

ABB BALDOR RELIANCE III

Customer information packet

EM7018T

1.5//1HP, 3500//2900RPM, 3PH, 60//50HZ, 143T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	143T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ 1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 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	1.700 A @ 380.0 V 1.900 A @ 460.0 V 3.400 A @ 190.0 V 3.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %

Part Detail

Revision	U
Type	AC
Mech. spec.	35E362
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE362
Eff. date	06-04-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-11-2010

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	1.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.36 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2900 rpm

	3500 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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	35E362M760G1								
CAT.NO.	EM7018T								
HP	1.5//1	T. CODE	T3C						
VOLTS	230/460//190/380								
AMPS	3.8/1.9//3.4/1.7								
RPM	3500//2900								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	L				
RATING	40C AMB-CONT								
FRAME	143T	NEMA-NOM-EFF							84
		PF	85						
BLANK									

AC Induction Motor Performance Data

Record # 35601

Typical performance - not guaranteed values

Winding: 35WGM760-R002		Type: 3520M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5//1	Full Load Torque	2.22 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	3.8/1.9//3.4/1.7	Breakdown Torque	9.49 LB-FT
R.P.M.	3500//2900	Pull-up Torque	3.61 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	7.35 LB-FT
NEMA Design Code	B KVA Code	Starting Current	17.9 A
Service Factor (S.F.)	1	No-load Current	0.932 A
NEMA Nom. Eff.	84 Power Factor	Line-line Res. @ 25°C	12.2 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	43°C
S.F. Amps		Temp. Rise @ S.F. Load	50°C
		Locked-rotor Power Factor	60
		Rotor inertia	0.0553 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	67	79	85	89	90
Efficiency	72.3	82.2	84.4	84.8	84.3	82.8
Speed	3575	3551	3526	3498	3466	3433
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79

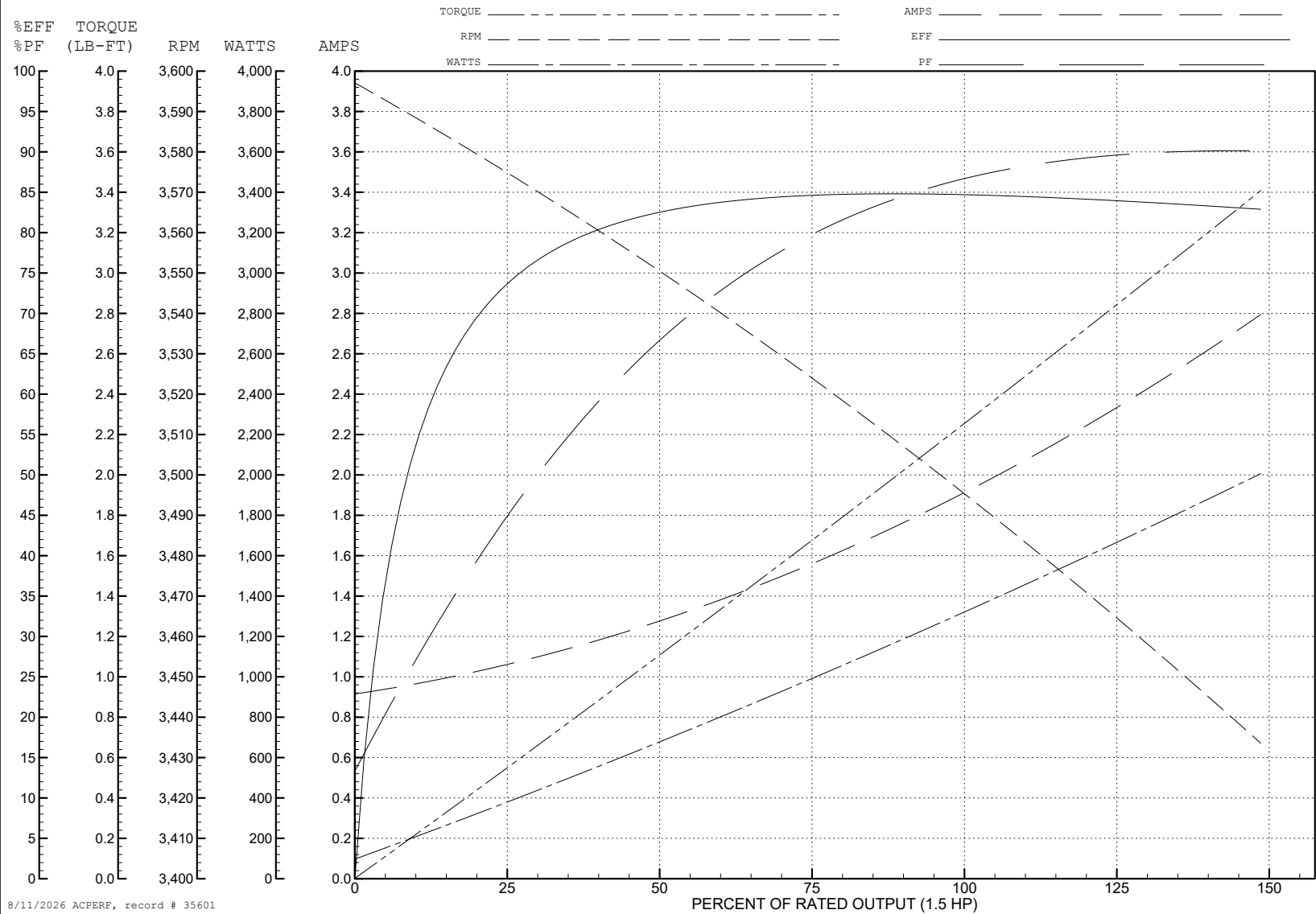
ABB Motors and Mechanical Inc.

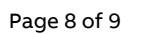
WINDING # 35WGM760

Typical performance - not guaranteed values.

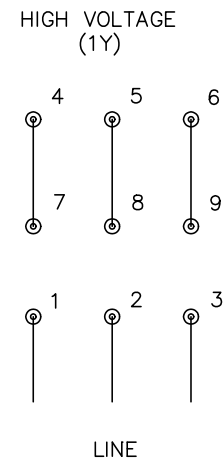
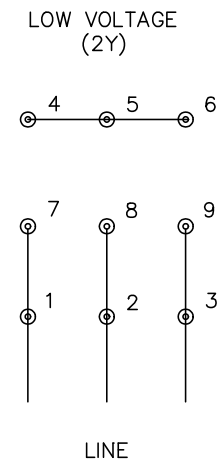
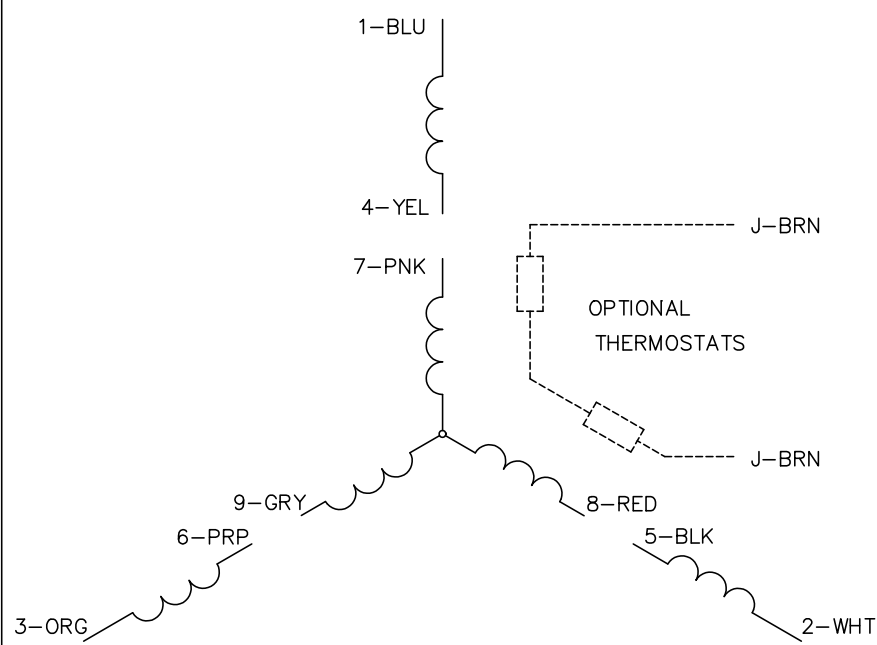
1.5 HP 3 PH 60 HZ 3498 RPM 460 V 3520M

TORQUES (LB-FT): PO=9.49 PU=3.61 LR=7.35 LRA=17.9





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