

ABB BALDOR RELIANCE III

Customer information packet

EHM2506T

7.5HP, 1180RPM, 3PH, 60HZ, 254T, 3950M, OPSB, F

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 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	11.000 A @ 460.0 V 22.400 A @ 230.0 V 23.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F

Part Detail

Revision	R
Type	AC
Mech. spec.	39R006
Base	
Status	PRD/A
Elec. spec.	39WGX747
Layout	39LYR006
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	10-21-2013

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3950M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	70
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP2094E06B03									
CAT.NO.	EHM2506T								
SPEC.	39R006X747G1								
HP	7.5								
VOLTS	230/460								
AMPS	22.8/11.4								
RPM	1180								
FRAME	254T		HZ	60		PH	3		
SER.F.	1.15	CODE	K	DES	A	CL	F		
NEMA-NOM-EFF	90.2		PF	68					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				N/A		
DE	6309		ODE	6208					
AUTO		MANUAL			NONE				
ENCL	OPSB	SN							
BLANK									

AC Induction Motor Performance Data

Record # 31707

Typical performance - not guaranteed values

Winding: 39WGW916-R007			Type: 3938M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		37.4-35.4/17.7	Breakdown Torque		171 LB-FT	
R.P.M.		1765	Pull-up Torque		78.7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		99.4 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		118 A	
Service Factor (S.F.)		1.15	No-load Current		7.27 A	
NEMA Nom. Eff.		93 Power Factor	Line-line Res. @ 25°C		0.622 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		22°C	
S.F. Amps			Temp. Rise @ S.F. Load		29°C	
			Locked-rotor Power Factor		35	
			Rotor inertia		1.66 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	70	81	86	88	89	87
Efficiency	90.1	93.3	93.5	93.1	92.2	91	92.6
Speed	1792	1784	1775	1765	1754	1742	1759
Line amperes	8.27	10.72	13.99	17.67	21.74	26.21	20.11

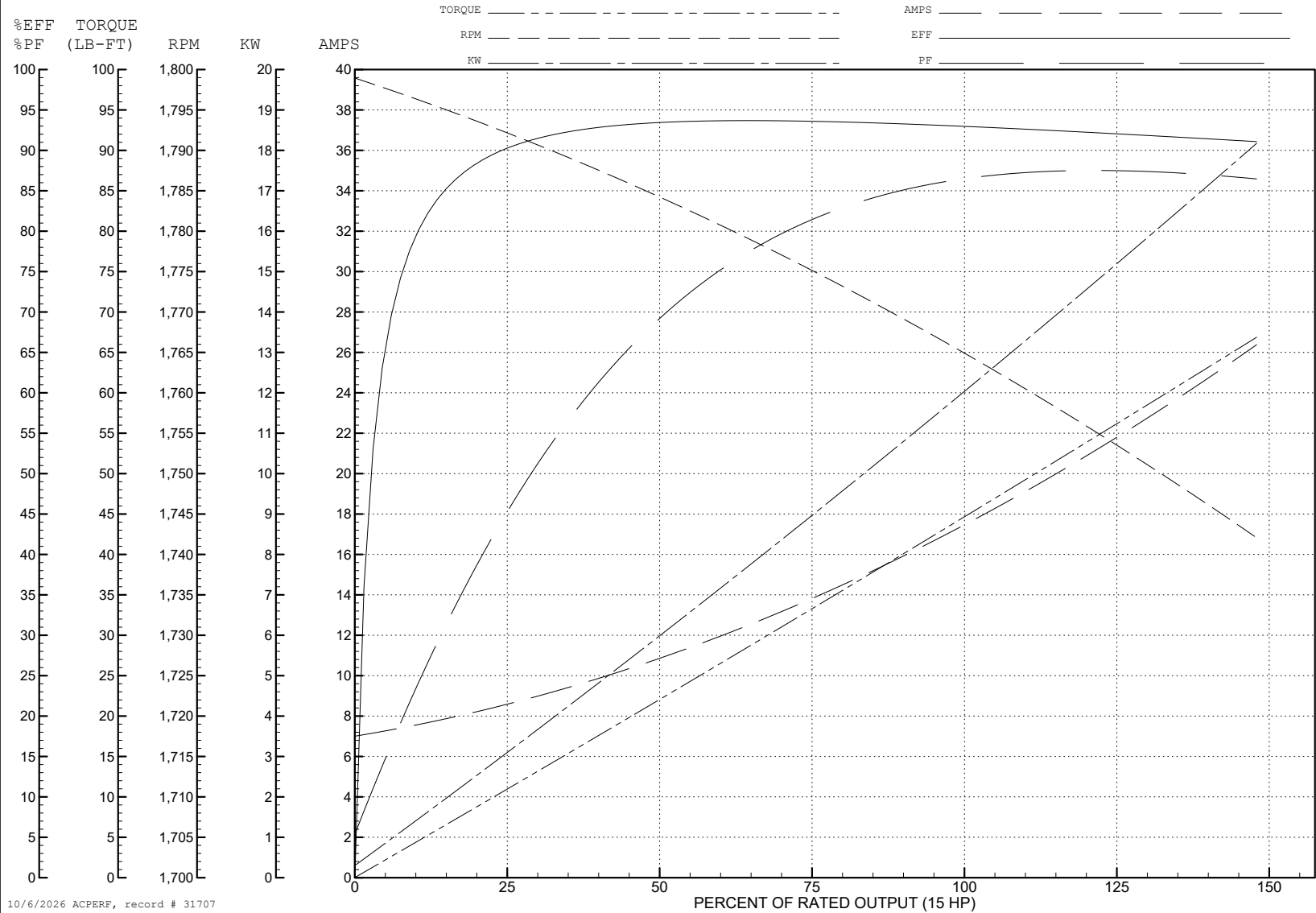
ABB Motors and Mechanical Inc.

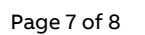
WINDING # 39WGW916

Typical performance - not guaranteed values.

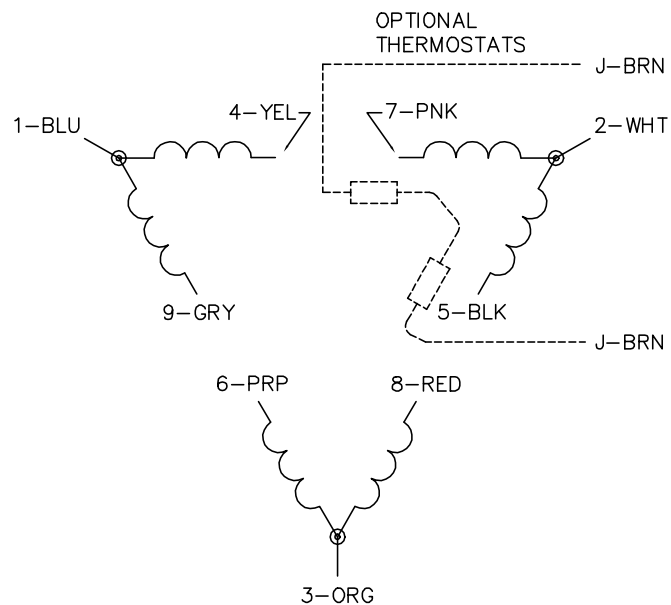
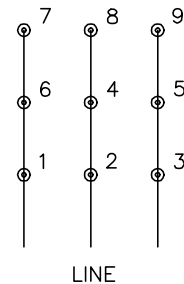
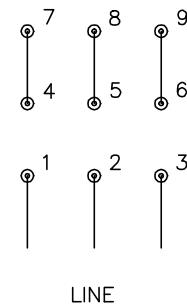
15 HP 3 PH 60 HZ 1765 RPM 460 V 3938M

TORQUES (LB-FT): PO=171 PU=78.7 LR=99.4 LRA=118





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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