

ABB BALDOR RELIANCE III

Customer information packet

EM3769T-8

7.5HP, 3500RPM, 3PH, 60HZ, 213T, 0724M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Iron
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	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	21.000 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
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
Heater Indicator	No Heater
High Voltage Full Load Amps	21.0 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGY364
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	09-24-2012

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	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0724M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.45 IN
Power Factor	85
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP3441L											
CAT.NO.	EM3769T-8										
SPEC.	07H002Y364G1										
HP	7.5										
VOLTS	200										
AMP	21										
RPM	3500										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	85								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 39894

Typical performance - not guaranteed values

Winding: 07WGY364-R001			Type: 0724M		Enclosure: TEFC		
Nameplate Data			200 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		7.5	Full Load Torque		11.2 LB-FT		
Volts		200	Start Configuration		direct on line		
Full Load Amps		21	Breakdown Torque		48.8 LB-FT		
R.P.M.		3500	Pull-up Torque		14.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		20.3 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		145 A
Service Factor (S.F.)		1.15	No-load Current		8.5 A		
NEMA Nom. Eff.		89.5	Power Factor	85	Line-line Res. @ 25°C		0.235 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps				Temp. Rise @ S.F. Load		57°C	
				Locked-rotor Power Factor		34	
				Rotor inertia		0.219 LB-FT2	

Load Characteristics 200 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	80	85	87	87	86
Efficiency	83.2	88.9	90.3	89.8	89.3	88.4	89.5
Speed	3574	3552	3527	3500	3473	3442	3484
Line amperes	9.87	12.8	16.8	21.1	26	31.3	24

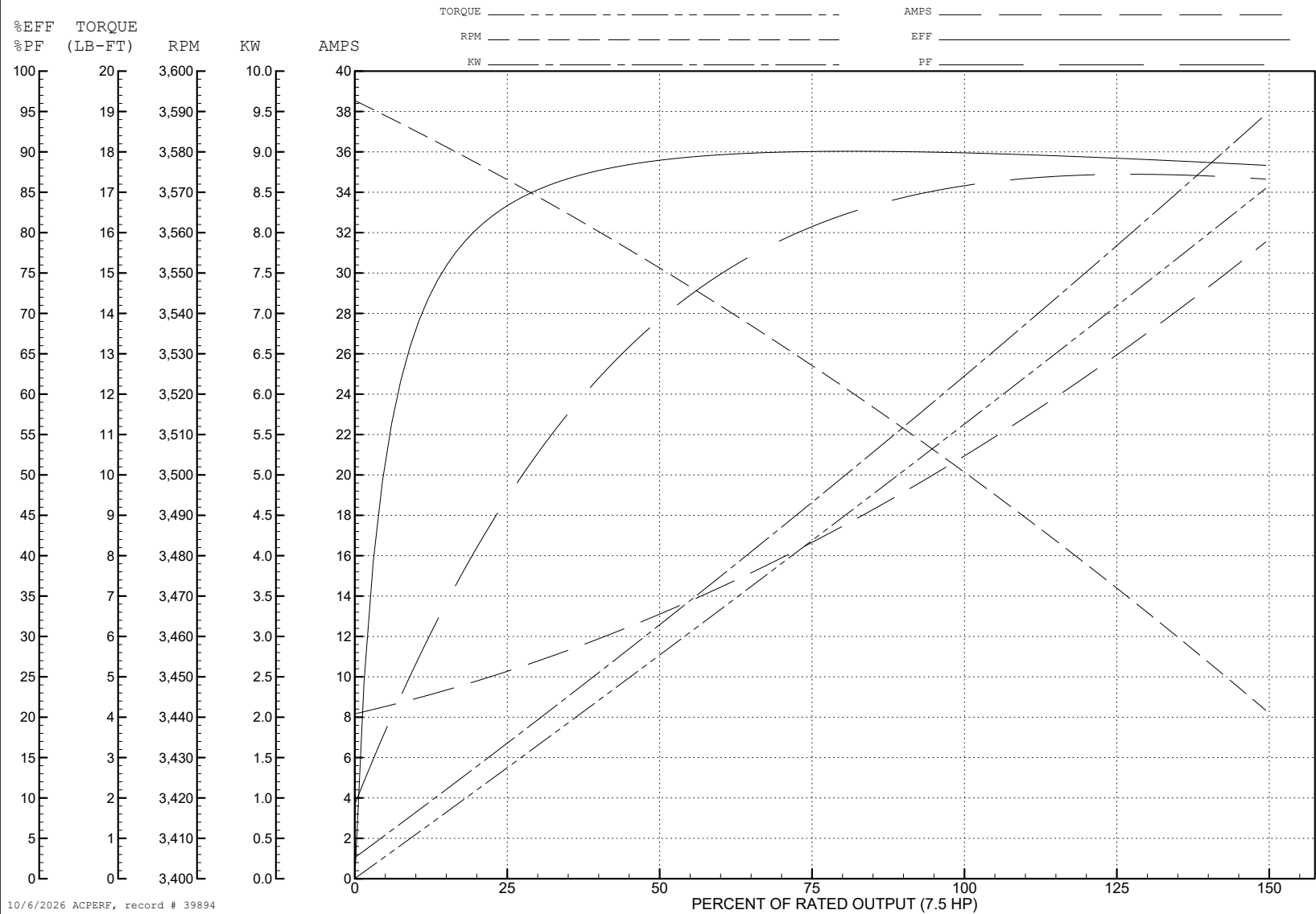
ABB Motors and Mechanical Inc.

WINDING # 07WGY364

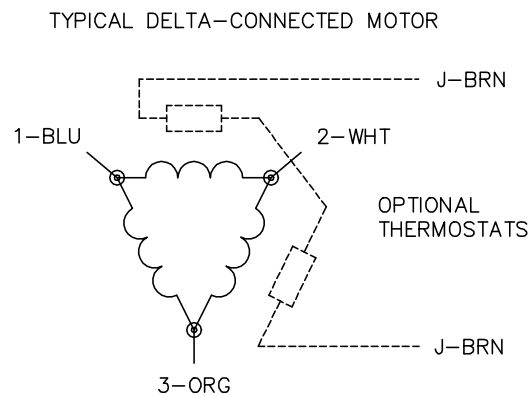
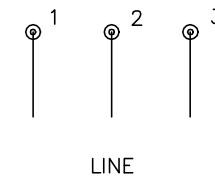
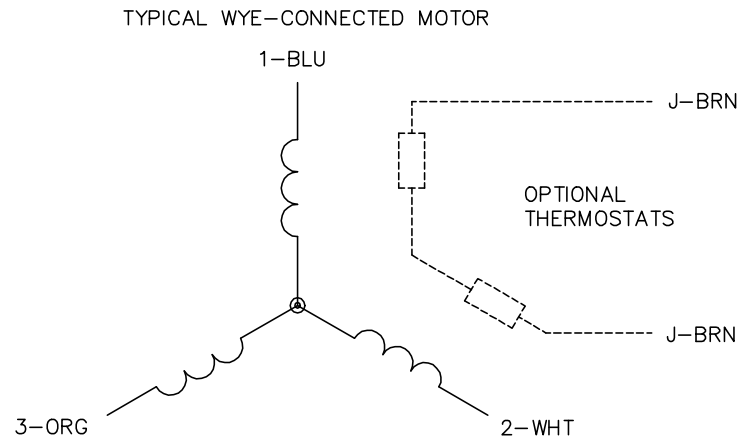
Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3500 RPM 200 V 0724M

TORQUES (LB-FT): PO=48.8 PU=14.4 LR=20.3 LRA=145



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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