

ABB BALDOR RELIANCE III

Customer information packet

CEM3769T-5

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TC
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	575.0 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	7.400 A @ 575.0 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	7.4 a
Insulation Class	F

Part Detail

Revision	Q
Type	AC
Mech. spec.	07H058
Base	
Status	PRD/A
Elec. spec.	07WGY363
Layout	07LYH058
Eff. date	08-10-2026
CD Diagram	CD00006
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	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	19.20 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	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.	CEM3769T-5										
SPEC.	07H058Y363G1										
HP	7.5										
VOLTS	575										
AMP	7.4										
RPM	3500										
FRAME	213TC		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	84								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

AC Induction Motor Performance Data

Record # 39891

Typical performance - not guaranteed values

Winding: 07WGY363-R001			Type: 0724M		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		7.4	Breakdown Torque		49.3 LB-FT		
R.P.M.		3500	Pull-up Torque		14.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		20.6 LB-FT	
NEMA Design Code		B	KVA Code	H		Starting Current	50.9 A
Service Factor (S.F.)		1.15	No-load Current		3.01 A		
NEMA Nom. Eff.		0	Power Factor	0		Line-line Res. @ 25°C	1.89 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 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	69	79	84	86	87	85
Efficiency	83.4	89.2	90.5	90	89.4	88.6	89.6
Speed	3574	3552	3527	3501	3474	3443	3485
Line amperes	3.48	4.51	5.87	7.36	9.06	10.9	8.38

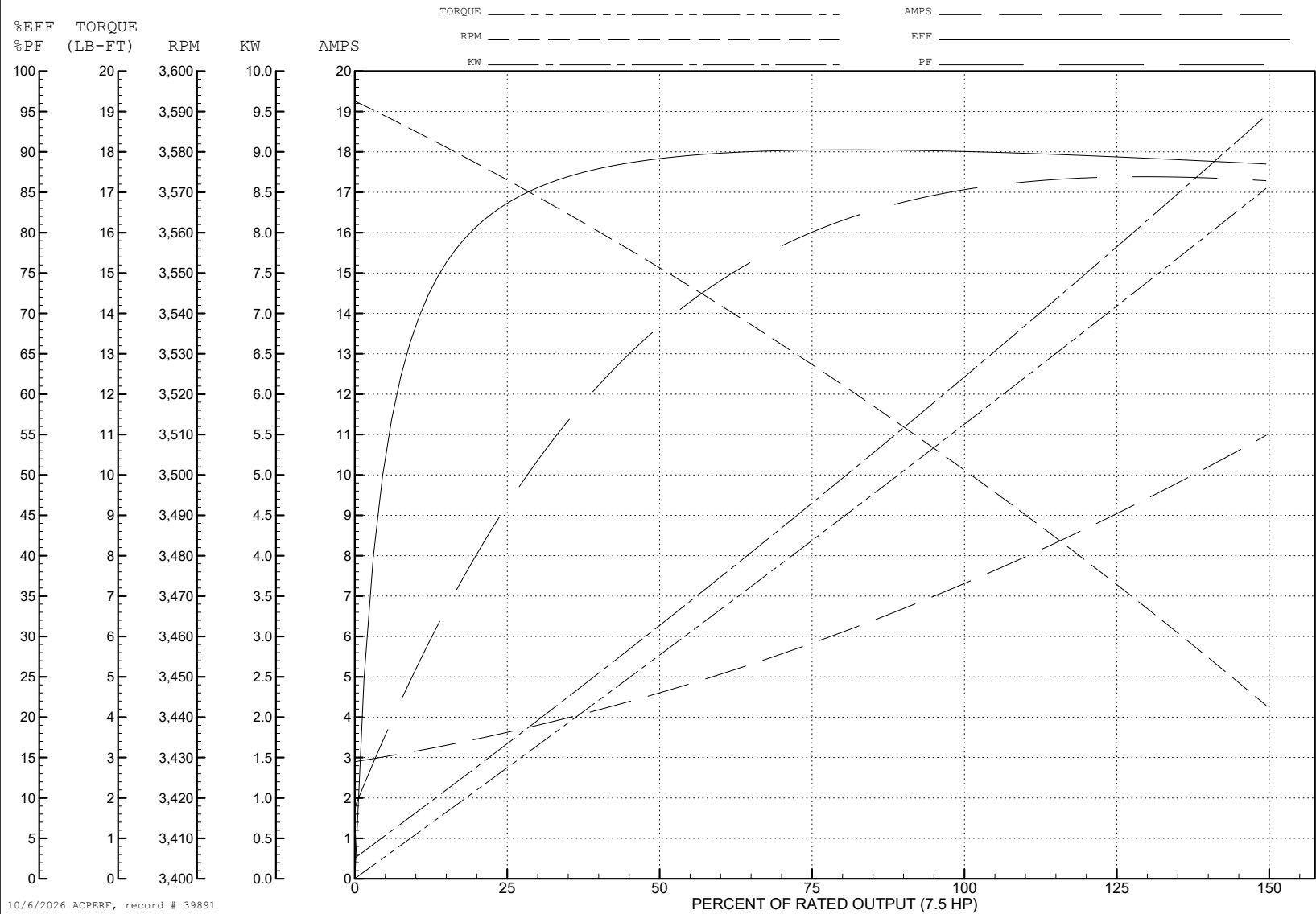
ABB Motors and Mechanical Inc.

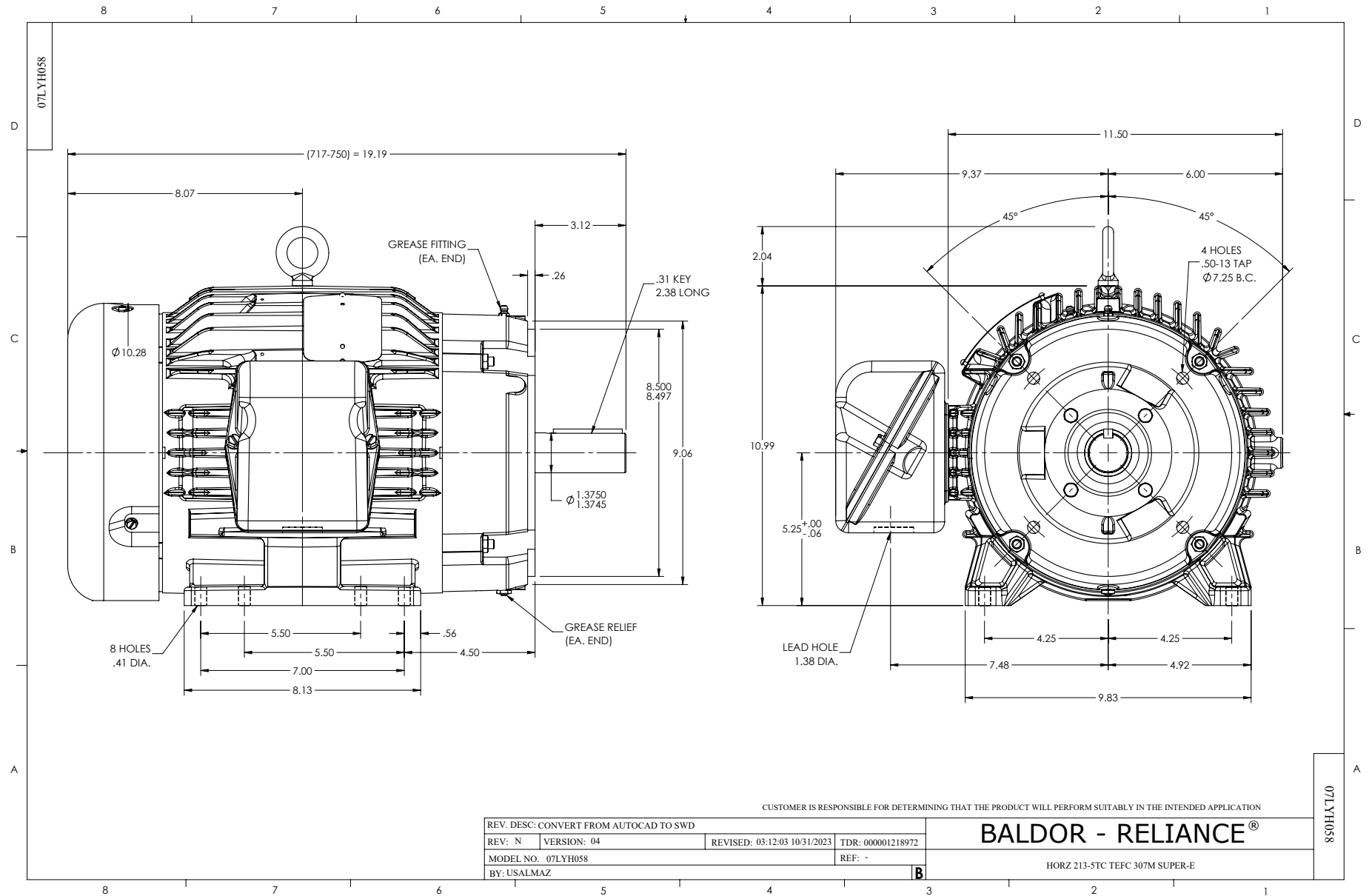
WINDING # 07WGY363

Typical performance - not guaranteed values.

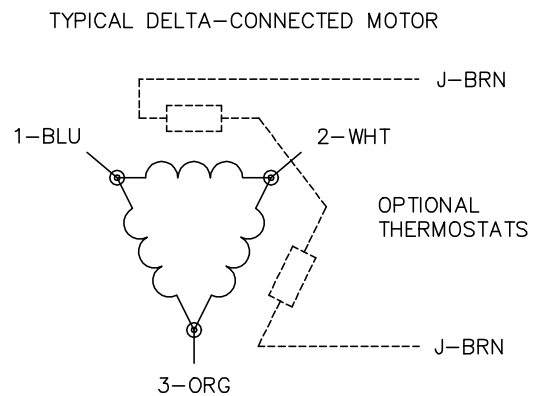
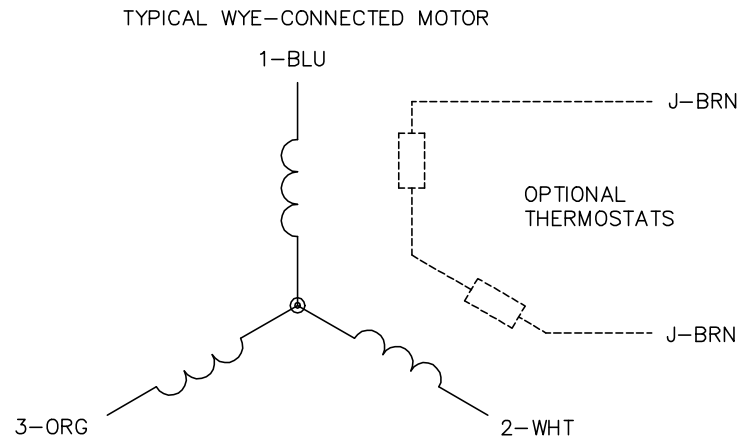
7.5 HP 3 PH 60 HZ 3500 RPM 575 V 0724M

TORQUES (LB-FT): PO=49.3 PU=14.5 LR=20.6 LRA=50.9





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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