

ABB BALDOR RELIANCE III

Customer information packet

EM3218T-57

5HP, 1450RPM, 3PH, 50HZ, 184T, 3646M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	184T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
Agency Approvals	CE CURUS IE3 UKCA WEEE C UR US
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	8.000 A @ 400.0 V 14.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	G
Type	AC
Mech. spec.	36B001
Base	
Status	PRD/A
Elec. spec.	36WGR998
Layout	36LYB001
Eff. date	10-30-2025
CD Diagram	CD0022
Poles	04
Leads	6#14
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	75
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	1.15
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	1450 rpm
Speed Code	Single Speed
Starting Method	Direct on line

Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2716L									
CAT NO	EM3218T-57								
SPEC.	36B001R998G1								
HP	5/3.7KW					PH	3		
VOLTS	230/400								
AMP	14/8								
R.P.M. (1/MIN)	1450								
FRAME	184T		HZ	50		I.P.		23	
SER.F.	1.15	CODE	K	DES	B	CL		F	
NOM.EFF.	88.4		% (100%)						
PF	75								
RATING	40C AMB-CONT				CC				
DE BRG	6206		ODE		6205				
ENCL	OPEN	SN							
BLANK	IE3 89.0(75%)88.0(50%)								
	46KG IC01								

AC Induction Motor Performance Data

Record # 54640

Typical performance - not guaranteed values

Winding: 36WGR998-R001			Type: 3646M		Enclosure: OPEN			
Nameplate Data			380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		5	Full Load Torque		18.07 LB-FT			
Volts		230/400	Start Configuration		direct on line			
Full Load Amps		14/8	Breakdown Torque		67.85 LB-FT			
R.P.M.		1450	Pull-up Torque		35.59 LB-FT			
Hz		50	Phase		3	Locked-rotor Torque	43.26 LB-FT	
NEMA Design Code		B	KVA Code		K	Starting Current		57.27 A
Service Factor (S.F.)		1.15	No-load Current		3.64 A			
NEMA Nom. Eff.		88.4	Power Factor		75	Line-line Res. @ 25°C		1.91 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		82°C	
S.F. Amps			Temp. Rise @ S.F. Load		102°C			
			Locked-rotor Power Factor		44			
			Rotor inertia		0.428 LB-FT2			

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	64	76	82	85	86	79
Efficiency	84.3	89	89.5	88.5	87.1	85.1	88.1
Speed	1489	1476	1464	1449	1434	1416	1444
Line amperes	4.03	4.94	6.21	7.77	9.57	11.58	8.87

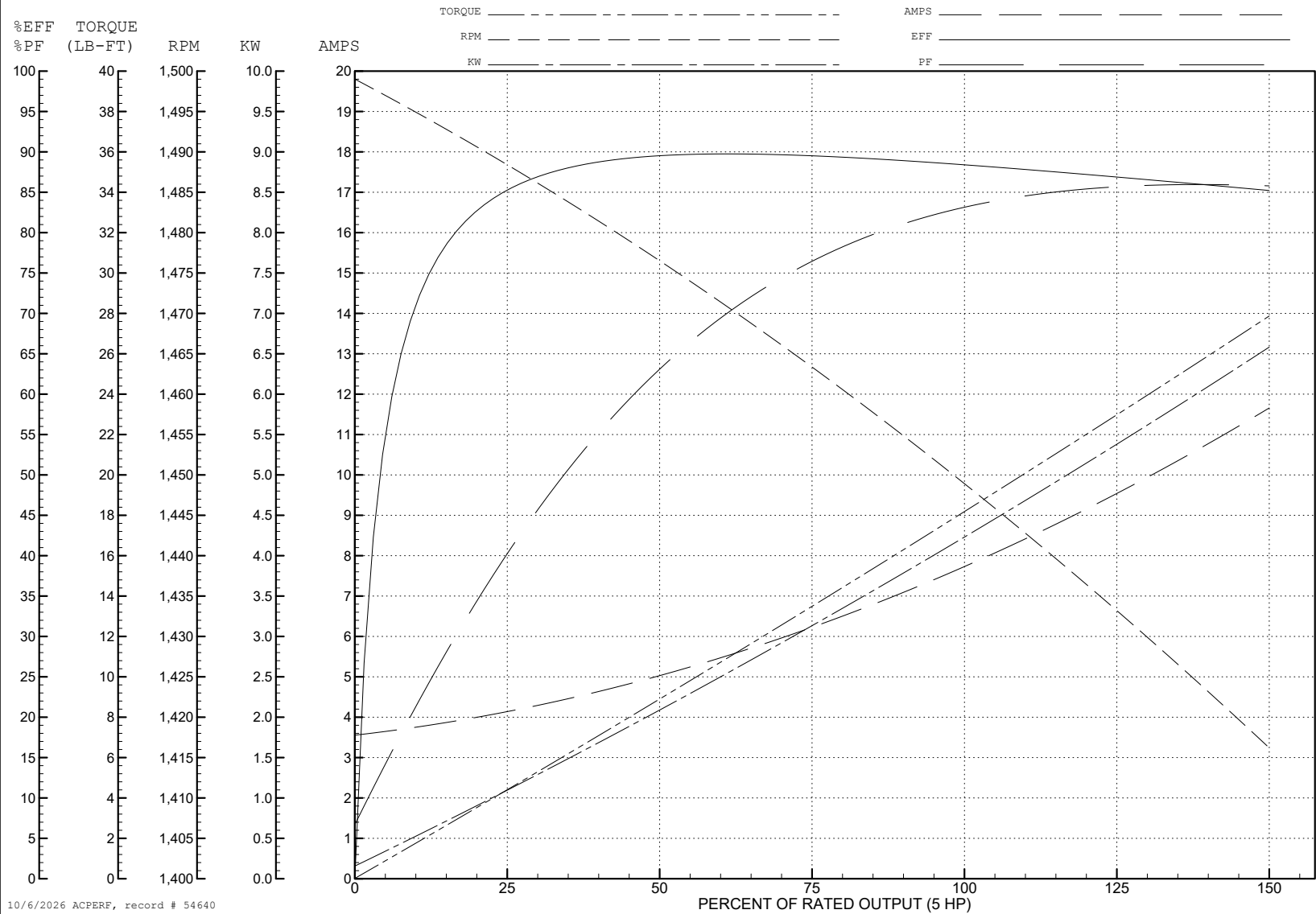
ABB Motors and Mechanical Inc.

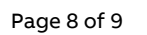
WINDING # 36WGR998

Typical performance - not guaranteed values.

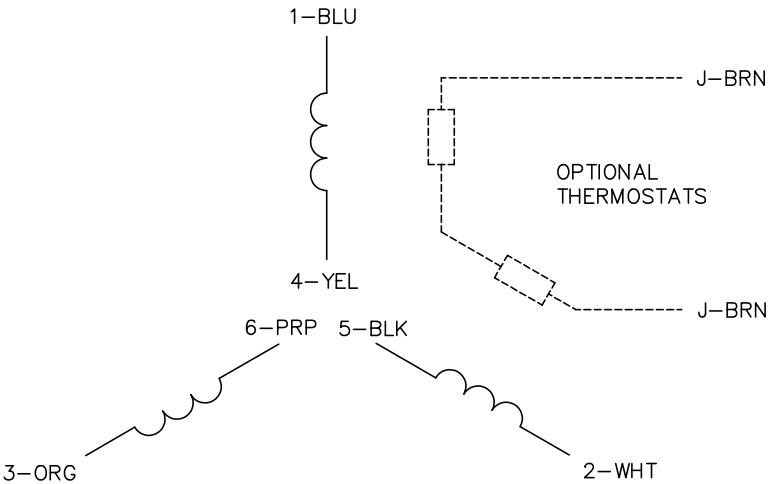
5 HP 3 PH 50 HZ 1450 RPM 380 V 3646M

TORQUES (LB-FT) : PO=67.85 PU=35.59 LR=43.26 LRA=57.27

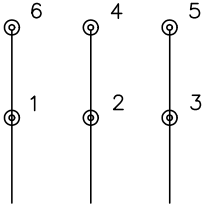




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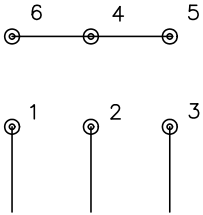


LOW VOLTAGE
(1D)



LINE

HIGH VOLTAGE
(1Y)



LINE

- 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: F

BY: JLP

REVISED: 01/21/99 3:54

TDR: 0171435

CD0022

FILE: AAA00005144

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022