

ABB BALDOR RELIANCE III

Customer information packet CEM2524T-G

15HP, 1180RPM, 3PH, 60HZ, 284TC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	284TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	20.500 A @ 460.0 V 41.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	20.5 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX775
Layout	40LY-000-046
Eff. date	01-31-2025
CD Diagram	CD0005
Poles	06
Leads	9#10
Proprietary	False
Created date	09-15-2020

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	4038M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.81 IN
Power Factor	75
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	1180 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.	CEM2524T-G			P/N						ENCL	OPSE
SPEC.	40-0000-0169	CC	010A	FRAME		284TC	SER.NO.				
HP	15		CLASS		H	HZ	60				
RPM	1180		PH	3	DES		B				
VOLTS	230/460			CODE		G	ODE BRG	6309	DE BRG	6311	
AMPS	41/20.5										
RATING	40C AMB-CONT		NEMA-NOM-EFF			91.7	GREASE	POLYREX EM			
PF	75	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 15HP 190/380V 48/24A				SF1.0						
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.									

AC Induction Motor Performance Data

Record # 36103

Typical performance - not guaranteed values

Winding: 40WGX775-R002			Type: 4038M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		66.8 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		41/20.5	Breakdown Torque		185 LB-FT		
R.P.M.		1180	Pull-up Torque		87.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		105 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		116 A
Service Factor (S.F.)		1.15	No-load Current		10.1 A		
NEMA Nom. Eff.		91.7	Power Factor	75	Line-line Res. @ 25°C		0.67748 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		26°C
S.F. Amps					Temp. Rise @ S.F. Load		31°C
					Locked-rotor Power Factor		34
					Rotor inertia		4.65 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	58	69	75	78	79	77
Efficiency	85.5	90.7	91.8	91.8	91.2	89.9	91.4
Speed	1195.6	1191.7	1187.6	1182.8	1177.5	1169.8	1180
Line amperes	11.1	13.4	16.6	20.4	24.8	30.7	23

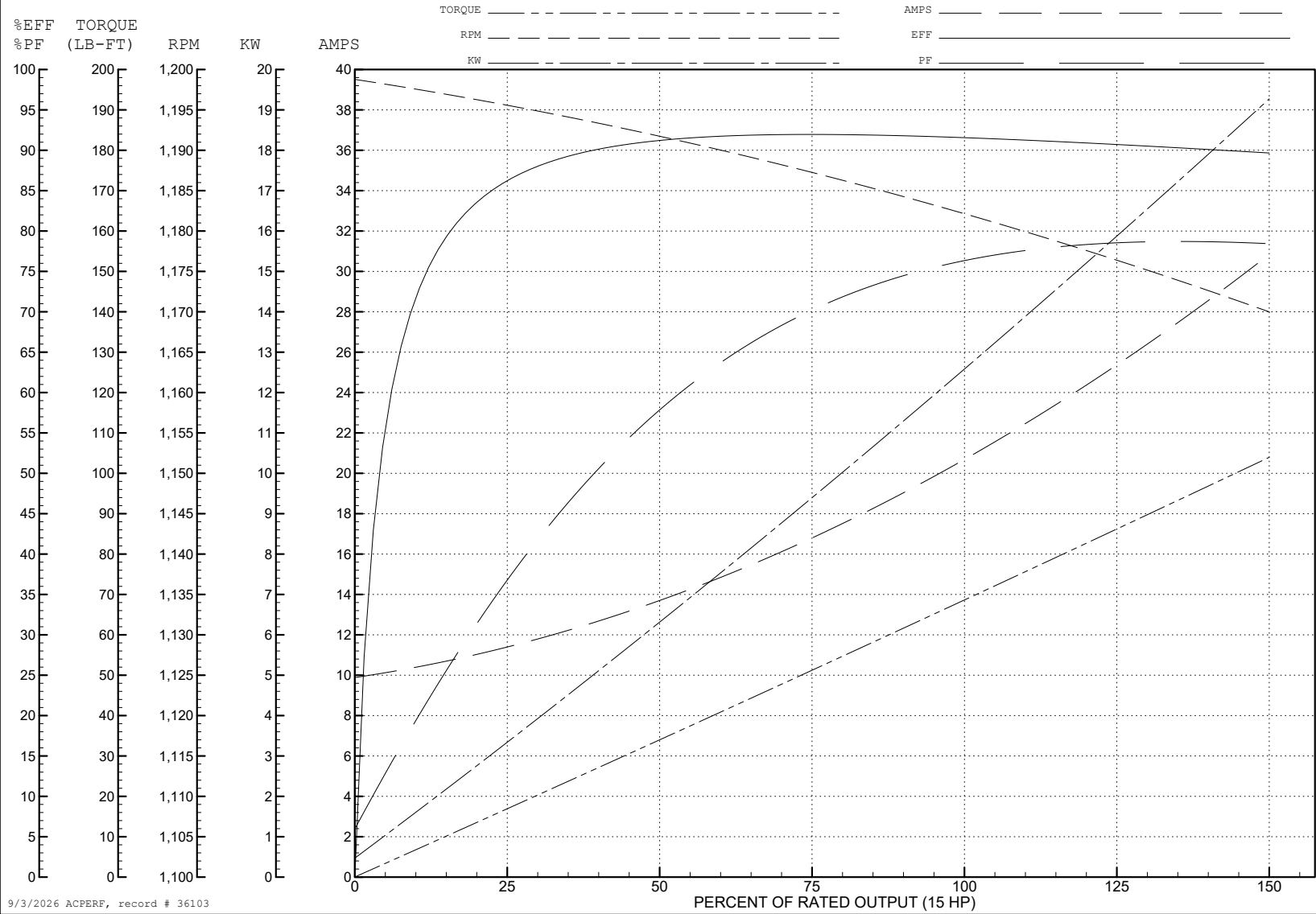
ABB Motors and Mechanical Inc.

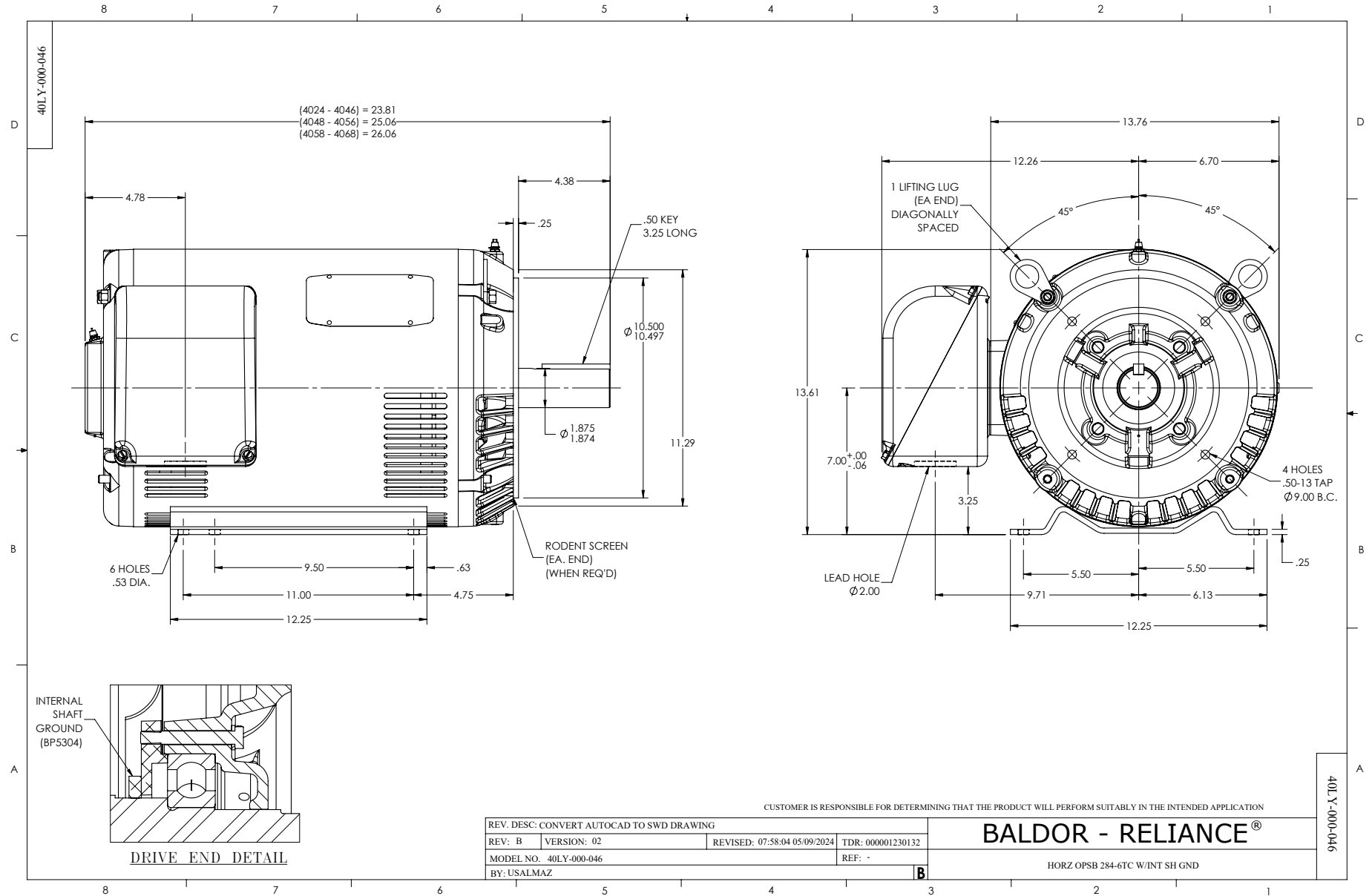
WINDING # 40WGX775

Typical performance - not guaranteed values.

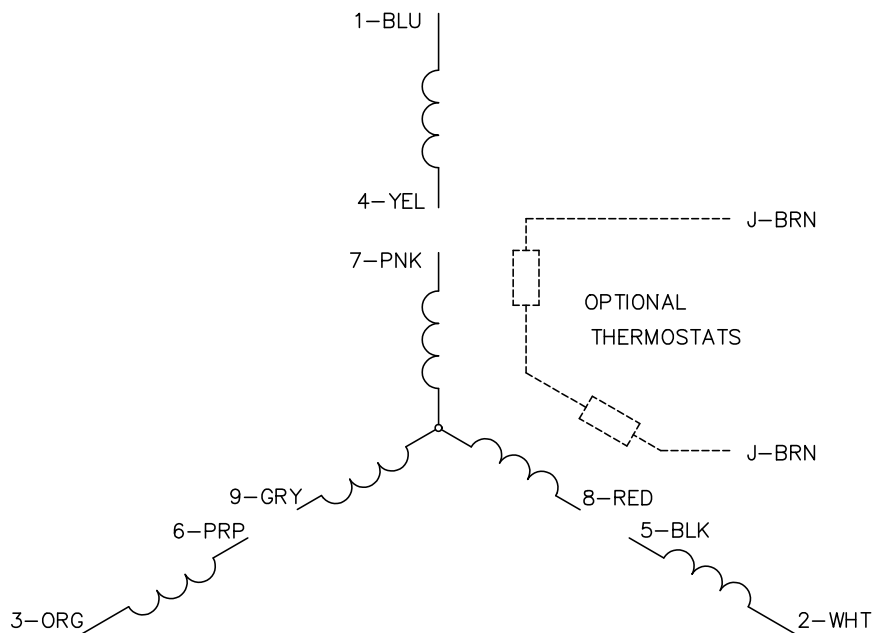
15 HP 3 PH 60 HZ 1180 RPM 460 V 4038M

TORQUES (LB-FT): PO=185 PU=87.7 LR=105 LRA=116

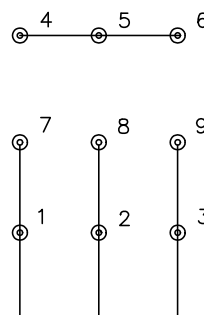




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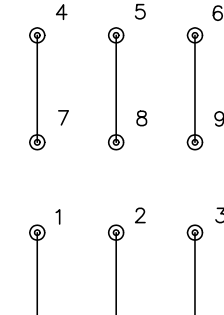


LOW VOLTAGE
(2Y)



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