

ABB BALDOR RELIANCE III

Customer information packet

CEM2535T-G

30HP, 1775RPM, 3PH, 60HZ, 286TC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	286TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	36.000 A @ 460.0 V 72.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX339
Layout	40LY-000-046
Eff. date	09-15-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	05-04-2020

IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1775 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.	CEM2535T-G			P/N						ENCL	OPSB
SPEC.	40-0000-0103	CC	010A	FRAME		286TC	SER.NO.				
HP	30		CLASS		H	HZ	60				
RPM	1775		PH	3	DES		A				
VOLTS	230/460			CODE		H	ODE BRG	6309	DE BRG	6311	
AMPS	74/37										
RATING	40C AMB-CONT		NEMA-NOM-EFF			94.1	GREASE	POLYREX EM			
PF	80	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 30HP 190/380V 86/43A				SF1.0						
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 57330

Typical performance - not guaranteed values

Winding: 40WGX339-R002			Type: 4060M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		30		Full Load Torque		88.8 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		72/36		Breakdown Torque		280 LB-FT
R.P.M.		1775		Pull-up Torque		130 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		161 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		252 A
Service Factor (S.F.)		1.15		No-load Current		15.4 A
NEMA Nom. Eff.		94.1	Power Factor	Line-line Res. @ 25°C		0.22043 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		29°C
S.F. Amps				Temp. Rise @ S.F. Load		35°C
				Locked-rotor Power Factor		31.4

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	77	82	85	85	84
Efficiency	90.5	93.8	94.4	94.3	93.9	93.2	94.1
Speed	1793.6	1788.1	1782.5	1776.9	1770.4	1763.1	1773
Line amperes	17.7	22.5	29	36.3	44.3	53	41.1

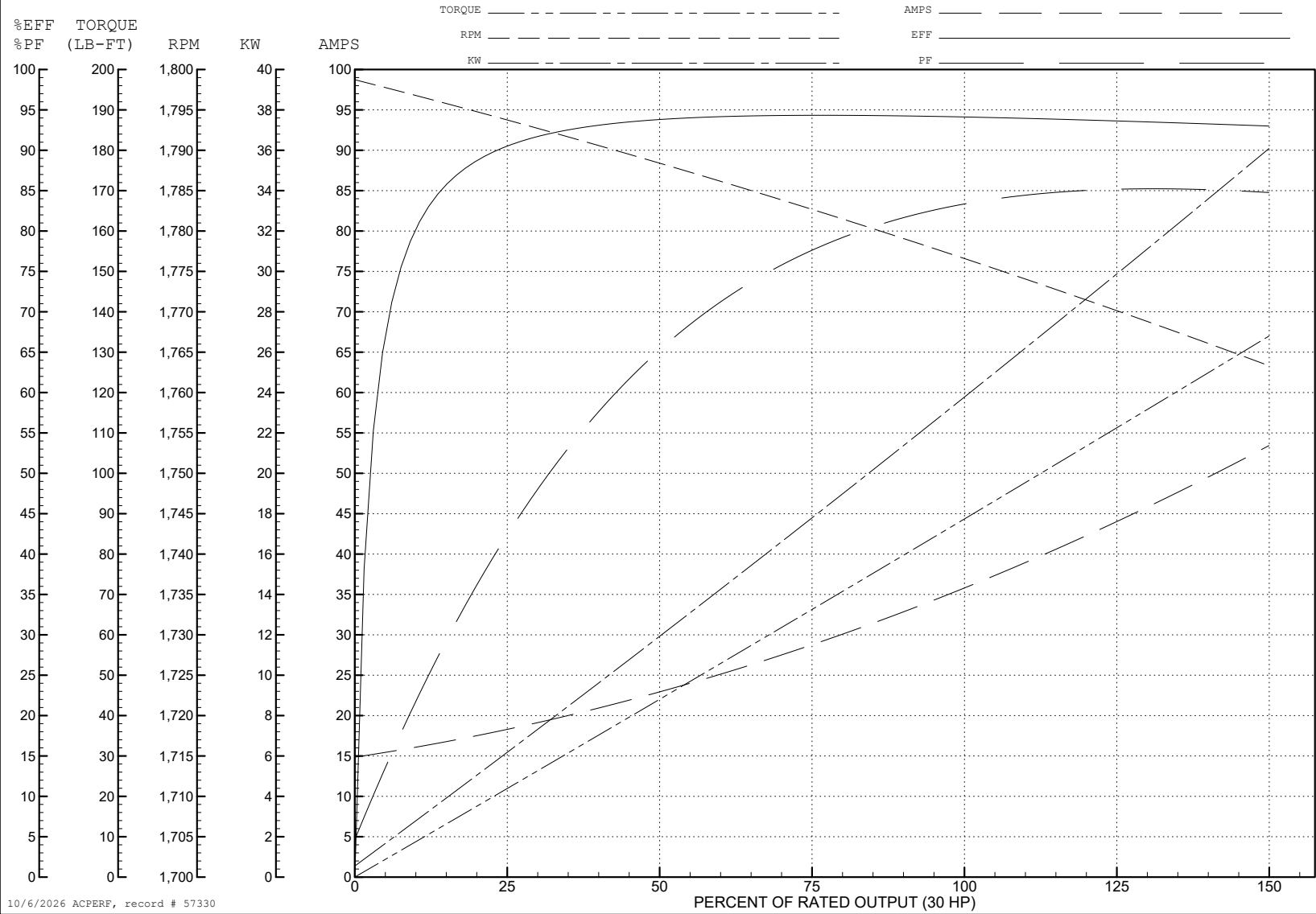
ABB Motors and Mechanical Inc.

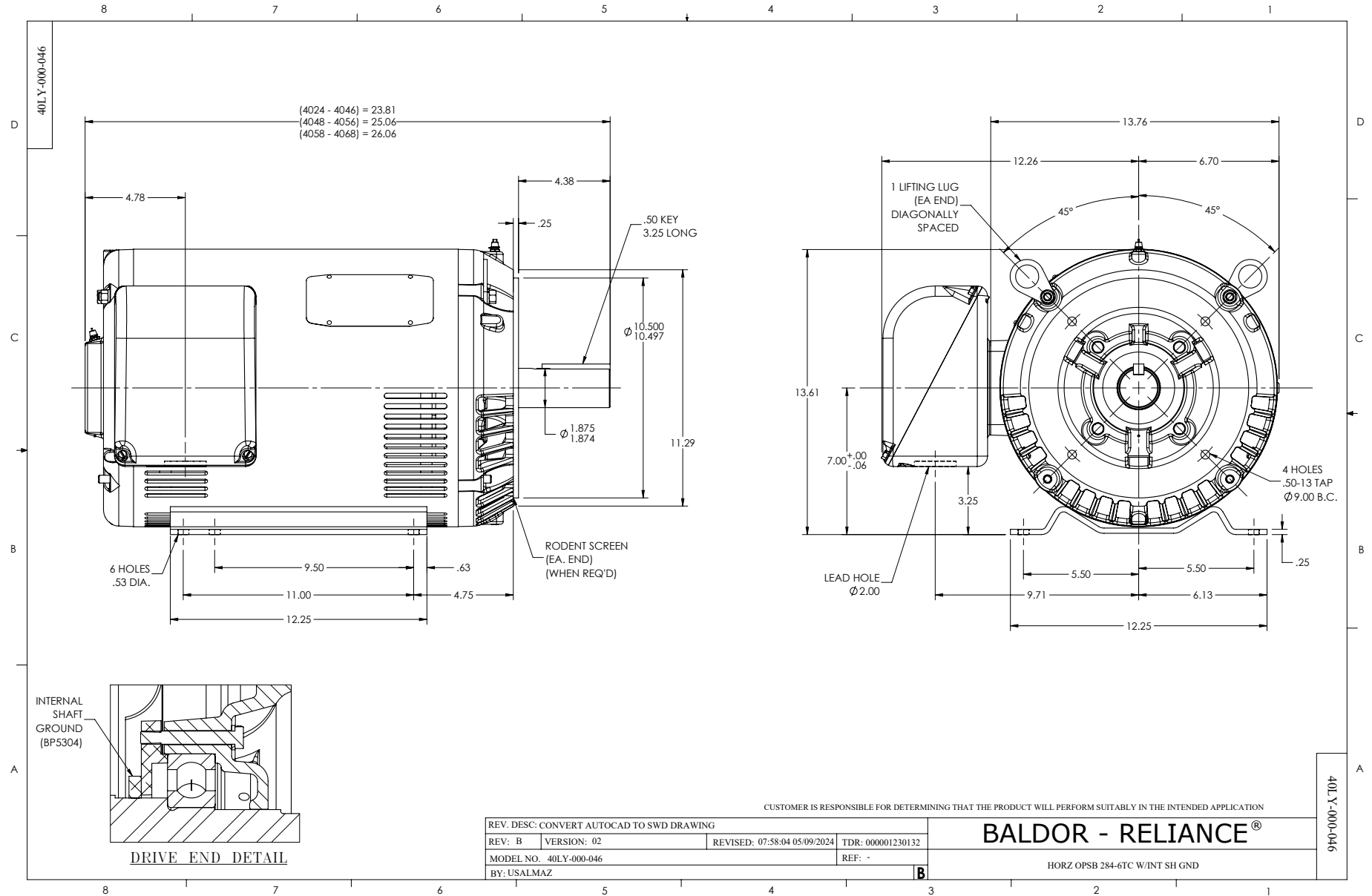
WINDING # 40WGX339

Typical performance - not guaranteed values.

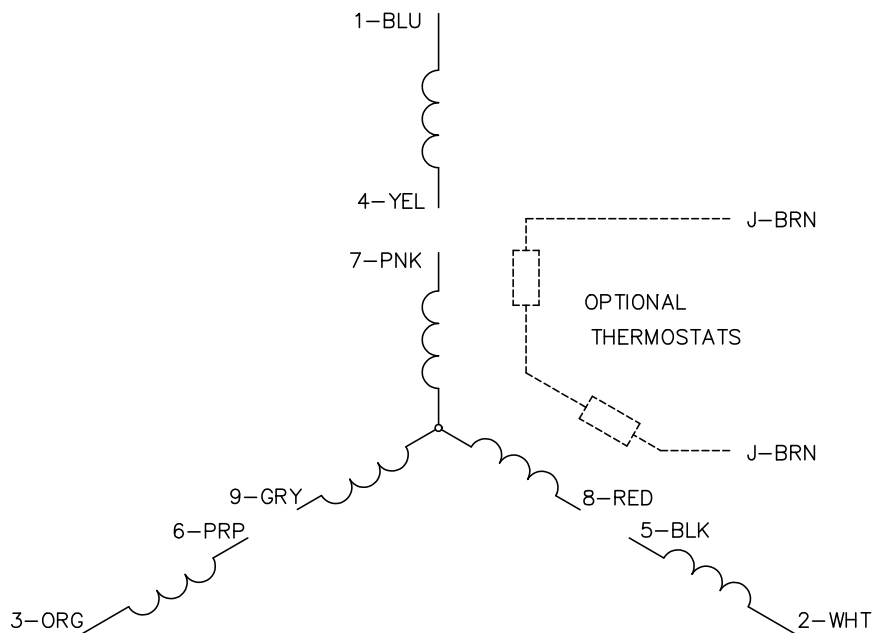
30 HP 3 PH 60 HZ 1775 RPM 460 V 4060M

TORQUES (LB-FT): PO=280 PU=130 LR=161 LRA=252

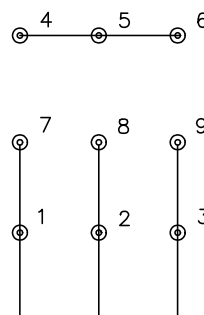




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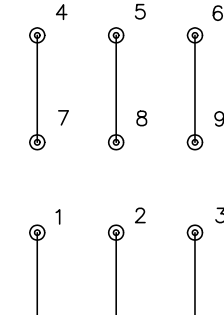


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005