



Customer information packet

CEM2514T

20HP, 3510RPM, 3PH, 60HZ, 254TC, 3928M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254TC
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
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	47.000 A @ 230.0 V 51.000 A @ 208.0 V 23.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	X
Type	AC
Mech. spec.	39D102
Base	
Status	PRD/A
Elec. spec.	39WGX101
Layout	39LYD102
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	08-03-2010

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.5 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	3928M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.69 IN
Power Factor	88
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	3510 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.	CEM2514T			P/N						ENCL	OPSE
SPEC.	39D102X101G1	CC	010A	FRAME		254TC	SER.NO.				
HP	20		CLASS		F	HZ	60				
RPM	3510		PH	3	DES		A				
VOLTS	230/460			CODE	G	ODE BRG	6208	DE BRG	6309		
AMPS	47/23.5										
RATING	40C AMB-CONT		NEMA-NOM-EFF			91	GREASE	POLYREX EM			
PF	88	SER.F.	1.15	CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 20HP 190/380V 56/28A			SF 1.0							
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 13049

Typical performance - not guaranteed values

Winding: 39WGX101-R004			Type: 3928M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		20		Full Load Torque		29.6 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		47/23.5		Breakdown Torque		111 LB-FT
R.P.M.		3510		Pull-up Torque		36.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		50.6 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		153 A
Service Factor (S.F.)		1.15		No-load Current		8.61 A
NEMA Nom. Eff.		91	Power Factor	Line-line Res. @ 25°C		0.512 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps				Temp. Rise @ S.F. Load		54°C
				Locked-rotor Power Factor		30
				Rotor inertia		0.715 lb-ft²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	83	87	89	89	88
Efficiency	84.7	90.1	91.2	91	90.1	89.1	90.5
Speed	3581	3563	3544	3522	3496	3472	3506
Line amperes	10.2	13.9	18.1	23.3	29.1	35	26.78

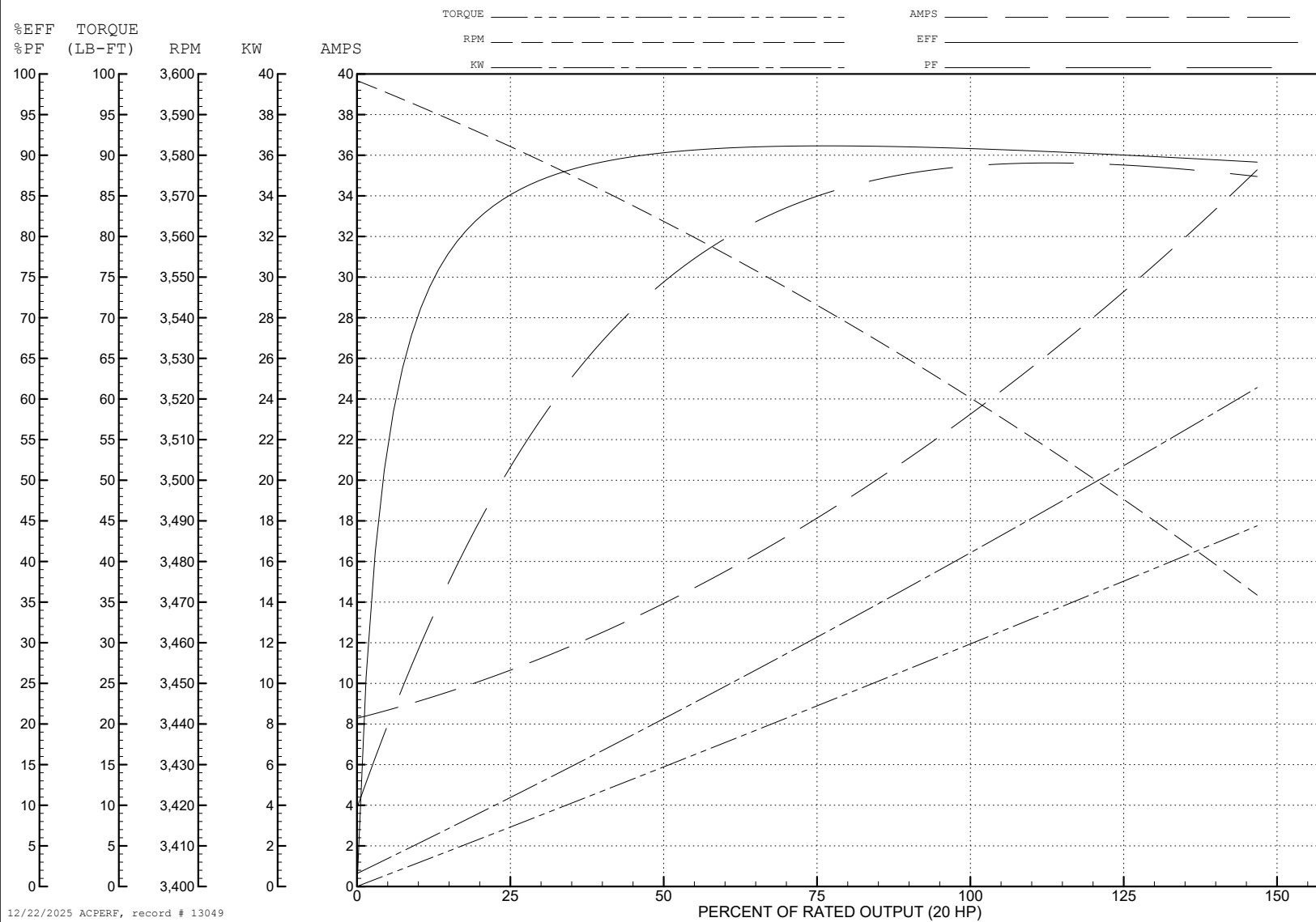
ABB Motors and Mechanical Inc.

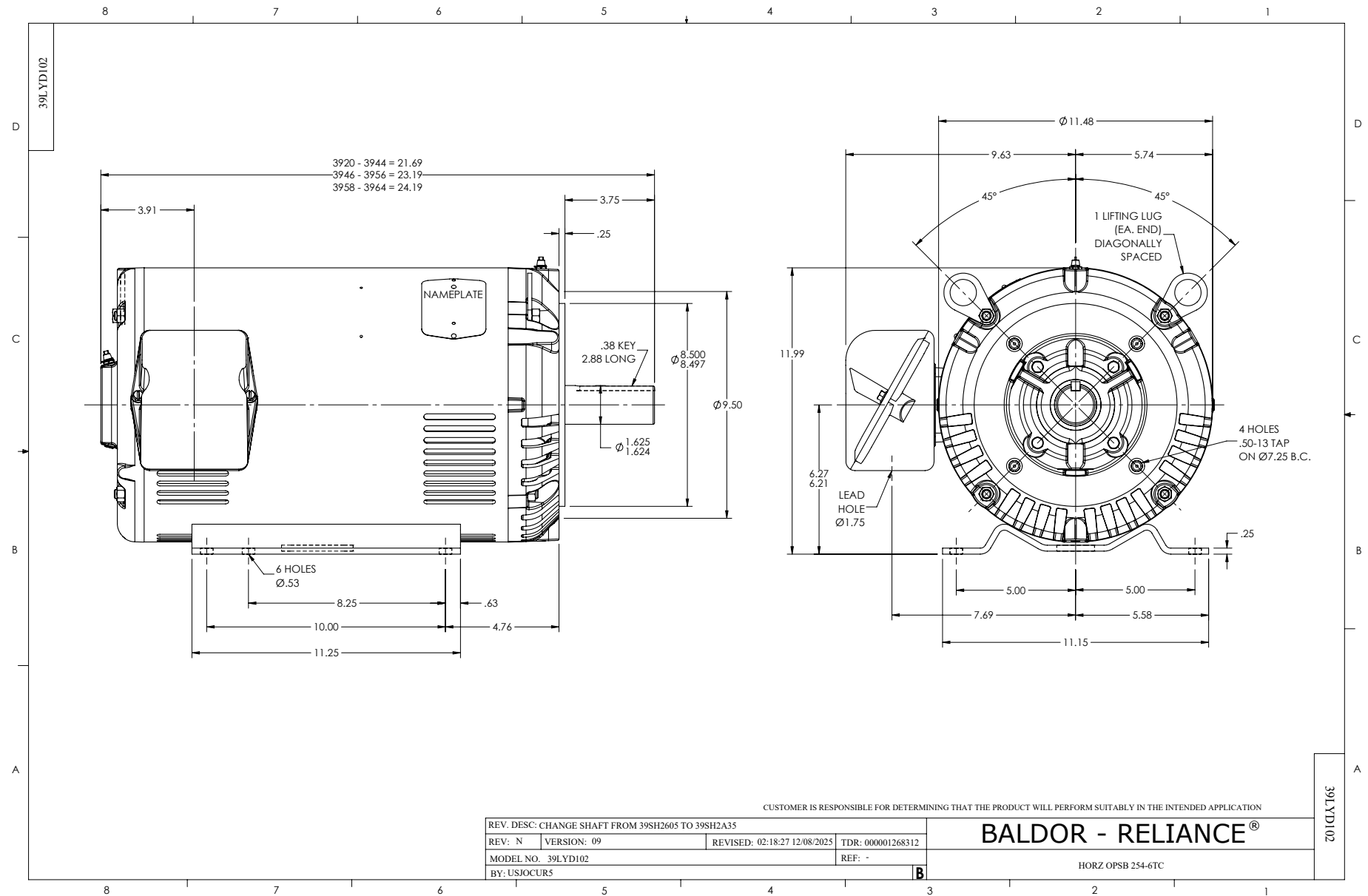
WINDING # 39WGX101

Typical performance - not guaranteed values.

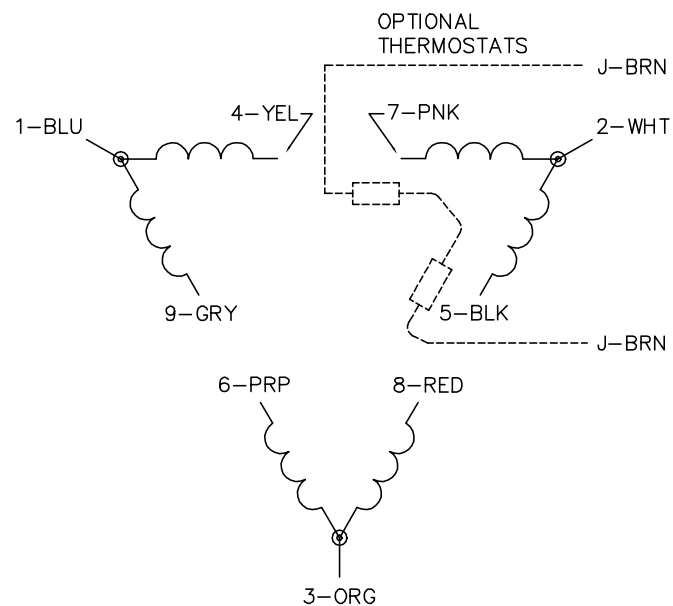
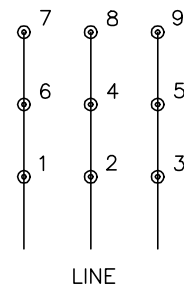
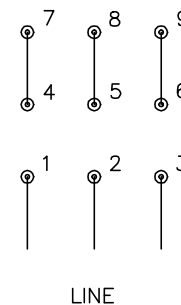
20 HP 3 PH 60 HZ 3510 RPM 460 V 3928M

TORQUES (LB-FT): PO=111 PU=36.1 LR=50.6 LRA=153





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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