

ABB BALDOR RELIANCE III

Customer information packet

M1213T

25/6.3HP, 1760/870RPM, 3PH, 60HZ, 284T, 4046M

Specifications

Enclosure	OPSB
Frame	284T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ 6.300 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA 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	34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	13.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	S
Type	AC
Mech. spec.	40D101
Base	
Status	PRD/A
Elec. spec.	40WGX164
Layout	40LYD101
Eff. date	02-12-2024
CD Diagram	CD0032
Poles	04/08
Leads	6#10
Proprietary	False
Created date	12-10-2009

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4046M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	23.81 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm 870 rpm
Speed Code	2S-1W-VT
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

NP1256L									
CAT.NO.	M1213T								
SPEC.	40D101X164								
HP	25/6.3								
VOLTS	460								
AMP	34/13.9								
RPM	1760/870								
FRAME	284T		HZ	60			PH	3	
SER.F.	1.15		CODE	J	DES	A	CLASS	F	
NEMA-NOM-EFF			PF						
RATING	40C AMB-CONT								
CC									
DE	6311		ODE	6309					
ENCL	OPSB		SN						

Parts List

Part number	Description	Quantity
SA188549	SA 40D101X164	1.000 ea
RA176281	RA 40D101X164	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
40EP3200A02	STD FREP OPEN 309 BRG	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
40EP3200B05	STD PUEP OPEN 311 BRG	1.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.070 ga
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
HA3154A03	STUD, 3/8-16 X 17.75	4.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 30902

Typical performance - not guaranteed values

Winding: 40WGX164-R001			Type: 4046M		Enclosure: OPEN		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		25/6.3		Full Load Torque		74.6 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		34/13.9		Breakdown Torque		257 LB-FT	
R.P.M.		1760/870		Pull-up Torque		94.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		147 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		251 A
Service Factor (S.F.)		1.15		No-load Current		17.4 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		0.31557 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps				Temp. Rise @ S.F. Load		45°C	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	70	76	81	81	79
Efficiency	79.7	87.6	89.9	90.4	90.7	89.9	90.6
Speed	1795.5	1792	1788.1	1783.9	1778.9	1773.3	1781
Line amperes	19.5	23.1	28.4	34.3	40.7	48.4	38.1

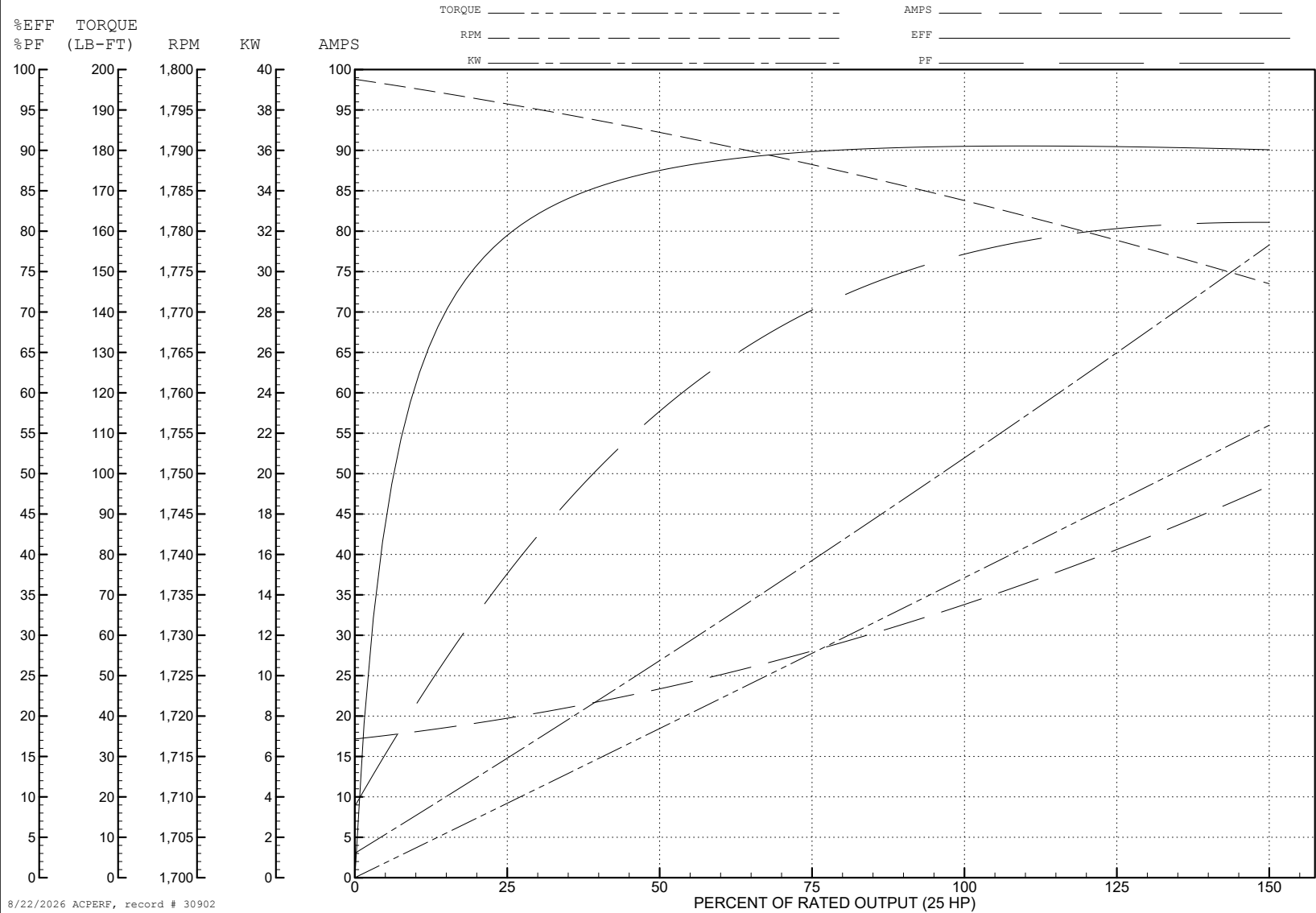
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WINDING # 40WGX164

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1783.9 RPM 460 V 4046M

TORQUES (LB-FT): PO=257 PU=94.9 LR=147 LRA=251



AC Induction Motor Performance Data

Record # 30903

Typical performance - not guaranteed values

Winding: 40WGX164-R001			Type: 4046M		Enclosure: OPEN		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		25/6.3		Full Load Torque		37.9 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		34/13.9		Breakdown Torque		108 LB-FT	
R.P.M.		1760/870		Pull-up Torque		44.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		53.3 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		55 A
Service Factor (S.F.)		1.15		No-load Current		10.2 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		1.2454 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C	
S.F. Amps				Temp. Rise @ S.F. Load		35°C	

Load Characteristics 460 V, 60 Hz, 6.3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	21	33	43	50	56	59	54
Efficiency	68.5	79.6	83.6	85.7	86.1	85.7	85.9
Speed	897.3	894.9	892.7	889.6	886.6	883.3	888
Line amperes	10.6	11.5	12.6	13.9	15.6	17.6	14.9

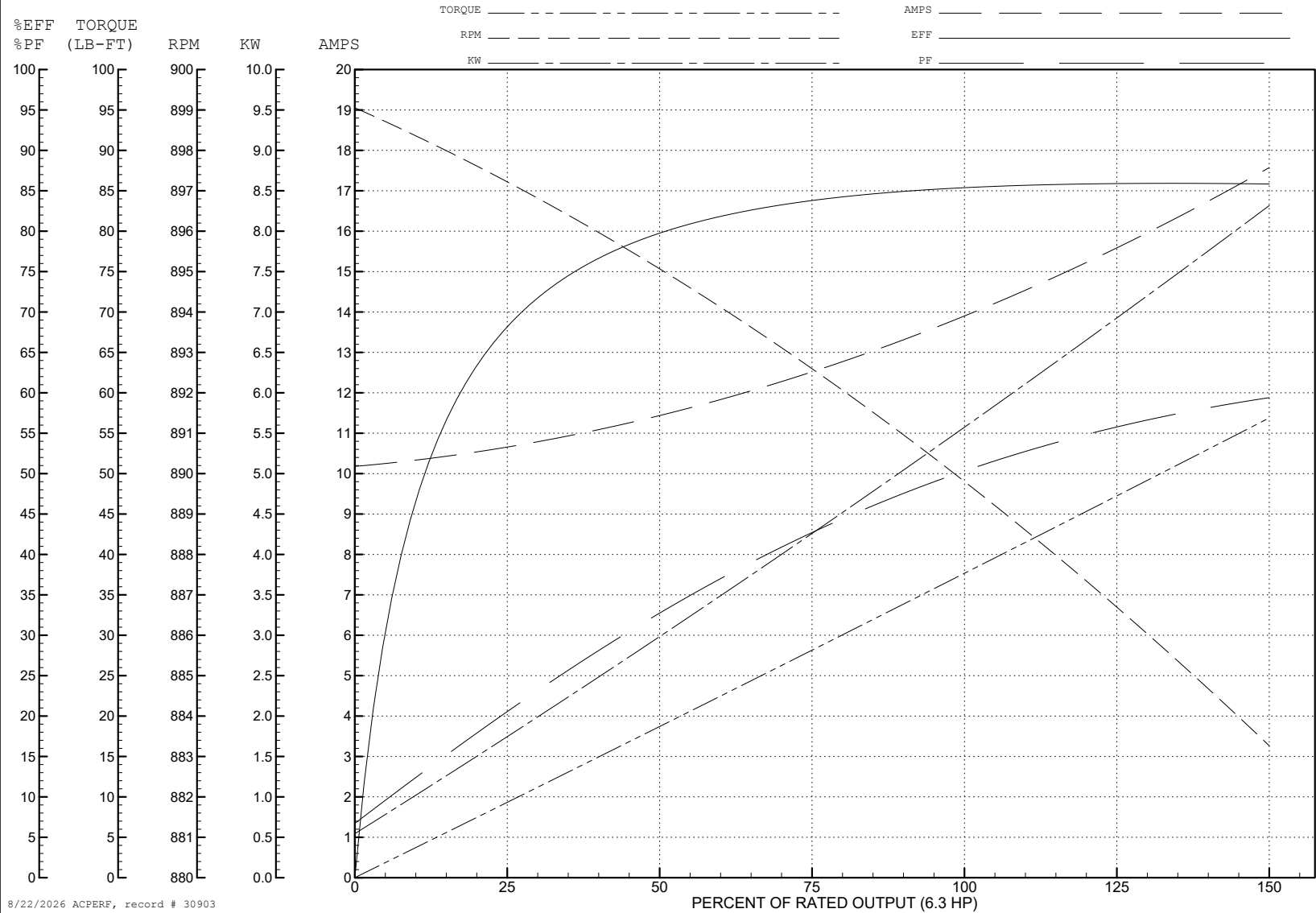
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WINDING # 40WGX164

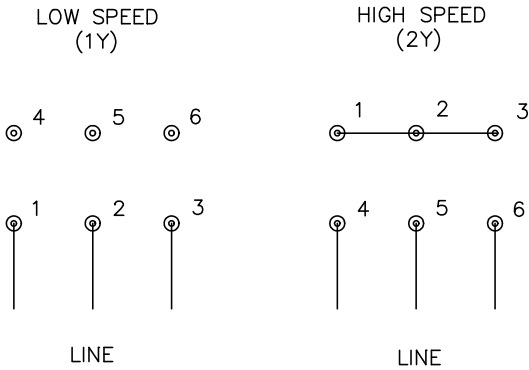
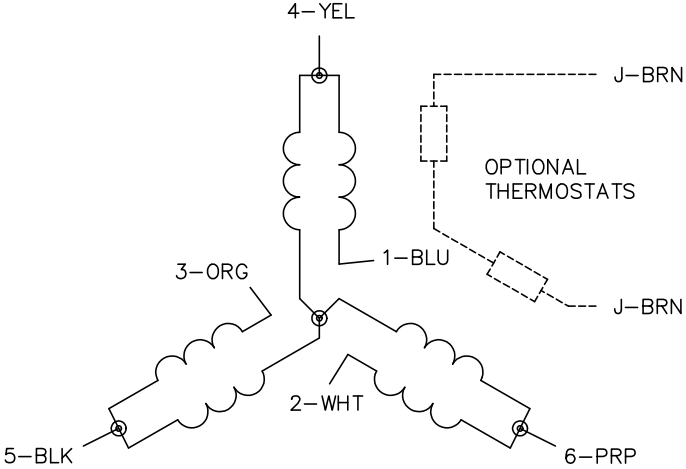
Typical performance - not guaranteed values.

6.3 HP 3 PH 60 HZ 889.6 RPM 460 V 4046M

TORQUES (LB-FT): PO=108 PU=44.1 LR=53.3 LRA=55



CD0032



- 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: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032