



Customer information packet

CEM2538T

40HP, 3530RPM, 3PH, 60HZ, 286TSC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	286TSC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	40.000 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	CSA EEV 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	92.000 A @ 230.0 V 46.000 A @ 460.0 V 100.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	46.0 a
Insulation Class	F

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX194
Layout	40LYE217
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	03-06-2020

Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4046M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.44 IN
Power Factor	89
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3530 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

NP2138L

CAT.NO.	CEM2538T				P/N						ENCLOSURE		OPSB							
SPEC.	40-0000840			CC	010A		FRAME		286TSC		S/N									
HP	40				CLASS		F		HZ		60									
RPM	3530				PH		3		DES		B									
VOLT	230/460								KVA-CODE		G		ODE BRG		6309		DE BRG		6311	
AMP	92/46																			
RATING	40C AMB-CONT				GREASE		POLYREX EM													
NEMA-NOM-EFF	92.4		PF		89		SER.F.		1.15											
HTR-VOLTS			HTR-AMPS																	

AC Induction Motor Performance Data

Record # 53753

Typical performance - not guaranteed values

Winding: 40WGX194-R001			Type: 4046M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		59.6 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		92/46	Breakdown Torque		158 LB-FT		
R.P.M.		3530	Pull-up Torque		79.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		96 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		279 A
Service Factor (S.F.)		1.15	No-load Current		11.7 A		
NEMA Nom. Eff.		92.4	Power Factor	89	Line-line Res. @ 25°C		0.1848 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps					Temp. Rise @ S.F. Load		44°C
					Locked-rotor Power Factor		23.9
					Rotor inertia		1.97 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	89	90	90	90
Efficiency	91.4	93.7	93.7	93	92	90.7	92.4
Speed	3580.7	3565.4	3547.1	3527.4	3504.7	3481	3514
Line amperes	16.4	24.9	34.7	45.9	57	69.7	52.6

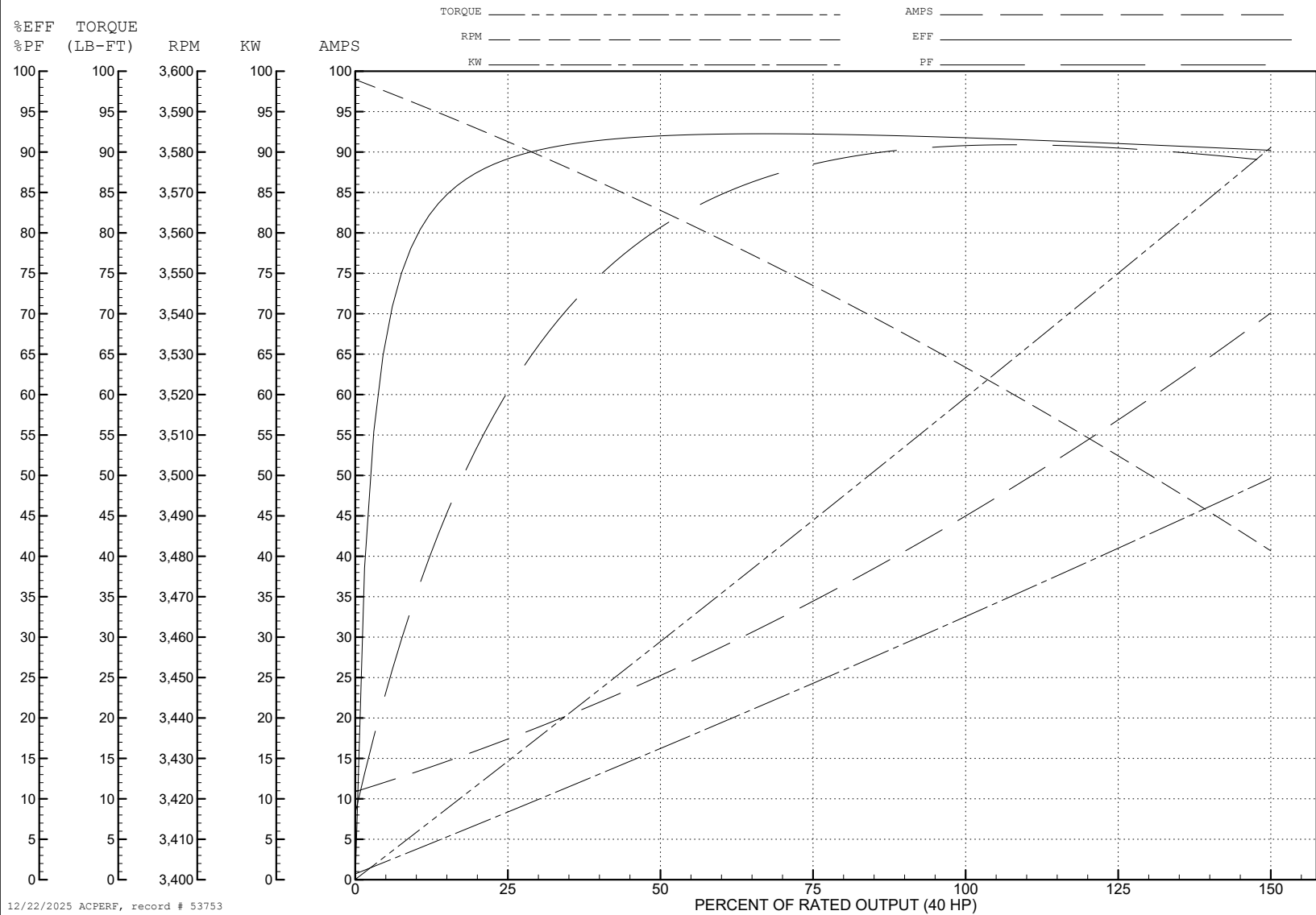
ABB Motors and Mechanical Inc.

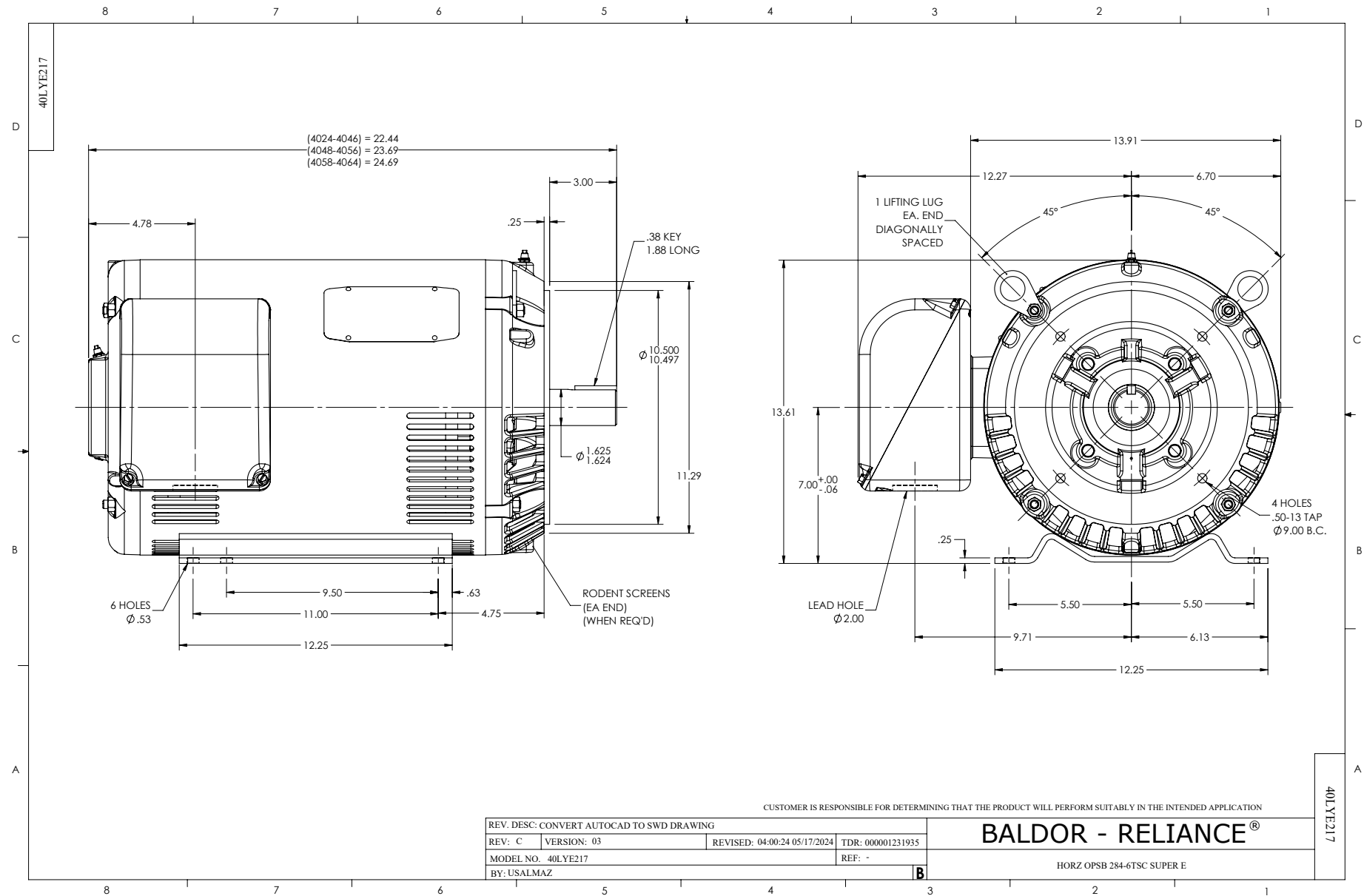
WINDING # 40WGX194

Typical performance - not guaranteed values.

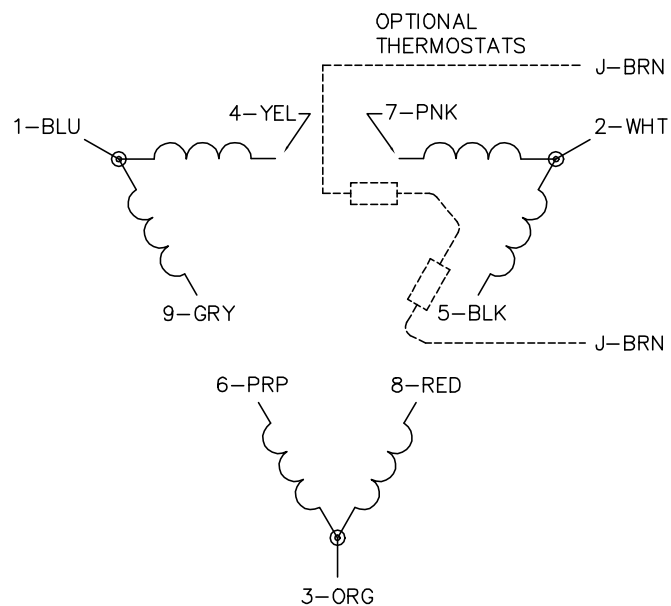
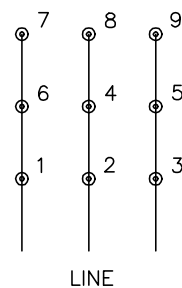
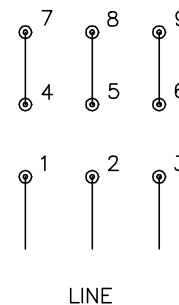
40 HP 3 PH 60 HZ 3530 RPM 460 V 4046M

TORQUES (LB-FT): PO=158 PU=79.7 LR=96 LRA=279





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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