

ABB BALDOR RELIANCE III

Customer information packet

EM7542T-I

3HP, 1755RPM 75C RISE 3PH, 60HZ, 182T, 0632M

Class - CLI GP D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	182T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 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	UL CSA
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	4.100 A @ 460.0 V 8.200 A @ 230.0 V 8.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	S
Type	AC
Mech. spec.	06J017
Base	
Status	INA/A
Elec. spec.	06WGX181
Layout	06LYJ017
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-17-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	X0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.59 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-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	1755 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

NP1044XPSL											
NO.								CC	010A		
SER.								TEMP CODE	T3C		
SPEC.	06J017X181G1										
CAT.NO.											
HP	3										
VOLTS	230/460										
AMPS	8.2/4.1										
RPM	1755 75C RISE					MOTOR WEIGHT			141		
HERTZ	60	PH	3	CL	F	DE BRG	6206				
SER.F.	1.15	DES	B	CODE	J	ODE BRG	6205				
FRAME	182T		GREASE		POLYREX EM						
RATING	40C AMB-CONT										
NEMA-NOM-EFF	89.5	PF	77								
	55C AMB AT 1.0 SF										

AC Induction Motor Performance Data

Record # 32942

Typical performance - not guaranteed values

Winding: 06WGX181-R003			Type: 0632M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque			9.06 LB-FT
Volts		230/460	Start Configuration			direct on line
Full Load Amps		8.2/4.1	Breakdown Torque			33.1 LB-FT
R.P.M.		1755	Pull-up Torque			18.2 LB-FT
Hz	60	Phase	Locked-rotor Torque			20.4 LB-FT
NEMA Design Code	B	KVA Code	Starting Current			29.8 A
Service Factor (S.F.)		1.15	No-load Current			2.14 A
NEMA Nom. Eff.	89.5	Power Factor	Line-line Res. @ 25°C			3.92 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			35°C
S.F. Amps			Temp. Rise @ S.F. Load			42°C
			Locked-rotor Power Factor			41
			Rotor inertia			0.298 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	70	77	81	83	79
Efficiency	83.6	88.9	90.1	89.9	89.1	87.8	89.4
Speed	1789.5	1779.3	1768.8	1757	1744.4	1730	1749
Line amperes	2.34	2.79	3.39	4.1	4.91	5.86	4.59

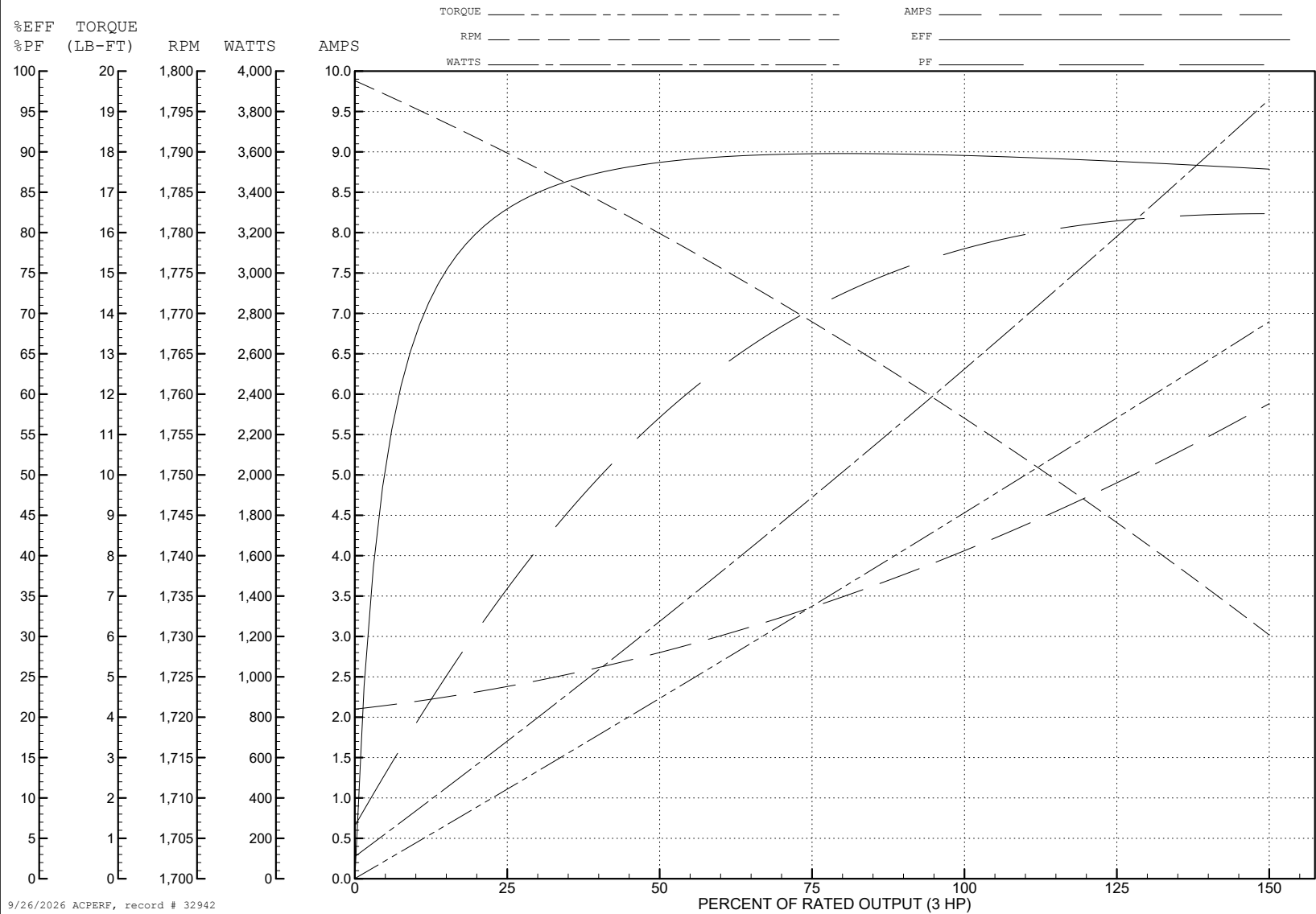
ABB Motors and Mechanical Inc.

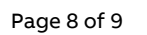
WINDING # 06WGX181

Typical performance - not guaranteed values.

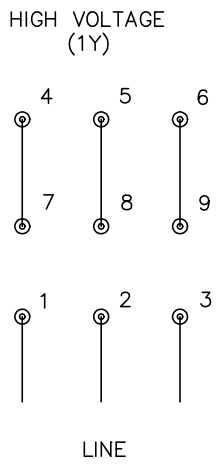
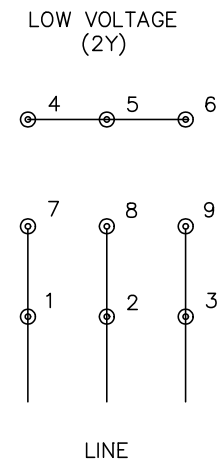
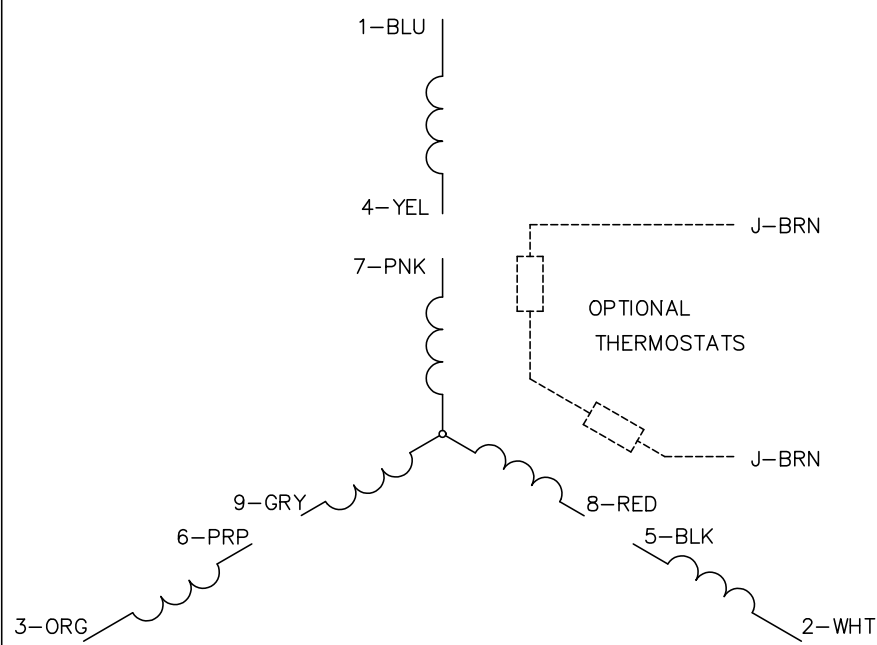
3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8





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