 LB-FT
Start Configuration	direct on line
Breakdown Torque	132 LB-FT
Pull-up Torque	69.2 LB-FT
Locked-rotor Torque	80.6 LB-FT
Starting Current	94.6 A
No-load Current	8.29 A
Line-line Res. @ 25ºC	0.71831 Ω
Temp. Rise @ Rated Load	26°C
Temp. Rise @ S.F. Load	28°C
Locked-rotor Power Factor	29.2
Rotor inertia	4.5 lb-ft²

Load Characteristics 380 V, 50 Hz, 5 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	44	56	64	68	69	66
Efficiency	80	87.5	89.6	90.1	90.1	89.9	90.1
Speed	996.4	993.5	990.3	986.9	984.5	983.1	985
Line amperes	8.83	9.86	11.3	13.1	14.4	15.2	13.9

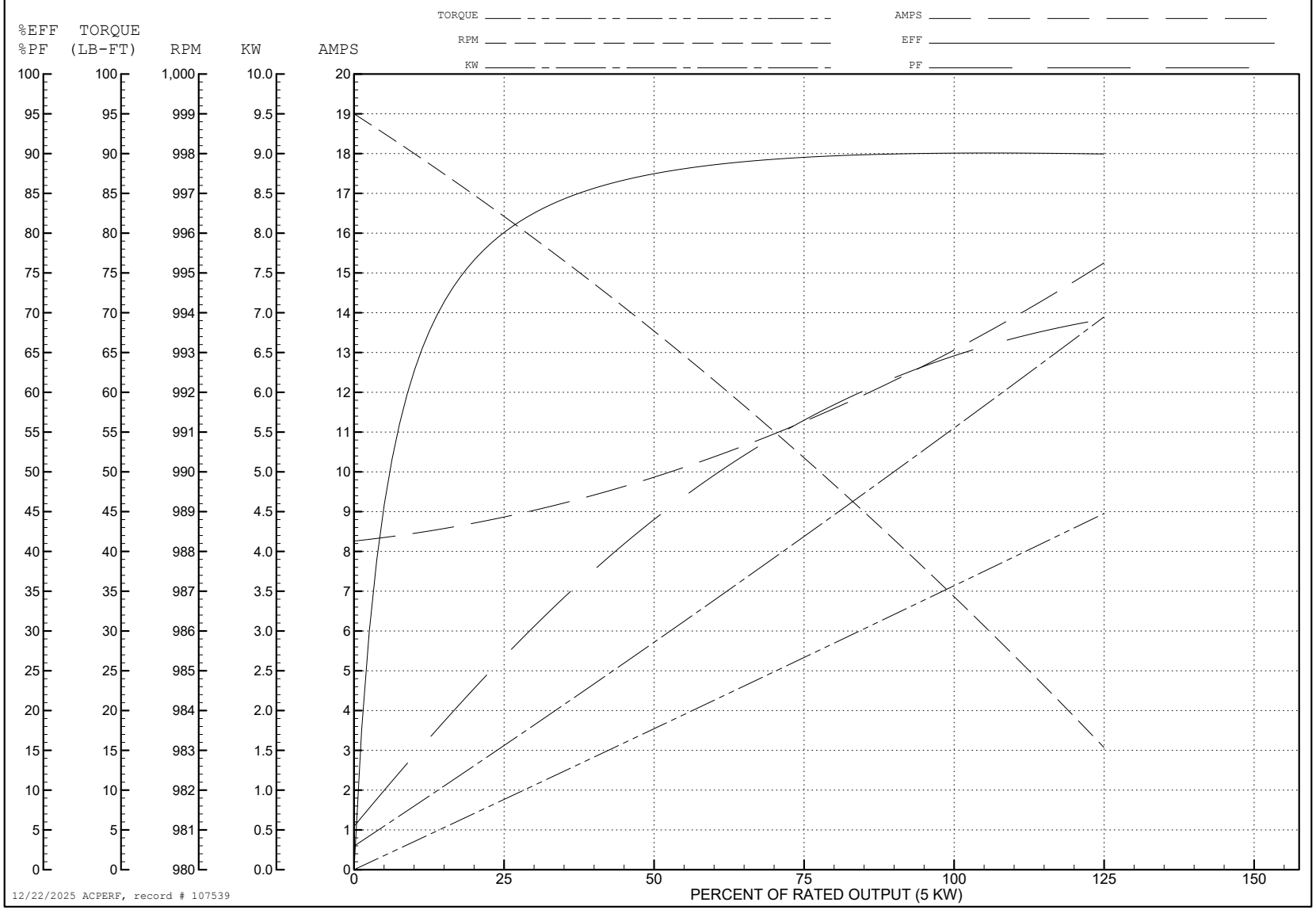
ABB Motors and Mechanical Inc.

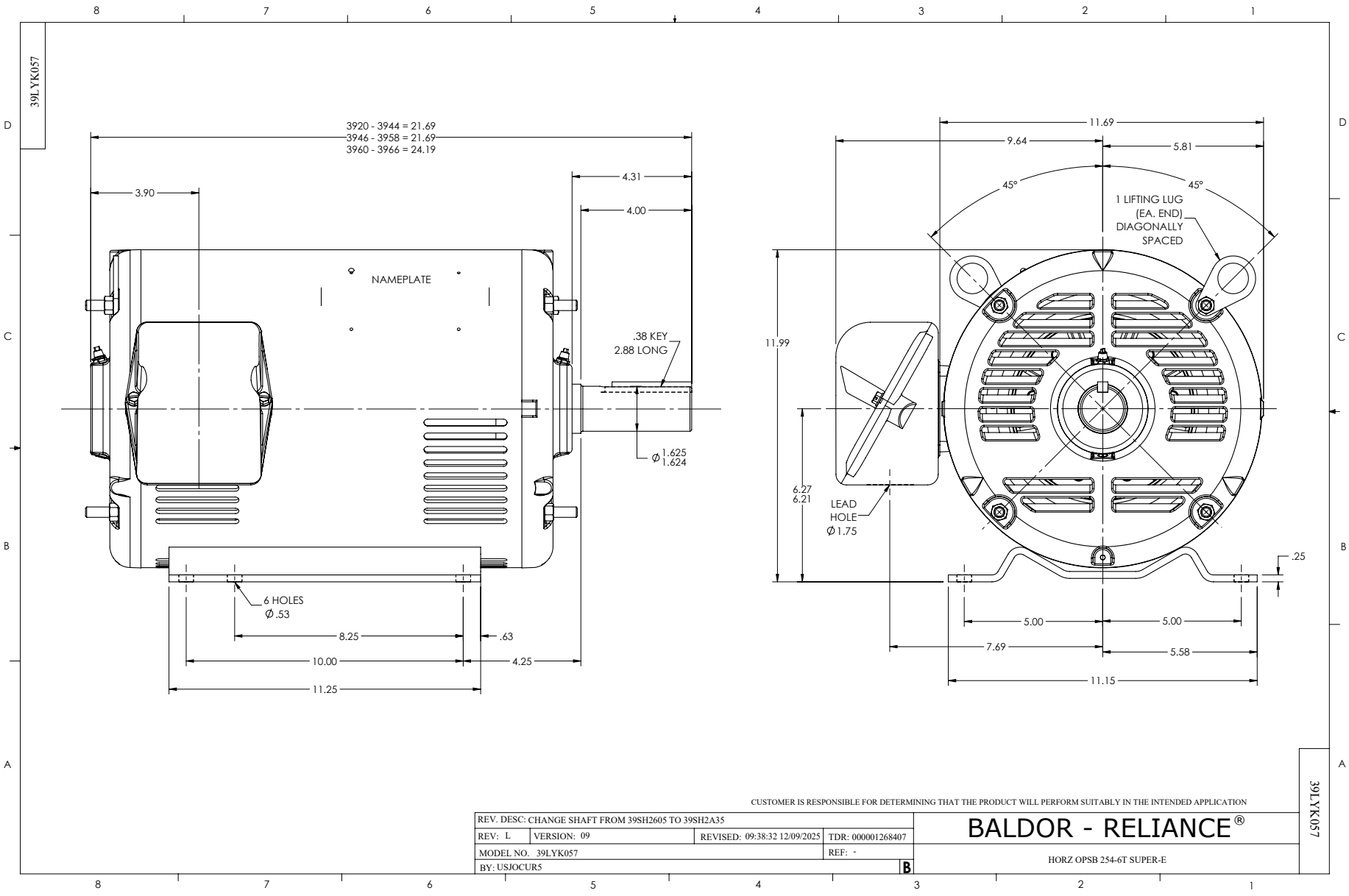
WINDING # 39WGY469

5 KW 3 PH 50 HZ 986.9 RPM 380 V 3956M

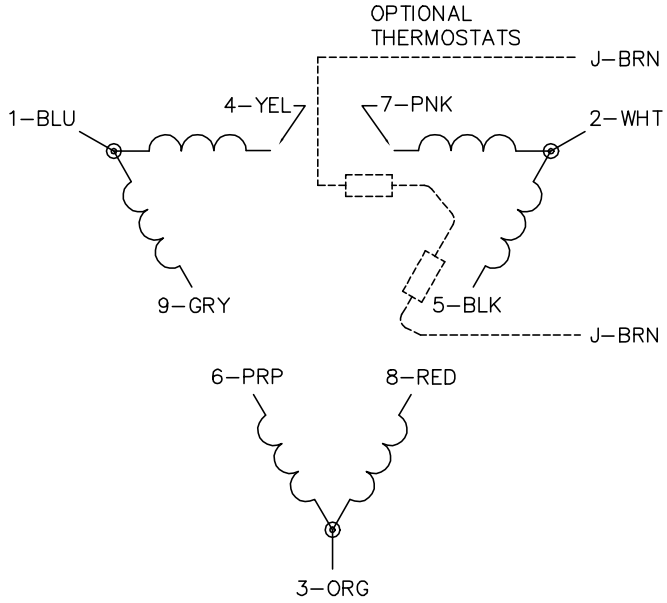
Typical performance - not guaranteed values.

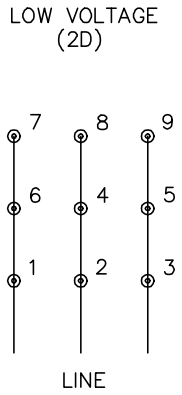
TORQUES(LB-FT): PO=132 PU=69.2 LR=80.6 LRA=94.6

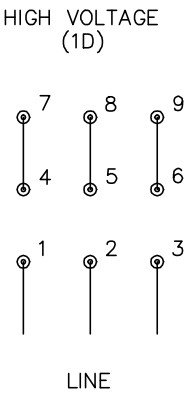



39LYK057
3920 - 3944 = 21.69
3946 - 3958 = 21.69
3960 - 3966 = 24.19
3.90
4.31
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
.63
10.00
4.25
11.25
11.69
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø 1.75
.25
5.00
5.00
7.69
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: L
VERSION: 09
REVISED: 09:38:32 12/09/2025
TDR: 000001268407
MODEL NO. 39LYK057
REF: -
BY: USJOCUR5
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

SH 1 of 1