

**BALDOR • RELIANCE**

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# Customer information packet

## GNEM2515T

20HP//15KW, 1775//1470RPM, 3PH, 60//50HZ, 25

Class - None

Division - Not Applicable

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## 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	20.000 HP @ 60 HZ 15.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE UKCA NEMA_PREMIUM NEMA PREMIUM IE3 CURUS CE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	58.000 A @ 190.0 V 52.000 A @ 208.0 V 50.000 A @ 230.0 V

## Part detail

Revision	F
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGY464
Layout	39LYK057
Eff. date	08-08-2024
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	08-15-2023

	29.000 A @ 380.0 V
	25.000 A @ 460.0 V
<b>Design Code</b>	A
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	93.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	25.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 10 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3958M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	23.19 IN
<b>Power Factor</b>	81
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible

<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1470 rpm 1775 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP4304L</b>									
<b>CAT.NO.</b>	GNEM2515T								
<b>SPEC.</b>	39K057Y464G1								
<b>HP</b>	20HP//15KW				<b>PH</b>	3			
<b>VOLTS</b>	208-230/460//190/380								
<b>AMPS</b>	52-50/25//58/29								
<b>R.P.M. (1/MIN)</b>	1775//1470				<b>WT.</b>	132KG		<b>KG</b>	
<b>FRAME</b>	256T		<b>HZ</b>	60//50		<b>I.P.</b>	22		
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES.</b>	A	<b>CLASS</b>	F		
<b>NOM.EFF.</b>	93//92.1		<b>% (100%)</b>						
<b>P.F.</b>	81	IC01, 10:1 VT							
<b>RATING</b>	40C AMB-S1 CONT				<b>CC</b>	010A			
<b>DE</b>	6309		<b>ODE</b>	6208					
<b>ENCL</b>	<b>OPSB</b>	<b>SN</b>							
	SFA 60-56/28//66/33								
	IE3-50HZ 93.5(75%),93.4(50%)								
	IE3-60HZ-93.6(75%),92.8(50%)								

**AC Induction Motor Performance Data**

Record # 105258

Typical performance - not guaranteed values

<b>Winding: 39WGY464-R001</b>		<b>Type: 3958M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	20HP//15KW		<b>Full Load Torque</b>	59.1 LB-FT	
<b>Volts</b>	208-230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	52-50/25//58/29		<b>Breakdown Torque</b>	211 LB-FT	
<b>R.P.M.</b>	1775//1470		<b>Pull-up Torque</b>	130 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	139 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	204 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	12 A	
<b>NEMA Nom. Eff.</b>	93	<b>Power Factor</b>	81	<b>Line-line Res. @ 25°C</b>	0.34364 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	32°C	
<b>S.F. Amps</b>	60-56/28//66/33		<b>Temp. Rise @ S.F. Load</b>	38°C	
			<b>Locked-rotor Power Factor</b>	31.6	

**Load Characteristics 460 V, 60 Hz, 20 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	40	62	74	80	84	85	82
<b>Efficiency</b>	87.8	92.3	93.4	93.4	93.1	92.4	93.2
<b>Speed</b>	1793.9	1788.4	1782.4	1776.8	1770.5	1762.9	1773
<b>Line amperes</b>	13.3	16.2	20.2	24.9	30	35.5	28

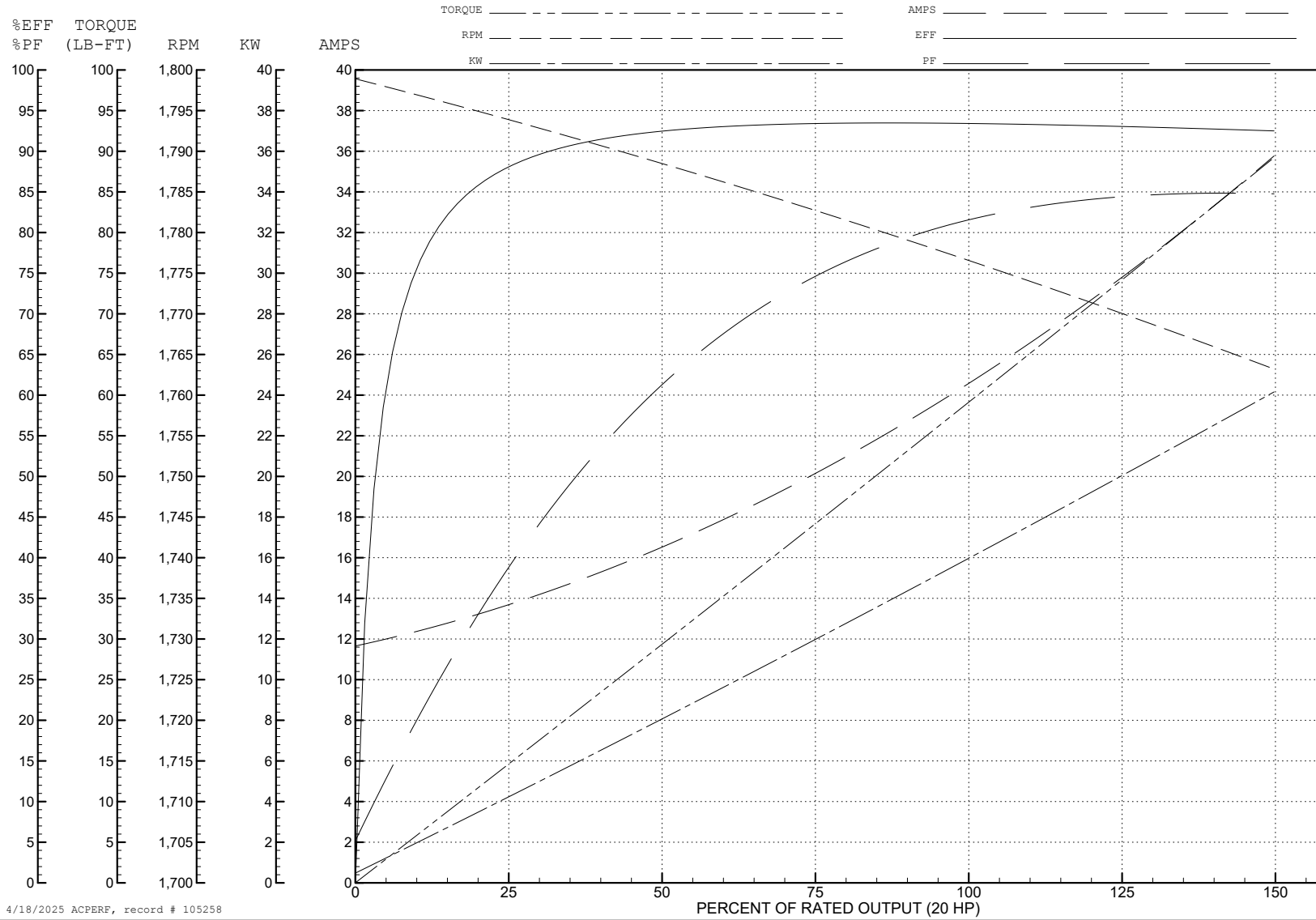
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WINDING # 39WGY464

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1776.8 RPM 460 V 3958M

TORQUES (LB-FT): PO=211 PU=130 LR=139 LRA=204



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**AC Induction Motor Performance Data**

Record # 105259

Typical performance - not guaranteed values

<b>Winding: 39WGY464-R001</b>		<b>Type: 3958M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	20HP//15KW		<b>Full Load Torque</b>	71.85 LB-FT	
<b>Volts</b>	208-230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	52-50/25//58/29		<b>Breakdown Torque</b>	217 LB-FT	
<b>R.P.M.</b>	1775//1470		<b>Pull-up Torque</b>	130 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	136 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	197 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	11.6 A	
<b>NEMA Nom. Eff.</b>	93	<b>Power Factor</b>	81	<b>Line-line Res. @ 25°C</b>	0.34364 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	44°C	
<b>S.F. Amps</b>	60-56/28//66/33		<b>Temp. Rise @ S.F. Load</b>	51°C	
			<b>Locked-rotor Power Factor</b>	34.9	

**Load Characteristics 380 V, 50 Hz, 20 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	47	69	79	84	85	86	85
<b>Efficiency</b>	90	92.9	93	92.4	91.8	91.3	92
<b>Speed</b>	1492.4	1484.9	1476.9	1468.4	1462.8	1458.8	1465
<b>Line amperes</b>	13.5	17.7	23.1	29.3	33.3	36.2	31.7



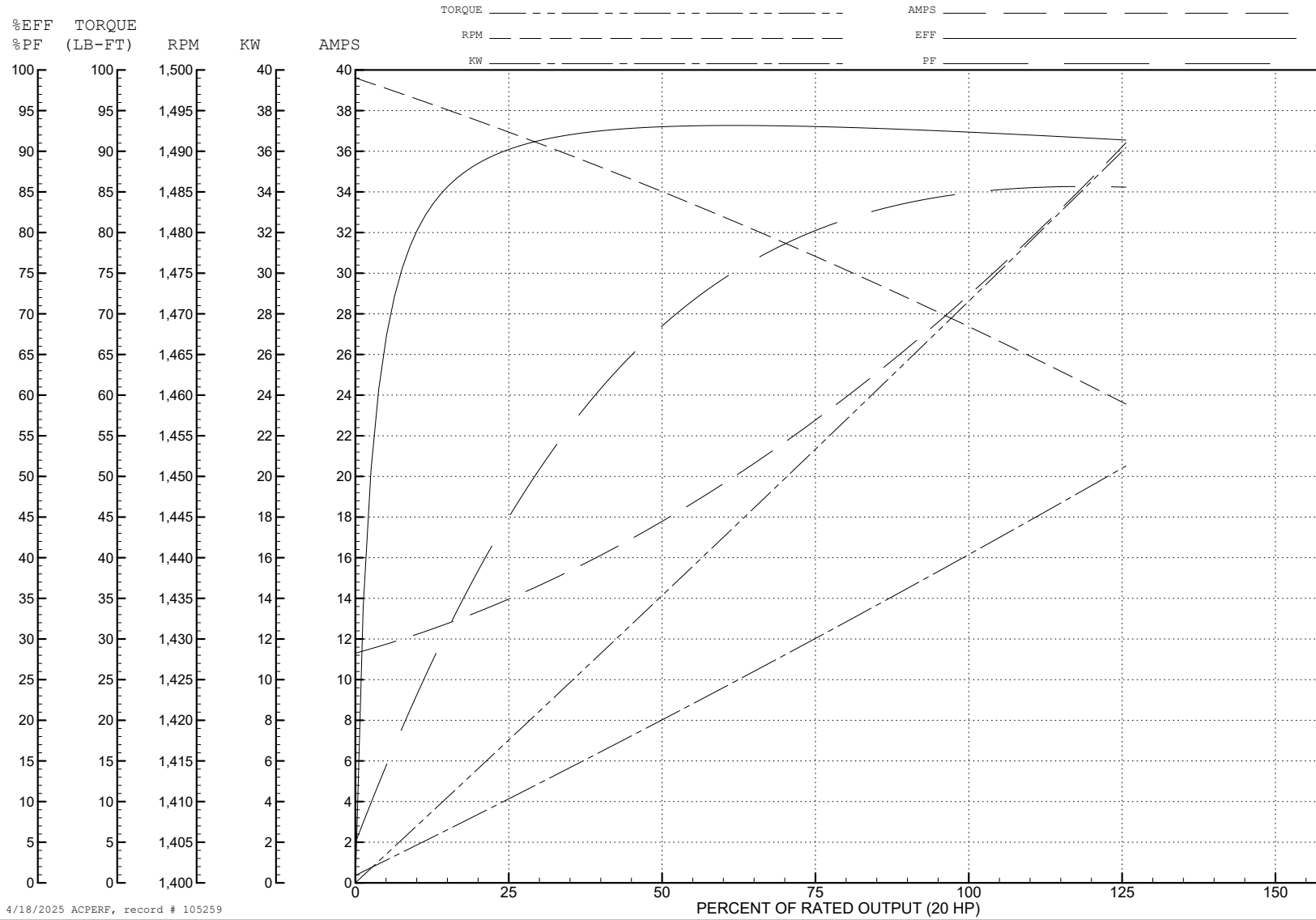
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WINDING # 39WGY464

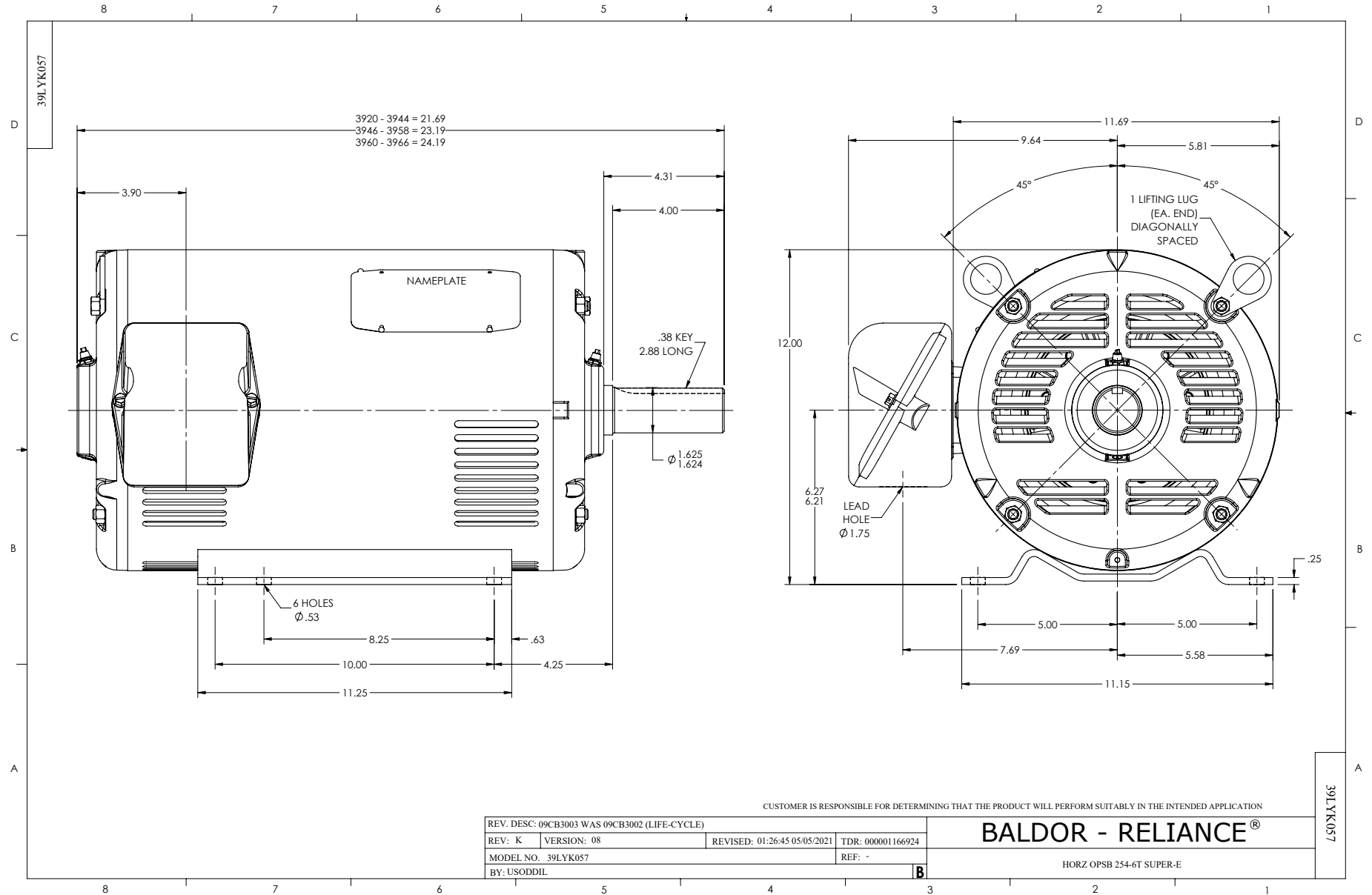
Typical performance - not guaranteed values.

20 HP 3 PH 50 HZ 1468.4 RPM 380 V 3958M

TORQUES (LB-FT): PO=217 PU=130 LR=136 LRA=197



4/18/2025 ACPERF, record # 105259



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		
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FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
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3PH, DV, 9 LEADS, DELTA CONNECTION

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