ABB BALDOR RELIANCE

Customer information packet

SPM3910T

15HP, 1770RPM, 3PH, 60HZ, 254T, 3958M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254T
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	15.000 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	18.300 A @ 460.0 V
	36.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.3 a

Part Detail

Revision	C
Type	AC
Mech. spec.	39E762
Base	
Status	PRD/A
Elec. spec.	39WGY450
Layout	39LYE762
Eff. date	12-18-2025
CD Diagram	CD0180
Poles	04
Leads	9#12 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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3958M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.56 IN
Power Factor	82
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	1770 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 #	SPM3910T			**WGT**	290	**LBS**						
SPEC	39E762Y450			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	54					
HP	15			**MAG CUR**	15.2/7.6							
VOLTS	230/460					**NEMA NOM. EFF**	93.6					
AMPS	36.6/18.3					**PF**	82					
RATING	40C AMB-CONT											
RPM	1770					**MAX RPM**	2700					
FRAME	254T	**HZ**	60	**CODE**	J	**CLASS**	F					
SER.F.	1.25	**SF AMP**	45.4/22.7			**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**	2.54	**CT**	6	**TO**	60		10:1				
ID LOGO	**SL HZ**	1	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 114778
Typical performance - not guaranteed values

Winding: 39WGY450-R003	**Type:** 3958M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.37 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36.6/18.3	**Breakdown Torque**	216 LB-FT
R.P.M.			1770	**Pull-up Torque**	102 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	128 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	174 A
Service Factor (S.F.)			1.25	**No-load Current**	9.46 A
NEMA Nom. Eff.	93.6	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.41963 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	23°C
S.F. Amps			45.4/22.7	**Temp. Rise @ S.F. Load**	30°C
				Locked-rotor Power Factor	31.4
				Rotor inertia	2.54 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	61	73	79	83	85	83
Efficiency	88.4	92.8	93.9	94.1	93.9	93.5	93.9
Speed	1795.9	1790.9	1786.2	1781.1	1776.1	1770.5	1776
Line amperes	10.4	12.6	15.4	18.8	22.5	26.4	22.5

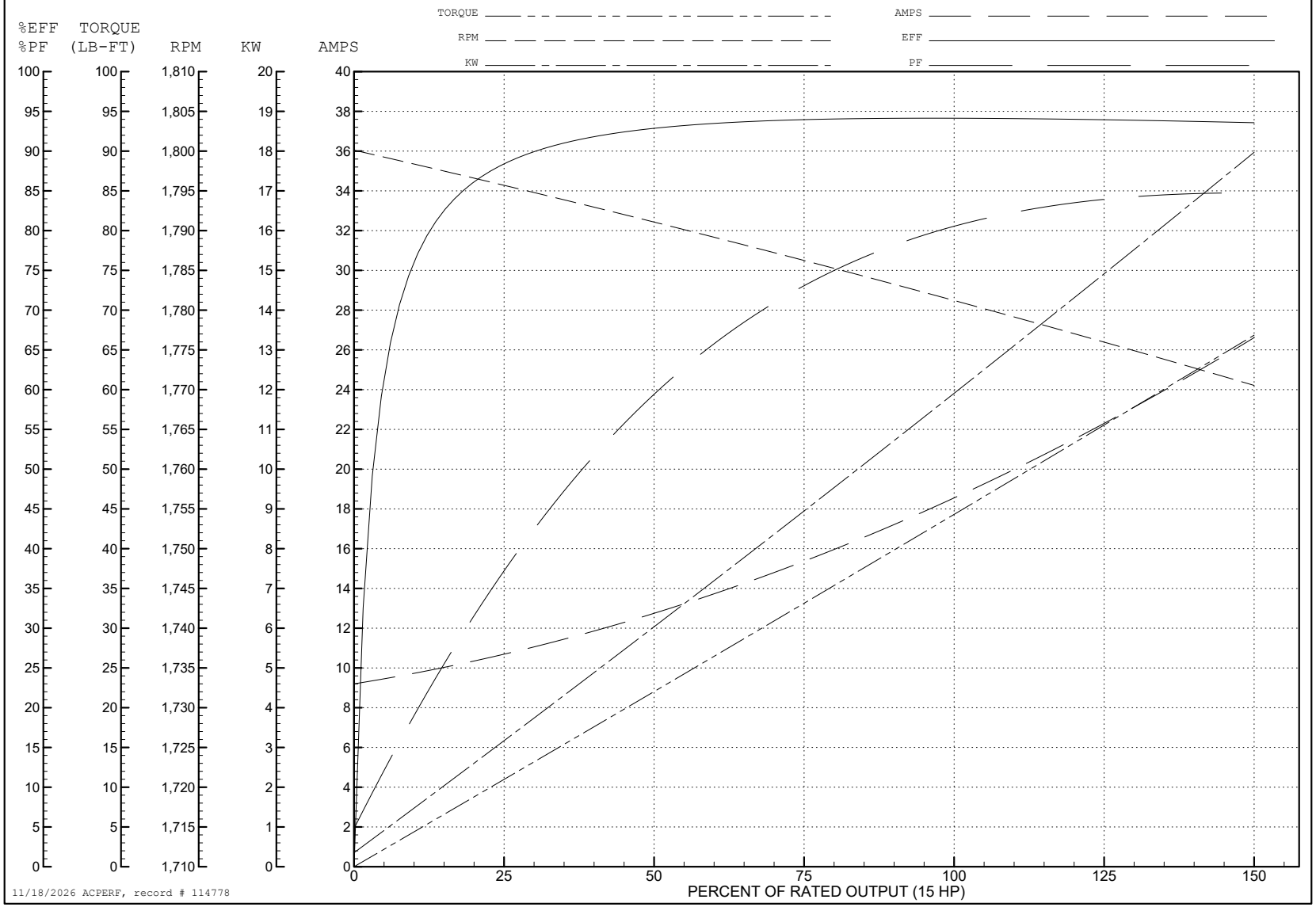
ABB Motors and Mechanical Inc.

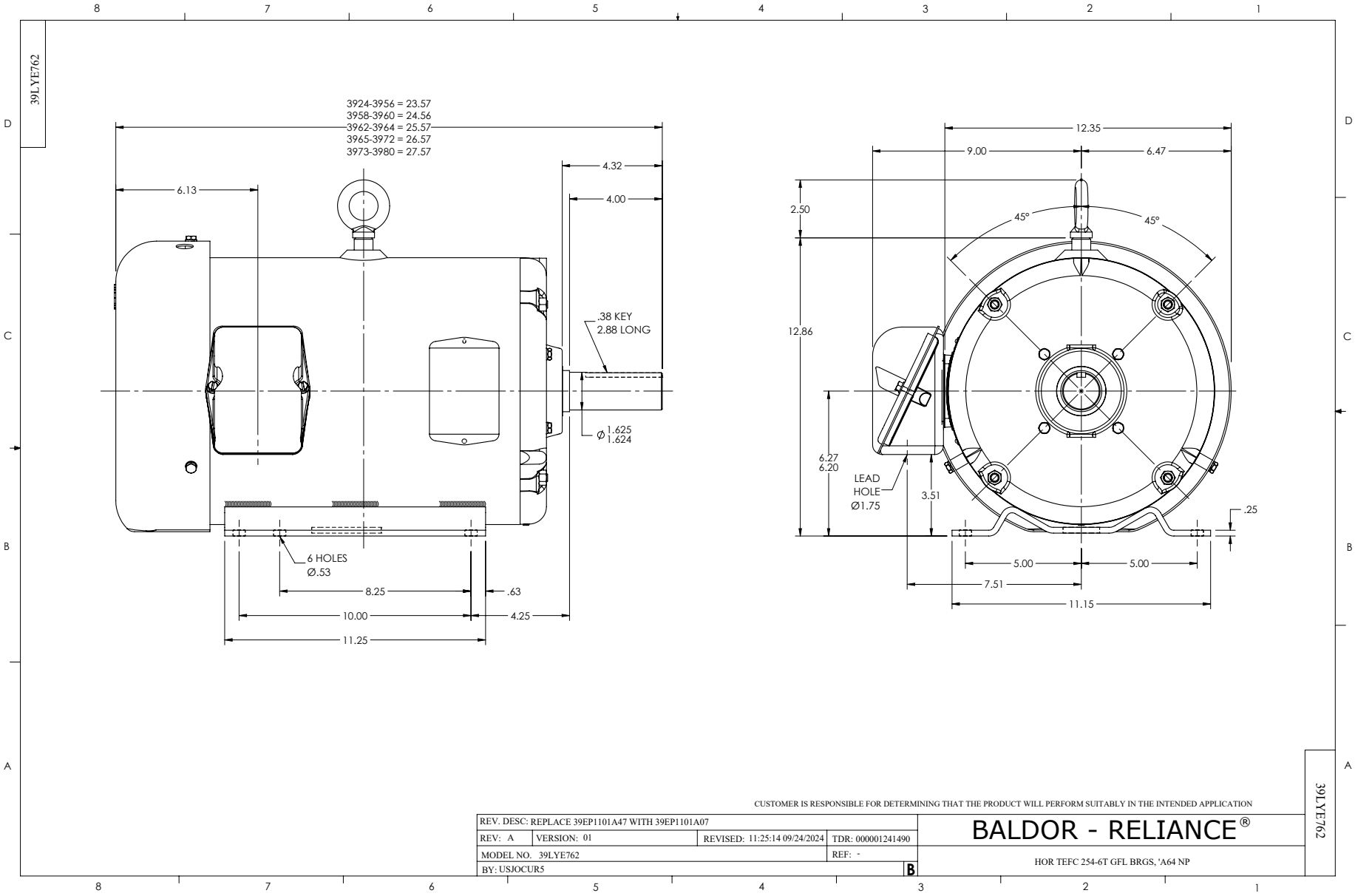
WINDING # 39WGY450

15 HP 3 PH 60 HZ 1770 RPM 460 V 3958M

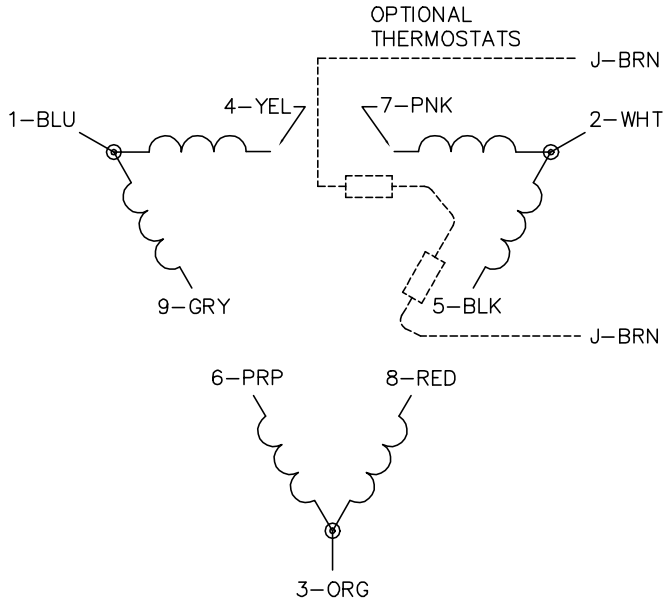
Typical performance - not guaranteed values.

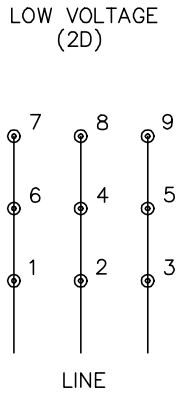
TORQUES(LB-FT): PO=216 PU=102 LR=128 LRA=174

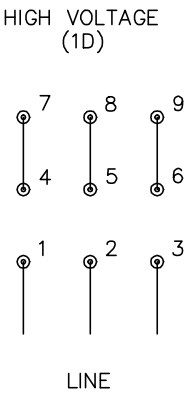



39LYE762
3924-3956 = 23.57
3958-3960 = 24.56
3962-3964 = 25.57
3965-3972 = 26.57
3973-3980 = 27.57
6.13
4.32
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø.53
8.25
.63
10.00
4.25
11.25
12.35
9.00
6.47
2.50
45°
45°
12.86
6.27
6.20
LEAD
HOLE
Ø1.75
3.51
.25
5.00
5.00
7.51
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REPLACE 39EP1101A47 WITH 39EP1101A07
REV: A
VERSION: 01
REVISED: 11:25:14 09/24/2024
TDR: 000001241490
MODEL NO. 39LYE762
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HOR TEFC 254-6T GFL BRGS, 'A64 NP
39LYE762

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: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

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