

ABB BALDOR RELIANCE III

Customer information packet

EM7041T-I

2//1.5HP, 1175//975 75C RISERPM, 3PH, 60//5

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	184T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ 1.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CSA EEV 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	3.300 A @ 380.0 V 3.500 A @ 460.0 V 6.600 A @ 190.0 V 7.000 A @ 208.0 V 7.000 A @ 230.0 V
Design Code	A

Part Detail

Revision	P
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS917
Layout	36LYJ694
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	06-04-2012

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3644M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.52 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 rpm 975 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV												
NO.								CC	010A			
SER.								TEMP CODE			T3C	
SPEC.	36J694S917G1											
CAT.NO.	EM7041T-I											
HP	2//1.5											
VOLTS	230/460//190/380											
AMPS	7/3.5//6.6/3.3											
RPM	1175//975 75C RISE					MOTOR WEIGHT			119			
HERTZ	60//50	PH	3	CL	F	DE BRG		6206				
SER.F.	1.15	DES	A	CODE		M	ODE BRG			6205		
FRAME	184T	GREASE			POLYREX EM							
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				88.5		PF	60
	55C AMB AT 1.0 SF											

AC Induction Motor Performance Data

Record # 38672

Typical performance - not guaranteed values

Winding: 36WGS917-R003		Type: 3644M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2//1.5	Full Load Torque	8.91 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	7/3.5//6.6/3.3	Breakdown Torque	40.2 LB-FT
R.P.M.	1175//975	Pull-up Torque	21.6 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	28.2 LB-FT
NEMA Design Code	A KVA Code	Starting Current	27.5 A
Service Factor (S.F.)	1.15	No-load Current	2.45 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	4.2188 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	34°C
S.F. Amps		Temp. Rise @ S.F. Load	39°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	40	52	60	66	70	64
Efficiency	76.4	85.3	88	88.9	88.8	88.4	88.8
Speed	1196.9	1191.4	1185.5	1179.4	1172.7	1165.5	1175
Line amperes	2.53	2.76	3.09	3.49	3.97	4.52	3.78

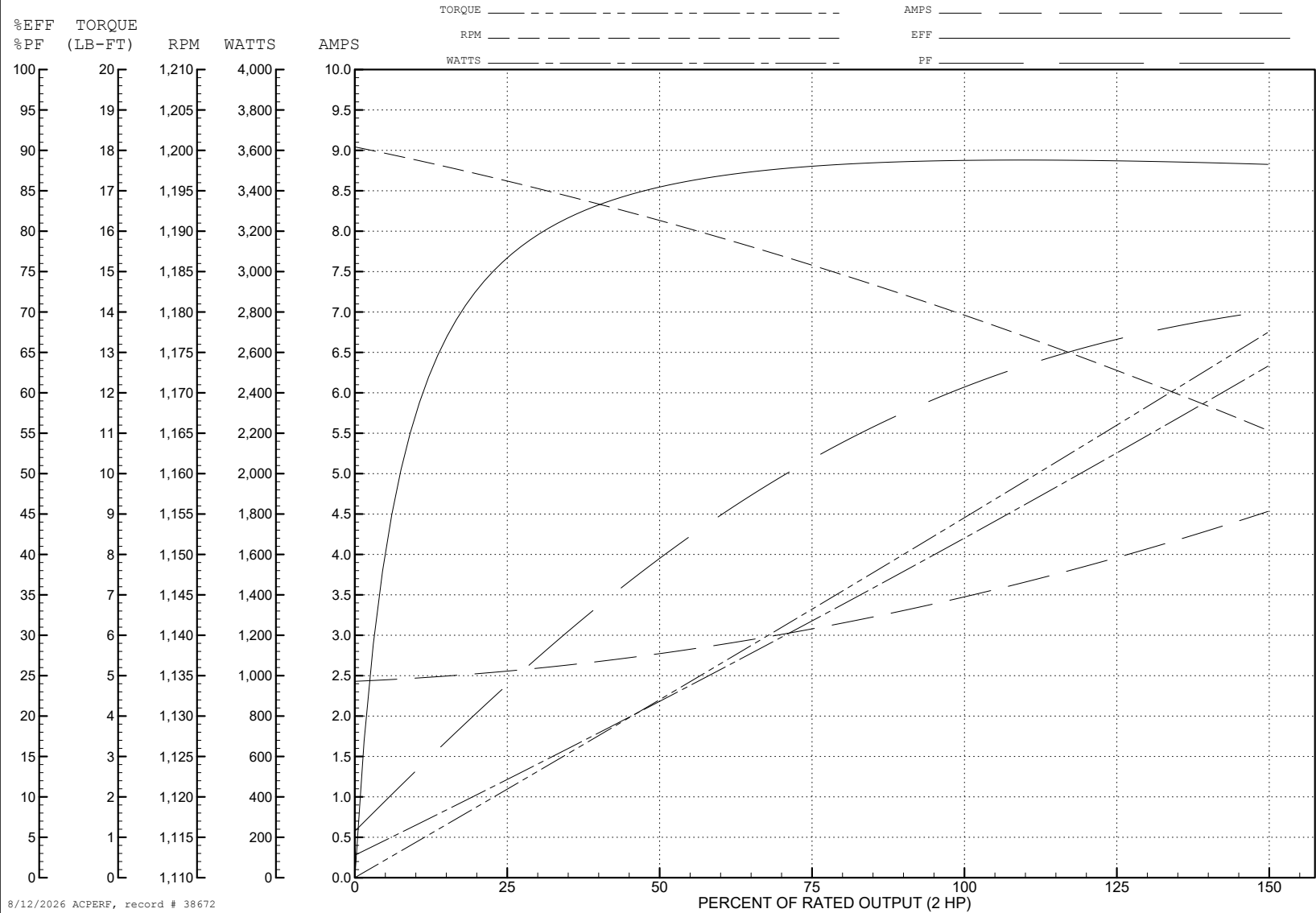
ABB Motors and Mechanical Inc.

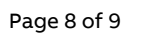
WINDING # 36WGS917

Typical performance - not guaranteed values.

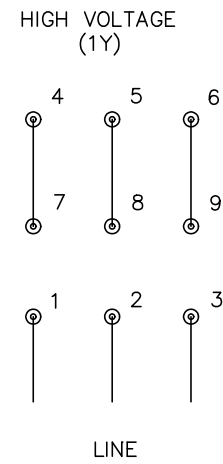
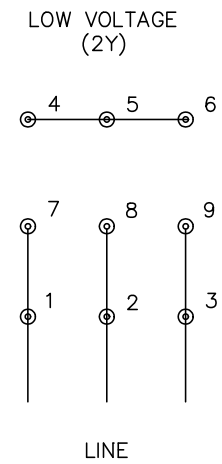
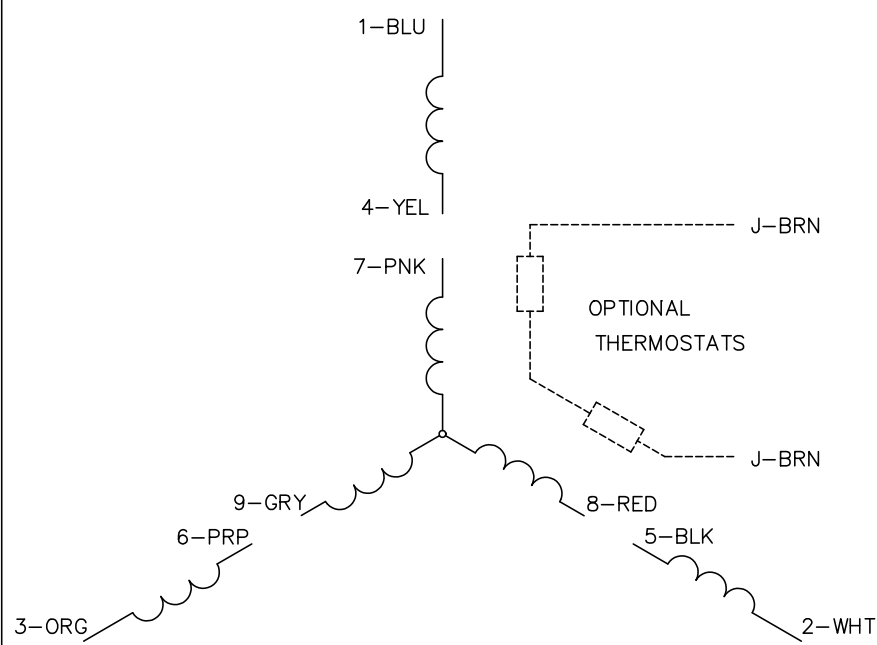
2 HP 3 PH 60 HZ 1179.4 RPM 460 V 3644M

TORQUES (LB-FT): PO=40.2 PU=21.6 LR=28.2 LRA=27.5





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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005