

ABB BALDOR RELIANCE III

Customer information packet

SPM3914T

20HP, 1775RPM, 3PH, 60HZ, 256T, 3976M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM 4 WEEE
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	24.000 A @ 460.0 V 48.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a

Part Detail

Revision	C
Type	AC
Mech. spec.	39E762
Base	
Status	PRD/A
Elec. spec.	39WGY451
Layout	39LYE762
Eff. date	12-18-2025
CD Diagram	CD0180
Poles	04
Leads	9#10 Y
Proprietary	False
Created date	10-24-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3976M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.57 IN
Power Factor	84
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	1.25
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP4423A01A05L

CAT #	SPM3914T		WGT	436	LBS	
SPEC	39E762Y451		ENCL	TEFC		
SER #		CC	010A	IP	54	
HP	20	MAG CUR	19.6/9.8			
VOLTS	230/460		NEMA NOM. EFF	94.1		
AMPS	48/24		PF	84		
RATING	40C AMB-CONT					
RPM	1775		MAX RPM	2700		
FRAME	256T	HZ	60	CODE	J	CLASS F
SER.F.	1.25	SF AMP	58/29		PH	3 DES A
DE	6309	ODE	6208			
LUBRICATION	POLYREX EM					
ID LOGO	INVERTER TYPE	VPWM	CHP	60	TO	90 1.5:1
ID LOGO	WK2 3.32	CT 6	TO	60	10:1	
ID LOGO	SL HZ 0.8	VT 3	TO	60	20:1	
YR			QR			

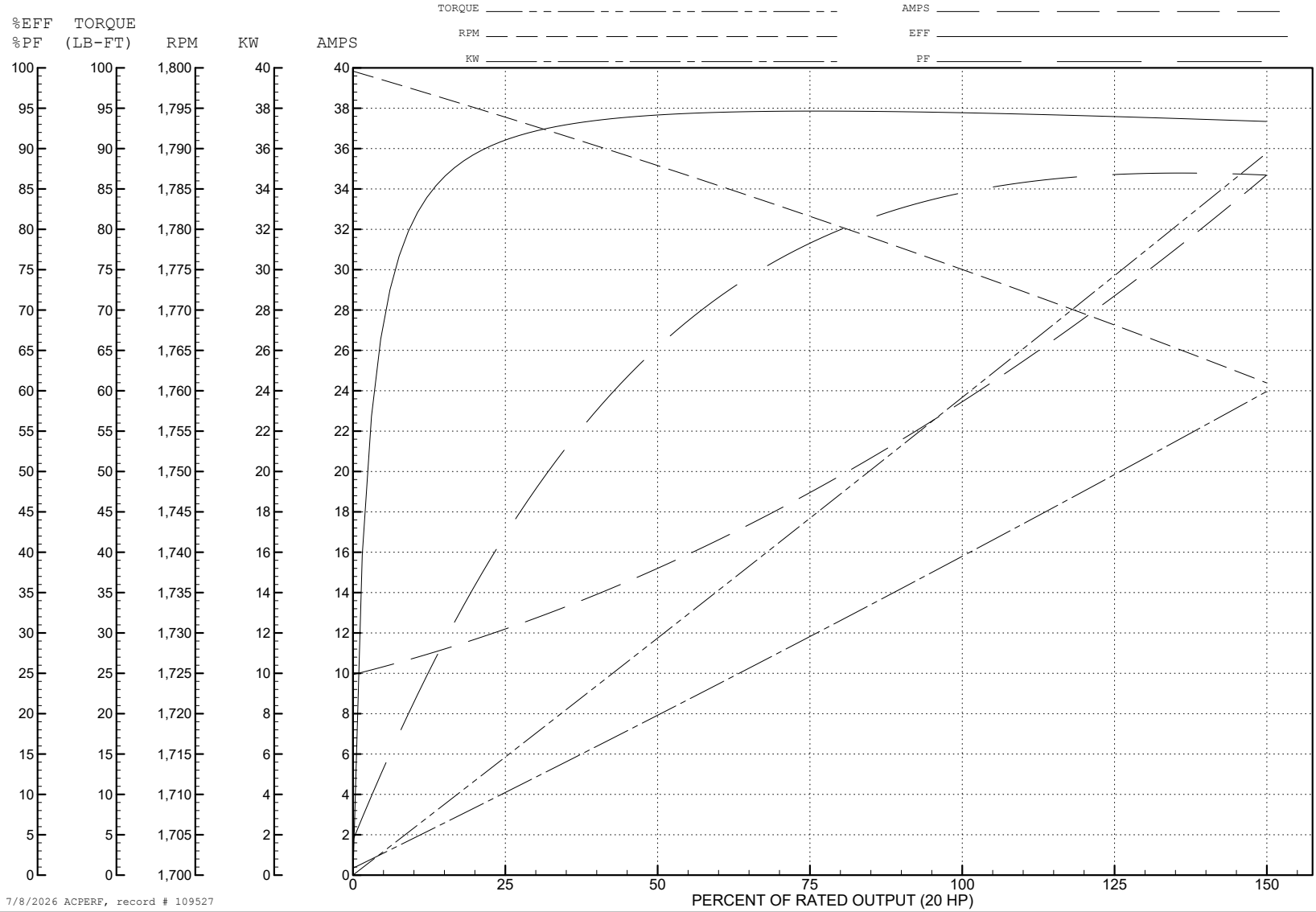
ABB Motors and Mechanical Inc.

WINDING # 39WGY451

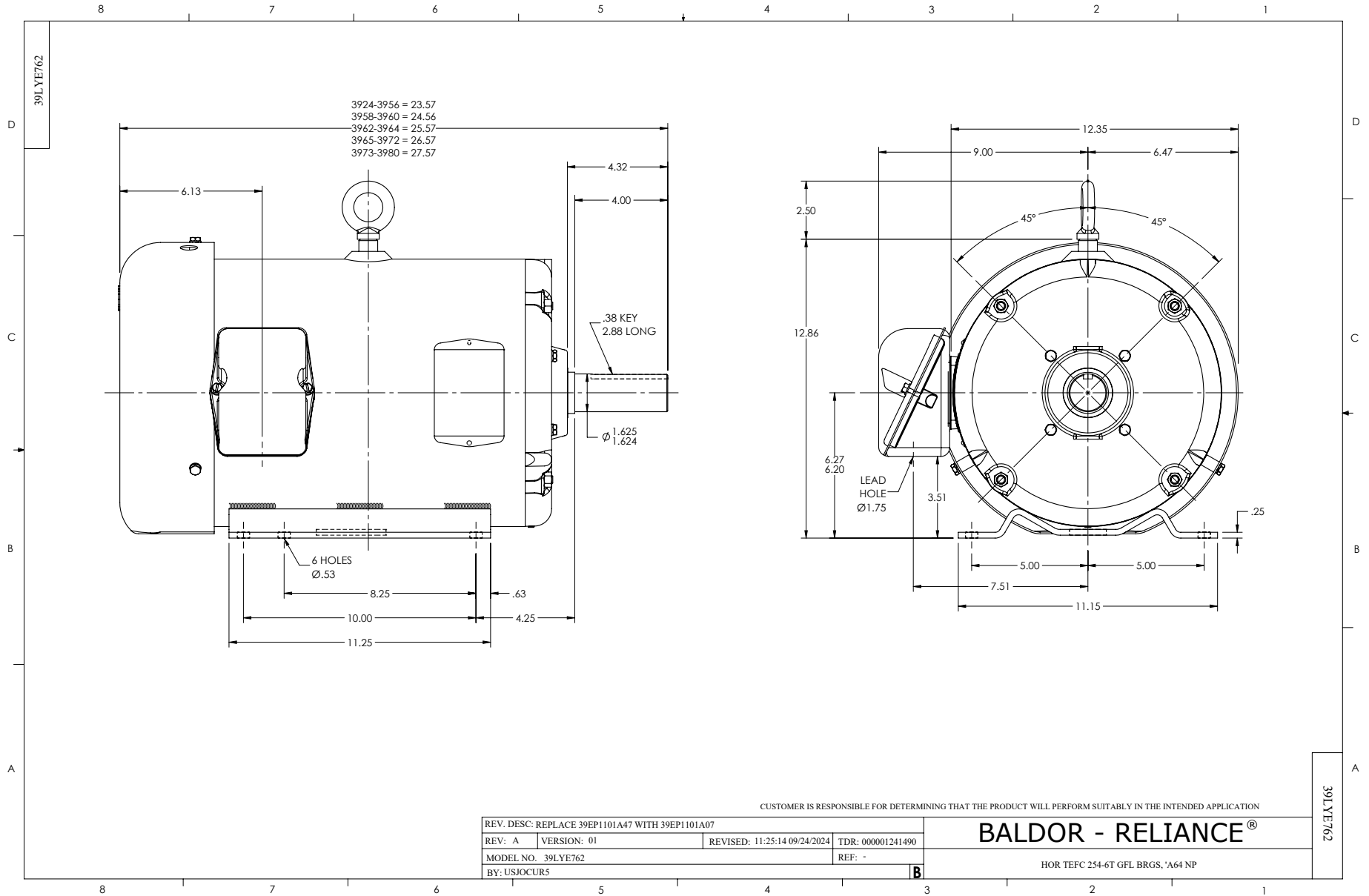
Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1775 RPM 460 V 3976M

TORQUES (LB-FT): PO=247 PU=125 LR=141 LRA=215



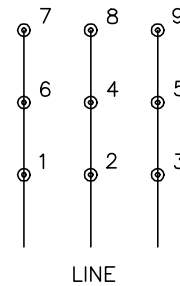
7/8/2026 ACPERF, record # 109527



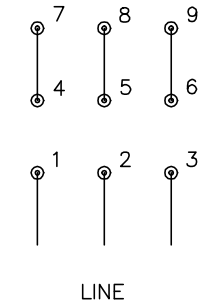
CD0180



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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