

ABB BALDOR RELIANCE III

Customer information packet

ASM6210

10HP, 3450RPM, 3PH, 60HZ, 6246M, TEFC, F1

Specifications

Enclosure	TEFC
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CCSA US CE CSA CSA EEV UL 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	24.000 A @ 208.0 V 23.000 A @ 230.0 V 11.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	30 MIN
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AC
Type	AC
Mech. spec.	6-2978
Base	
Status	NLA/A
Elec. spec.	06WG6010
Layout	06LY2978
Eff. date	08-02-2022
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	Other
Motor Type	6246M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.72 IN
Product Family	Arbor Saw
Pulley End Bearing Type	Double Row Angular Contact
Pulley Face Code	Standard
Pulley Shaft Indicator	Key Only (When Non-STD)
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1264L									
CAT.NO.									
SPEC.	6-2978-6010								
HP	10 SAW DUTY								
VOLTS	208-230/460								
AMP	24-23/11.5								
RPM	3450								
FRAME			HZ	60			PH	3	
SER.F.	1.00	CODE	K	DES	A	CL	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-INT. DUTY 30 MIN								
CC									
DE	5208	ODE	6205						
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 50627

Typical performance - not guaranteed values

Winding: 06WG6010-R009				Type: 6246M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10 SAW DUTY		Full Load Torque		15.2 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		24-23/11.5		Breakdown Torque		68.1 LB-FT	
R.P.M.		3450		Pull-up Torque		47.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		58.8 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		103 A
Service Factor (S.F.)		1		No-load Current		2.57 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		1.3518 Ω
Rating - Duty		40C AMB-30 MIN		Temp. Rise @ Rated Load			

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	74	88	92	93	94	95
Efficiency	79.7	85.7	87.3	86.9	85.4	83.3
Speed	3565.2	3532.5	3496	3457	3409.4	3360.2
Line amperes	4.02	6.36	8.82	11.5	14.5	17.4

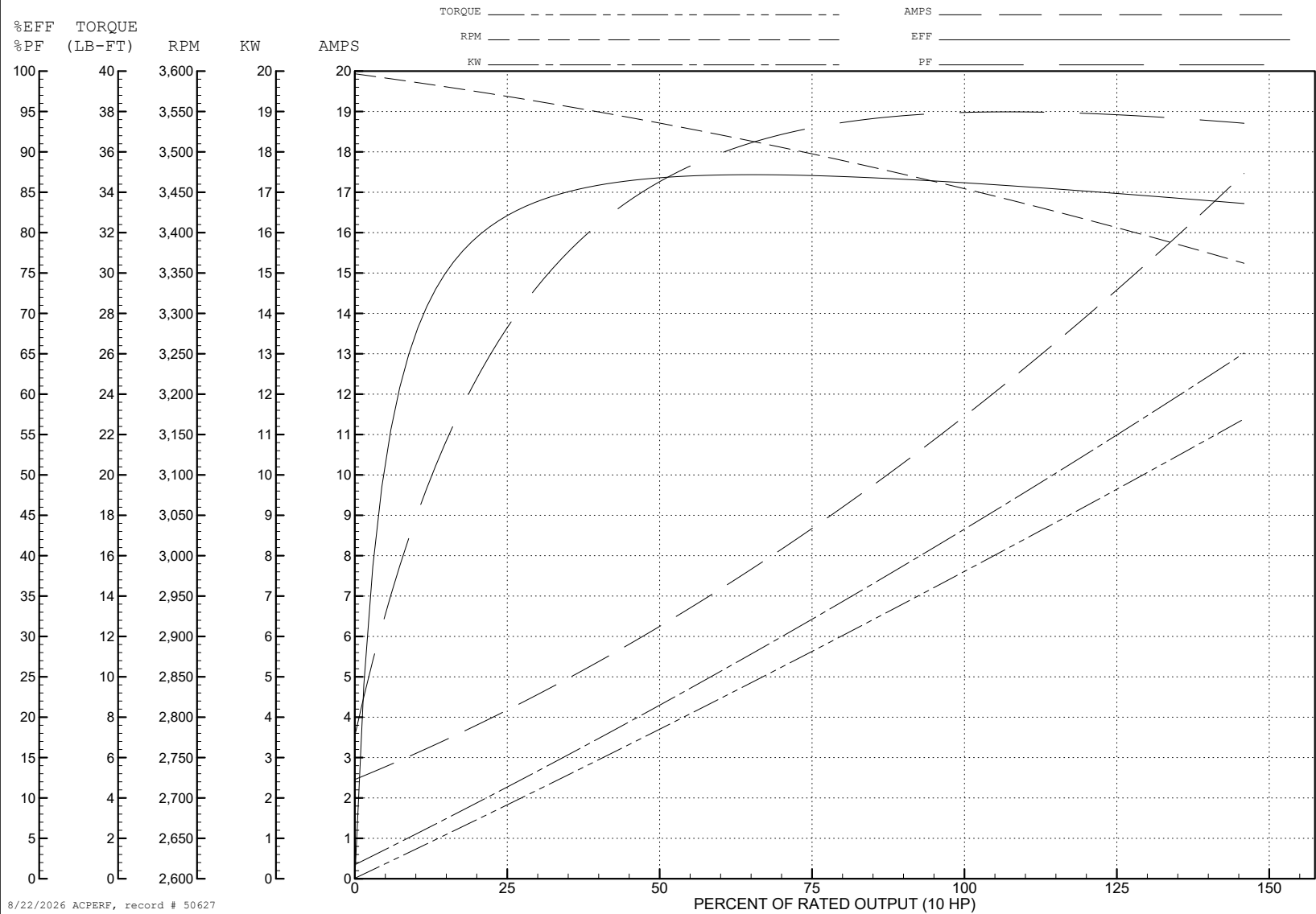
ABB Motors and Mechanical Inc.

WINDING # 06WG6010

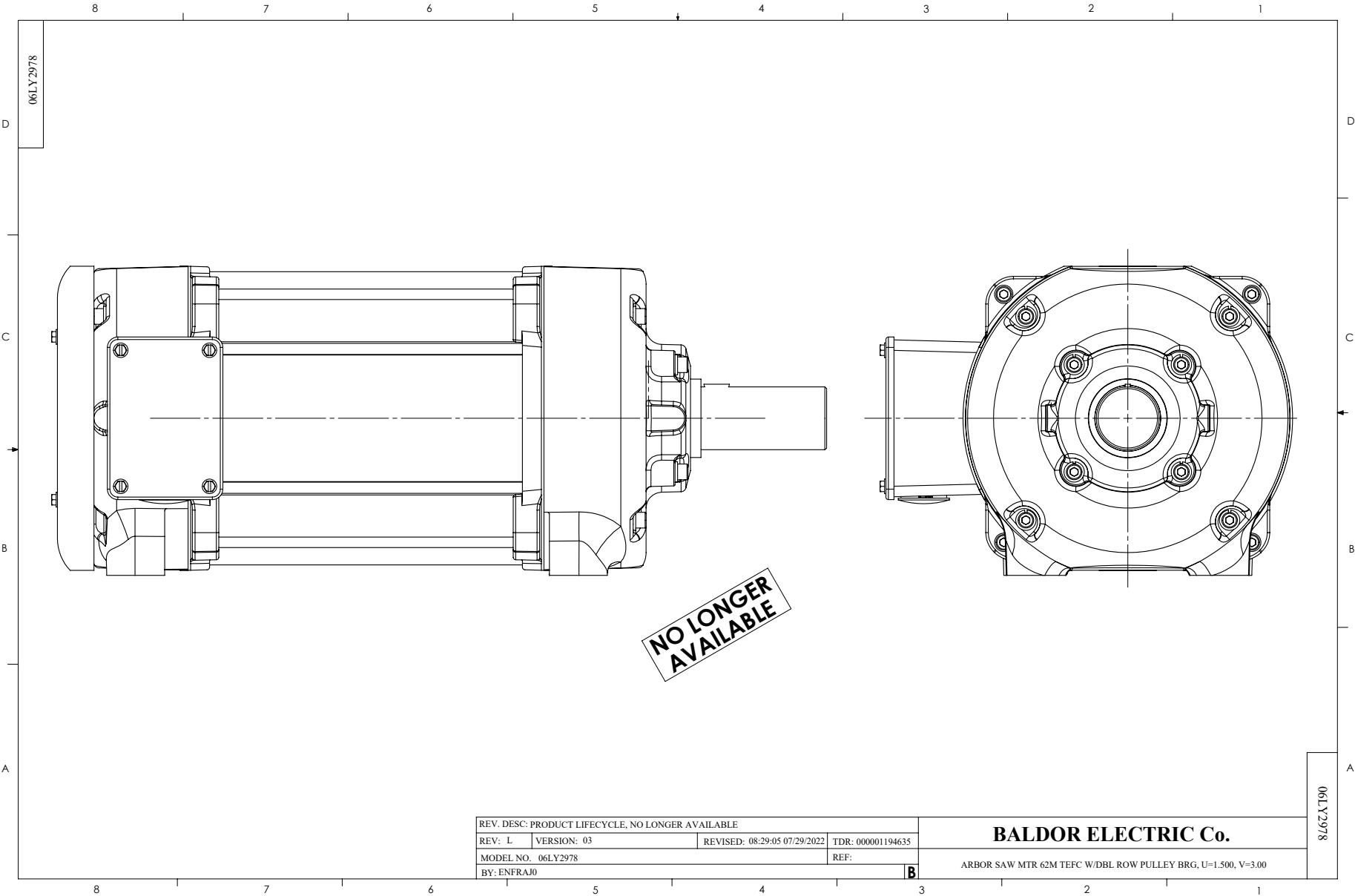
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3450 RPM 460 V 6246M

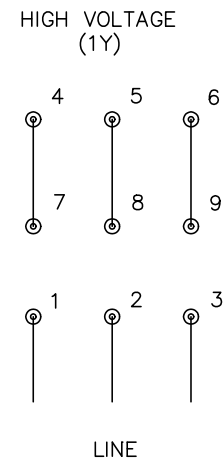
TORQUES (LB-FT): PO=68.1 PU=47.4 LR=58.8 LRA=103



8/22/2026 ACPERF, record # 50627



CD0005



- 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