ABB BALDOR RELIANCE

Customer information packet

EFM2515T

20HP, 1765RPM, 3PH, 60HZ, 256T, 3948M, OPSB, F2
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	48.000 A @ 230.0 V
	52.000 A @ 208.0 V
	24.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	39K70
Base	
Status	PRD/A
Elec. spec.	39WGX952
Layout	39LYK070
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	06-22-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3948M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	23.19 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP1259L										
CAT.NO.	EFM2515T									
SPEC.	39K070X952G1									
HP	20									
VOLTS	230/460									
AMP	48/24									
RPM	1765									
FRAME	256T		**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	A	**CL**	F			
NEMA-NOM-EFF	93	**PF**	85							
RATING	40C AMB-CONT									
CC	010A									
DE	6309		**ODE**	6208						
ENCL	OPSB	**SN**								

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

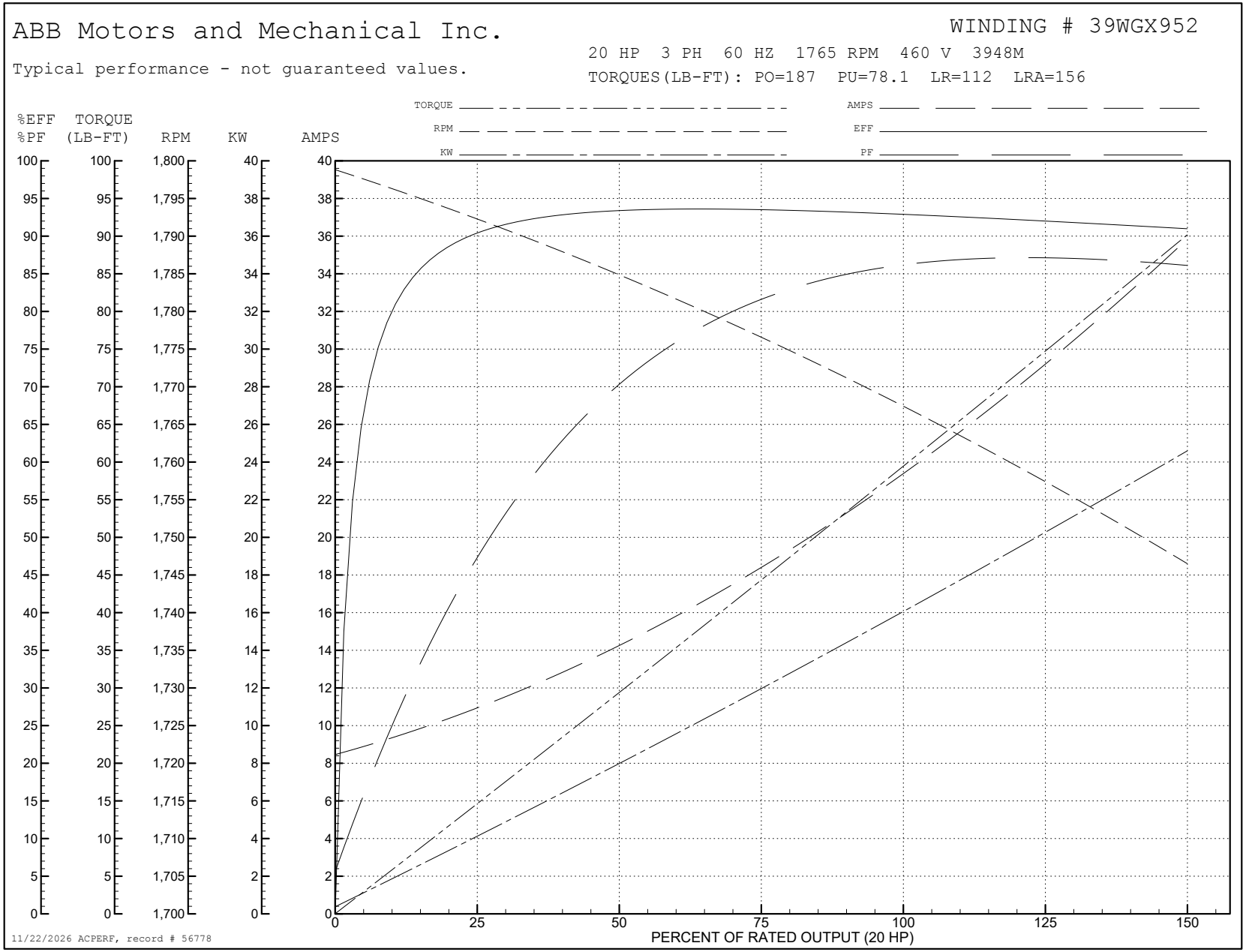
AC Induction Motor Performance Data
Record # 56778
Typical performance - not guaranteed values

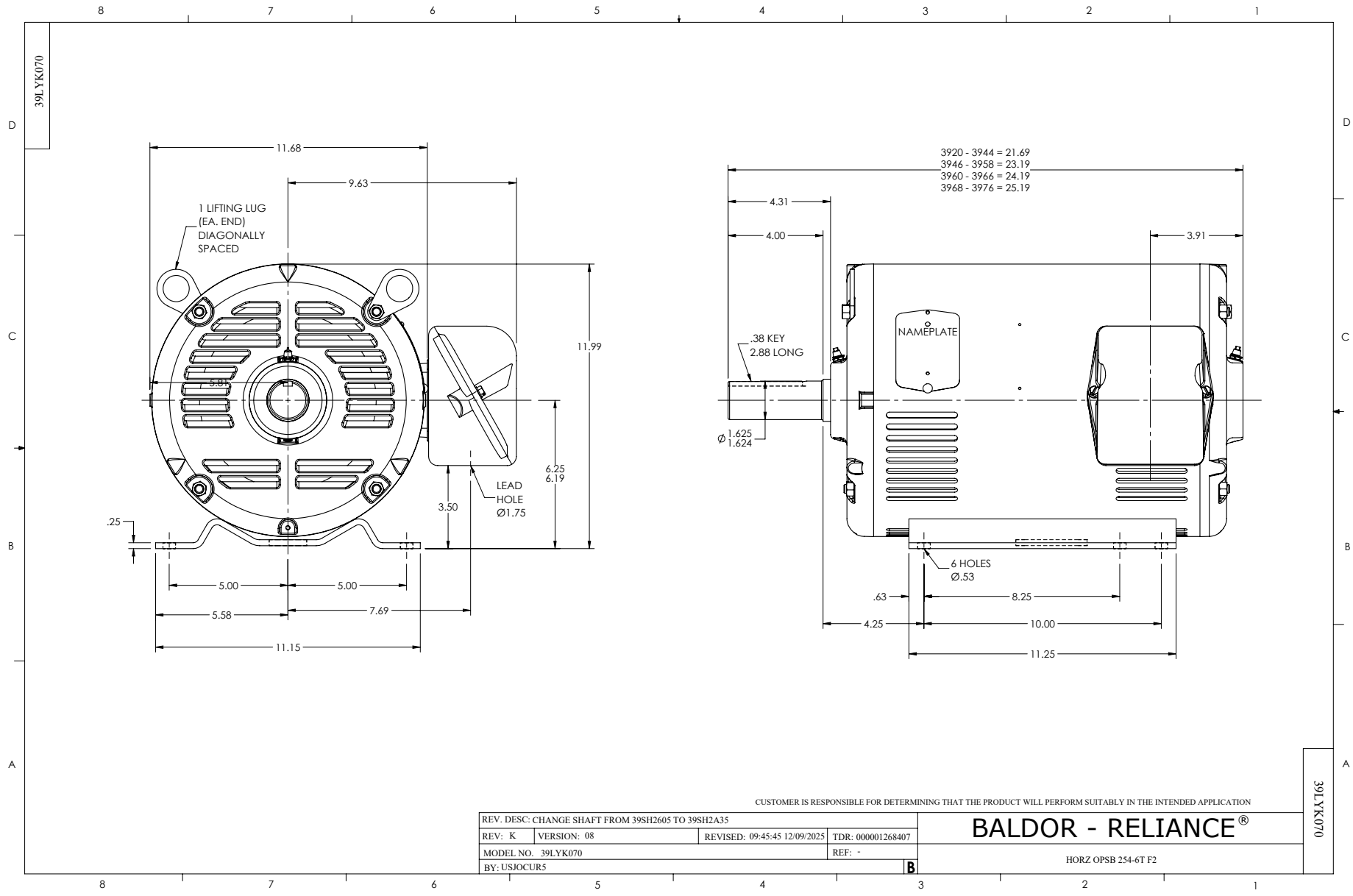
Winding: 39WGX952-R001	**Type:** 3948M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	59.7 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			48/24	**Breakdown Torque**	187 LB-FT
R.P.M.			1765	**Pull-up Torque**	78.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	112 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	156 A
Service Factor (S.F.)			1.15	**No-load Current**	8.83 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.48438 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps				**Temp. Rise @ S.F. Load**	46°C
				Locked-rotor Power Factor	33.3

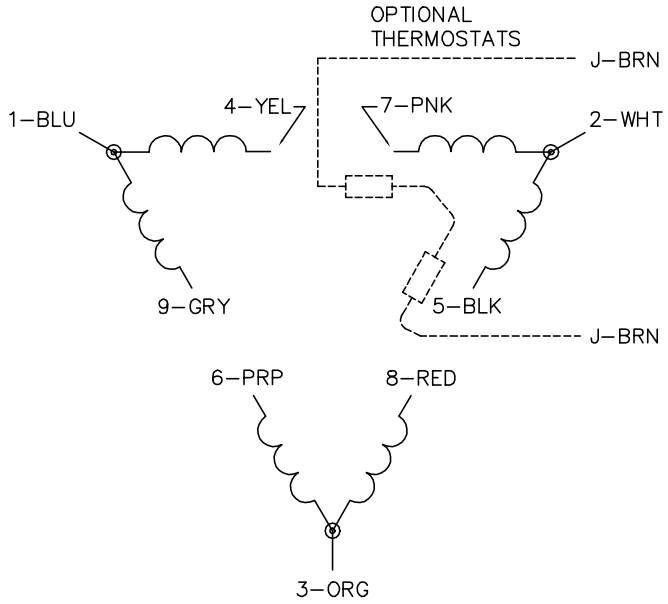
Load Characteristics 460 V, 60 Hz, 20 HP

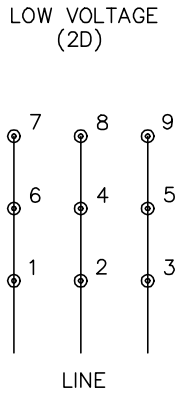
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	72	81	85	87	87	86
Efficiency	90.2	93.3	93.5	93	92.2	91	92.5
Speed	1792.2	1784.8	1776.1	1767.5	1757.6	1746.3	1762
Line amperes	10.5	14	18.6	23.8	29.4	35.6	27.2

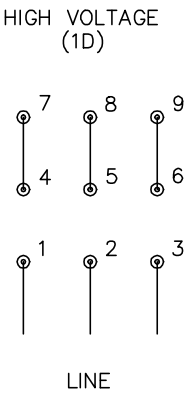

ABB Motors and Mechanical Inc.
WINDING # 39WGX952
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 1765 RPM 460 V 3948M
TORQUES(LB-FT): PO=187 PU=78.1 LR=112 LRA=156
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/22/2026 ACPERF, record # 56778


39LYK070
11.68
9.63
1 LIFTING LUG (EA. END) DIAGONALLY SPACED
11.99
5.81
6.25
6.19
3.50
LEAD HOLE Ø1.75
.25
5.00
5.00
5.58
7.69
11.15
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
3968 - 3976 = 25.19
4.31
4.00
3.91
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES Ø.53
.63
8.25
4.25
10.00
11.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: K
VERSION: 08
REVISED: 09:45:45 12/09/2025
TDR: 000001268407
MODEL NO. 39LYK070
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T F2
39LYK070

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