BALDOR • RELIANCE

Customer information packet

GNEM2506T-G

7.5HP//5KW, 1180//980RPM, 3PH, 60//50HZ, 256
Class - None
Division - Not Applicable

12/22/2025 5:50:57 PM

Specifications

Enclosure	OPSB
Frame	256T
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	1200 RPM @ 60 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	36.000 A @ 190.0 V
	23.200 A @ 208.0 V
	22.400 A @ 230.0 V
	18.000 A @ 380.0 V

Part detail

Revision	E
Type	AC
Mech. spec.	39E366
Base	
Status	PRD/A
Elec. spec.	39WGY465
Layout	39LYE366
Eff. date	08-25-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	09-06-2023

	16.500 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	16.5 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
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	3950M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	69
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	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1180 rpm
	980 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-G								
SPEC.	39E366Y465G1								
HP	7.5HP//5KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	23.2-22.4/16.5//36/18								
R.P.M. (1/MIN)	1180//980				**WT.**	112KG	**KG**		
FRAME	254T	**HZ**	60//50		**I.P.**	22			
SER.F.	1.15	**CODE**	H	**DES.**	A	**CLASS**	H		
NOM.EFF.	90.2//89.0	**% (100%)**							
P.F.	69	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT			**CC**	010A				
DE	6309	**ODE**	6208						
ENCL	OPSB	**SN**							
	SFA 32-36/18//42/21								
	IE3-50HZ-89.5(75%),87.0(50%)								
	IE3-60HZ-88.8(75%),85.6(50%)								

AC Induction Motor Performance Data
Record # 102717
Typical performance - not guaranteed values

Winding: 39WGY465-R002	**Type:** 3950M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5HP//5KW	**Full Load Torque**	32.93 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			23.2-22.4/16.5//36/18	**Breakdown Torque**	149 LB-FT
R.P.M.			1180//980	**Pull-up Torque**	66.9 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	103 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	96.2 A
Service Factor (S.F.)			1.15	**No-load Current**	10.62 A
NEMA Nom. Eff.	90.2	**Power Factor**	69	**Line-line Res. @ 25ºC**	0.643 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps			32-36/18//42/21	**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	26.3
				Rotor inertia	4.02 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	21	35	45	54	59	63	57
Efficiency	76.3	85.6	88.8	90.3	90.8	90.8	90.6
Speed	1197	1194	1193	1192	1188	1184	1190
Line amperes	11.22	11.97	13.11	14.46	16.4	18.15	15.6

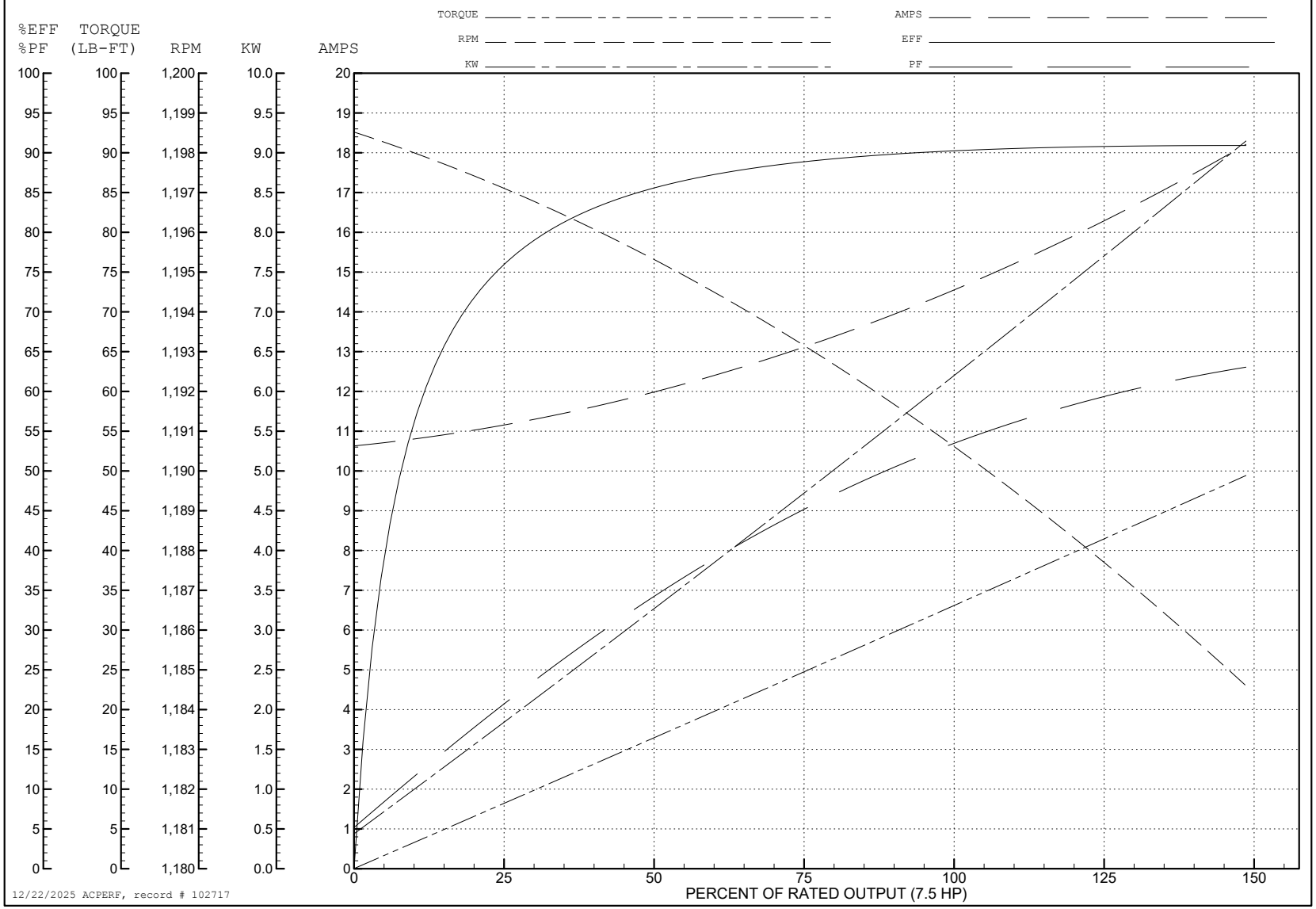
ABB Motors and Mechanical Inc.

WINDING # 39WGY465

7.5 HP 3 PH 60 HZ 1192 RPM 460 V 3950M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=149 PU=66.9 LR=103 LRA=96.2



12/22/2025 ACPERF, record # 102717

AC Induction Motor Performance Data
Record # 102718
Typical performance - not guaranteed values

Winding: 39WGY465-R002	**Type:** 3950M	**Enclosure:** OPSB

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			7.5HP//5KW	**Full Load Torque**	39.74 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			23.2-22.4/16.5//36/18	**Breakdown Torque**	144 LB-FT
R.P.M.			1180//980	**Pull-up Torque**	70.1 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	108 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	94 A
Service Factor (S.F.)			1.15	**No-load Current**	10.35 A
NEMA Nom. Eff.	90.2	**Power Factor**	69	**Line-line Res. @ 25ºC**	0.643 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps			32-36/18//42/21	**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	29.5
				Rotor inertia	4.02 lb-ft²

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	25	41	52	60	65	68	63
Efficiency	78.8	87	89.5	90.4	90.4	90.1	90.4
Speed	996	993	991	989	984	980	986
Line amperes	11.02	12.05	13.65	15.53	18.1	20.52	17.1

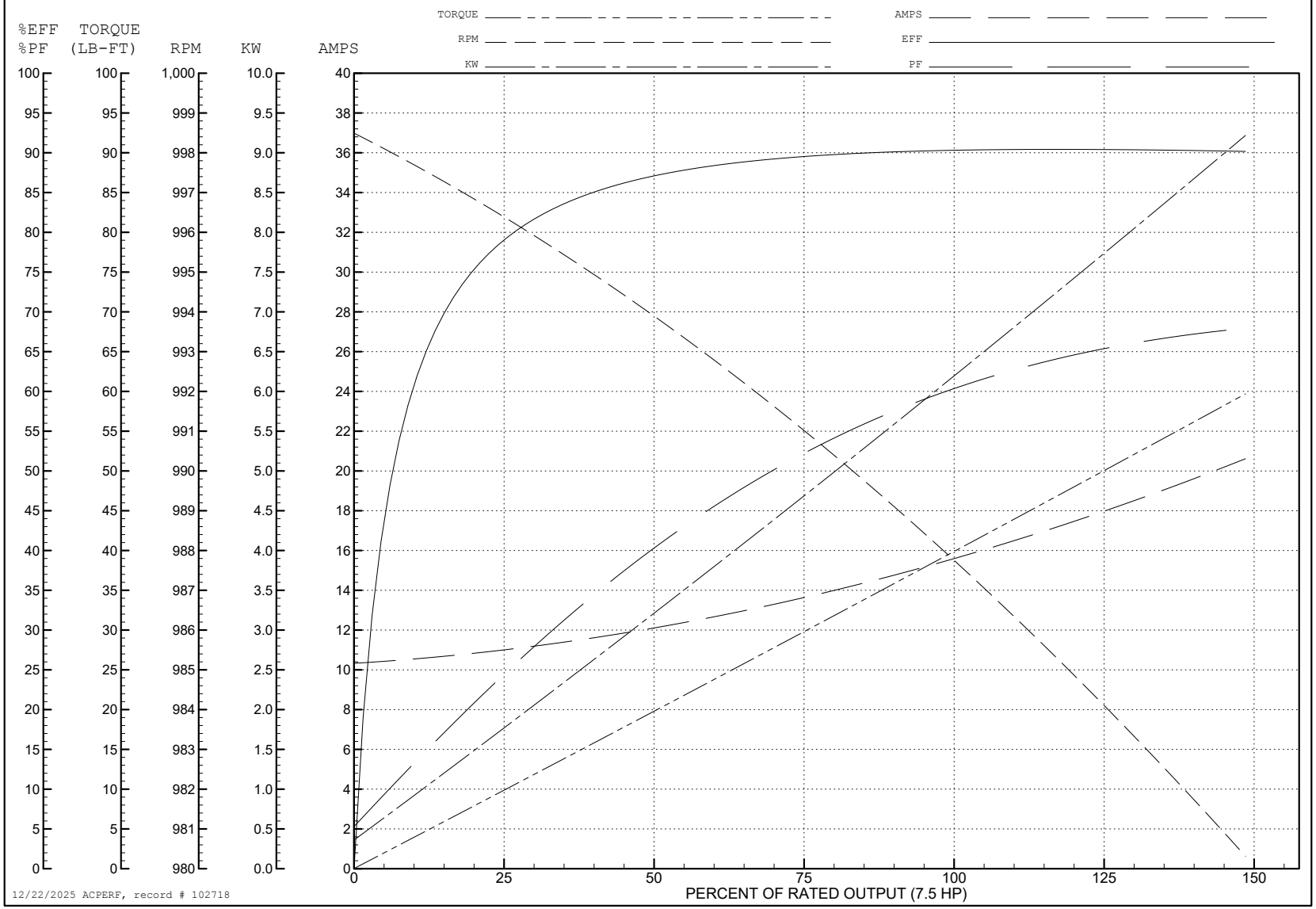
ABB Motors and Mechanical Inc.

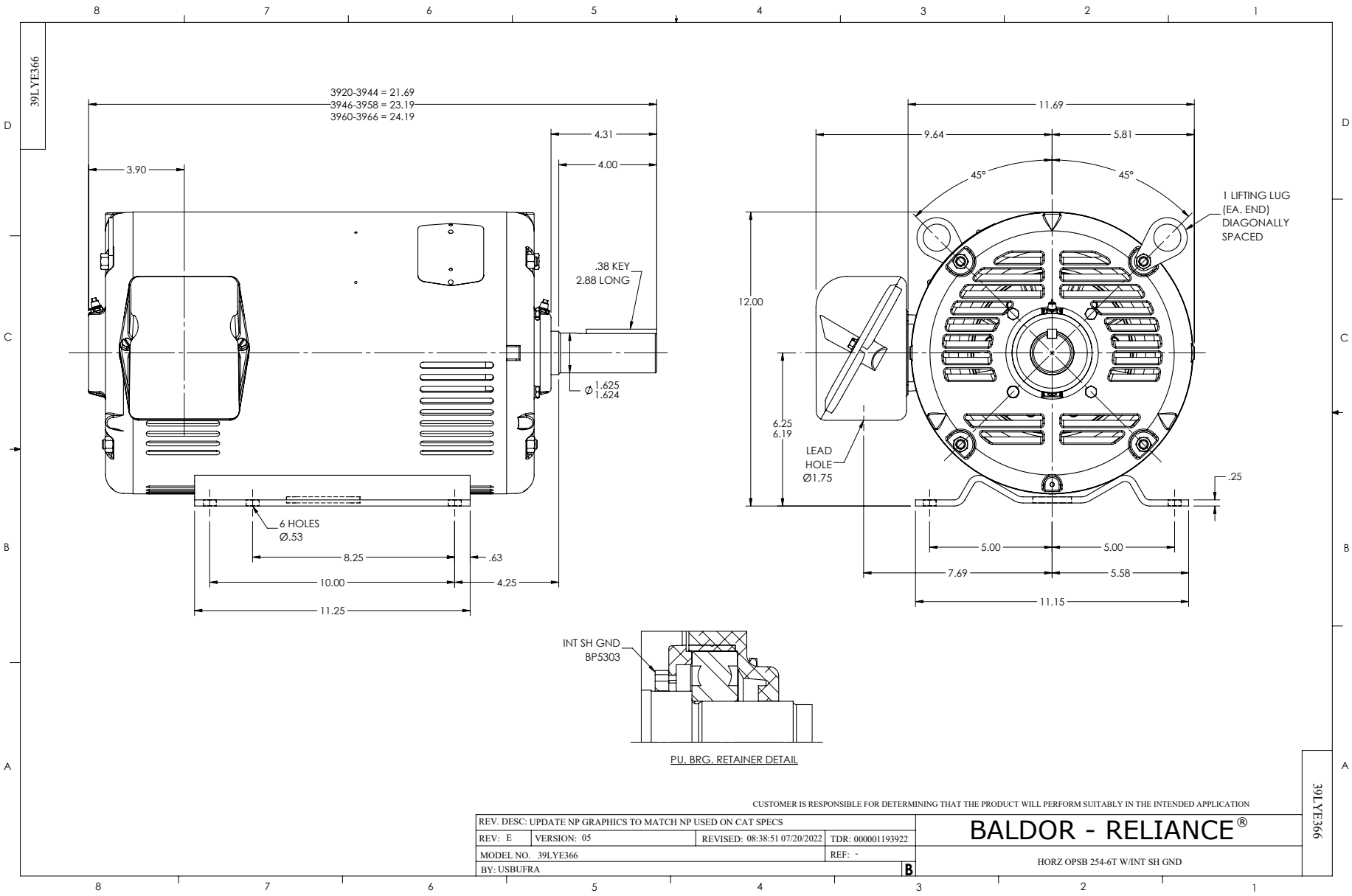
WINDING # 39WGY465

7.5 HP 3 PH 50 HZ 989 RPM 380 V 3950M

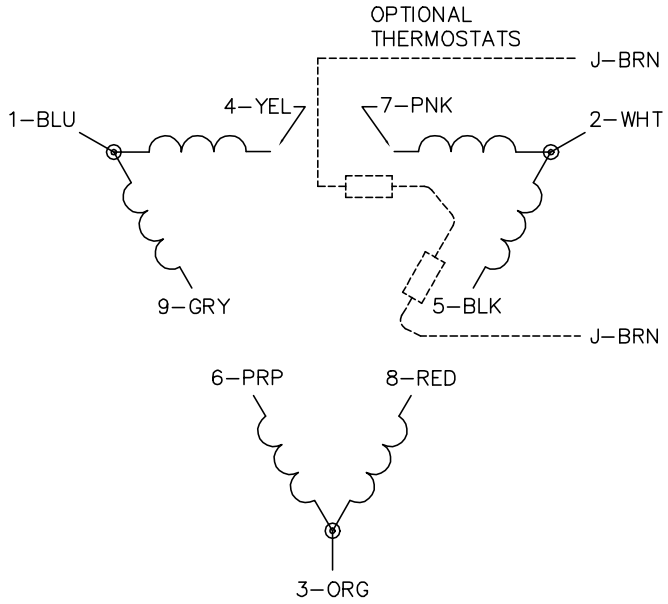
Typical performance - not guaranteed values.

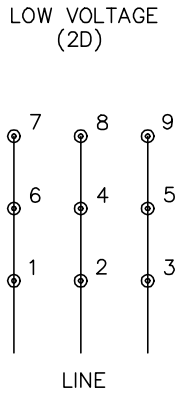
TORQUES(LB-FT): PO=144 PU=70.1 LR=108 LRA=94

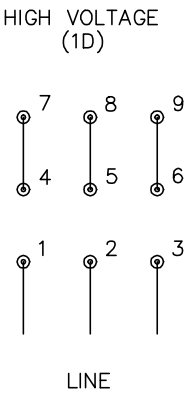



39LYE366
3920-3944 = 21.69
3946-3958 = 23.19
3960-3966 = 24.19
4.31
4.00
3.90
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø.53
8.25
.63
10.00
4.25
11.25
11.69
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
12.00
6.25
6.19
LEAD
HOLE
Ø1.75
.25
5.00
5.00
7.69
5.58
11.15
INT SH GND
BP5303
PU. BRG. RETAINER DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: E
VERSION: 05
REVISED: 08:38:51 07/20/2022
TDR: 000001193922
MODEL NO. 39LYE366
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T W/INT SH GND
39LYE366

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