

ABB BALDOR RELIANCE III

Customer information packet

EM7144T-C

5//3HP, 1750//1450RPM, 3PH, 60//50HZ, 184T, 0

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	184T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL 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	5.200 A @ 380.0 V 6.600 A @ 460.0 V 14.000 A @ 208.0 V 13.200 A @ 230.0 V 10.400 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	N
Type	AC
Mech. spec.	06H297
Base	
Status	INA/A
Elec. spec.	06WGX182
Layout	06LYH297
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-04-2010

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	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard 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	X0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.56 IN
Power Factor	79
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	1.00
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	1450 rpm 1750 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

NP1482XPSL									
NO.		CC	010A						
SER.									
SPEC.	06H297X182G1								
CAT.NO.									
HP	5//3	T. CODE	T4						
VOLTS	230/460//190/380								
AMPS	13.2/6.6//10.4/5.2								
RPM	1750//1450								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	J				
RATING	40C AMB-CONT								
FRAME	184T	NEMA-NOM-EFF							89.5
PF	79								
BLANK									

AC Induction Motor Performance Data

Record # 35542

Typical performance - not guaranteed values

Winding: 06WGX182-R002			Type: 0642M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		15 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		13.2/6//10.4/5.2		Breakdown Torque		53.9 LB-FT	
R.P.M.		1750//1450		Pull-up Torque		22.4 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		31.8 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		46.6 A
Service Factor (S.F.)		1		No-load Current		3.02 A	
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		2.63 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		53°C	
S.F. Amps				Temp. Rise @ S.F. Load		65°C	
				Locked-rotor Power Factor		40.5	
				Rotor inertia		0.391 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	41	63	75	81	84	85
Efficiency	85.2	89.8	90.4	89.8	88.4	86.9
Speed	1789	1777	1765	1752	1737	1721
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47

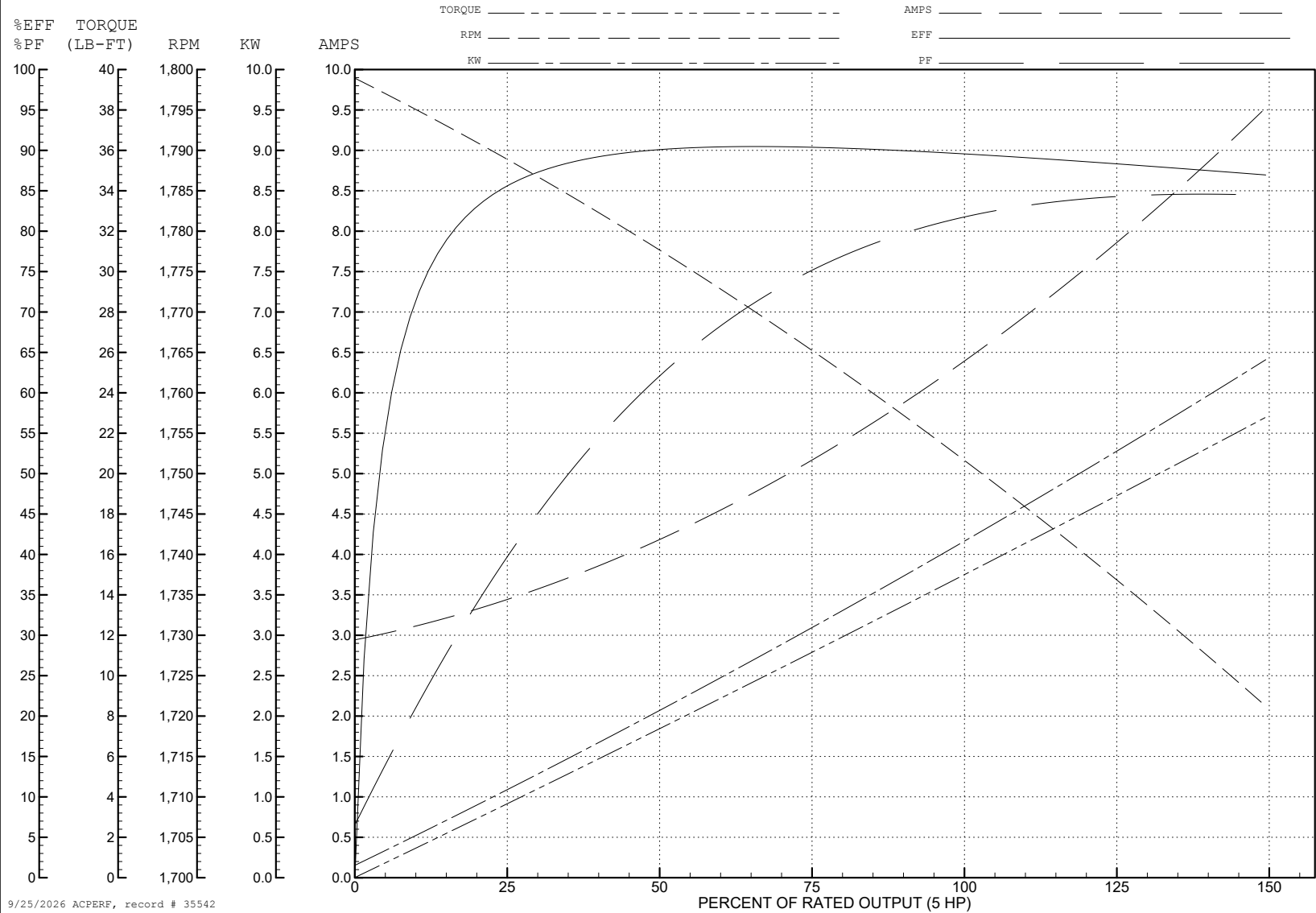
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WINDING # 06WGX182

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1752 RPM 460 V 0642M

TORQUES (LB-FT) : PO=53.9 PU=22.4 LR=31.8 LRA=46.6



AC Induction Motor Performance Data

Record # 50085

Typical performance - not guaranteed values

Winding: 06WGX182-R002			Type: 0642M		Enclosure: XPFC			
Nameplate Data				440 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5//3		Full Load Torque		15.1 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		13.2/6.6//10.4/5.2		Breakdown Torque		49 LB-FT		
R.P.M.		1750//1450		Pull-up Torque		20.2 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		28.7 LB-FT	
NEMA Design Code		B		KVA Code	J	Starting Current		44.2 A
Service Factor (S.F.)		1		No-load Current		2.79 A		
NEMA Nom. Eff.		89.5	Power Factor	79	Line-line Res. @ 25°C		2.63 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C		
S.F. Amps				Temp. Rise @ S.F. Load		68°C		
				Locked-rotor Power Factor		40.2		
				Rotor inertia		0.391 LB-FT2		

Load Characteristics 440 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	67	78	83	85	86
Efficiency	86	90.2	90.3	89.9	88.2	86.1
Speed	1788	1775	1762	1748	1731	1713
Line amperes	3.17	4.06	5.25	6.61	8.19	9.92

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WINDING # 06WGX182

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1748 RPM 440 V 0642M

TORQUES (LB-FT): PO=49 PU=20.2 LR=28.7 LRA=44.2

