

ABB BALDOR RELIANCE III

Customer information packet

GNEM2506T-G

7.5HP//5KW, 1180//980RPM, 3PH, 60//50HZ, 256

Class - None

Division - Not Applicable

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

Part Detail

Revision	F
Type	AC
Mech. spec.	39E366
Base	
Status	PRD/A
Elec. spec.	39WGY465
Layout	39LYE366
Eff. date	02-11-2026
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	09-06-2023

	18.000 A @ 380.0 V
	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. @ 25°C		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

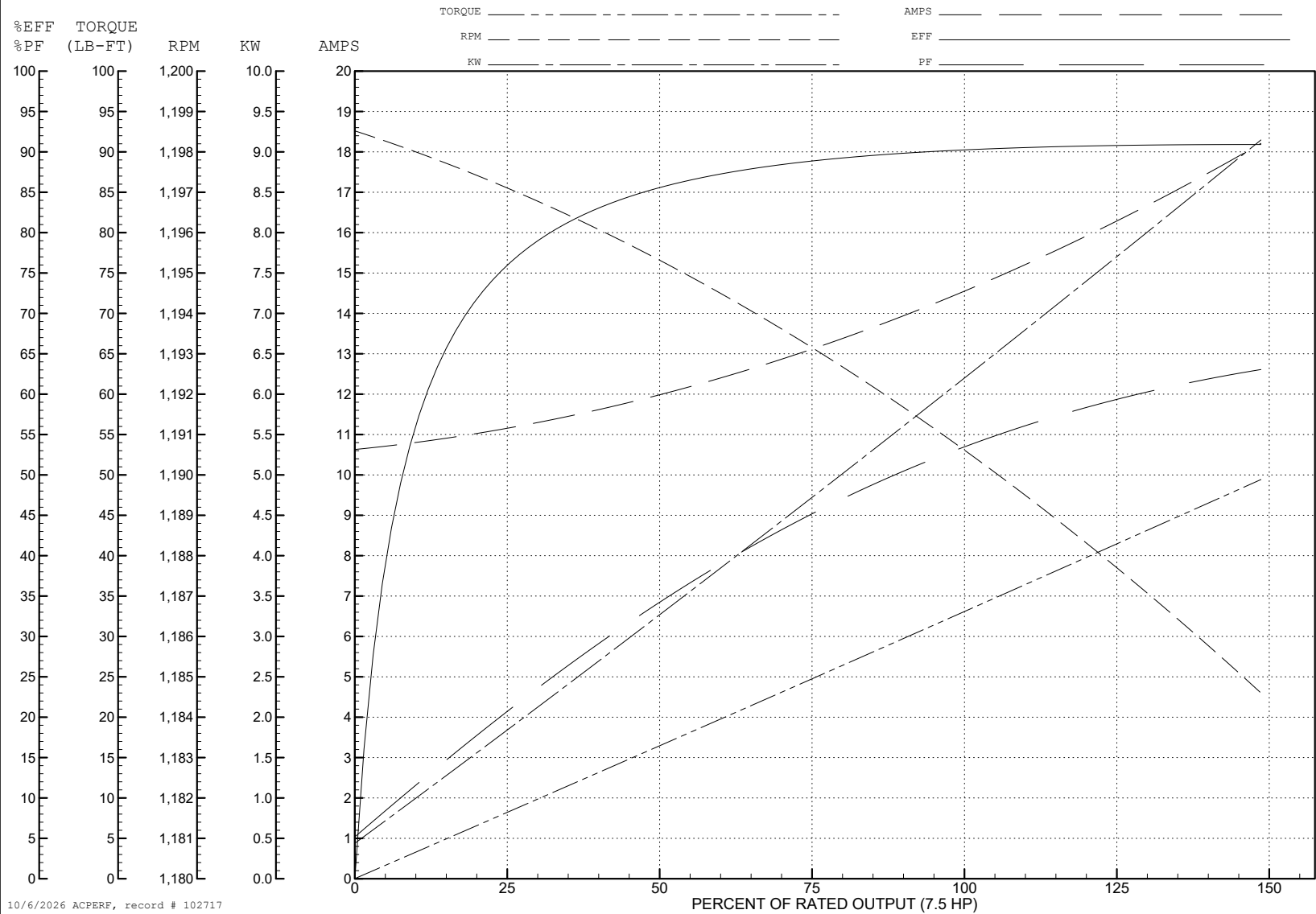
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WINDING # 39WGY465

Typical performance - not guaranteed values.

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

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



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. @ 25°C		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

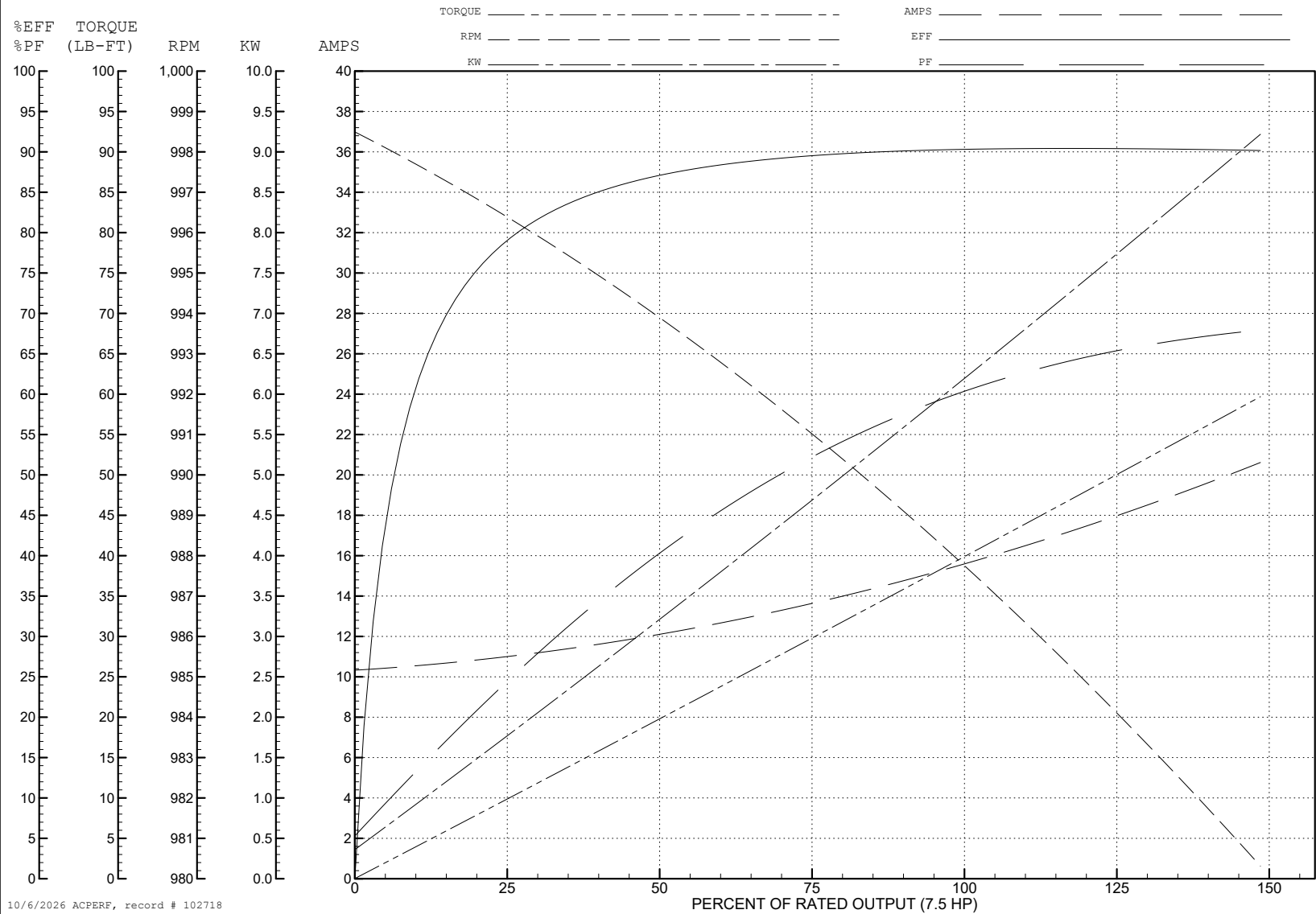
ABB Motors and Mechanical Inc.

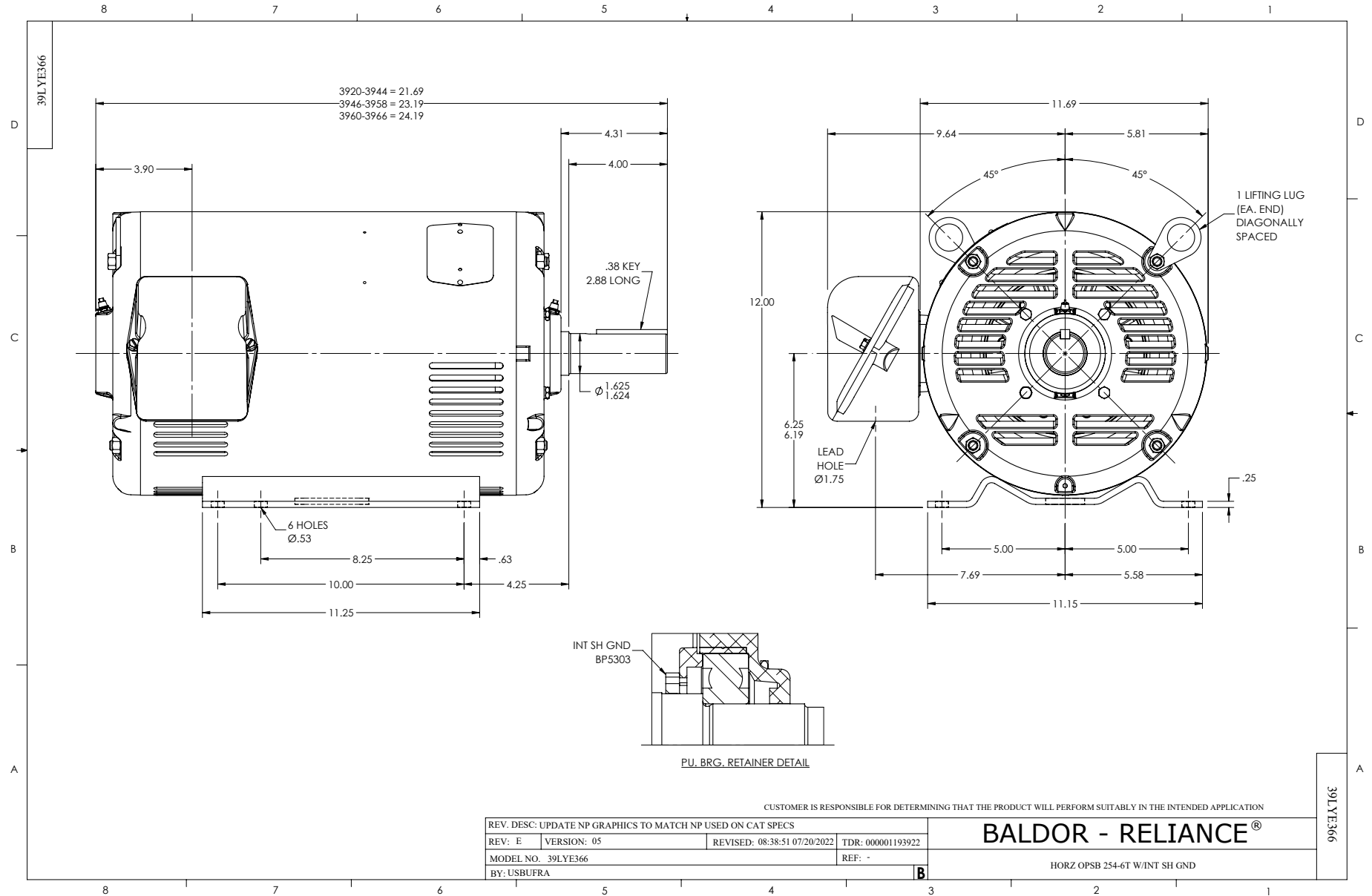
WINDING # 39WGY465

Typical performance - not guaranteed values.

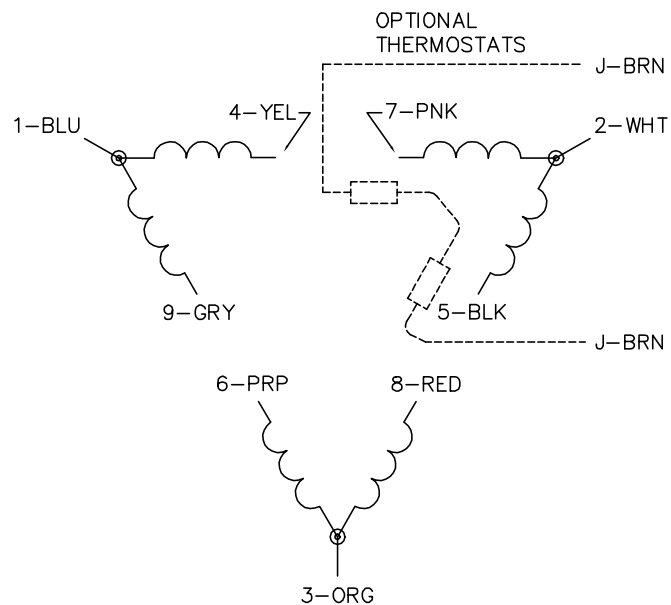
7.5 HP 3 PH 50 HZ 989 RPM 380 V 3950M

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

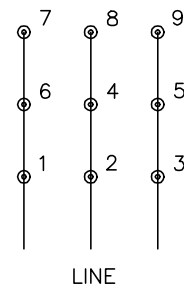




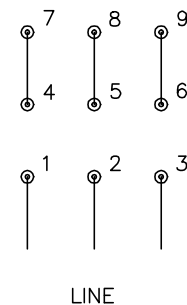
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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