ABB BALDOR RELIANCE

Customer information packet

CEM2516T

25HP, 3515RPM, 3PH, 60HZ, 256TC, 3938M, OPSB, F
Class - None
Division - Not Applicable

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9/14/2026 7:32:54 PM

Specifications

Enclosure	OPSB
Frame	256TC
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	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	56.000 A @ 230.0 V
	62.000 A @ 208.0 V
	28.000 A @ 460.0 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

Part Detail

Revision	W
Type	AC
Mech. spec.	39D102
Base	
Status	PRD/A
Elec. spec.	39WGX424
Layout	39LYD102
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	08-03-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	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	C-Face
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	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

NP3554LUA												
CAT.NO.	CEM2516T			**P/N**						**ENCL**	OPSB	
SPEC.	39D102X424G1	**CC**	010A		**FRAME**	256TC		**SER.NO.**				
HP	25		**CLASS**	F	**HZ**	60						
RPM	3515		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	G		**ODE BRG**	6208	**DE BRG**	6309		
AMPS	56/28											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	91.7		**GREASE**	POLYREX EM				
PF	89	**SER.F.**	1.15		**CT30-60(2:1) VT3-60(20:1)**							
USABLE AT	50HZ 25HP 190/380V 68/34A				SF 1.0							
HTR-VOLTS	**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**								

AC Induction Motor Performance Data
Record # 32011
Typical performance - not guaranteed values

Winding: 39WGX424-R001	**Type:** 3938M	**Enclosure:** OPSB

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		25	**Full Load Torque**	37.2 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		56/28	**Breakdown Torque**	148 LB-FT
R.P.M.		3515	**Pull-up Torque**	54.9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	77.2 LB-FT
NEMA Design Code	B **KVA Code**	G	**Starting Current**	197 A
Service Factor (S.F.)		1.15	**No-load Current**	8.48 A
NEMA Nom. Eff.	91.7 **Power Factor**	89	**Line-line Res. @ 25ºC**	0.38245 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps			**Temp. Rise @ S.F. Load**	57°C
			Locked-rotor Power Factor	28.7
			Rotor inertia	0.971 lb-ft²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	79	86	89	90	90	90
Efficiency	87.5	91.8	92.3	91.7	90.7	89.4	91.1
Speed	3578.1	3559.4	3538.9	3515.1	3490	3461	3500
Line amperes	13.1	15.8	21.8	28.4	35.6	43.3	32.7

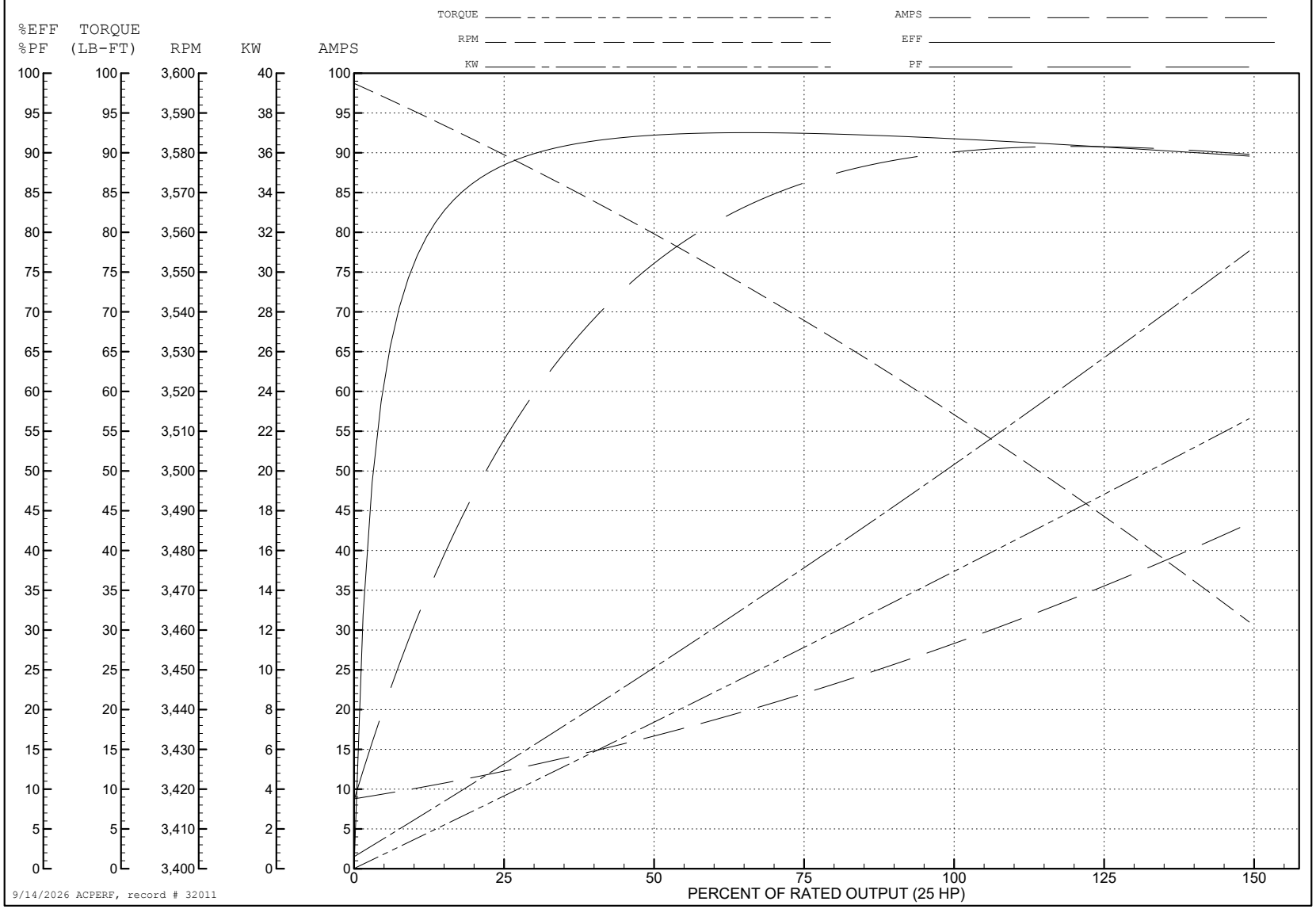
ABB Motors and Mechanical Inc.

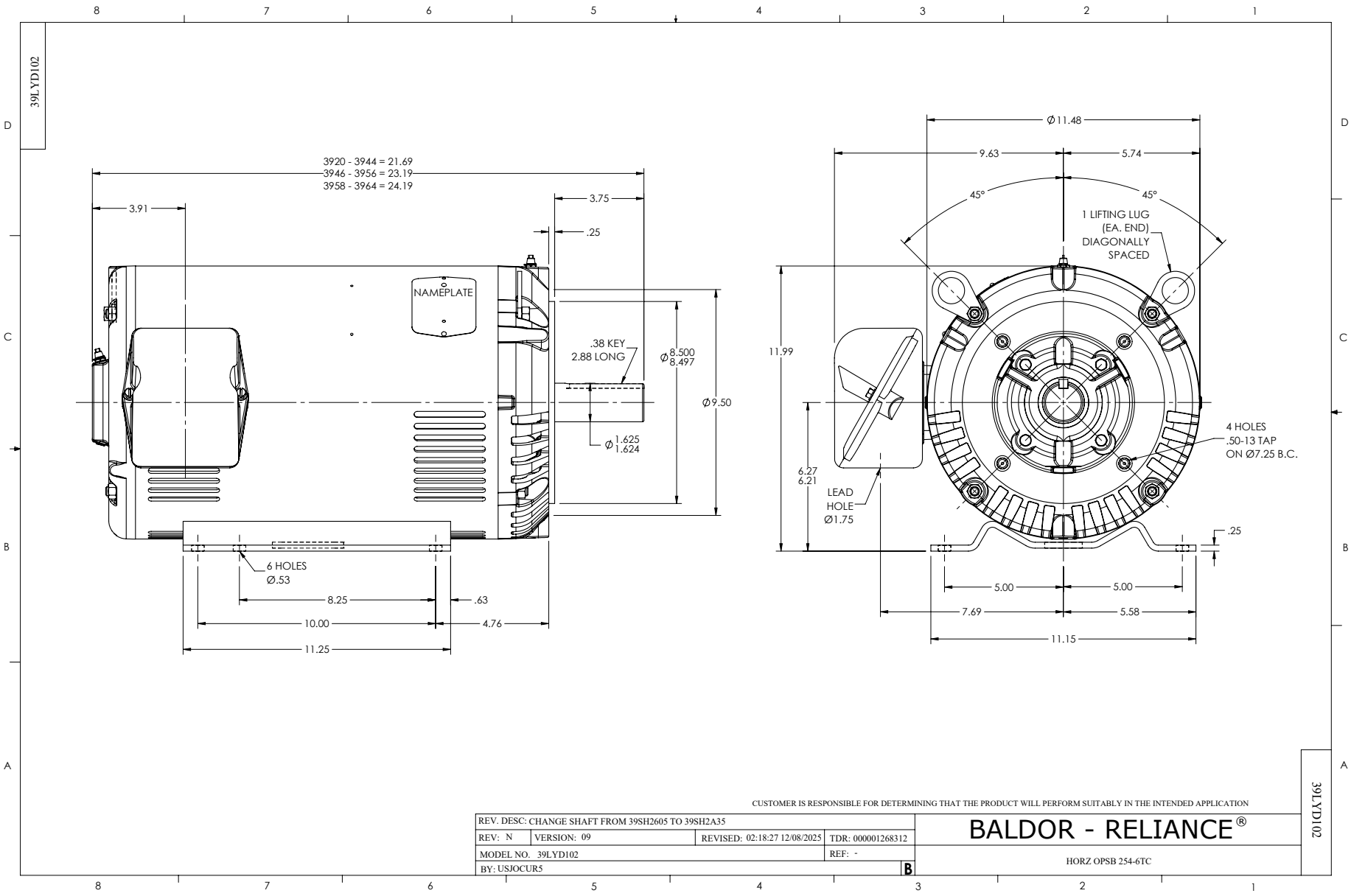
WINDING # 39WGX424

25 HP 3 PH 60 HZ 3515 RPM 460 V 3938M

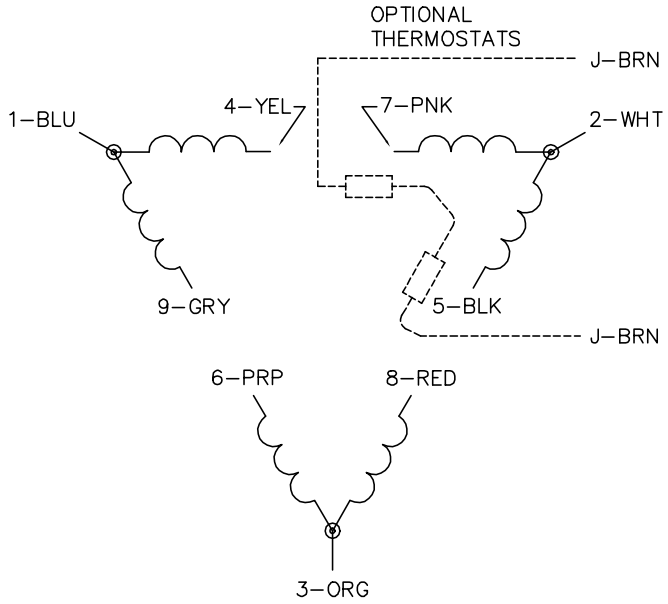
Typical performance - not guaranteed values.

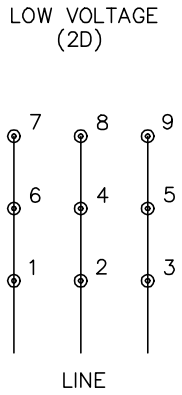
TORQUES(LB-FT): PO=148 PU=54.9 LR=77.2 LRA=197

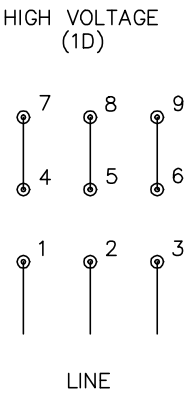



39LYD102
3920 - 3944 = 21.69
3946 - 3956 = 23.19
3958 - 3964 = 24.19
3.91
3.75
.25
NAMEPLATE
.38 KEY
2.88 LONG
Ø8.500
8.497
Ø9.50
Ø1.625
1.624
6 HOLES
Ø.53
8.25
.63
10.00
4.76
11.25
Ø11.48
9.63
5.74
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø1.75
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
.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: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: N
VERSION: 09
REVISED: 02:18:27 12/08/2025
TDR: 000001268312
MODEL NO. 39LYD102
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6TC
39LYD102

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