

ABB BALDOR RELIANCE III

Customer information packet

CEWDM3709T-5

7.5HP, 3500RPM, 3PH, 60HZ, 213TC, 3738M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	7.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a
Insulation Class	F

Part Detail

Revision	S
Type	AC
Mech. spec.	37H887
Base	
Status	PRD/A
Elec. spec.	37WGY767
Layout	37LYH887
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	10-18-2011

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.78 IN
Power Factor	90
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP1669L									
CAT.NO.	CEWDM3709T-5								
SPEC.	37H887Y767G1								
HP	7.5								
VOLTS	575								
AMP	7								
RPM	3500								
FRAME	213TC		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	A	CLASS		F	
NEMA-NOM-EFF	91	PF	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6206					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 84466

Typical performance - not guaranteed values

Winding: 37WGY767-R001			Type: 3738M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		7.5	Full Load Torque		11.2 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		7	Breakdown Torque		54 LB-FT		
R.P.M.		3500	Pull-up Torque		24 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		32 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		69 A
Service Factor (S.F.)		1.15		No-load Current		2 A	
NEMA Nom. Eff.		91	Power Factor	90	Line-line Res. @ 25°C		1.59 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps				Temp. Rise @ S.F. Load		46°C	
				Locked-rotor Power Factor		32.5	
				Rotor inertia		0.347 lb-ft²	

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	86	89	90	86	90
Efficiency	85.1	90	91.2	91.1	90.5	89.4	90.7
Speed	3578	3557	3538	3516	3493	3463	3502
Line amperes	2.7	3.9	5.4	6.9	8.6	10.8	7.92

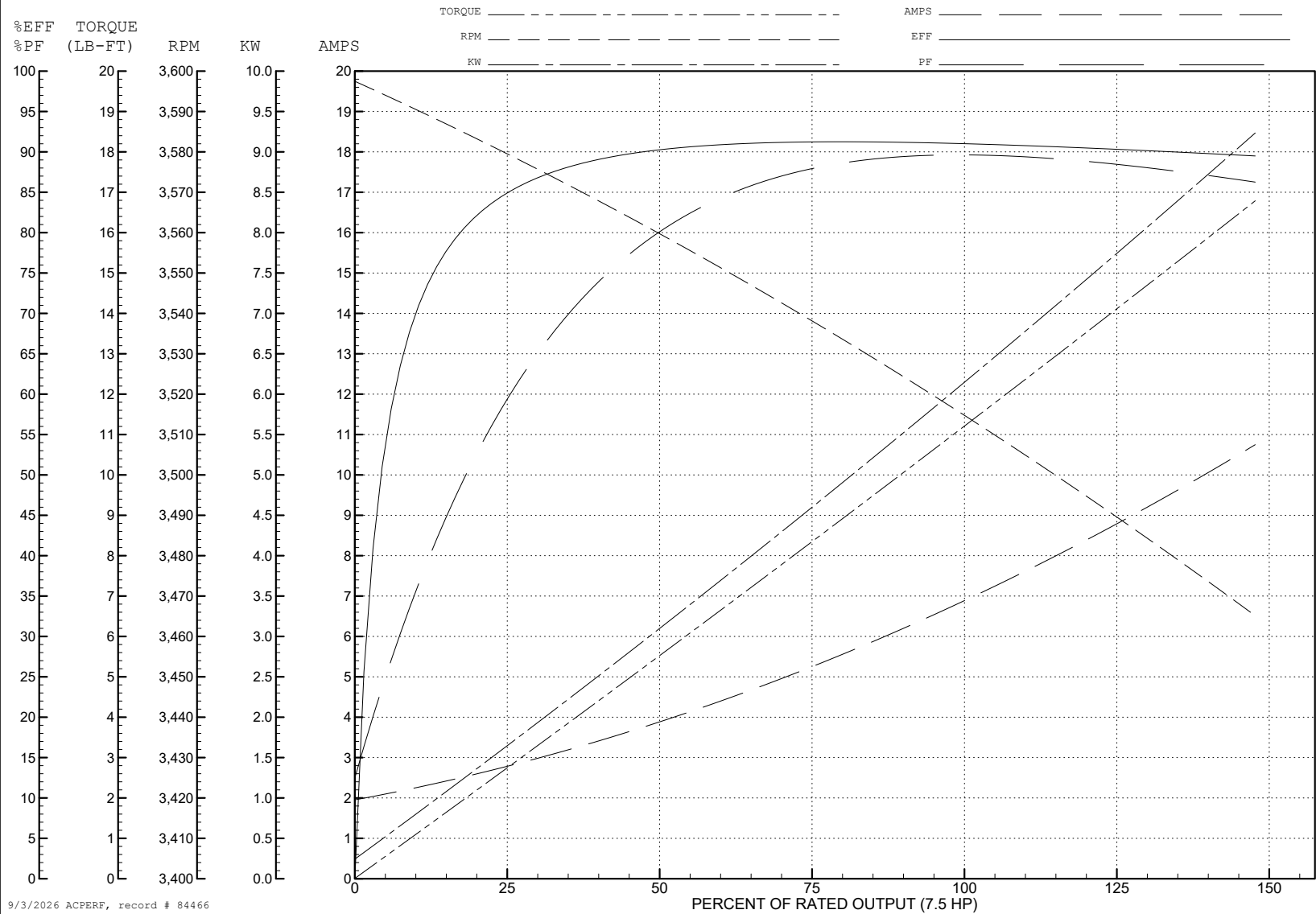
ABB Motors and Mechanical Inc.

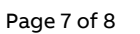
WINDING # 37WGY767

Typical performance - not guaranteed values.

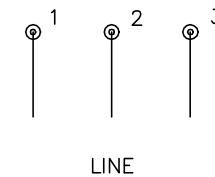
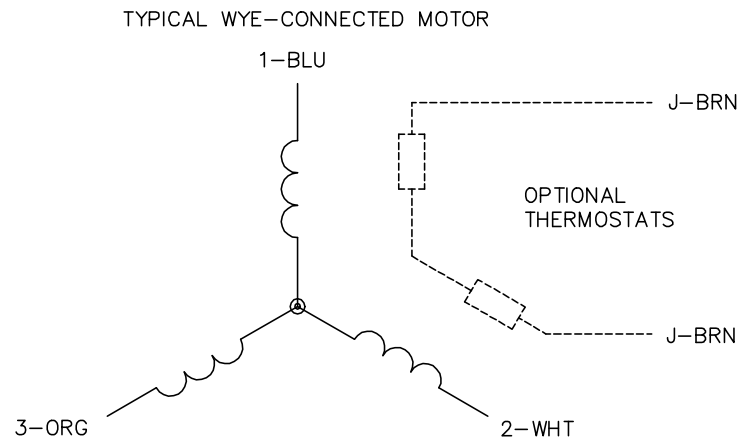
7.5 HP 3 PH 60 HZ 3500 RPM 575 V 3738M

TORQUES (LB-FT) : PO=54 PU=24 LR=32 LRA=69





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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