ABB BALDOR RELIANCE

Customer information packet

EM2516T-8

25HP, 3515RPM, 3PH, 60HZ, 256T, 3938M, OPSB, F1
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV 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	65.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	65.0 a
Insulation Class	F

Part Detail

Revision	AA
Type	AC
Mech. spec.	39K57
Base	
Status	PRD/A
Elec. spec.	39WGX813
Layout	39LYK057
Eff. date	12-12-2025
CD Diagram	CD0695
Poles	02
Leads	6#6
Proprietary	False
Created date	05-14-2012

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	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3938M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.69 IN
Power Factor	89
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	3515 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3553L									
CAT.NO.	EM2516T-8								
SPEC	39K057X813								
HP	25								
VOLTS	200								
AMPS	65								
RPM	3515								
FRAME	256T	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	G	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	91.7	**PF**	89						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SER**							
DE	6309	**ODE**	6208						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 38394
Typical performance - not guaranteed values

Winding: 39WGX813-R001	**Type:** 3938M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			25
Volts			200
Full Load Amps			65
R.P.M.			3515
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

200 V, 60 Hz: Single Voltage Motor	
Full Load Torque	37.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	148 LB-FT
Pull-up Torque	54.9 LB-FT
Locked-rotor Torque	77.2 LB-FT
Starting Current	453 A
No-load Current	19.5 A
Line-line Res. @ 25ºC	0.0681 Ω
Temp. Rise @ Rated Load	46°C
Temp. Rise @ S.F. Load	57°C
Locked-rotor Power Factor	29
Rotor inertia	0.971 lb-ft²

Load Characteristics 200 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	79	87	89	90	90	90
Efficiency	87.3	91.7	92.8	91.9	90.9	89.5	91.3
Speed	3578	3559	3539	3515	3490	3461	3500
Line amperes	30.1	36.3	50.1	65.3	81.9	99.4	75.3

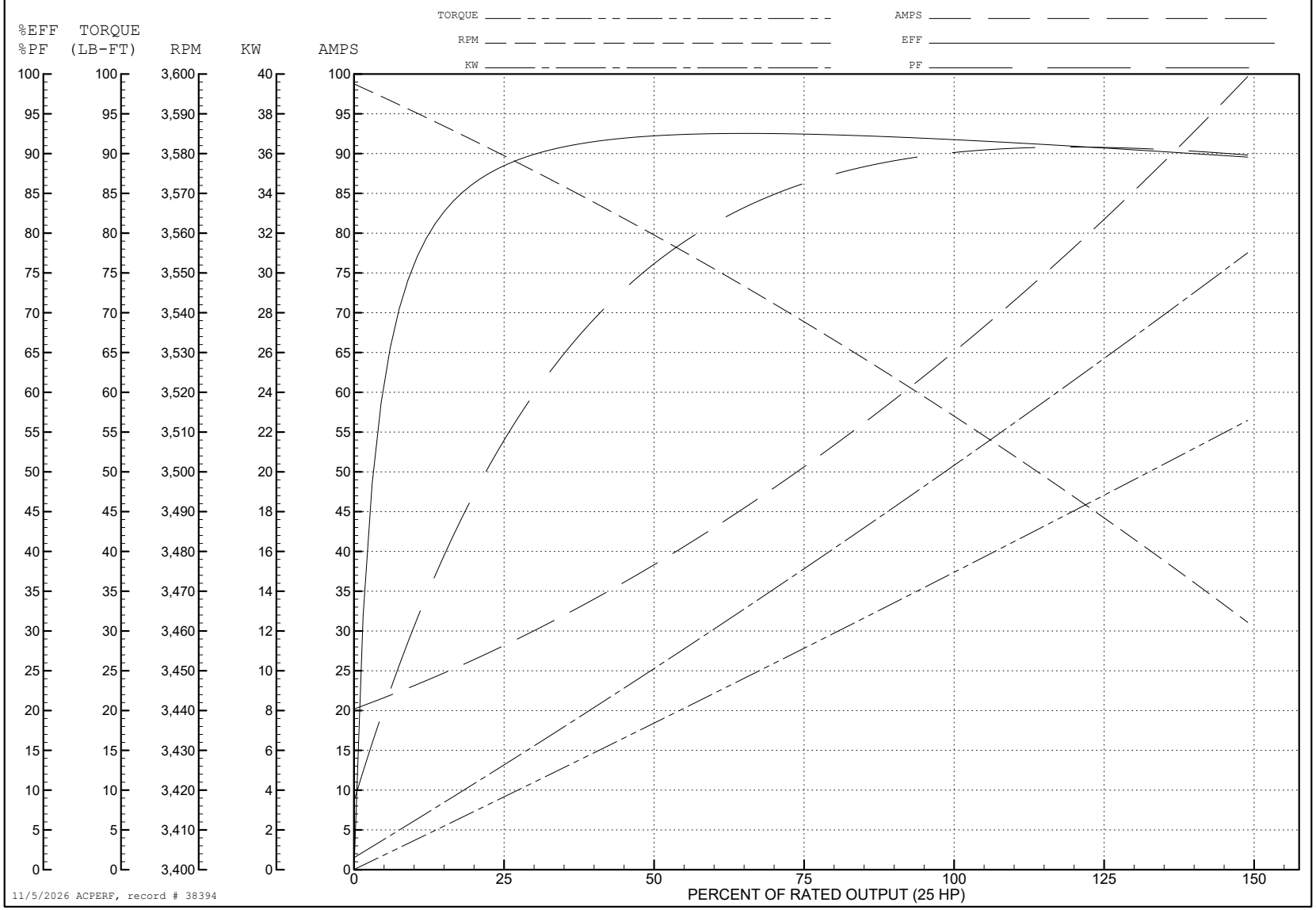
ABB Motors and Mechanical Inc.

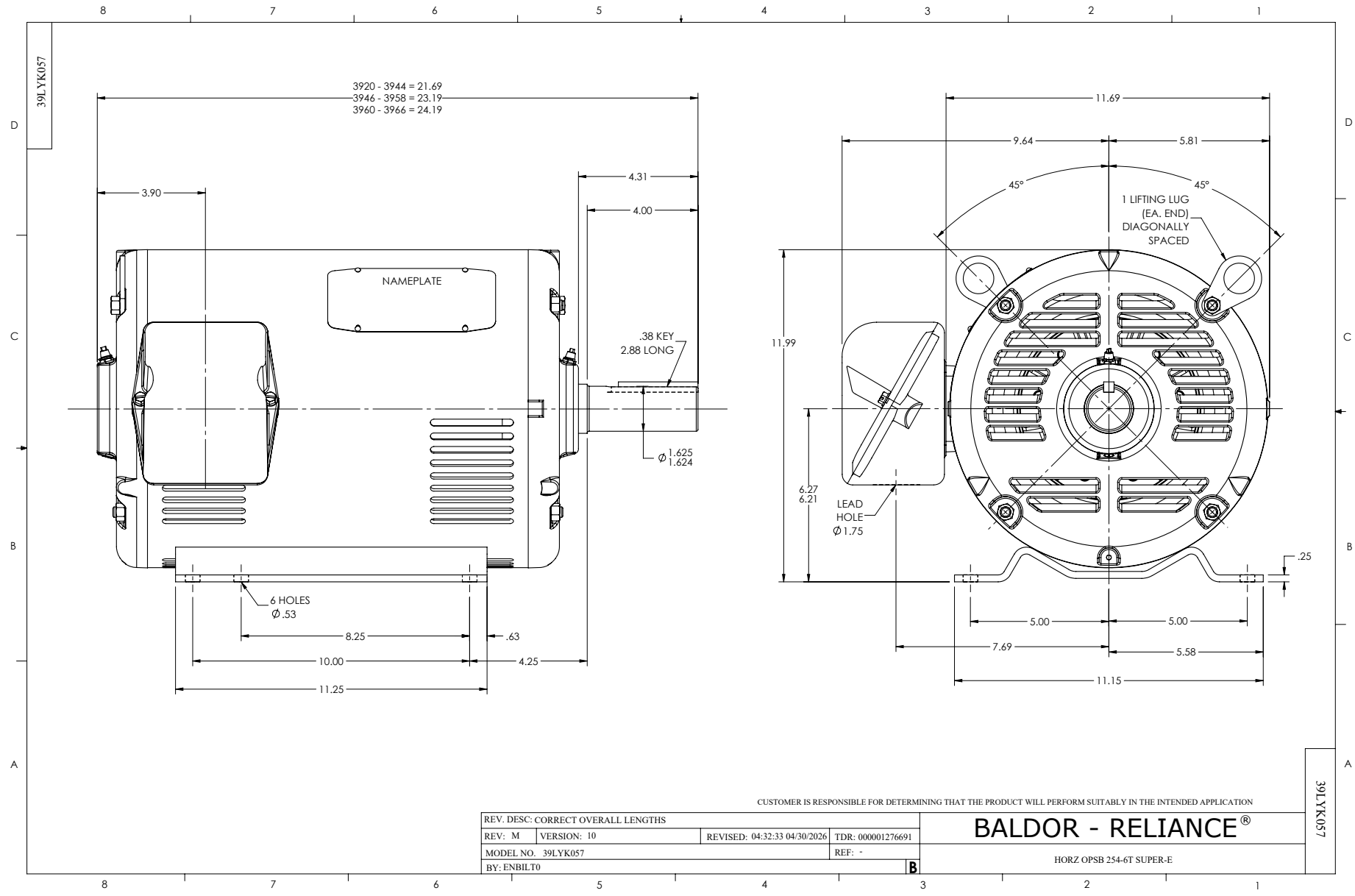
WINDING # 39WGX813

25 HP 3 PH 60 HZ 3515 RPM 200 V 3938M

Typical performance - not guaranteed values.

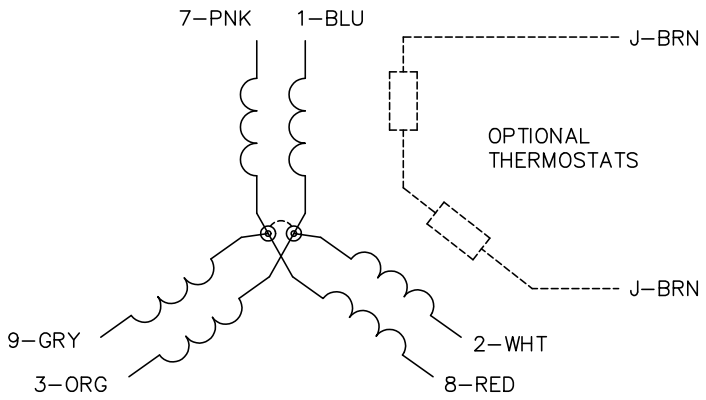
TORQUES(LB-FT): PO=148 PU=54.9 LR=77.2 LRA=453



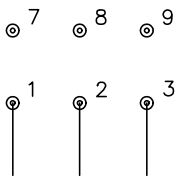

39LYK057
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
3.90
4.31
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
.63
10.00
4.25
11.25
11.69
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø 1.75
.25
5.00
5.00
7.69
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT OVERALL LENGTHS
REV: M
VERSION: 10
REVISED: 04:32:33 04/30/2026
TDR: 000001276691
MODEL NO. 39LYK057
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T SUPER-E
39LYK057

CD0695

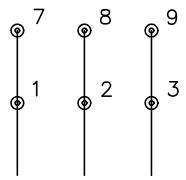
TYPICAL WYE–CONNECTED MOTOR



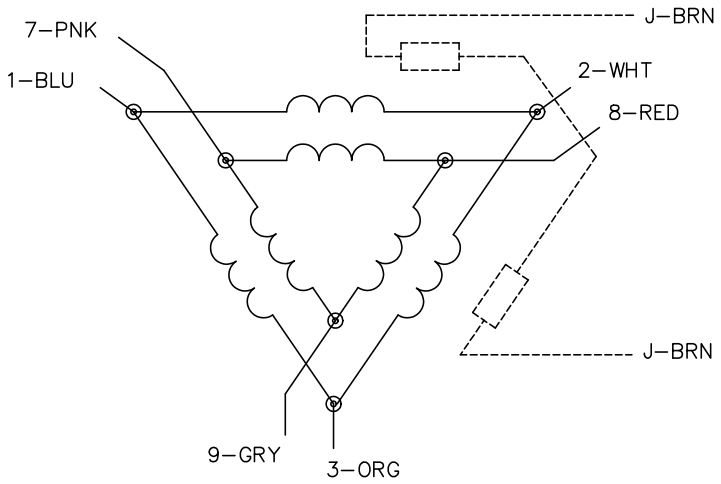
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START